



LOOKING AT PEOPLE LOOKING AT ANIMALS

AN INTERNATIONAL BIBLIOGRAPHY
ON VISITOR EXPERIENCE STUDIES
AND EXHIBIT EVALUATION
IN ZOOS AND AQUARIUMS

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INTRODUCTION

*What times are these,
When to speak of animals is almost an infamy
As it implies silence over so many horrors
(after Bertolt Brecht)*

*We need zoos for what they are.
We need them even more, for what they could be.
(Dirk Petzold)*

In recent years, visitor studies and exhibit evaluation have gained a lot of importance in the zoo and aquarium world, and rightly so.

Zoos and aquariums have been through a considerable evolution since the last decades, but of course so has the rest of the world. Conservation and education are now (almost) generally accepted as essential reasons for the existence of all live animal collections, and the outside world more than ever rightfully demands that we “stand and deliver”. For much of what we do, experience has been built up and evaluation of our performance is now widely considered as essential for good practice: population management methods allow us to evaluate our success in captive breeding by looking at the genetic diversity of our animal collections, animal welfare and health factors (including behaviour) can be monitored and it is not too difficult to detect what could be improved. From a business point of view, we have learned that counting visitors and the money they spend is only the beginning – we now know what our markets look like, or how much we contribute to our local economies (and if we don’t know yet, at least we have a variety of techniques at our disposal to help us find out...). All these measurements and data – from the inbreeding coefficient of our snow leopards or the success rate of our latest marketing campaign or even the number of times our research is cited in other publications – help us to improve our performance as an organization, to make sure we meet the standards and complete our mission.

Yet when it comes to our role as interpreters and educators still far too many zoos and aquariums have little or nothing to go by when it comes to measuring our impact.

Do our visitors read the labels that we have so carefully produced for them? Does it make any difference if we spend a lot of effort and money in theming our animal exhibits? Are we really educating the audience of our animal demonstrations and shows? And – most important of all – does our conservation message reach the audience, and how do they respond to it?

Everyone who works in a zoo or aquarium will have his or her own views on what visitors want, like, or dislike. But are these views based on reality? Is there any evidence to support our claims? Are we doing the best we can in interpreting the natural world, its beauty and complexity? And are we really educating our audiences about the increasing threats, not only to wild animals and their habitats, but to our very own existence? What more can we do to motivate people to think

and to take action – not just by contributing to one of our conservation projects, but by changing to a more sustainable lifestyle?

There is only one way to find out – it is through carefully studying our visitors' response to all the experiences and interpretation we offer them.

We are not the only organizations that have realized that we can only perform if we evaluate. As zoos and aquariums we are very specific in that we work with live animals, but still we can learn a lot from experience elsewhere: historically, museums, science centers or national parks have been studying their visitors long before it was seen as a need in the zoo and aquarium world. Methodologies were developed and improved, which we can also apply in our context. Also, we can learn a lot from expertise gained in fields as diverse as educational psychology, the sociology of leisure, or the marketing of attractions. Research into advertising can help us improve our labels or educational videos. Cultural and media scientists give us a better idea of how our audiences perceive animals or habitats and what knowledge and concepts they bring with them when they pass through our entrance gates. Environmental educators have developed techniques to measure what it takes to turn consumers into citizens, and to motivate people to take action.

All of our visitors are also consumers, they are all citizens, they all use other media, and with some rare exceptions no doubt 99 % of them will spent a lot more time outside than inside our zoos and aquariums. This should not make us unnecessarily modest about the impact we can have on them, it should just let us realise that we can and should learn from a lot of other “worlds” and fields of experience, even if it means we will have to adapt their methodologies to that very special “world” we are so fortunate to work in.

This bibliography aims to fulfill several goals:

- first of all it will provide users with an overview of (most if not all) existing publications on visitor studies and exhibit evaluation that have been performed in zoos and aquariums – of course through sharing all these examples it is hoped that more zoos and aquariums will be motivated to undertake similar research, but also to avoid unnecessary work since there is absolutely no need to reinvent the wheel;
- secondly, it can serve as an introduction on the most important methodological literature on visitor studies in general, and in other location-based attractions such as museums, science centres etc. in particular – together with a selection basis background information on interpretation and informal education, this methodological literature has been included, also keeping in mind that most people working in zoos and aquariums – even if they are educators – will probably be more familiar with the biological and natural sciences and as such with other topics, backgrounds and methodologies than those of the social, psychological, educational, cultural or communication sciences;
- thirdly, it also includes some background literature which can help us to understand the attitudes and concepts that people may have about animals and wildlife, whether they are zoo or aquarium visitors or not – indeed our visitors do not arrive at our institutions as blank sheets of paper, they have grown up (or are growing up) in a culture that offers them a lot of information and impressions of animals and wildlife, be it through

- children's stories or schools or through the media – both fictional and non-fictional;
- last but not least I have also attempted to include some of the most important background literature on the zoo and aquarium visitor experience from a theoretical, ideological, philosophical or historical perspective – even if most of this is of course rarely if ever supported by evidence from visitor studies. Not only will these references help to remind us of the complexity and specificity of our work, they can probably also suggest claims, assumptions and approaches that are in need of further study and evaluation.

This project was started in 2008 while I was working for the European Association of Zoos and Aquariums (EAZA) and I am very grateful to the EAZA Executive Committee at the time for realizing the importance of such an undertaking. I continued working on it afterwards in a volunteer capacity, and I am of course very happy that my current employer, the Royal Zoological Society of Antwerp, also takes a serious interest in the subject and has made visitor studies an extra focus for its Centre for Research and Conservation. What started with only a dozen or so references has now grown into a document of well over 250 pages (and that it is not longer now is only because we decided to finally publish the first version, even if there is already some new material to include...)

It can not be too difficult to realize that – hopefully! – this bibliography will never really be completed: by the time a new and updated version becomes available, already a lot of new and fascinating references will be in need of our attention.

Therefore I would like to thank not only all those many colleagues and friends who have contributed material and references over the past three years, but also all of you who will no doubt be able to help in maintaining and updating the bibliography in its future versions. ***Have you done visitor or evaluation studies at your institution – even if they were not formally published – please let us know. Do you know of other relevant publications – regardless of what language they were published in – please provide us with the references. Did you spot an error, a broken internet link or some other inaccuracy, please inform us so we can correct it. Do you have any other remarks, please share them.***

The European and global zoo and aquarium community will be most grateful for your contribution to improving our performance as interpreters and educators of the fragile beauty of the wild world. But more importantly, our many hundreds of millions of visitors will ultimately benefit from your input as it can help to improve their experience and make it all the more relevant, impressive and lasting.

Harry Schram

HOW TO USE THIS BIBLIOGRAPHY?

Unfortunately as yet it was not possible to provide this bibliography in the form of a searchable database. But even under the current format it should not be too difficult to find your way and to locate the references you are looking for.

First of all, there are **34 different chapters**, most of which are subdivided in several **sub-categories**. The table of content will help you find the most relevant headings under which you can browse for information. If a particular reference falls under more than one single category, it has simply been included under all relevant headings.

Under all but a few headings you will then find **three different kinds of material**:

- visitor studies and exhibit evaluation reports from or in zoos and aquariums which have been published in whatever way (in print or only digitally);
- visitor studies and exhibit evaluation research projects which are still on-going or of which the results have never been formally published – wherever possible you can find contact details of someone who could provide you with further information. Please keep in mind that some of the studies may date from some time ago and it will not always be possible to obtain the reports or even get information about their findings;
- any other material that can be considered “background and further reading”. Obviously, in some chapters, this category is more extensive than in others.

[these last two categories are in smaller print against a light green background]

For some chapters, a few lines introduce what has been included under the heading in particular, and what not.

Of course since the bibliography is produced in a PDF format, you can also use the **search feature of Adobe Acrobat Reader** (Shift + Control + F) to search for particular words (author, subject, location...) or combinations of words.

Wherever possible, an **internet URL** is provided with the reference, which should lead to an online version of the full text of the article or paper, or at least to an abstract of it. Nowadays, a surprising and increasing number of publications is available online, and often also the older volumes and issues are being digitalized and made available on the internet. Unfortunately, some of this is only available to subscribers or against (often substantial) payment, but in most cases an abstract can be accessed freely. A further problem is that internet URL's tend to be somewhat volatile, and during the creation of this bibliography already quite a few documents switched to a different location on the web or disappeared altogether. While every effort has been made to ensure that all URL's are up to date at this time of publication, it is unavoidable that broken links

will eventually turn up – please help us in pointing these out, so we can try to establish correct links in all future updates of this bibliography. If possible, more internet links will be provided in future updates – please help us by providing any links to the references material that we are not yet aware of.

Please note that most past publications of the Visitor Studies Association can be accessed for free through www.visitorstudiesarchives.org – by all means a resource every serious visitor studies researcher should use regularly.

While the overall majority of publications quoted in this bibliography will be in the English **language**, and extra effort has been made to ensure this is a truly **international overview**. As a result quite a few publications in languages other than English have also been included but I am fully aware that a lot more may exist which have escaped my attention until now. With all non-English language references, an English translation of the title and subtitle is provided.

PLEASE HELP US TO IMPROVE THIS BIBLIOGRAPHY BY PROVIDING YOUR IDEAS, SUGGESTIONS, REMARKS, CORRECTIONS, ADDITIONS AND UPDATES!

THANK YOU!

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ANON., 1990: Cumulative index to articles. J. Int'l Assn. Zoo Educators. Numbers 1-24, 1976-1990. IZE.

BITGOOD (S.), 1987: Selected bibliography on exhibit design and evaluation in zoos. Visitor Behav. 2(1): 3. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2m8-a_5730.pdf

CHURCHMAN (D.), 1987: The educational role of zoos: a synthesis of the literature (1928-1987) with annotated bibliography. ERIC Document Reproduction Service No. ED287942.

DIERKING (L.D.), BURTNYK (K.), BUCHNER (K.S.) & FALK (J.H.), 2002: Visitor learning in zoos and aquariums: a literature review. Annapolis/Silver Spring, Inst. for Learning Innovation/AZA.

GREEN (J.E.), 1985: The planning and management of zoological parks: a selected annotated bibliography. Architecture Series: Bibliography. Monticello, Vance Bibliographies. 18 pp.

SANFORD (J.A.) & TAYLOR (J.S.), 1985: The design of exhibition facilities: a focus on architecture contributions to visitor experiences in zoos, aquariums, and related facilities. Architecture Series: Bibliography. Monticello, Vance Bibliographies. 21 pp.

BACKGROUND & FURTHER READING: BIBLIOGRAPHIES ON VISITOR STUDIES - GENERAL

ANON., 1986: References on visitor orientation & circulation. Visitor Behav. 1(2): 10.

ANON., 1988: Reference for glossary & other references on methodology. Visitor Behav. 3(3): 10.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2h4-a_5730.pdf

BITGOOD (S.), 1989: Deadly sins revisited: a review of the exhibit label literature. Visitor Behav. 4(3): 4-11.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2e7-a_5730.pdf

BITGOOD (S.), 1990: Selected studies on how people perceive visitor facilities. Visitor Behav. 5(4): 3.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2b3-a_5730.pdf

BORUN (M.), CLEGHORN (A.) & GARFIELD (C.), 1995: Family learning in museums: a bibliographic review. Curator 38(4): 262-70.

DE BORHEGYI (S.F.) & HANSON (I.A.), 1968: Chronological bibliography of museum visitor surveys. In: LARRABEE (E.) (ed.): Museums and education. Washington DC, Smithsonian UP: 239-51.

DICK (R.E.), MCKEE (D.T.) & WAGAR (J.A.), 1974: A summary and annotated bibliography of communication principles. J. Env. Educ. 5(4): 8-13.

FORD (T.) & BITGOOD (S.), 1990: Visitor studies: a bibliography of theses and dissertations. Visitor Behav. 5(1): 8-12. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2d6-a_5730.pdf

GAMMON (B.) & KELL (E.), 2007: The impact of science & discovery centres: a review of worldwide studies. London, ECSITE UK. 21 pp.

<http://ecsite-uk.net/reports/downloads/impact-of-science-discovery-centres-review-of-worldwide-studies.pdf>

GLASER (J.R.) & SPIESS (P.D.), 1988: Works by Robert L. Wolf on museum evaluation and related matters: a short bibliography. *Visitor Behav.* 3(2): 4-5.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2h7-a_5730.pdf

HOOD (M.G.), 1990: Bibliography of theses and dissertations, Part 2. *Visitor Behav.* 5(2): 4-6.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2c7-a_5730.pdf

HOOPER-GREENHILL (E.) & MOUSSOURI (T.), 2000: Researching learning in museums and galleries 1990-1999: a bibliographic review. Leicester, Res. Centre for Museums and Galleries, Univ. of Leicester.

INTERNATIONAL LABORATORY FOR VISITOR STUDIES (ed.), 1988: ILVS Bibliography and abstracts. 2nd edn. Milwaukee, ILVS.

LYMAN (P.), BILLINGS (D.), PERKEL (D.), ELLINGER (S.) & FINN (M.), 2004: Literature review: digital-mediated experiences and kids' informal learning. Commissioned paper for the MacArthur Foundation.

<http://www.exploratorium.edu/research/digitalkids/digital.html>

NAISMITH (L.), LONSDALE (P.), VAVOULA (G.) & SHARPLES (M.), 2005: Literature review in mobile technologies and learning. Bristol, Futurelab. www.futurelab.org.uk/research/handbooks/05_01.htm

NOSCHKA-ROOS (A.), 1996: Referierende Bibliographie zur Besucherforschung. [*Referenced bibliography on visitor studies.*] Materialien aus dem Inst. für Museumskunde. Heft 44. Berlin, Inst. für Museumskunde.

PHIPPS (M.), 2010: Research trends and findings from a decade (1997-2007) of research on informal science education and free-choice science learning. *Visitor Studies* 13(1): 3-22.

SCREVEN (C.G.), 1979: A bibliography on visitor education research. *Museum News* 57(4): 56-9.

SCREVEN (C.G.), 1984: Educational evaluation and research in museums and public exhibits: a bibliography. *Curator* 27: 147-65.

SCREVEN (C.G.) (ed.), 1999: Visitor studies bibliography and abstracts. 4th edn. Chicago, Screven & Associates.

WAIDACHER (F.), SAS (J.) & NEEDHAM (H.), 2000: Selected publications on visitor studies, evaluation, market research and performance measurement. In: NEEDHAM (H.), 2000: *Visitor studies handbook*. Kanata, Harry Needham Consulting Services, 126 pp.

WALKER (K.), 2008: Learning trails/Bibliography. http://www.exhibitresearch.com/trails/?page_id=36

WELLS (M.), ADAMS (A.) & WRIGHT (B.), 1995: Evaluating interpretation: an annotated bibliography. Fairfax, Centre for Recreation Resources Policy, George Mason Univ.

WELLS (M.) & SMITH (L.), 2000: The effectiveness of non-personal media used in interpretation and informal education: an annotated bibliography. Fort Collins, Nat'l Assn. for Interpretation. 59 pp.

<http://www.nps.gov/hfc/products/iml/iml-docs.htm#>

ZYSKOWSKI (G.), 1983: A review of literature on the evaluation of museum programs. *Curator* 26(2): 121-28.

BACKGROUND & FURTHER READING: VISITOR STUDIES - GENERAL

BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.), 1988: *Visitor studies: Theory, research, and practice*. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 191 pp.

Abstracts: <http://www.visitorstudiesarchives.org>

BITGOOD (S.), 1987: Understanding the public's attitudes toward and behavior in museums, parks, and zoos. Jacksonville, Ctr for Social Design. 11 pp.

- BITGOOD (S.), 1988: Introduction: Visitor studies – 1988. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- BITGOOD (S.), 1991: Common beliefs about visitors: do we really understand our visitors ? Visitor Behav. 7(1): 6.
- BITGOOD (S.), 1996 (ed.): Visitor studies: Theory, research, and practice. Vol. 7. Selected papers from the 1994 Visitor Studies Conf. (Raleigh, NC). Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstracts: <http://www.visitorstudiesarchives.org>
- BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 259 pp. Abstracts: <http://www.visitorstudiesarchives.org>
- BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 277 pp. Abstracts: <http://www.visitorstudiesarchives.org>
- BITGOOD (S.) & HUBBELL (L.), 2007: Visitor behavior: a conversation on visitor studies with Steve Bitgood. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Annual VSA Conf., Ottawa, Ont., Canada, July 17-21, 2007. Columbus, VSA: 19. Abstract: <http://www.visitorstudiesarchives.org>
- DIERKING (L.D.) & FALK (J.H.), 1992: Redefining thev visitor experience: the Interactive Experience Model. Visitor Studies 4(1): 173-76.
- FALK (J.H.), KORAN (J.J.), DIERKING (L.D.) & DREBLOW (L.), 1985: Predicting visitor behavior. Curator 28(4): 249-57.
- FALK (J.H.), HEIN (G.) & PERRY (D.), 2000: On the benefits and liabilities, advantages and disadvantages of creating compatibility across visitor research and evaluation studies. 12th ann. VSA conf., Aug. 5-9, 2000, Boston/Cambridge. Abstract: <http://www.visitorstudiesarchives.org>
- HAYWARD (J.), 1991: Four common misconceptions about visitor research and evaluation. Visitor Behav. 4(1): 3.
- HOOD (M.G.), 1993: After 70 years of audience research, what have we learned? Visitor Studies 5(1): 16-27.
- HOOPER-GREENHILL (E.), 2006: Studying visitors. In: MACDONALD (S.) (ed.): A companion to museum studies. Malden, Blackwell: 362-76.
- HUDSON (K.), 1993: Visitor studies: luxuries, placebos, or useful tools? In: BICKNELL (S.) & FARMELO (G.) (eds.): Museum visitor studies in the 90s. London, Science Museum: 34-40.
- LANKFORD JENS (S.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf.. Jacksonville, VSA. 132 pp. Abstracts: <http://www.visitorstudiesarchives.org>
- MUNRO (L.), RUBENSTEIN (R.), & BLACK (K), 1993: Strategies for audience development. Visitor Studies 5(1): 143-52.
- PATTERSON (D.), 1991: The generality of visitor studies. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 40-46. Abstract: <http://www.visitorstudiesarchives.org>
- PATTERSON (D.) & BITGOOD (S.); 1988: Some evolving principles of visitor behavior. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 40-50. Abstract: <http://www.visitorstudiesarchives.org>
- REUSSNER (E.M.), 2008: Learning from the best: success factors for effective audience research. In: KRÄUTLER (H.) (ed.): Heritage learning matters. Museums and universal heritage. Wien, Schlebrügge: 186-97.
- SAS (J.), 2005: De bezoeker als informant: goedkope, niet-structurele vormen van publieksonderzoek. [*The visitor as informer: cheap, non-structural forms of visitor research.*] Market'eum 2005: Congres Museummarketing. 7 pp.

SCHÄFER (H.), 1996: Non-visitor research: an important addition to the unknown. In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf., Jacksonville, VSA: 195-205. Abstract: <http://www.visitorstudiesarchives.org>

SCHÄFER (H.), 2003: Anlocken – fesseln – vermitteln. Was Besucherforschung uns lehrt(e): ein Plädoyer für die Grundrechte der Besucher. [Attract – fascinate – interpret. What visitor research taught us: a plea for a bill of rights for visitors.] In: NOSCHKA-ROOS (A.) (Hrsg.): Besucherforschung in Museen. Instrumentarien zur Verbesserung der Ausstellungskommunikation. [Visitor studies in museums. Instruments for improved communication in exhibitions.] Public Understanding of Science: Theorie und Praxis. München, Deutsches Museum: 83-109.

STEVENS (T.), 1989: The visitor: who cares? In: UZZELL (D.) (ed.): Heritage interpretation. Vol. 2. London, Belhaven Press: 103-7.

STEVENSON (N.), 1997: Critical perspectives within audience research. In: O'SULLIVAN (T.) & JEWKES (Y.) (eds.): The media studies reader. London, Arnold: 231-47.

THOMPSON (D.), BITGOOD (S.), BENEFIELD (A.), SHETTEL (H.) & WILLIAMS (R.) (eds.), 1992: Visitor Studies: Theory, research, and practice. Vol. 6. Collected papers, 1992 Visitor Studies Conf., St Louis, MO. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 279 pp. Abstracts: <http://www.visitorstudiesarchives.org>

THOMPSON (D.), BITGOOD (S.), BENEFIELD (A.), SHETTEL (H.) & WILLIAMS (R.) (eds.), 1993: Visitor Studies: Theory, research, and practice. Vol. 6. Collected papers, 1993 Visitor Studies Conf., Albuquerque, NM. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 287 pp. Abstracts: <http://www.visitorstudiesarchives.org>

WAGNER (K.F.), 1989: Maintaining a high quality visitor experience. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 192-202.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5g3-a_5730.pdf

WELLS (M.) (ed.), 2000: Special issue: Visitor studies. J. Interpretation Res. 5(2).

WELLS (M.) & LOOMIS (R.) (eds.), 1997: Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA. 300 pp. Abstracts: <http://www.visitorstudiesarchives.org>

WRIGHT (S.), 1990: Your visitors have something to say. Env. Interpretation, July 1990: 8-10.

YALOWITZ (S.) 2006: Making sense of visitor data for yourself and others – PowerPoint Visitor Studies 101 Session, AAM Annual Meeting. Washington DC, American Assn. of Museums.

www.care-aam.org/documents/vs101_2006/YalowitzVS101presAAM2006.pdf.

BACKGROUND & FURTHER READING: VISITOR STUDIES – INTRODUCTIONS, HANDBOOKS AND BASICS

A CAMPO (J.N.F.M.), 1995: Publieksonderzoek. [Audience research.] Groningen, Wolters-Noordhoff.

ANON., 1993: A glossary for visitor studies. Visitor Behav. 8(4): 8-11.

BITGOOD (S.), 1988: Glossary of Visitor Studies terms. Visitor Behav. (3): 8-9.

BITGOOD (S.), 2007: Some good bits from Steve Bitgood. Jacksonville, Steve Bitgood. 2 pp.

BITGOOD (S.), PATTERSON (D.) & BENEFIELD (A.), 1986: Understanding your visitors: ten factors that influence visitor behavior. AAZPA 1986 Ann. Conf. Proc.: 726-43.

BITGOOD (S.) & SHETTEL (H.H.), 1997: An overview of visitor studies. J. Museum Educ. 21(3): 6-10.

BOHLIG (K.) & KLEIN (H.J.), 1991: Englisch-deutsches Glossar. Fachtermini zur Besucher- und Evaluationsforschung an Museen. [English-German glossary. Professional terminology in museum visitor and evaluation research.] Berlin, Inst. für Museumskunde/Staatliche Museen Preußischer Kulturbesitz.

- FAKATSELI (O.), 2008: Visitor studies: what is visitor studies?. London, VSG. www.visitors.org.uk/node/6
- HOOD (M.G.), 1993: After 70 years of audience research, what have we learned? *Visitor Studies* 5(1): 16-27.
- JAMES (A.), 2005: An introduction to Visitor Studies. Alison James. www.bms.edu.lv/resources/Visitor_Studies_2005.doc
- KORN (R.), 1994: Studying your visitors: where to begin. *History News* 49(2): 23-26.
- NEEDHAM (H.), 2000: Visitor studies handbook. Kanata, Harry Needham Consulting Services, 126 pp.
- NEEDHAM (H.), 2002: Using visitor studies to develop and improve museums, exhibitions and heritage projects: a do-it-yourself approach. Masterclass bezoekersstudies en bezoekersanalyse voor musea en erfgoedinitiatieven. Gent, maandag 22 april 2002. Wevelgem, Kleio Heritage Consultants.
- RANSHUYSEN (L.), 1999: Handleiding publieksonderzoek voor podia en musea. [*Audience research manual for performing arts and museums.*] Geheel herziene en uitgebreide ed.. Amsterdam, Bookmanstudies. 264 pp.
- SCREVEN (C.G.), 1993: Visitor studies: an introduction. *Museum Int'l* 178: 4-5.

- **Marketing studies vs visitor experience studies; interaction with marketing**

CRILLEY (G.), 2010: Visitor expectations and visit satisfaction at zoos. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 179-88.

SHENG-HSIUNG (T.), YI-TI (C.) & CHIH-HUNG (W.), 2006: Visitors behavioral consequences of experiential marketing: and empirical study on Taipei Zoo. J. Travel & Tourism Mktg 21(1):

ON-GOING AND UNPUBLISHED STUDIES:

PARODI (R.) & ANGELINI (S.), 2010: Linking education and marketing to increase attractiveness to nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 11.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING:

MARKETING STUDIES VS VISITOR EXPERIENCE STUDIES; INTERACTION WITH MARKETING

DE NIE (H.), 1989: Natuurbeleving als nieuw merk tandpasta? Marketing principes in de natuureducatie. [*Wildlife experiences as a new brand of toothpaste? Marketing rules in nature education.*] Argus 19(2): 13-15.

GOTTDIENER (M.), 1997: The theming of America. American dreams, media fantasies and themed environments. 2nd edn. Boulder, Westview Press. 216 pp.

JONES (D.M.), 2002: Using conservation as a marketing tool. Scientific session. In: DOLLINGER (P.) (ed.): Proc. of the 56th Ann. Conf. 22-25 Oct. 2001 hosted by Perth Zoo. Berne, WAZA: 94-96.

KAUFMAN (L.), 1985: Creating new interfaces: steps to cooperation between education and marketing departments in zoos and aquaria. AAZPA 1985 Reg. Proc.: 373-79.

KLEIN (H.-J.), 1985: Museumsbesuch und Erlebnisinteresse – Besucherforschung zwischen Kulturoziologie und Marketing. [*Museum visits and experience interest – visitor studies between cultural sociology and marketing.*] Museumskunde 50(3): 143-56.

KOTLER (N.) & KOTLER (P.), 1998: Museum strategy and marketing: designing missions, building audiences, generating revenue and resources. San Francisco, Jossey-Bass. 432 pp.

KOTLER (P.) & ANDREASON (A.), 2003: Strategic marketing for nonprofit organizations. 7th edn. Upper Saddle River, Prentice-Hall. 504 pp.

KOTLER (P.) & ROBERTO (E.L.), 1989: Social marketing : improving the quality of life. 2nd edn. Thousand Oaks, Sage. 456 pp.

MAITLAND (H.), 2005: Objects or inspiration: should museums focus on marketing the collection or the experience? In: DE SMET (A.), VAN GENECHTEN (H.) & VERHAERT (T.) (eds.): Market'eum 05 verslagboek. Cahier zwart op wit 1. Antwerpen, Culturele Biografie Vlaanderen: 59-60.

MIKUNDA (C.), 1996: Der verbotene Ort oder Die inszenierte Verführung. Unwiderstehliches Marketing durch strategische Dramaturgie. [*The forbidden place or Staged seduction. Irresistible marketing through strategic dramaturgy.*] Düsseldorf, Econ. 271 pp.

MIKUNDA (C.), 2004: Brand lands, hot spots and cool spaces. Welcome to the third place and the total marketing experience. London, Kogan Page. 221 pp.

MYERS (D.G.), 1987: Market research on the bright side. AAZPA 1987 Reg. proc.: 392-94.

O'SULLIVAN (E.) & SPANGER (K.), 1998: Experience marketing – strategies for the new millenium. State College, Venture Publishing. 412 pp.

PIETERS (R.G.M.), 1989: Een nieuwe ontwikkeling in segmentatie- en positioneringsonderzoek: laddering. [Laddering: a new development in segmentation and positioning research.] Ts. vr Marketing, okt. 1989: 301-41.

REID (G.McG.), 2002: Conservation vs. commerce – a key issue in zoo marketing. Plenary session. In: DOLLINGER (P.) (ed.): Proc. 56th Ann. Conf. 22-25 Oct. 2001, Perth Zoo. Berne, WAZA: 48-50.

STAS (A.), 2010: Olifantenmarketing. Hoe het olifantje Kai-Mook een love brand werd. [Elephant marketing. How little elephant Kai-Mook became a love brand.] Leuven, Lannoo Campus. 184 pp.

TAKAHASHI (B.), 2009: Social marketing for the environment: an assessment of theory and practice. Appl. Env. Educ. & Communication 8(2): 135-45.

Abstract: <http://www.informaworld.com/smpp/content~db=all~content=a914149337>

TOMAS (S.), SCOTT (D.) & CROMPTON (J.), 2002: An investigation of the relationships between quality of service performance, benefits sought, satisfaction and future intention to visit among visitors to a zoo. Managing Leisure 7(4): 239-50. Abstract: <http://www.informaworld.com/smpp/content~content=a71377724~db=all>

TOMLINSON (A.) (ed.), 1990: Consumption, identity and style: marketing, meaning and the packaging of pleasure. London/New York, Routledge.

TURLEY (S.K.), 1999: Exploring the future of the traditional UK zoo. J. Vacation Mktg 5: 340-55.

VAN LINGE (J.), 1992: How to out-zoo the zoo. Tourism Mgmt 13: 114-17.

VEVERKA (J.A.), 2001: Marketing basics for interpretive & heritage sites and attractions – It's all about the visitors. Handout, Destination Interpretation and Marketing: Secrets of Success & Marketing Heritage Tourism & Interpretive Sites, Agencies and Attractions, Snowdonia Nat'l Park Training Ctr. New York/..., Snowdonia Nat'l Park Training Ctr. http://portal.uni-freiburg.de/interpreteurope/service/publications/recommended-publications/everka_marketing_basics.pdf

WETSEMA (K.), 1999: Marketing research – target groups & market segments. In: Marketing zoos beyond 2000 . 2nd Int'l Zoo Mktg Conf., Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 20-23.

YALOWITZ (S.), 2008: Conducting marketing research in museums – PowerPoint Visitor Studies 101 Session, AAM Annual Meeting. Washington DC, AAM. www.care-aam.org/documents/vs101_2008/YalowitzVS101presAAM.pdf

BACKGROUND & FURTHER READING: GENERAL VISITOR STUDIES – NATIONAL SITUATIONS

DAVIS (A.), 2000: Reports of visitor studies in four countries: Canada. Visitor Studies Today! 3(1): 14.

GRAF (B.), 1994: Visitor studies in Germany: methods and examples. In: MILES (R.) & ZAVALA (L.) (eds.): Towards the museum of the future. New European perspectives. London/New York: 233-46.

HEIN (G.E.), 2000: Visitor studies: an international activity. Visitor Studies Today! 3(1): 1-2.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w3-a_5730.pdf

HENSLER (R.), 1984: Visitor research: an overview of its application in American zoos and aquariums. AAZPA 1984 Ann. Conf. Proc.: 15-25.

KIRCHBERG (V.), 2000: Visitor studies in Germany: past, present, and potential. Visitor Studies Today! 3(1): 4-10.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w5-a_5730.pdf

LAURITZEN (E.M.), 2000: Reports of visitor studies in four countries: Norway. Visitor Studies Today! 3(1): 15.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w4-a_5730.pdf

LOOMIS (R.J.), 1999: The growing international nature of visitor studies. *Visitor Studies Today!* 2(2): 6.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6y0-a_5730.pdf

MATHERS (K.), 1999: The South African visitor survey experience. 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL. Abstract: <http://www.visitorstudiesarchives.org>

MCMANUS (P.P.), 1998: Visitor studies in the United Kingdom. *Visitor Studies Today!* 1(2): 9-10.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2p3-a_5730.pdf

MILES (R.), 1996: Besucherforschung im europäischen Überblick. [Visitor studies: a European overview.] In: HAUS DER GESCHICHTE DER BUNDESREPUBLIK DEUTSCHLAND (Hrsg.): Museumsfragen. Museen und ihre Besucher. Herausforderungen in der Zukunft. [Museums and their visitors. Challenges for the future.] Berlin: 38-41.

MORTARA ALMEIDA (A.), 2000: Visitor studies in Brazil: a long way to go. *Visitor Studies Today!* 3(1): 20-21.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w1-a_5730.pdf

SCOTT (C.), 1997: Evaluation and visitor research in Australia and New Zealand: developments and trends. *Museum National – the magazine of Museums Australia*, 5(4): 5-6.

SCOTT (C.), 2000: Audience research in Australia and New Zealand. *Visitor Studies Today!* 3(1): 19-20.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w9-a_5730.pdf

SIHVOLA (M.), 2000: Reports of visitor studies in four countries: Finland. *Visitor Studies Today!* 3(1): 14.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w4-a_5730.pdf

SOLIMA (L.), 2000: Reports of visitor studies in four countries: Italy. *Visitor Studies Today!* 3(1): 15.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6w4-a_5730.pdf

VAN DER HOEK (G.J.) & EIJSBERGEN (T.), 1970: Audience research in the Netherlands. *Museums' Annual* 2: 15-16.

VAN DER STRAATEN (H.), 1986: Visitor research in Dutch museums. In: UNESCO (ed.): *Public view*. Paris, UNESCO: 167-70.

- **Zoo visitor studies - general**

BERGMANN (H.-H.), 1987: Das Verhalten der Zoobesucher als Basis der Zoopädagogik – eine Pilotstudie. [*The behaviour of zoo visitors as a basis for zoo education – a pilot study.*] In: SCHWARZ (D.) (Hrsg.): Verhandlungsbericht zur Wissenschaftlichen Konferenz zu Fragen der Zoopädagogik 1987 in Rostock. [*Proceedings of the scientific conference on topics in zoo education, Rostock, 1987.*] Jena, Gustav Fischer: 68-78.

BITGOOD (S.), 1987: When is a zoo like a city? *Visitor Behav.* 1(4)

BITGOOD (S.) & BENEFIELD (A.), 1986: Visitor behavior: A comparison across zoos. *Techn. Reports*, no. 86-20. Jacksonville, Ctr for Social Design.

BITGOOD (S.), BENEFIELD (A.), PATTERSON (D.), LEWIS (D.) & LANDERS (A.), 1985: Zoo visitors: can we make them behave? *AAZPA 1985 Ann. Proc.*: 419-32.

BITGOOD (S.), PATTERSON (D.) & BENEFIELD (A.), 1986: Understanding your visitors: 10 factors influencing visitor behavior. *AAZPA Ann. Conf. Proc.*: 726-43.

BRENNAN (T.), 1978: Visitor watching: what people do at the zoo. *Brookfield Bison* 1978(8-9): 1-8.

BRUNI (C.), FRASER (J.) & SCHULTZ (P.W.), 2008: The value of zoo experiences for connecting people with nature. *Visitor Studies* 11(2): 139-50.

CHURCHMAN (D.), 1985: An overview of evaluation possibilities for zoo education. *IZE J.* 14: 11-14.

CLAYTON (S.), FRASER (J.), SAUNDERS (C.D.), 2008: Zoo experiences: conversations, connections, and concern for animals. *Zoo Biology*: 1-21.

DAVEY (G.), 2006: Visitor behaviour in zoos: a review. *Anthrozoos* 19(2): 143-57.

KLENOSKY (D.B.) & SAUNDERS (C.D.), 2007: Put me in the zoo! A laddering study of zoo visitor motives. *Tourism Review Int'l* 11(3): 317-27.

MARSHDOYLE (E.), BOWMAN (M.L.) & MULLINS (G.W.), 1981: Evaluating programmatic use of a community resource: the zoo. *J. Env. Educ.* 13: 419-26.

MARTIN (J.) & O'REILLY (J.), 1989: The emergence of environment-behavior research in zoological parks. In: ALTMAN (I.) & ZUBE (E.) (eds.): *Public places and spaces*. New York, Plenum: 173-92.

MECKLEY (P.), 1986: Human research: an approach to design and evaluation in zoos and aquariums. *Proc. 1986 AAZPA*: 719-25.

MELAIK (G.), 2001: Visitor studies. In: BELL (C.E.) (ed.), 2001: *Encyclopedia of the world's zoos*. Vol. 3 R-Z. Chicago/London, Fitroy Dearborn: 1304-06.

MORGAN (J.M.) & HODGKINSON (M.), 1999: The motivation and social orientation of

visitors attending a contemporary zoological park. Env. & Behav. 31: 227-39.

MOSCARDO (G.), 2007: Understanding visitor experiences in captive, controlled, and noncaptive wildlife-based tourism settings. Tourism Review Int'l 11(3): 213-23.

Abstract: <http://www.ingentaconnect.com/content/cog/tri/2007/00000011/00000003/art00004>

O'CONNELL (D.) & FEISTNER (A.), 1999: Studying visitor behaviour aids zoos' education role. Zoo Fed. Res. Newsletter 1(1):

READE (L.) & WARAN (N.), 1996: The modern zoo: how do people perceive zoo animals? Appl. Animal Behav. Sci. 47: 109-18.

SERRELL (B.), s.d.: Visitor observation studies at museums, zoos and aquariums. AAZPA reprints. Chicago/Wheeling, Shedd Aquarium/AAZPA.

SERRELL (B.), 1980: Looking at visitors at zoos and aquariums. Museum News 59(3): 37-41.

SMITH (L.), 2009: Identifying behaviours to target during zoo visits. Curator 52(1): 101-15.

SMITH (L.D.G.), 2007: A qualitative analysis of profound wildlife encounters. J. Dissertations 1(1): i-172.

SMITH (L.), BROAD (S.) & WEILER (B.), 2008: A closer examination of the impact of zoo visits on visitor behaviour. J. Sustainable Tourism 16(5): 544-62.

TUNNICLIFFE (S.D.) & SCHEERSOI (A.), 2009: Engaging the interest of zoo visitors as a key to biological education. IZE J. 45: 18-20.

WAKEMAN (B.N.), 1986: An evaluation of zoo educational techniques (including the use of live animals). AAZPA Ann. Conf. Proc.: 390-93.

WHITTALL (R.), 1992: A walk on the wild side: how do visitors perceive their zoo visit? Proc. AAZPA: 335-41.

WOLF (R.L.) & TYMITZ (B.L.), 1981: Studying visitor perceptions of zoo environments: a naturalistic view. Int. Zoo Yb. 21: 49-53.

WOODS (B.), 2002: Good zoo/bad zoo: visitor experiences in captive settings. Anthrozoös 15 (4): 343-59. Abstract: <http://www.ingentaconnect.com/content/berg/anthroz/2002/00000015/00000004/art00005>

ON-GOING AND UNPUBLISHED STUDIES:

CONDON (K.), FRASER (J.), GIUST (E.) & WILSON (L.), 2006: Living collections: visitor studies make interpretation count. 19th ann. VSA conf., Jul. 25-29, 2006, Grand Rapids, MI.

Abstract: <http://www.visitorstudiesarchives.org>

DAVEY (G.), 2005: The influence of demographic, behavioural, socio-economic, and environmental design factors on visitor behaviour in Britain and China. PhD thesis. Bolton, Univ. of Bolton.

ESSON (M.), FRANCIS (D.) & MOSS (A.), 2007: Education research in zoos. Presentation, 2007 EAZA Conf., Warsaw.

- HODGES (S.), 1978: An ecological approach to the study of zoo visitor behavior: implications for environmental management and design. PhD diss.. Blacksburg, Virginia Polytechnic Inst. & State Univ.. Summary: Visitor Behav. 5(1): 12. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2d5-a_5730.pdf
- LARESCHE (L.), 1974: What people do at the zoo: an ethological study of zoo behaviour. Baltimore, Baltimore Zoo.
- LUEBKE (J.F.), ?: Tracking and understanding the elements of satisfying zoo experience. Brookfield, Brookfield Zoo.
- MELICHAREK (C.), 2009: Studying visitor studies. Presentation, 2009 EAZA Zoo Educators conf., Cologne, Mar. 2009. http://www.vzp.de/vortraege_EZE2009.html
- STAUFFER (G.L.), 1993: Methods of audience research for museums with living collections. Non-published thesis. Longwood Graduate program, Univ. of Delaware. Newark, Univ. of Delaware. 19 pp.
- SWENSON (S.), 1982: Comparative study of zoo visitors at different types of facilities. Unpublished manuscript. New Haven, Yale Univ. School of Forestry & Env. Studies.
- WHITEHEAD (M.), 2008: A menagerie of mindsets: thoughts on EAZA, education and the human chimpanzee. 25th EAZA Ann. Conf., 16-20 Sep. 2008, Zoo Antwerpen, Belgium.

BACKGROUND & FURTHER READING: ZOO VISITOR EXPERIENCES

- ACAMPORA (R.R.), 2000: Zoópticon: inspecting the site of live animal infotainment. In: CARROLL (M.T.) & TAFOYA (E.) (eds.): Phenomenological approaches to popular culture. Bowling Green, Bowling Green University Popular Press: 151-61.
- ANDERSON (K.), 1998: Animals, science and spectacle in the city. In: WOLCH (J.) & EMEL (J.) (eds.): Animal geographies: place, politics, and identity in the nature-culture borderlands. London, Verso: 45.
- ASH (M.G.), 2002: Mensch, Tier, Zoo. Naturbeherrschung und Repräsentation, Wissenschaftlichkeit und Volksbelustigung am Beispiel des Tiergartens Schönbrunn. Endbericht eines Forschungsprojektes des Bundesministeriums für Wissenschaft, Forschung und Kunst 2002. [*Human, animal, zoo. Mastery and representation, science and popular entertainment as exemplified by Schönbrunn zoo. Final report of a 2002 research project of the Federal Ministry for Science, Research and the Arts.*] Wien, Bundesministerium Wissenschaft, Forschung & Kunst. www.culturalstudies.at
- BITGOOD (S.) & RICHARDSON (K.), 1986: Validation of visitors' self-reports in a zoo. Techn. report 86-30. Jacksonville, Center for Social Design.
- BUCHEN (S.) (Hrsg.), 1992: Kommunikation im Zoo. 10. Tagungsbericht der deutschsprachigen Zoopädagogen, Düsseldorf, 1991. [*Communication in the zoo. Proc. of the 10th conf. of German-speaking zoo educators, Düsseldorf, 1991.*]
- BÜCHLER (A.) (Hrsg.), 1993: Zookonzept - Zoopädagogik. 11. Arbeitstagung deutschsprachiger Zoopädagogen, Bern, 1993. [*Zoo concept – zoo education. 11th working meeting of German-speaking zoo educators, Berne, 1993.*]
- DITTRICH (L.), 1993: Menschen im Zoo. [*Humans at the zoo.*] In: POLEY (D.) (Hrsg.): Berichte aus der Arche. Nachzucht statt Wildfang; Natur- und Artenschutz im Zoo; Menschen und Tiere; Die Zukunft der Zoos. [*Messages from the ark. Captive bred vs wild caught; Nature and species conservation at the zoo; Humans and animals; The future of zoos.*] Stuttgart, Trias Thieme Hippocrates Enke: 119-53.
- GARDELLA (J.), 1979: Bridge-building at Brookfield. Brookfield Bison 1979(10-11): 1-8.
- GOLDING (R.R.), 1990: Zoos as contemporary communicators. In: BLACKWELL (S.) (ed.): Zoos: future considerations. Bristol, ABWAK: 28-33.
- GROBBEN (A.), 2007: De Antwerpse dierentuin als ontmoetingsplaats, toen en nu. [*The Antwerp zoo as a meeting place, then and now.*] In: BROUCKE (K.) (samenst.): O dierbaar Antwerpen. Over olifanten, mensen en andere stadse

dieren. [Antwerp animalized. On elephants, humans and other urban animals.] Tielt/Antwerpen, Lannoo/Antwerpen Open: 152-55.

HATLEY (J.), 1976: The zoo in the public eye. Proc. Int'l Symp. Zoo Design 2: 67-71.

HEDIGER (H.), 1964: Wild animals in captivity. New York, Dover.

HEDIGER (H.), 1970: Man and animal in the zoo. [Originally published (1966) as: *Mensch und Tier im Zoo: Tiergarten-Biologie*. Rüschlikon-Zürich/Stuttgart/Wien, Albert Müller; transl. by G. Vevers & W. Reade.] London/New York, Routledge & Kegan Paul/Delacorte. 332 pp.

HENSEL (K.A.), 1980: Education in zoos and aquariums – trends and projections. IZE J. 4: 85-94.

HOSEY (G.), MELFI (V.) & PANKHURST (S.), 2009: Zoo animals: behaviour, management and welfare. Oxford, Oxford UP. 662 pp.

HUBBARD Jr (L.), 1904: What a big zoo means to the people. Outing Magazine 44: 678.

HYSON (J.), 2003: No business like zoo business. Research is fine but show us the animals. Washington Post, 11 May 2003.

HYSON (J.), 2004: Education, entertainment and institutional identity at the zoo. Curator 47(3): 247-51.

KELLERT (S.R.), 1987: The educational potential of the zoo and its visitor. Philadelphia Zoo Review 3(1): 7-13.

KLEMUN (M.), 2008: Amor im Zoo: Schau-Platz, Be-Sinnen und rekursives Wahrnemen. [Amor at the zoo: showplace, sensual reflection and recursive observation.] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [Man, animal and zoo. Schönbrunn zoo in international perspective from the 18th century to the present.] Wien/Köln/Weimar, Böhlau. 73-94.

LEMMON (T.), 1987: The menagerie of the mind. BBC Wildlife, Nov. 1987: 564-65.

MACHO (T.), 2001: Tierpark, Zirkus und Freakshow. [Zoo, circus and freak show.] In: FISCHER (H.) (Hrsg.): Theater-Peripherien. [Theatre peripherials.] Konkursbuch 35. Tübingen, Konkursbuch: 13-33.

MULLAN (B.) & MARVIN (G.), 1999: Zoo culture. The book about watching people watch animals. Urbana/Chicago, Univ. of Illinois Press. 172 pp.

O'CONNOR (J.), 2009: Your Opinions: Zoos have little educational value. Re: Erotica at the Zoorotica Tour. Battle Creek Enquirer, Feb. 23, 2009.

<http://www.battlecreekenquirer.com/article/20090223/OPINION03/902230305/1014/OPINION>

PAWLOWNA-SCHEWELJOWA (V.), 1982: Die Erziehungs- und Bildungsrolle der Propaganda naturwissenschaftlicher Kenntnisse in den zoologischen Gärten der UdSSR. [The educational role of the propaganda of natural science knowledge in the zoological gardens of the USSR.] Der Zool. Garten 52, Sonderheft: 95-98.

PEKARIK (A.), 2004: Eye-to-eye with animals and ourselves. Curator 47(3): 257-60.

PIES-SCHULZ-HOFEN (R.), 2000: Kommunikationsdefizite im Zoo - mögliche Ursachen und Lösungswege. [Communication deficits in the zoo – possible causes and solutions.] Begegnung Zoo 9: 13-17.

RABB (G.), 1969: The unicorn experiment. Curator 12: 4.

SCHRAM (H.), 1985: Publieksbegeleiding in dierentuinen. Informatie en communicatie tussen dierentuinen en hun bezoekers. [Visitor interpretation in zoos. Information and communication between zoos and their visitors.] Eindverh. Lic. Communicatiewetensch. Brussel, VUB. 218 pp.

SCHRAM (H.), 2007: Tuinen van verwondering. [Gardens of enchantment.] In: BROUCKE (K.) (samenst.): O dierbaar Antwerpen. Over olifanten, mensen en andere stadse dieren. [Antwerp animalized. On elephants, humans and other urban animals.] Tielt/Antwerpen, Lannoo/Antwerpen Open: 124-29.

SCIGLIANO (E.), 2003: Whose zoo. Seattle Weekly 11-17 Jun 2003.

SERRELL (B.), 1982: Education in zoos and aquariums. In: SAUSMAN (K.) (ed.): Zoological park and aquarium fundamentals. Wheeling, AAZPA. 13-16.

SMITH (L.D.G.), WEILER (B.) & HAM (S.H.), 2010: The rhetoric and the reality: a critical examination of the zoo proposition. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 59-68.

SOMMER (R.), 1972: What do we learn at the zoo ? Natural History 81(8/9): 26, 28-29, 84.

SOMMER (R.), 2008: Semantic profiles of zoos and their animals. Anthrozoös 21(3): 237-44.

TILLICH (M.), 2008: Die Sozialitäten des Zoos und der Käfig des Sozialen. Eine Topographie. Diplomarbeit, Referent Prof.Dr. Ulrich Beck. [*Social aspects of zoos and the cage of the social. A topography. Masters' thesis, Promotor Prof.Dr. Ulrich Beck*] München, Ludwig-Maximilians-Uni. 98 pp.

TOUGAARD (S.), BROE (M.), HJORT (P.) & DIDRIKSEN (U.), 2008: Zoopædagogik – om børn og dyr – teoretisk, didaktisk og praktisk. [Zoo education – on children and animals – theory, didactic and practice.] København, Zoologisk Have – Skoletjenesten.

VAN HERK (R.) & BAARS (G.) (interview), 1996: “We zijn dynamisch, drammerig... zelfs bekerend.” [“We are dynamic, insistent... even converting.”] De Harp 15(3): 16-21.

WILLIS (S.), 1999: Looking at the zoo. South Atlantic Quarterly 98(4): 670-87.

2. VISITOR RESEARCH METHODOLOGY

ON-GOING OR UNPUBLISHED STUDIES

BENNE (M.), 2002: Can we measure, predict and apply the novelty/familiarity interaction? VSA Ann. Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: VISITOR RESEARCH METHODOLOGY - GENERAL

ANDERSON (S.B.), 1968: Noseprints on the glass. Or how do we evaluate museum programs ? In: NICHOLS (S.K.) (ed.), KORN (R.) & SOUD (L.), 1990: Visitor surveys: a users manual. Washington DC, AAM. 122-33.

ANON., 2008: Research in a virtual butterfly garden. RU Groningen, Donald Smits Centrum voor Informatie Technologie. <http://www.rug.nl/cit/hpcv/nieuws/vlindertuin/?lang=en>

BINKS (G.) & UZZELL (D.), 1994: Monitoring and evaluation: the techniques. In: HOOPER-GREENHILL (E.) (ed.): The educational role of the museum. Leicester Readers in Museum Studies. London/New York. 223-26.

BIRNEY (B.), 1992: Audience research under the microscope: A response to Milan & Wourms' article. Curator 35(3): 169-72.

BITGOOD (S.), 1988: An overview of the methodology of visitor studies. Visitor Behav. 3(3): 4-6. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2h0-a_5730.pdf

BUIJS (A.E.) & VAN KRALINGEN (R.B.A.S.), 2003: Het meten van beleven. Inventarisatie van bestaande indicatoren en meetmethoden. [*Measuring experiences. Inventory of existing indicators and measuring methods.*] Reeks belevingsonderzoek nr. 8. Alterra rapport 782. Wageningen, Alterra.

HILKE (D.D.), 1993: Quest for the perfect methodology: a tragicomedy in four acts. In: BICKNELL (S.) & FARMELO (G.) (eds.): Museum visitor studies in the 90s. London, Science Museum: 67-74.

KORAN (J.I.) & ELLIS (J.), 1991: Research in informal settings: some reflections on designs and methodology. ILVS Review 2: 67-86.

KORN (R.), 1993: Critical reflections. Curator 36(4): 251-55.

NIELSEN (L.C.), 1946: A technique for studying the behavior of museum visitors. J. Educ. Psych., Feb. 1946: 103-10.

SAUNDERS (C.D.), BIRJULIN (A.A.), GIESKE (T.L.) & BACON (L.), 2000: Development of an instrument to measure visitor satisfaction. Paper, 2000 Visitor Studies Conf. Abstract: <http://www.visitorstudiesarchives.org>

SERRELL (B.), 1997: In search of generalizability: new tools for visitor studies. J. Museum Educ. 21(3): 11-18.

STAUFFER (G.L.), 1994: Methods of audience research for museums with living collections. Visitor Studies 5: 227-45. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4r0-a_5730.pdf

WEBB (E.J.), CAMPBELL (D.T.), SCHWARTZ (R.D.) & SEACHREST (L.), 1966: Unobtrusive measures: nonreactive research in the social sciences. Chicago, Rand McNally.

BACKGROUND & FURTHER READING: CASE STUDY RESEARCH

FOUTZ (S.), BEAUMONT (L.), KISIEL (J.) & REICH (C.L), 2007: The inns and outs (or ups and downs) of case studies. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 6-7. Abstracts: <http://www.visitorstudiesarchives.org>

YIN (R.K.), 2002: Case study research: design and methods. 3rd edn. Thousand Oaks, Sage.

- **Communication theories/communication science**

ON –GOING AND UNPUBLISHED STUDIES

MAIER (G.), 2003: The zoo as a place for experiences: a communication science-based research of staging principles in international zoos and in the Schönbrunn Zoo. Thesis. Wien, Univ. Wien.

BACKGROUND & FURTHER READING: COMMUNICATION THEORIES/COMMUNICATION SCIENCE

BARTHES (R.), 1967: Elements of semiology. London, Cape.

BERGER (J.), 1980: About looking. New York/London, Pantheon/Writers and Readers' Publishing Coop.

CAMERON (D.F.), 1968: A viewpoint: the museum as a communications system and implications for museum education. Curator 11(1): 33-40.

CASALEIRO (P.J.E.), 1995: Museum visitors and media science: the case of the Natural History Museum, Lisbon. Museol. Review 1(2): 33-45.

CASALEIRO (P.J.E.), 1996: Museum visitors and media science in Portugal. In: BITGOOD (S.C.), 1996: Visitor Studies: Theory, Research, and Practice. Selected papers, 1994 Visitor Studies Conf., Vol.7, Issue 1. Jacksonville, VSA: 62-73. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4l0-a_5730.pdf

DAVALLOU (J.), 1992: Le musée est-il vraiment un media? [*Is a museum really a medium?*] Public & Musées 2: 99-123.

DEBORHEGYI (S.F.), 1963: Visual communication in the science museum. Curator 6(1): 45-57.

KATZ (E.), BLUMLER (J.G.) & GUREVITCH (M.), 1974: Utilization of mass communication by the individual. In: BLUMLER (J.G.) & KATZ (E.) (eds.): The uses of mass communications. London, Sage: 19-32.

KNEZ (E.I.) & WRIGHT (G.A.), 1970: The museum as a communications system: an assessment of Cameron's viewpoint. Curator 13: 204-11.

LASWELL (H.D.), 1948: The structure and function of communication in society. In: BRUYSEN (L.) (ed.): The communication of ideas. New York.

MCLUHAN (M.), 1964: Understanding media: the extensions of man. New York, Mentor. 320 pp.

MCLUHAN (M.), 1967: The medium is the message. Harmondsworth, Penguin.

SCHRAMM (W.), 1971: The process and effects of mass communication. Urbana, Univ. of Illinois Press.

SILVERSTONE (R.), 1988: Museums and the media: a theoretical and methodological exploration. Museum Mgmt & Curatorship 7(3): 231-41.

TREINEN (H.), 1993: What does the visitor want from a museum? Mass-media aspects of museology. In: BICKNELL (S.) & FARMELO (G.) (eds.): Museum visitor studies in the 90s. London, Science Museum: 86-93.

TREINEN (H.), 1996: Ausstellungen und Kommunikationstheorie. [*Exhibitions and communication theory.*] In: HAUS DER GESCHICHTE (Hrsg.): Museen und ihre Besucher: Herausforderungen in der Zukunft. [*Museums and their visitors: challenges for the future.*] Bonn/Berlin, Haus der Geschichte: 60-71.

WEISS (R.S.) & BOUTOURLINE Jr. (S.), 1963: The communication value of exhibits. Museum News 42(3): 23-27.

WHITE (J.), 1990: Communication media. In: IZE Congress Antwerp '90 – 10-14 September – Abstracts.

BACKGROUND & FURTHER READING: ELECTRONIC AND WEB-BASED EVALUATION TECHNIQUES

BOHNERT (F.), BALDWIN (T.) & ZUKERMAN (I.), 2009: A computer-supported methodology for recording and visualizing visitor behaviour in physical museums. Museums and the Web 2009 – int'l conf. for culture and heritage on-line, Indianapolis, April 15-18, 2009. Abstract: http://www.archimuse.com/mw2009/abstracts/prg_335002051.html

PARSONS (C.), 1986: Using computers to evaluate. AAZPA 1986 Reg. Proc.: 250-60.

BACKGROUND & FURTHER READING: FOCUS GROUPS

FISCHER (D.), 1997: Visitor panels: in-house evaluation of exhibit interpretation. In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA. 51-62. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a0y2-a_5730.pdf

GREENBAUM (T.L.), 1997: The handbook for focus group research. Thousand Oaks, Sage.

JENNINGS (H.) & HANSEN (J.), 1987: Getting into focus groups. J. Museum Educ. 12(1):

KELLY (L.), 2009: How do I conduct a focus group? Sydney, Australian Museum.
<http://australianmuseum.net.au/How-do-I-conduct-a-focus-group>

KRUEGER (R.A.), 1997: Developing questions for focus groups. Focus Group Kit Vol. 3. Thousand Oaks, Sage.

KRUEGER (R.A.), 1997: Moderating focus groups. Focus Group Kit Vol. 4. Thousand Oaks, Sage.

KRUEGER (R.A.), 1997: Analyzing and reporting focus group results. Focus Group Kit Vol. 6. Thousand Oaks, Sage.

MCNAMARA (C.), 2006: Basis of conducting focus groups. Minneapolis, Authenticity Consulting.
<http://www.managementhelp.org/evaluatn/focusgrp.htm>

RODARI (P.) & MERZAGORA (M.), 2009: Focus groups. Evaluation: an overview. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 28.
<http://www.ecsite-conference.net/content/user/File/programma.pdf>

STEWART (D.) & SHAMDASANI (R.N.), 1990: Focus groups: theory and practice. Newbury Park, Sage.

- **Drawing, mind mapping in zoo evaluation studies**

MASK (D.), 1994: Can pre- and post-drawings by zoo visitors be used as a method to evaluate exhibits? Current Trends in Audience Res. & Evaluation 8: 32-37.

BACKGROUND & FURTHER READING: DRAWING, MIND MAPPING

EVANS (W.) & REILLY (J.), 1996: Drawings as a method of program evaluation and communication with school-age children. J. Extension 34(6). <http://www.joe.org/joe/1996december/a2.html>

HANUSA (A.D.), KESSLER (C.) & TISDAL (C.), 2007: Draw me a picture: diving into an evaluation method. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 8. Abstract: <http://www.visitorstudiesarchives.org>

LUSTBADER (S.) & WHEATLEY (J.), 1982: Children's drawing – an evaluation tool for nature interpretation. J. Interpretation 7(1): 23.

WELLS (M.) & GREEN (C.), 2002: Using concept maps to measure knowledge, attitudes and behavioural intentions. VSA Ann. Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: EXPERIMENTS

CAMPBELL (D.T.) & STANLEY (J.C.), 1963: Experimental and quasi-experimental designs for research. Chicago, Rand McNally.

COOK (T.D.) & CAMPBELL (D.T.), 1979: Quasi-experimentation: design and analysis issues for field settings. Boston, Houghton Mifflin. 405 pp.

TODMAN (J.B.) & DUGARD (P.), 2001: Single-case and small-n experimental designs. Mahwah, Erlbaum. 245 pp.

BACKGROUND & FURTHER READING: INTERVIEWS

BEAUMONT (L.), 1999: How to interview a young visitor: strategies for talking with a unique audience. 11th ann. VSA Conf., Aug. 3-7, 1999, Chicago, IL. Abstract: <http://www.visitorstudiesarchives.org>

DEWITT (J.), 2009: Snapshot interviews. Evaluation: an overview. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 71. <http://www.ecsite-conference.net/content/user/File/programma.pdf>

FREY (J.H.) & MERTENS OISHI (S.), 1995: How to conduct interviews by telephone and in person. Survey Kit Vol. 4. Thousand Oaks, Sage.

KVALE (S.), 1996: Interviews: an introduction to qualitative research interviewing. Thousand Oaks, Sage.

LUKE (J.), 2000: Utilizing follow-up interviews to assess long-term learning. VSA Conf. 2000, Boston. Abstract: <http://www.visitorstudiesarchives.org>

MCCRACKEN (G.), 1988: The long interview. Newbury Park, Sage.

MONROE (M.C.), 2002: Evaluaton's friendly voice: the structure open-ended interview. Applied Env. Educ. & Communication 1(2):

POL (L.G.), 1992: A method to increase response when external interference and time constraints reduce interview quality. Public Opinion Quarterly 56: 356-59.

RICHARDSON (S.), DOHRENWEND (B.), KLEIN (D.), 1975: Interviewing: its forms and functions. New York, Basic Books.

SEIDMAN (I.E.), 1998: Interviewing as qualitative research: a guide for researchers in education and the social sciences. 2nd edn. New York, Teachers' College Press.

BACKGROUND & FURTHER READING: LANGUAGE

GARIBAY (C.), MELUCH (W.) & YALOWITZ (S.S.), 2004: Evaluacion en Español: how to begin. 17th ann. VSA conf., Aug. 3-7, 2004, Albuquerque, NM. Abstract: <http://www.visitorstudiesarchives.org>

- **Mass media influences on zoo and aquarium visitor experiences**

ROSS (S.), 2008: Not a laughing matter: conservation effects of media portrayals. Connect, Sept. 2008: 24-26. http://www.aza.org/Publications/2008/09/f_media_sep08_web.pdf

ROSS (S.R.), LUKAS (K.E.), LONSDORF (E.V.), STOINSKI (T.S.), HARE (B.), SHUMAKER (R.) & GOODALL (J.), 2008: Inappropriate use and portrayal of chimpanzees. Science priorities. Policy forum. Science 319 (14 March 2008): 1487. www.sciencemag.org

SMITH (L.) & BROAD (S.), 2008: Comparing zoos and the media as conservation educators. Visitor Studies 11(1): 16-25.

TUNNICLIFFE (S.D.), 1994: Television broadcasts, videos and zoo visits. Int. Zoo News 250 :

ON-GOING AND UNPUBLISHED STUDIES :

POINTKE (F.), 2008: Und täglich grüßt der Pinguin. Eine explorative Studie zu den Auswirkungen von Doku-Soaps auf Zoos. Hausarbeit zur Erlangung des Grades eines Magister Artium der Philosophischen Fakultät der Westfälischen Wilhelms-Univ. Münster, Westfalen. [*And the penguin greets every day. An explorative study of the effects of reality tv soaps on zoos.*] Unpublished. Summary (in German) on: <http://www.zoo-ag.de/Zoo-Doku-Soaps.htm>

BACKGROUND & FURTHER READING: MASS MEDIA INFLUENCES ON VISITOR EXPERIENCES - GENERAL

CULLINGFORD (C.), 1992: "As seen on television": the sources of children's information. In: CULLINGFORD (C.): Children and Society. London, Cassell: 15-38.

DAVIES (G.), 1999: Exploiting the archive: And the animals came in two by two, 16 mm, CD-ROM, and BetaSP. Area 31: 49-58.

DE KUYPER (E.) & FRANCK (S.), 2007: Imagination in context. In: DE KUYPER (E.), FRANCK (S.), HOLTHOF (M.), DE BONT (R.), ODDING (A.) & NESPOLI (T.): Animalomania. Images of animals and people in some films from the 1910s and some 19th century art and culture. Imagination in context 5. Antwerpen, Kon. Mus. Schone Kunsten: 4-14.

DHINGRA (K.), 2003: Thinking about television science: how students understand the nature of science from different program genres. J. Res. Sc. Teaching 40: 234-56.

FRASER (J.), REISS (D.), BOYLE (P.), LEMCKE (K.), SICKLER (J.), ELLIOTT (E.), NEWMAN (B.) & GRUBER (S.), 2006: Dolphins in popular literature and media. Society & Animals 14(4).

FROST (W.), 2010: From Winnie-the-Pooh to Madagascar: fictional media images of the zoo experience. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 217-26.

GIBSON (M.), 2007: Whom do we mourn? Public mourning in the age of celebrity. Nexus: Newsletter Australian Sociol. Assn 19(3): 12-13.

LINDAHL-ELLIOT (N.), 2001: Signs of anthropomorphism: the case of natural history documentaries. Social Semiotics 11: 289-305.

LIPPIT (A.M.), 2002: ...From wild technology to electric animal. In: ROTHFELS (N.) (ed.): Representing animals. Bloomington/Indianapolis, Indiana UP: 119-36.

LUTTS (R.H.), 1992: The trouble with Bambi: Walt Disney's Bambi and the American vision of nature. Forest & Conservation History 36: 160-71.

MASON (P.), 2010: Zoos and the media. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 189-203.

MOORE (W.S.), BOWERS (D.R.) & GRANOVSKY (T.A.), 1982: What are magazines telling us about insects? Journalism Quarterly 59(3): 464-75.

PALMER (C.), 2002: Do natural history and wildlife films help achieve conservation? Informal Learning Review 56: 4-6.

SCHIMPF (D.) & BERCK (K.-H.), 1982: Zum Angebot biologischer Themen in Tageszeitungen. [On the range of biological themes in daily newspapers.] Mensch, Natur u. Umwelt 35(7): 395-400.

SCHOLTMEIJER (M.), 1993: Animal victims in modern fiction: from sanctity to sacrifice. Toronto, Univ. of Toronto Press.

SCHULZE (A.), 2009: Belehrung und Unterhaltung: Brehms Tierleben im Spannungsfeld von Empirie und Fiktion. [Information and entertainment: Brehms Animal Life in the field of tension between empiricism and fiction.] München, Herbert Utz. 400 pp.

SIKITI DA SILVA (I.), 2010: How media mismanage reporting on biodiversity.
<http://www.bizcommunity.com/Article/196/15/43479.html>

WOODS (P.), 1998: Media kids – how can they learn best at zoos about conservation? Ratel 25(3): 104-09.

ZARADIC (P.A.) & PERGAMS (O.R.W.), 2007: Videophilia: implications for childhood development and conservation. J. Development Processes 2: 130-44.

BACKGROUND & FURTHER READING: MYSTERY VISITORS

KIRCHBERG (V.), 2000: Mystery visitors in museums – an underused and underestimated tool for testing visitor services. Int'l J. Arts Mgmt.

BACKGROUND & FURTHER READING: PHYSIOLOGICAL NEEDS OF VISITORS

LEHMBRUCK (M.), 1974: Physiology: factors affecting the visitor. Museum 26(3/4): 179-89.

BACKGROUND & FURTHER READING: PREVIOUS VISITS (INFLUENCE OF)

BITGOOD (S.) & BISHOP (S.), 1991: The role of a current visit, prior visits, and gender on visitor perception of a natural history museum. ILVS Review: J. Visitor Behav. 2: 49-65.

BACKGROUND & FURTHER READING: QUALITATIVE RESEARCH

CLANDININ (D.J.) & CONNELLY (F.M.), 2000: Narrative inquiry: Experience and story in qualitative research. 1st edn. San Francisco, Jossey-Bass.

COFFEY (A.) & ATKINSON (P.), 1996: Making sense of qualitative data. Thousand Oaks, Sage.

CONNELLY (F.M.) & CLANDININ (D.J.), 2006: Narrative inquiry. In: GREEN (J.), CAMILLI (G.) & ELMORE (P.) (eds.): Handbook of complementary methods in education research. Mahaw, Erlbaum: 477-87.

- CRABTREE (B.F.) & MILLER (W.L.) (eds.), 1992: Doing qualitative research. London, Sage.
- CRESWELL (J.W.), 1997: Qualitative inquiry and research design: choosing among five traditions. Thousand Oaks, Sage.
- CZARNIAWSKA (B.), 2004: Narratives in social science research. London, Sage.
- DENZIN (N.K.) & LINCOLN (Y.S.) (eds.), 1994: Handbook of qualitative research. Thousand Oaks, Sage.
- DENZIN (N.) & LINCOLN (Y.) (eds.), 1998: Collecting and interpreting qualitative materials. Thousand Oaks, Sage.
- EVERETT (M.) & BARRETT (M.S.), 2009: Investigating sustained visitor/museum relationships: employing narrative research in the field of museum visitor studies. *Visitor Studies* 12(1): 2-15.
- FELDMAN (M.S.), 1994: Strategies for interpreting qualitative data. Thousand Oaks, Sage.
- FIELDING (N.G.) & LEE (R.M.) (eds.), 1991: Using computers in qualitative research. London, Sage.
- HATCH (A.), 2002: Doing qualitative research in education. Albany, SUNY Press.
- PATTON (M.Q.), 2002: Qualitative research and evaluation methods. 3rd edn. Thousand Oaks, Sage.

BACKGROUND & FURTHER READING: QUANTITATIVE RESEARCH, STATISTICS

- BLACK (T.R.), 1998: Doing quantitative research in the social sciences: an integrated approach to research design, measurement and statistics. Thousand Oaks, Sage.
- BRINKMAN (M.), 1996: Mehr qualitative und kompatible Daten. [More qualitative and compatible data.] In: HAUS DER GESCHICHTE (Hrsg.): Museen und ihre Besucher: Herausforderungen in der Zukunft. [Museums and their visitors: challenges for the future.] Bonn/Berlin, Haus der Geschichte: 247-56.
- CHOW SIU (L.), 1996: Statistical significance: rationale, validity and utility. Thousand Oaks, Sage.
- CLEGG (F.), 1993: Simple statistics. A coursebook for the social sciences. Cambridge, Cambridge UP.
- COHEN (J.), 1988: Statistical Power Analysis for the behavioral sciences. 2nd edn. Hillsdale, Erlbaum.
- DAVIDSON (F.), 1996: Principles of statistical data handling. Thousand Oaks, Sage.
- FERGUSON (G.A.), 1981: Statistical analysis in psychology and education. New York, McGraw-Hill.
- JAEGER (R.M.), 1990: Statistics: a spectator sport. 2nd edn. Newbury Park, Sage.
- LOOMIS (R.), 1988: A note on the use of small samples to collect visitor information. ILVS Review: J. of visitor behav. 1(1): 109-11.
- MARTIN (P.) & BATESON (P.), 1986: Measuring behaviour. Cambridge, Cambridge UP.
- PLOWMAN (A.B.), 2008: BIAZA statistics guidelines: toward a common application of statistical tests for zoo research. *Zoo Biology* 27(3): 226-33.

BACKGROUND & FURTHER READING: QUANTITATIVE AND QUALITATIVE RESEARCH COMBINED

- BRANNEN (J.) (ed.), 1992: Mixing methods: qualitative and quantitative research. Aldershot, Avebury.
- CRESWELL (J.W.), 1997: Research design: qualitative and quantitative approaches. Thousand Oaks, Sage.

TASHAKKORI (A.) & TEDDLIE (C.), 2000: Mixed methodology: combining qualitative and quantitative approaches. Thousand Oaks, Sage.

BACKGROUND & FURTHER READING: SOCIAL SCIENCES RESEARCH

ABERCROMBIE (N.) & LONGHURST (B.), 1998: Audiences: a sociological theory of performance and imagination. London, Sage.

AVENI (A.F.), 1989: What sociology has to offer visitor studies. *Visitor Studies* 2(1): 66-71.

BABBIE (E.), 1992: The practice of social research. 6th edn. London, Wadsworth.

BABBIE (E.R.), 2005: The basics of social research. London, Thomson Wadsworth.

BABBIE (H.), 1994: Adventures in social research – data analysis using SPSS. Pine Forge Press.

BICKMAN (L.) & ROG (D.J.), 1997: Handbook of applied social science methods. Thousand Oaks, Sage.

BONNER (J.P.), 1991: Anthropology and museum science. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.): *Visitor Studies: Theory, Research and Practice*. Vol. 3. Proc. 1989 Visitor Studies Conf., Jacksonville, Ctr for Social Design: 55-64. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5v6-a_5730.pdf

BRYMAN (A.), 1988: Quantity and quality in social research. Unwin Hyman.

CHEEK (N.), 1976a: Sociological perspectives on the zoological park market. In: CHEEK (N.), FIELD (D.R.) & BURGE (R.J.) (eds.): *Leisure and recreation places*. Ann Arbor, Ann Arbor Science: 123-35.

HOOPER-GREENHILL (E.), 1982: Some aspects of a sociology of museums. *Museums J.* 2: 69-70.

LUDWIG (E.G.), 1981: People at zoos: a sociological approach. *Int'l J. Study Animal Problems* 2(6): 310-16.

MILLER (D.C.), 2002: Handbook of research design and social measurement. 6th edn. Thousand Oaks, Sage.

BACKGROUND & FURTHER READING: STAFF AS OBSERVERS

DAVISON (M.), 1989: Information from museum security personnel. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: *Visitor studies: Theory, research, and practice*. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

Abstract: http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1r7-a_5730.pdf

RENNIE (L.) & JOHNSTON, 1997: What can floor staff tell us about visitor learning? *Museum Nat'l – the magazine of Museums Australia* 5(4): 17-18.

BACKGROUND & FURTHER READING: SURVEYS, QUESTIONNAIRES - GENERAL

ALLEN (S.), 2000: How is writing a good set of questions like designing a good exhibit? *Visitor Studies Today!* 3(2): 17-18. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6v1-a_5730.pdf

ALRECK (P.L.) & SETTLE (R.B.), 1995: The survey research handbook. 2nd edn. Chicago, Richard Unwin.

BABBIE (E.), 1990: Survey research methods. Belmont, Wadsworth.

BARNETT (V.), 1991: Sample survey: principles and methods. London, Edward Arnold.

- BOURQUE (L.B.) & CLARK (V.A.), 1992: Processing data: the survey example. Newbury Park, Sage.
- CONVERSE (J.M.) & PRESSER (S.), 1986: Survey questions: handcrafting the standardized questionnaire. Beverly Hills, Sage.
- DEY (E.), 1997: Working with low survey response rates: The efficacy of weighing adjustments. Research in Higher Educ. 38: 215-27.
- DONAHUE (S.), 1989: Visitor data is a three-way street. In: In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 171-79. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1o8-a_5730.pdf
- ENGLISH (D.B.K.), ZARNOCH (S.J.) & BOWLER (J.M.), 2008: Trap shyness in onsite visitor surveys: evidence from the U.S.. In: RASCHI (A.) & TRAMPETTI (S.) (eds.): Management for protection and sustainable development. Proc. 4th Int'l Conf. on Monitoring and Management of Visitor Flows in Recreational and Protected Areas, Montecatini Terme, Italy, Oct. 14-19, 2008: 135-38.
- FINK (A.) (ed.), 1995: The survey handbook. Survey Kit Vol. 1. Thousand Oaks, Sage.
- FINK (A.) (ed.), 1995: How to ask survey questions. Survey Kit Vol. 2. Thousand Oaks, Sage.
- FINK (A.) (ed.), 1995: How to design surveys. Survey Kit Vol. 5. Thousand Oaks, Sage.
- FINK (A.) (ed.), 1995: How to sample in surveys. Survey Kit Vol. 6. Thousand Oaks, Sage.
- FINK (A.) (ed.), 1995: How to analyze survey data. Survey Kit Vol. 8. Thousand Oaks, Sage.
- FINK (A.) (ed.), 1995: How to report on surveys. Survey Kit Vol. 9. Thousand Oaks, Sage.
- FINK (A.) & KOSECOFF (J.), 1998: How to conduct surveys. A step-by-step guide. Thousand Oaks, Sage.
- FOWLER Jr (F.J.), 1993: Survey research methods. Thousand Oaks, Sage.
- FOWLER Jr (F.J.), 1995: Improving survey questions. Design and evaluation: Applied social research methods. Thousand Oaks, Sage.
- FREDMAN (P.), ROMILD (U.), EMMELIN (L.) & YUAN (M.), 2009: Non-compliance with on-site data collection in outdoor recreation monitoring. Visitor Studies 12(2): 164-81.
- FUSCO (M.), EDWARDS (R.), MCDERMOTT (M.), LOOMIS (R.), 1989: The visitor survey: front-end evaluation or basic research? In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 144-48. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1o5-a_5730.pdf
- GROVES (R.M.), 1987: Research on survey data quality. Public Opinion Quarterly 51: S156-72.
- GROVES (R.M.), 2004: Survey errors and survey costs. Wiley Series in Survey Methodology. New York, Wiley-Interscience.
- GROVES (R.M.), CIAUDINI (R.B.) & COUPER (M.P.), 1992: Understanding the decision to participate in a survey. Public Opinion Quarterly 56: 475-95.
- HAGUE (P.), 1993: Questionnaire design. London, Kogan Page.
- HARTING (K.), 1987: Checklist for on-site audience surveys. Visitor Behav. 2(3): 8-9.
- LOOMIS (R.J.), 1973: Please not another visitor survey. Museum News 52: 21-26.
- MOORE (R.), 1988: Research surveys. Museum J., December 1988: 119.

NICHOLS (S.K.) (ed.), KORN (R.) & SOUD (L.), 1990: Visitor surveys: a users manual. Washington DC, American Assn. of Museums.

PLOWMAN (A.B.), HOSEY (G.) & STEVENSON (M.), 2006: Zoo Research Guidelines: Surveys and questionnaires. London, BIAZA. www.biaza.org.uk

BACKGROUND & FURTHER READING: WEB-BASED SURVEYS

PARSONS (C.), 2007: Web-based surveys: best practices based on the research literature. *Visitor Studies* 10(1): 13-33.

YALOWITZ (S.) & FERGUSON (A.), 2007: Using web surveys in summative evaluations: a case study at the Monterey Bay Aquarium. *Visitor Studies* 10(1): 34-46.

BACKGROUND & FURTHER READING: PUBLICATION OF RESULTS

ANDERSON (U.S.), KELLING (A.S.) & MAPLE (T.L.), 2008: Twenty-five years of Zoo Biology: a publication analysis. *Zoo Biology* 27(6): 444-57.

KISLING Jr (V.N.), 2001: Journals, professional and trade. In: BELL (C.E.) (ed.): *Encyclopedia of the World's Zoos*. Volume 2 G-P. Chicago/London, Fitzroy Dearborn: 665-68.

OGDEN (J.) & HEIMLICH (J.E.), 2009: Why focus on zoo and aquarium education? Editorial. *Zoo Biology* 28(5): 357-60.

PANKHURST (S.J.), PLUMB (A.) & WALTER (O.), 2008: Zoo research guidelines: getting zoo research published. London, BIAZA.

ROBBINS (N.), 1999: How to create more effective graphs of your data. VSA 1999 Ann. Conf.. Abstract: <http://www.visitorstudiesarchives.org>

ROBBINS (N.), 2002: Just because you can doesn't mean you should: better charts with Excel. VSA Ann. Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>

WHARTON (D.), 2008: The future of zoo biology. *Zoo Biology* 27(6): 498-504.

3. SOCIAL, EDUCATIONAL AND ENVIRONMENTAL PSYCHOLOGY

• Psychology of zoo and aquarium visitors

BRENNAN (T.), 1977: Typical zoo visitor social group behaviour. Making common knowledge complete. AAZPA Ann. Proc.: 106-116.

MAROLDO (G.K.), 1978: Zoos worldwide as settings for psychological research. American Psychologist 33: 1000-1004.

YALOWITZ (S.), 2002: Personality and motivation in visitor satisfaction. Visitor Studies Today 5: 14-17. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6f8-a_5730.pdf

ON-GOING AND UNPUBLISHED STUDIES :

BRENNAN (T.), 1977: Elements of social group behavior in a natural setting. Thesis. Chicago, Brookfield Zoo.

PALS (R.), STEG (L.), SIERO (F.) & VAN OUDENHOVEN-VAN DER ZEE (K.), 2007: Perceived restorativeness and visitor experience in a zoo. Env. Psychology Conf., Univ. of Bayreuth.

BACKGROUND & FURTHER READING: PSYCHOLOGY - GENERAL

ALT (M.B.) & GRIGGS (S.A.), 1986: Psychology and the museum visitor. In: THOMPSON (J.M.A.) (ed.): Manual of curatorship: a guide to museum practice. London: 386-93.

ARGYLE (M.), 1996: The social psychology of leisure. London, Penguin. 336 pp.

BITGOOD (S.), 1994: A primer on memory for visitor studies professionals. Visitor Behav., 9 (2): 4-8.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1r7-a_5730.pdf

BRANDT (H.F.), 2008: The psychology of seeing. Reprint. Whitefish, Kessinger. 260 pp.

CSIKSZENTMIHALYI (M.), 1975: Beyond boredom and anxiety. San Francisco, Jossey Bass. 231 pp.

EDER (J.) et al, 1994: Schauen und erleben. Zu einigen psychologischen Aspekten der Museumsakzeptanz. [Viewing and experiencing. On some psychological aspects of museum acceptance.] Neues Museum 2/1994: 50-54.

EISENBERGER (R.) & YALOWITZ (S.S.), 2001: The need for sensory experience. Presentation at the VSA Ann. Conf., Orlando, FL. Abstract: <http://www.visitorstudiesarchives.org>

FALK (J.H.), 1997: Recent advances in the neurosciences: implications for visitor studies. In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA: 227-38.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4g1-a_5730.pdf

FALK (J.H.), 2003: Personal Meaning Mapping. In: CABAN (G.), SCOTT (C.), FALK (J.) & DIERKING (L.) (eds.), 2003: Museums and creativity: a study into the role of museums in design education. Sydney, Powerhouse. pp. 10-18.

FESTINGER (L.), 1957: A theory of cognitive dissonance. Stanford, Stanford UP. 291 pp.

KORAN Jr (J.J.), KORAN (M.L.) & FOSTER (J.S.), 1989: The (potential) contributions of cognitive psychology to visitor studies. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory,

research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 72-79.

Abstract: <http://www.visitorstudiesarchives.org>

MELTON (A.W.), 1933: Some behavior characteristics of museum visitors. *Psychological Bull.* 30: 720-21.

MILLER (G.), 1956: The magical number seven, plus or minus two: some limits on our capacity for processing information. *Psychol. Review* 63(2): 81-97.

ROBINSON (E.S.), 1930: Psychological problems of the science museum. *Museum News* 8(5): 9-11.

SHAUGHNESSY (J.J.) & ZECHMEISTER (E.B.), 1994: Research methods in psychology. New York, McGraw-Hill. 560 pp.

SOMMER (R.) & SOMMER (B.), 2002: A practical guide to behavioral research: tools and techniques. New York, Oxford UP. 380 pp.

SYLWESTER (R.) & CHO (J.-Y.), 1992: What brain research says about paying attention. *Educ. Leadership* 50(4): 71-75.

WAKEMAN (B.), 1983: Enthusiasm: teachable, measurable attitude. *Newsletter IZE* 10: 22-23.

WURMAN (R.S.), LEIFER (L.), SURNE (D.) & WHITEHOUSE (K.), 2001: Information anxiety. 2nd edn. New York, Que. 308 pp.

BACKGROUND & FURTHER READING:

SOCIAL, EDUCATIONAL AND ENVIRONMENTAL PSYCHOLOGY (SELECTIVE BIBLIOGRAPHY)

BECHTEL (R.B.) & CHURCHMAN (A.) (eds.), 2002: Handbook of environmental psychology. New York, Wiley & Sons. 722 pp.

DEWEY (J.), 1997: Experience and education. New York, Simon & Schuster. 96 pp.

GALLAGHER (W.), 1993: The power of place: how our surroundings shape our thoughts, emotions, and actions. New York, Poseidon Press. 240 pp.

HERZOG (T.) & SMITH (G.A.), 1988: Danger, mystery, and environmental preference. *Env. & Behav.*, 20(3): 320-44.

PATTERSON (D.), 1989: Contributions of environmental psychology to visitor studies. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: AFFECT

FORGAS (J.P), 2003: Affective influences on attitudes and judgments. In: DAVIDSON (R.J.), SCHERER (K.R.) & HILL (H.H.) (eds.): Handbook of affective sciences. Oxford, Oxford UP: 596-618.

ROBERTS (L.), 1989: The elusive qualities of "affect". *IZE J.* 22: 30-33.

RUSSELL (J.A.) & PRATT (G.), 1980: A description of the affective quality attributed to environments. *J. of Personality & Soc. Psych.* 38(2): 311-22.

RUSSELL (S.A.), WARD (L.M.) & PRATT (G.), 1981: Affective quality attributed to environments: A factor analytic study. *Env. & Behav.* 13: 259-88.

THOMPSON (T.L.) & MINTZES (J.J.), 2002: Cognitive structure and the affective domain: on knowing and feeling in biology. *Int'l J. Sci Educ.* 24: 645-60.

- **Attitudes of zoo and aquarium visitors**

ANON., 2008: Linking emotional arousal in zoo experiences with visitor attitudes and behaviour. Melbourne, Monash Univ. 2 pp. www.buseco.monash.edu.au/units/tru/resprofile/zooexperience...

BITGOOD (S.), 1992: The impact of a zoo visit on attitudes: a preliminary report on interaction effects. *Visitor Behav.* 7(3): 7-10.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1w5-a_5730.pdf or
http://informalscience.org/researches/VSA-a0a1w5-a_5730.pdf

BACKGROUND & FURTHER READING: ATTITUDES

AJZEN (I.), 2005: Attitudes, personality and behaviour. Maidenhead, Open UP.

BRIGHT (A.D.) & MANFREDO (M.J.), 1995: The quality of attitudinal information regarding natural resource issues. The role of attitude-strength, importance, and information. *Society & Natural Resources* 8(5): 399-414.

BROSSARD (D.), LEWENSTEIN (B.) & BONNEY (R.), 2005: Scientific knowledge and attitude change: the impact of a citizen science project. *Int'l J. Sci. Educ.* 27: 1099-121.

CABLE (T.), KNUDSON (D.), UDD (E.) & STEWART (D.), 1987: Attitude change as a result of exposure to interpretive messages. *J. Park & Recreation Admin.* 5(1): 47-60.

CHAIKEN (S.) & STANGOR (C.), 1987: Attitudes and attitude change. *Ann. Review Psychology* 38: 575-630.

EAGLY (A.H.) & CHAIKEN (S.), 1993: The psychology of attitudes. San Diego, Harcourt, Brace & Jovanovich.

FISHBEIN (M.) & AJZEN (I.), 1975: Belief, attitude, intention and behaviour: an introduction to theory and research. Reading, Addison-Wesley.

HENERSON (M.), MORRIS (L.) & FITZ-GIBBON (C.), 1978: How to measure attitudes. Beverly Hills, Sage.

MANFREDO (M.J.), TEEL (T.L.) & BRIGHT (A.D.), 2004: Application of the concepts of values and attitudes in human dimensions of natural resources research. In: MANFREDO (M.J.), VASKE (J.J.), FIELD (D.) & BROWN (P.J.) (eds.): Society and natural resources. A summary of knowledge prepared for the 10th Int'l Symp. on Society & Natural Resources. Jefferson, Modern Litho:

MCGUIRE (W.J.), 1985: Attitudes and attitude change. In: LINDZEY (G.) & ARONSON (E.) (eds.): The handbook of social psychology. Vol. 2. New York, Random House: 233-46.

OLSON (J.A.) & ZANNA (M.P.), 1993: Attitudes and attitude change. *Ann. Review Psych.* 44: 117-54.

OSKAMP (S.) & SCHULTZ (P.W.), 2005: Attitudes and opinions. 3rd edn. Mahwah, Erlbaum.

PETTY (R.E.) & CACIOPPO (J.T.), 1986: Communication and persuasion: central and peripheral routes to attitude change. New York, Springer.

PETTY (R.E.), FABRIGAR (L.E.) & WEGNER (D.T.), 2003: Emotional factors in attitudes and persuasion. In: DAVIDSON (R.J.), SCHERER (K.R.) & HILL (H.H.) (eds.): Handbook of affective sciences. Oxford, Oxford UP: 752-72.

PETTY (R.E.), WEGENER (D.T.) & FABRIGAR (L.R.), 1997: Attitudes and attitude change. *Ann. Review Psych.* 48: 669-74.

PRATKANIS (A.R.), BRECKLER (S.J.) & GREENWALD (A.G.) (eds.), 1989: Attitude structure and function. Hillsdale, Erlbaum.

TESSLER (A.) & SHAFFER (D.R.), 1990: Attitudes and attitude change. *Ann. Review Psych.* 41: 479-523.

BACKGROUND & FURTHER READING: COGNITIVE PSYCHOLOGY

ANDERSON (J.L.), 2001: Stone-age minds at work on 21st century science: how cognitive psychology can inform conservation biology. *Conservation Biol. in Practice* 2(3): 18-25.

HAM (S.H.), 1983: Cognitive psychology and interpretation: synthesis and application. *J. Interpretation* 8(1): 11-27.

KORAN (J.J.), KORAN (M.L.) & FOSTER (J.S.), 1989: The (potential) contributions of cognitive psychology to visitor studies. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: *Visitor studies: Theory, research, and practice*. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING : CURIOSITY

EDELMAN (S.), 1997: Curiosity and exploration. Northridge, California State Univ.. 5 pp.
<http://www.csun.edu/~vcpsy00h/students/explore.htm>

KORAN Jr (J.J.) & LONGINO (S.J.), 1982: Curiosity behaviour in formal and informal settings: what research says. *Bull. Florida Educ. Res. & Development Council*: 1-31.

LOEWENSTEIN (G.), 1994: The psychology of curiosity: a review and reinterpretation. *Psychol. Bull.* 116(1): 75-98.

MORGAN (K.), 2000: The impact of curiosity on learning during a school field trip to a zoo. 12th ann. VSA conf., Aug. 5-9, 2000, Boston/Cambridge. Abstract: <http://www.visitorstudiesarchives.org>

PETERSON (R.W.) & LOWERY (L.F.), 1972: The use of motor activity as an index of curiosity in children. *J. Res. Sc. Teaching* 9(3): 193-200.

- **Emotions of zoo and aquarium visitors**

ANON., 2008: Linking emotional arousal in zoo experiences with visitor attitudes and behaviour. Melbourne, Monash Univ.. 2 pp. www.buseco.monash.edu.au/units/tru/resprofile/zooexperience...

MYERS (O.E.), SAUNDERS (C.) & BIRJULIN (A.A.), 2004: Emotional dimensions of watching zoo animals: an experience sampling study building on insights from psychology. *Curator* 47: 299-321.

SMITH (L.), WEILER (B.) & HAM (S.H.), 2008: Measuring emotion at the zoo. *IZE J.* 44: 26-31. <http://www.izea.net/education/J.%2044%202008.pdf>

BACKGROUND & FURTHER READING: EMOTIONS

BAKER (W.K.), 2000: What level of impact do emotions have in the zoo environment? *Animal Keepers' Forum* 27(3): 111-13.

BRECKLER (S.J.), 1993: Emotion and attitude change. In: LEWIS (M.) & HAVILAND (J.M.) (eds.): *Handbook of emotions*. New York, Guilford: 461-73.

CACIOPPO (J.T.), BERNTSON (G.G.), LARSEN (J.T.), POEHLMANN (K.M.) & ITO (T.A.), 2000: The psychophysiology of emotion. In: LEWIS (M.) & HAVILAND-JONES (J.M.) (eds.): *Handbook of emotions*. 2nd edn. New York, Guilford: 173-91.

CORNELIUS (R.), 1996: The science of emotion: research and tradition in the psychology of emotion. Upper Saddle River, Simon & Schuster.

DUIZER (P.), 2001: Engaging an emotional response. In: Conservation through commerce. 3rd Int'l Zoo Mktg Conf.. Tenerife, Canary Islands, 31 May – 2 June 2001. Bern/Amsterdam, WAZA/EAZA: 58-60.

EICH (E.) & SCHOOLER (J.W.), 2000: Cognition/emotion interactions. In: EICH (E.), KIHLSTROM (J.F.), BOWER (G.H.), FORGAS (J.P.) & NIEDENTHAL (P.M.) (eds.): *Cognition and emotion*. Oxford, Oxford UP: 3-29.

FALK (J.H.) & GILLESPIE (K.L.), 2009: Investigating the role of emotion in science center visitor learning. *Visitor Studies* 12(2): 112-32.

KEMPER (T.), 1987: How many emotions are there? Wedding the social and autonomic components. *American J. Sociology* 93: 263-89.

LEWIS (M.) & HAVILAND-JONES (J.M.) (eds.), 2000: *Handbook of emotions*. 2nd edn. New York, Guilford.

MARSH (C.), 1996: The role of emotions. *ASTC Newsletter* Nov/Dec: 2-5.

MILTON (K.), 2002: Loving nature. Towards an ecology of emotion. New York, Routledge.

MYRTEK (M.), 2004: Heart and emotion: ambulatory monitoring studies in everyday life. Göttingen, Hogrefe & Huber.

O'SHAUGHNESSY (J.) & O'SHAUGHNESSY (N.J.), 2003: The marketing power of emotion. Oxford, Oxford UP.

PARROTT (W.G.) & SPACKMAN (M.P.), 2000: Emotion and memory. In: LEWIS (M.) & HAVILAND-JONES (J.M.) (eds.): *Handbook of emotions*. 2nd edn. New York, Guilford: 476-90.

PETTY (R.E.), FABRIGAR (L.E.) & WEGNER (D.T.), 2003: Emotional factors in attitudes and persuasion. In: DAVIDSON (R.J.), SCHERER (K.R.) & HILL (H.H.) (eds.): *Handbook of affective sciences*. Oxford, Oxford UP: 752-72.

PHILIPPOT (P.) & SCHAEFER (A.), 2001: Emotion and memory. In: MAYNE (T.J.) & BONANNO (G.A.) (eds.):

Emotions: current issues and future directions. New York, Guilford: 82-122.

RÖCHERT (R.), 2008: Aufklären oder verführen? – Zur Bedeutung der Faktoren “Emotionalität” und “Integrierte Kommunikation” für Besucherzentren und Ausstellungen. [*Enlighten or seduce? - On the meaning of “emotionality” and “integrated communication” for visitor centres and exhibitions.*] In: Informieren und faszinieren – Kommunikation in Natur-Infozentren. [*To inform and to fascinate – Communication in nature interpretation centres.*] Bonn-Bad Godesberg, Bundesamt für Naturschutz: 7-24.

RÖCHERT (R.) & MUNRO (P.) & SOMMER (S.), 2008: Emotional branding als Strategie für Besucherzentren – das Nationalpark-Zentrum Königstuhl. [*Emotional branding as strategy for visitor centres – the Königsuh National Park centre.*] In: Informieren und faszinieren – Kommunikation in Natur-Infozentren. [*To inform and to fascinate – Communication in nature interpretation centres.*] Bonn-Bad Godesberg, Bundesamt für Naturschutz: 105-92.

SERVAIS (V.), 1999: Zoos, éducation et malentendus. Essai d’anthropologie des emotions du visiteur de zoo. [*Zoos, education and misunderstandings. Essay into an anthropology of zoo visitor emotions.*] Cah. d’éthologie 19(1): 1-16.

SYLWESTER (R.), 1994: How emotions affect learning. Educational Leadership 52(2): 60-65.

WAGENSBERG (J.), ROECHERT (R.), DRIOLI (A.) & CIRA (M.), 2006: Can visitors fall in love with exhibits? Abstract. ECSITE Conf. 2006, Technopolis, the Flemish Science Centre, Mechelen, Belgium. 8-10 June 2006. Programme book. Mechelen/Brussels, Technopolis/ECSITE: 19.

BACKGROUND & FURTHER READING: ENVIRONMENTAL PSYCHOLOGY

BECHTEL (R.) & CHURCHMAN, (A.) (eds.): Handbook of environmental psychology. New York, Wiley & Sons.

BELL (P.A.), GREENE (T.C.), FISHER (J.D.) & BAUM (A.), 2001: Environmental psychology. 5th edn. Belmont, Wadsworth. 646 pp.

BITGOOD (S.), 2002: Environmental psychology in museums, zoos, and other exhibition centers. In: BECHTEL (R.B.) & CHURCHMAN (A.) (eds.), 2002: Handbook of environmental psychology. New York, Wiley & Sons: 461-80.

HERZOG (T.) & SMITH (G.A.), 1988: Danger, mystery, and environmental preference. Env. & Behav. 20(3):

• Memory

HOLTORF (C.), 2008: Der Zoo als Ort der Erinnerung. [*The zoo as a place of recollection.*] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [*Man, animal and zoo. Schönbrunn zoo in international perspective from the 18th century to the present.*] Wien/Köln/Weimar, Böhlau: 345-61.

BACKGROUND & FURTHER READING: MEMORY

AFONSO (A.) & GILBERT (J.), 2006: The use of memories in understanding interactive science and technology exhibits. Int'l Journal Sc. Educ. 28: 1523-44.

BITGOOD (S.), 1994: A primer on memory for visitor studies professionals. Visitor Behav. 9(2): 4-8.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1r7-a_5730.pdf

McMANUS (P.), 1993: Memories as indicators of the impact of museum visits. Museum Mgmt & Curatorship 12: 367-80.

NORMAN (D.A.), 1976: Memory and attention. 2nd edn. New York, Wiley & Sons.

BACKGROUND & FURTHER READING: OPTIMAL EXPERIENCE

- CSIKSZENTMIHALYI (M.), 1990: Flow: the psychology of optimal experience. New York, Harper & Row.
- CSIKSZENTMIHALYI (M.) & CSIKSZENTMIHALYI (I.) (eds.), 1988: Optimal experience: psychological studies of flow in consciousness. Cambridge, Cambridge UP.
- CSIKSZENTMIHALYI (M.), 1997: Finding flow. The psychology of engagement with everyday life. New York, BasicBooks.

BACKGROUND & FURTHER READING: PERCEPTION

- GIBSON (J.J.), 1979: The ecological approach to visual perception. Boston, Houghton Mifflin.
- WECHSLER (S.), 1979: Perceiving the visual message. In: POLLET (D.) & HASSELL (P.C.) (eds.): Sign systems for libraries. Solving the wayfinding problem. New York/London, Bowker: 33-46.

BACKGROUND & FURTHER READING: PSYCHOMETRICS

- WELLS (M.), 2002: The development of psychometric scales to measure sense of place. VSA Ann. Conf. 2002, Cody, WY.

4. ETHICAL ASPECTS (of visitor studies), PROFESSIONAL STANDARDS

BACKGROUND & FURTHER READING: ETHICAL ASPECTS, PROFESSIONAL STANDARDS

BAUERLEIN (M.), GAD-EL-HAK (M.), GRODY (W.), MCKELVEY (B.) & TRIMBLE (S.W.), 2010: We must stop the avalanche of low-quality research. Chronicle of Higher Educ., 13 June 2010.

<http://chronicle.com/article/We-Must-Stop-the-Avalanche-of/65890/>

BICKNELL (S.) & GAMMON (B.), 1996: Ethics and visitor studies – or, not ? In: LANKFORD JENS (S.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf.. Jacksonville, VSA: 18-31.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4h9-a_5730.pdf

COMMITTEE ON AUDIENCE RESEARCH AND EVALUATION, 1993: Professional standards for the practice of visitor research and evaluation in museums. In: BICKNELL (S.) & FARMELO (G.) (eds.): Museum visitor studies in the 90s. London, Science Museum: 166-68.

FALK (J.) & GIUSTI (E.), 2002: Professional responsibility to the field of visitors. VSA Annual Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>

GUTWILL-WISE (J.), 2002: Audio-videotaping for informed consent. VSA Annual Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>

GUTWILL (J.), 2003: Gaining visitor consent for research II: Improving the posted-sign method. Curator.

HORNBACK (K.E.) & EAGLES (P.F.J.), 1999: Guidelines for public use measurement and reporting in parks and protected areas. Gland/Cambridge, IUCN.

KIMMEL (A.J.), 1988: Ethics and values in applied social research. Thousand Oaks, Sage.

NEWMAN (D.L.) & BROWN (R.D.), 1996: Applied ethics for program evaluation. Thousand Oaks, Sage.

SHETTEL (H.), 1992: Professional standards: an historic perspective and overview. ILVS Review: J. of Visitor Behav. 2(2): 263-65.

SHETTEL (H.H.), 1993: Professionalism in visitor studies: too soon or too late? In: BICKNELL (S.) & FARMELO (G.) (ed.): Museum visitor studies in the 90s. London, Science Museum: 161-65.

SHETTEL (H.H.), 1996: Where do we stand on standards? In: LANKFORD JENS (S.), BITGOOD (S.): Visitor Studies: Theory, Research, and Practice. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf.. Jacksonville, VSA: 13-17. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4h8-a_5730.pdf

SHETTEL (H.) & MUNLEY (M.E.), 1986: Do museum studies programs meet evaluation training needs? Museum News 64(3): 63-70.

5. INSTITUTIONAL/ORGANIZATIONAL ASPECTS

BARTOS (J.M.) & KELLY (J.D.), 1998: Towards best practice in the zoo industry: developing key performance indicators as bench-marks for progress. Int. Zoo Yb. 36: 143-57.

BIRNEY (B.A.), 1986: Preparing for a research consultant: or, So you want to hire an evaluator ? AAZPA 1986 Reg. Proc.: 535-40.

CARAVITA (S.), 1986: A laboratory for the study of cognitive processes in science teaching in the zoo of Rome. IZE J. 16: 30-34.

ON-GOING AND UNPUBLISHED STUDIES :

WAGNER (K.), 2006: Measuring mission and impacting the guest experience. Paper, AZA Ann. Conf., Tampa, FL, 26-29 Sep.

BACKGROUND & FURTHER READING: INSTITUTIONAL/ORGANIZATIONAL ASPECTS

ADES (S.), 1994: Self-critique: can your organization stand it ? Exhibitionist 13(1): 29-31.

BITGOOD (S.), 1996: Institutional acceptance of evaluation: review and overview. Visitor Behav. 11(2): 4-5.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1e4-a_5730.pdf

BITGOOD (S.) & CARNES (G.), 1987: Professionals' attitudes toward exhibit evaluation. Techn. Report No. 87-80. Jacksonville, Psychology Inst., Jacksonville State Univ.. Summary in Visitor Behav. 2(2): 7.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a215-a_5730.pdf

BORUN (M.), MARINO (M.), MACNAMARA (P.) & DOERING (Z.H.), 1993: The in-house evaluator: opportunities and challenges. In: THOMPSON (D.), BITGOOD (S.) et al: Visitor Studies: Theory, research, and practice. Vol. 6. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 246-55.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4r1-a_5730.pdf

DEWITT (J.), BARRIAULT (C.), CASALEIRO (P.) & MAYFIELD (H.), 2009: Building a "culture of evaluation" to improve institutional practice. Abstracts. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 93.
<http://www.ecsite-conference.net/content/user/File/programma.pdf>

FRIEDMAN (A.J.), 1993: Visitor studies: convincing the director. In: THOMPSON (D.), BITGOOD (S.) et al: Visitor Studies: Theory, research, and practice. Vol. 6. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 256-62.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4r2-a_5730.pdf

FRIEDMAN (A.J.), 1996: Why museums don't evaluate. Visitor Behav. 11(2): 6-8.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1e8-a_5730.pdf

FRIEDMAN (A.J.), RABINOVITCH (V.) & GRAHAM (K.), 2007: From the top down: experiences with and strategies for institutionalizing visitor studies. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 25. Abstract: <http://www.visitorstudiesarchives.org>

GLENNON (R.M.), 1987: Do we only want praise? J. Museum Educ. 12(1):

HAM (S.H.) & STONE (R.L.), 1979: A comparison of visitors' and interpreters' assessments of conducted interpretive activities. J. of Interpretation 4(2): 39-44.

- HAYWARD (J.), 1993: Institutional need and response: visitor research at the New York Botanical Garden. *Visitor Behav.* 8(1): 4-5. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1u7-a_5730.pdf
- HEMMO (V.), 2007: The cost of non-evaluating. From an accountability constraint to taking advantage of more opportunities. Presentation. ECSITE Conf. 2007, Lisboa. <http://www.ecsite-conference.net/content/user/File/valerie%20hemmo.pps>
- HOOD (M.G.), 1986: Getting started in audience research. *Museum News* 64(3): 24-31.
- HOOD (M.G.), 1987: Preparing volunteers to assist in audience studies. *Visitor Behav.* 2(3): 7-8. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2k5-a_5730.pdf
- HOOD (M.), 1996: Institutional acceptance of audience research. *Visitor Behav.* 6(3): 4-5. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1y9-a_5730.pdf
- LEWENSTEIN (B.V.), 2003: Why the “public understanding of science” field is beginning to listen to the audience. In: GRINELL (S.) (ed.): *A place for learning science: Starting a science center and keeping it running*. Washington DC, ASTC.
- MATYAS (B.), 2001: Beyond studying the visitors: addressing the needs of decision makers. *Visitor Studies Today!* 4(2): 10-11. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6s2-a_5730.pdf
- PATRICK (P.G.), MATTHEWS (C.E.), AYERS (D.F.) & TUNNICLIFFE (S.D.), 2007: Conservation and education: prominent themes in zoo mission statements. *J. Env. Educ.* 38(3): 53-59.
- PATRICK (P.G.), TUNNICLIFFE (S.D.), MATTHEWS (C.E.) & AYERS (D.F.), 2007: Mission statements of AZA-accredited zoos: do they say what we think they say? *Int. Zoo News* 54(2): 90-98.
- PERRY (D.), RONNING (K.), SISKA (J.) & WEAVER (S.), 1996: The institutionalization of evaluation. Summarized by E. Reed. *Visitor Behav.* 9(2): 13.
- REICH (C.), 1988: Visitor evaluation from the director’s viewpoint. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): *Visitor studies: Theory, research, and practice*. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- SHETTEL (H.), 1988: Do we really, really need to do visitor studies ? In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): *Visitor studies: Theory, research, and practice*. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 25-31. Abstract: <http://www.visitorstudiesarchives.org>
- SHETTEL (H.), 1996: Some thoughts on the politics of evaluation. *Visitor Behav.* 11(2): 3. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1i9-a_5730.pdf
- SOCOLOVSKY (K.), 1996: Institutional acceptance of visitor evaluation. *Visitor Behav.* 11(2): 14. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1j4-a_5730.pdf
- STOKES (E.), 1995: Through the eyes of the guest: how guest services can influence the visitor studies agenda. *Visitor Studies* 7: 3-6. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4j6-a_5730.pdf
- WAGNER (K.F.), 1996: Acceptance or excuses ? The institutionalization of evaluation. *Visitor Behav.* 11(2): 11-13. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1j8-a_5730.pdf
- WAGNER (K.F.), 1996: Acceptance or excuses ? The institutionalization of evaluation. *Visitor Behav.* 11(3): 3. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1d9-a_5730.pdf
- WASHBURN (W.), 1987: Do museums want evaluation ? *Visitor Behav.* 2(1): 10. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2n0-a_5730.pdf

BACKGROUND & FURTHER READING: COMMERCIAL APPLICATIONS OF VISITOR STUDIES

BITGOOD (S.) & DUKES (S.), 2006: Not another step! Economy of movement and pedestrian choice point behavior in shopping malls. *Env. & Beh.* 38(4): 394-405.

LARSON (J.S.), BRADLOW (E.T.) & FADER (P.S.), 2005: An exploratory look at supermarket shopping paths. *Int'l J. Res. Mktg* 22(4): 395-414.

WEBB (R.C.), 1994: The relevance of the consumer research literature to the visitor studies field: the case of involvement. *Visitor Studies* 4: 7-19.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4m5-a_5730.pdf

WEBB (R.C.), 1997: Comparing high-involved and low-involved visitors: a review of the consumer behavior literature. In: WELLS (M.) & LOOMIS (R.) (eds.), 1997: *Visitor Studies: Theory, research and practice*. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA: 276-87.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4g6-a_5730.pdf

BACKGROUND & FURTHER READING: CONSULTANTS AND OUTSOURCING

COMPANIA MEDIA (ed.), 2000: *Handbuch Museumsberatung. Akteure – Kompetenzen – Leistungen. [Handbook of museum consultancy. Actors – competences – performances.]* Bielefeld,

GRANT (L.), 2008: Evaluating evaluation: the relationship. ECSITE Conf. 2008, Budapest.
<http://www.ecsite-conference.eu/content/user/File/GrantN4ac08.pps>

HOOD (M.G.), 1986: Questions to ask when employing a survey research organization. *Visitor Behav.* 1(3): 12.

HOOD (M.G.), 1989: The use, misuse, and abuse of consultants. I: The view of an audience researcher. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: *Visitor studies: Theory, research, and practice*. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 32-40. Abstract: <http://www.visitorstudiesarchives.org>

ROSNOW (R.L.) & ROSENTHAL (R.), 1996: Computing contrasts, effect sizes, and counternulls on other people's published data: general procedures for research consumers. *Psychol. Methods* 1: 331-40.

SHETTEL (H.), 1989: The use, misuse, and abuse of consultants, II: the views of an evaluator. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: *Visitor studies: Theory, research, and practice*. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 41-45. Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: VISITOR STUDIES AND INSTITUTIONAL RESEARCH AGENDAS AND STRATEGIES

FINLAY (T.) & MAPLE (T.L.), 1986: A survey of research in American zoos and aquariums. *Zoo Biology*, 5(3): 261-68.

LAWSON (D.P.), OGDEN (J.) & SNYDER (R.J.), 2008: Maximizing the contribution of science in zoos and aquariums: organizational models and perceptions. *Zoo Biology* 27(6): 458-69.

PEREBOOM (Z.), 2009: Survey says? Preliminary results from the 2009 EAZA Research Survey. Poster. EAZA 2009 Conf., Copenhagen.

REID (G.McG.), MACDONALD (A.), FIDGETT (A.), HIDDINGA (B.) & LEUS (K.), 2008: Developing the research potential of zoos and aquaria. The EAZA Research Strategy. Amsterdam, EAZA. 64 pp.

SEMPLE (S.), 2002: Analysis of research projects conducted in Federation collections to 2000. *Federation Res. Newsletter* 3: 3

STOINSKI (T.S.), LUKAS (K.E.) & MAPLE (T.L.), 1998: A survey of research in North American zoos and

aquariums. *Zoo Biology* 17: 167-80.

WEMMER (C.), RODDEN (M.) & PICKETT (C.), 1997: Publication trends in *Zoo Biology*: a brief analysis of the first 15 years. *Zoo Biology* 16(1):

6. HUMAN-WILDLIFE/ANIMAL RELATIONSHIPS, KNOWLEDGE OF AND ATTITUDES TO WILDLIFE, NATURE AND ANIMALS

BACKGROUND & FURTHER READING: GENERAL ATTITUDES TO WILDLIFE AND NATURE

ACHTERHUIS (H.), 1995: Natuur tussen mythe en techniek. Baarn, Ambo.

ADAMS (C.E.), NEWGARD (L.) & THOMAS (J.K.), 1986: How high school and college students feel about wildlife. Implications for curriculum development. American Biology Teacher 48(5): 263-67.

BEREK (K.-H.) & KLEE (R.), 1992: Interesse an Tier- und Pflanzenarten und Handeln in Natur- und Umweltschutz. [Interest in animal and plant species and activity in nature and environmental protection.] Frankfurt/Main, Peter Lang.

BOULTER (C.), REISS (M.J.) & TUNNICLIFFE (S.D.), 2004: Seeing the (natural) world in a post-modern age. CASTME J..

BUIJS (A.E.), 2009: Social representations of nature as resource in framing. 15th Int'l Symp. Society & Resource Mgmt. Wien, ISSRM. <http://edepot.wur.nl/15221>

CARSON (R.), 1965: The sense of wonder. New York, Harper & Row.

CRONON (W.) (ed.), 1996: Uncommon ground: toward reinventing nature. Rethinking the human place in nature. New York, W.W. Norton.

CRONON (W.), 1996: The trouble with wilderness; or, getting back to the wrong nature. In: CRONON (W.) (ed.): Uncommon ground: toward reinventing nature. Rethinking the human place in nature. New York, W.W. Norton: 69-90.

DESMET (J.), 1994: Moeder natuur naakt! Over de schone schijn van onze natuur- en dierenliefde. [Mother Nature naked! Keeping up appearances on our love for nature and animals.] Leuven, Kritak. 272 pp.

ELLIOT (R.), 1982: Faking nature. Inquiry 25: 81-93.

EVERNDEN (N.), 1992: The social creation of nature. Baltimore, Johns Hopkins UP.

GIBSON (J.W.), 2009 : A reenchanted world. The quest for a new kinship with nature. New York, Metropolitan/Holt. 306 pp.

HAMILTON (A.), 2001: Human nature and the natural world. London, New Millenium. 427 pp.

HUXLEY (T.H.), 1959: Man's place in nature. Ann Arbor, Univ. of Mich. Press.

JANSSEN (F.J.J.M.), WAARLO (A.), ALBLAS (A.J.) & BROERTJES (J.J.S.), 1994: Praktijktheorie en theorie over de ontwikkeling van betrokkenheid bij natuur. [Theory and practice of the development of commitment to nature.] Pedagog. Studieën 71: 200-08.

KELLERT (S.R.), 1993: The biological basis for human values of nature. In: KELLERT (S.R.) & WILSON (E.O.) (eds.), 1993: The biophilia hypothesis. Washington DC, Island Press.

LEOPOLD (A.), 1966: A sand country almanac with other essays on conservation. New York, Oxford UP.

LIJMBACH (S.E.E.M.), VAN KOPPEN (C.) & WALS (A.E.J.), 2000: Natuur in pluralistisch perspectief. [Nature in a pluralistic perspective.] In: MARGADANT-VAN ARCKEN (M.) & VAN DEN BERG (C.S.) (red.): Natuur in pluralistisch perspectief: theoretisch kader en voorbeeldsmateriaal voor het omgaan met een veelheid van natuurgebeelden. [Nature in a pluralistic perspective: theoretical framework and exemplary teaching materials for dealing with a multitude of nature images.] Utrecht, CdB-Press: 9-29.

MILTON (K.), 2002: Loving nature: towards an ecology of emotion. London, Routledge.

- PYLE (R.M.), 2003: Nature matrix: reconnecting people and nature. *Oryx* 37(2): 206-14.
- QUAMMEN (D.), 2000: The boilerplate rhino. *Nature in the eye of the beholder*. New York, Scribner. 287 pp.
- RITVO (H.), 1997: The Platypus and the Mermaid and other figments of the classifying imagination. Cambridge, Harvard UP. 288 pp.
- SCHAMA (S.), 1995: *Landscape & memory*. London, HarperCollins/Fontana.
- SCHULTZ (P.W.), SHRIVER (C.), TABANICO (J.J.) & KHAZIAN (A.M.), 2003: Implicit connections with nature. *J. Env. Psychol.* 24: 31-42.
- SOULÉ (M.E.) & LEASE (G.) (eds.), 1995: Reinventing nature? Responses to postmodern deconstruction. Washington DC, Island Press.
- STERBA (J.P.), 1995: From biocentric individualism to biocentric pluralism. *Env. Ethics* 17(2): 191-207.
- TURNER (J.), 1996: *The abstract wild*. Tucson, Univ. of Arizona Press.
- VAN KOPPEN (K.), VAN DER HOEK (D.), LEEMEIJER (A.M.), STORTENBEKER (C.W.) & BONGERS (W.) (red.), 1985: Natuur en mens. Visies op natuurbeheer vanuit levensbeschouwing, wetenschap en politiek. [*Nature and humans. Views on nature conservation management from philosophy, science and politics*.] Wageningen, Pudoc. 148 pp.
- WOODROFFE (R.), THIRGOOD (S.) & RABINOWITZ (A.) (eds.), 2005: People and wildlife: conflict or coexistence. Cambridge, Cambridge UP. 497 pp.
- ZUCCHI (H.) & STEGMANN (P.) (Hrsg.), 2007: Wagnis Wildnis. Wildnisentwicklung und Wildnisbildung in Mitteleuropa. [*The risky business of wilderness. Wilderness development and wilderness education in Central Europe*.] München, Oekom. 169 pp.
- ZWEERS (W.), 1995: Participeren aan de natuur. Ontwerp voor een ecologisering van het wereldbeeld. [*Participating in nature. Draft for a ecological world view*.] Utrecht, Van Arkel. 518 pp.

BACKGROUND & FURTHER READING: GENERAL ATTITUDES TO ANIMALS

- ANGIER (N.), 2006: The cute factor. *The New York Times*, 3 Jan 2006.
<http://www.nytimes.com/2006/01/03/science/03cute.html>
- BART (W.M.), 1972: A hierarchy among attitudes toward animals. *J. Env. Educ.* 3: 4-6.
- BELL (B.F.), 1981: When is an animal, not an animal? *J. Biol. Educ.* 15(3): 213-18.
- BELL (B.) & BARKER (M.), 1982: Towards a scientific concept of “animal”. *J. Biol. Educ.* 16(3): 197-200.
- BENTRUPPERBÄUMER (J.), 2004: Human dimensions of wildlife interaction. In: NEWSOME (D.), DOWLING (R.) & MOORE (S.) (eds.): *Wildlife tourism*. Clevedon, Channel View Publications: 82-112.
- BJERKE (T.) & ØSTDAHL (T.), 2004: Animal-related attitudes and activities in an urban population. *Anthrozoös* 17: 109-29. Abstract: <http://www.ingentaconnect.com/content/berg/anthroz/2004/00000017/00000002/art00002>
- BJERKE (T.), ØSTDAHL (T.) & KLEIVEN (J.), 2003: Attitudes and activities related to urban wildlife: pet owners and nonowners. *Anthrozoös* 16: 252-62.
Abstract: <http://www.ingentaconnect.com/content/berg/anthroz/2003/00000016/00000003/art00005>
- BRYANT (C.D.), 1979: The zoological connection: animal-related human behavior. *Social Forces* 58: Abstract:
<http://www.questia.com/googleScholar.qst;jsessionid=LDJdQL4gJNgQ11GGGw5Pnk4gHnJkbcRfGL1n8Nxd1nLZrnjNyw5t!-797993493!-39901454?docId=95797692>

- CANETTI (E.), 2002: Über Tiere. [On animals.] München/Wien, Hanser. 119 pp.
- CAZAUX (G.) (red.), 2001: Mensen en andere dieren: hun onderlinge relaties meervoudig bekeken. [Humans and other animals: a multi-faceted look at their mutual relationships.] Leuven, Garant. 391 pp.
- DESMET (J.), 1994: Moeder natuur naakt! Over de schone schijn van onze natuur- en dierenliefde. [Mother Nature naked! Keeping up appearances on our love for nature and animals.] Leuven/Utrecht, Kritak/Van Arkel. 272 pp.
- DURHAM (M.), 1982: Public attitudes, knowledge and behavior toward animals: a three-year study by Dr. Stephen Kellert. Newsletter IZE 8: 6-7.
- FOLEY (D.), 1992: Animals and attitudes. IZE J. 25: 25-26.
- FRANKLIN (A.), 1999: Animals and modern cultures: a sociology of human-animal relations in Modernity. London, Sage.
- FUDGE (E.), 1999: Perceiving animals. London, Macmillan.
- FUDGE (E.), 2002: Animal. London, Reaktion Books.
- HELTON (W.S.) & HELTON (N.D.), 2005: Changing animal and environmental attitudes with evidence of animal minds. Applied Env. Educ. & Communication 4(4): 317-23.
Abstract: <http://www.informaworld.com/smp/content~db=all~content=a725773805>
- HERZOG (H.A.) & BURGHARDT (G.M.), 1988: Attitudes toward animals: Origins and diversity. Anthrozoös 1: 214-22.
- HERZOG (H.A.) & BURGHARDT (G.M.), 1988: Attitudes toward animals: Origins and diversity. In: ROWAN (A.R.) (ed.): Animals and people sharing the world. Hanover, UP of New England.
- INGOLD (T.) (ed.), 1988: What is an animal? London, Unwin Hyman.
- KALOF (L.), 2000: The multi-layered discourses of animal concern. In: ADDAMS (H.) & PROOPS (J.) (eds.): Social discourse and environmental policy. London, Edward Elgar: 174-95.
- KATCHER (A.) & WIILKINS (G.), 1993: Dialogue with animals: its nature and culture. In: KELLERT (S.R.) & WILSON (E.O.) (eds.): The biophilia hypothesis. Washington DC, Island Press: 173-200.
- LASSITER (U.), 2002: Le contexte spatial de l'authenticité des animaux. [The spatial context of animal authenticity.] In: STASZAK (J.-F.) (ed.): Espaces et Sociétés 110/111:
Abstract: <http://www.espacestetsocietes.msh-paris.fr/110111/resumes.html#r2>
- MORRIS (D.), 1991: Animal contract. London, Virgin Books. 144 pp.
- NOSKE (B.), 1989: Humans and other animals: Beyond the boundaries of anthropology. London, Pluto.
- NOSKE (B.), 1995: Het dier in ons milieubewustzijn. [Animals in our environmental consciousness.] De Gids 158: 212-16.
- OPINION LEADER RESEARCH, 1997: Animals make the world go round: a national survey of young people's attitudes to animals and conservation. London, ZSL.
- PALMER (C.), 2001: Taming the wild profusion of existing things? A study of Foucault, power, and human/animal relationships. Env. Ethics 23(4): 339-58.
- PALMER (C.), 2003: Colonization, urbanization, and animals. Philosophy & Geography 6(1): 47-58.
- PERESHKOLONIK (S.L.), 1990: Big city dwellers and wild animals: perception in the zoo and at lectures. IZE J. 24: 58-59.

PLOUS (S.), 1993: The role of animals in human society. *J. Social Issues* 49: 11-52.

RIVALS (C.), 1989: L'animal et les sciences humaines et sociales. [*Animals and humanities and social sciences.*] In: COURET (A.) & OGE (F.) (ed.): *Histoire et animal. Homme, animal, société, III. [History and animals. Human, animal, society, III.]* Toulouse:

ROTHSCHILD (M.), 1986: *Animals and Man*. Oxford, Clarendon Press.

SAUNDERS (N.J.), 1995: *Animal spirits*. London, Duncan Baird. 184 pp.

SERPELL (J.), 1996: In the company of animals. A study of human-animal relationships. Cambridge, Canto/Cambridge UP. 283 pp.

SHEPARD (P.), 1996: The others: how animals made us human. Washington DC, Island Press.

STASZAK (J.-F.), 2002: Présentation. La place de l'animal. [*The place of the animal.*] In: STASZAK (J.-F.) (ed.): *Espaces et Sociétés* 110/111: <http://www.espacestetsocietes.msh-paris.fr/110111/intro.html>

SZASZ (K.), 1968: *Petishism: pets and their people in the Western world*. London, Hutchinson.

TAYLOR (N.) & SIGNAL (T.D.), 2009: Pet, pest, profit: isolating differences in attitudes towards the treatment of animals. *Anthrozoös* 22(2): 129-35.

TUAN (Y.-F.), 2004: Dominance and affection: the making of pets. New Haven, Yale UP. 208 pp.

VAN DER STRAETEN (E.), 2001: De mens en uit het wild afkomstige dieren. [*Humans and wild animals.*] In: CAZAUX (G.) (red.): *Mensen en andere dieren: hun onderlinge relaties meervoudig bekennen. [Humans and other animals: a multi-faceted look at their mutual relationships.]* Leuven, Garant: 165-80.

VINING (J.), 2003: The connection to other animals and caring for nature. *Human Ecology Review* 10(2): 87-99.

WAIBLINGER (S.), BOIVIN (X.), PEDERSEN (V.), TOSI (M.-V.), JANCZAK (A.M.), VISSER (E.K.) & JONES (R.B.), 2006: Assessing the human-animal relationship in farmed species: a critical review. *Appl. Animal Behav. Sci.* 75: 75-85.

WILSON (E.O.), 1998: *Consilience: the unity of knowledge*. London, Abacus.

WOLCH (J.) & ETEL (J.) (eds.), 1998: *Animal geographies: place, politics, and identity in the nature-culture borderlands*. London, Verso: 45.

BACKGROUND & FURTHER READING: ATTITUDES TO WILDLIFE, NATURE AND ANIMALS – ANTHROPOLOGICAL AND CULTURAL ASPECTS – GENERAL SELECTIVE BIBLIOGRAPHY

[Note: for reasons of brevity, this bibliography does not include the many anthropological, ethnological and ethnographical studies on “in situ” human-animal relations in various specific animistic, archaic or tribal societies or cultures.]

BOWEN-JONES (E.) & ENTWISTLE (A.), 2002: Identifying appropriate flagship species: the importance of culture and local contexts. *Oryx* 36(2): 189-95.

BURKERT (W.), 1998: *Creation of the Sacred: tracks of biology in early religions*. Cambridge, Harvard UP. 255 pp.

CURTIS (G.) & HALL (P.), 1993: Interpretation in the wild – an aboriginal perspective. *IZE J.* 29: 168-71.

DESCOLA (P.) & PÁLSSON (G.), 1996 : *Nature and society. Anthropological perspectives*. New York/London, Routledge.

GOLDSCHMIDT (T.), 2007: *Kloten van de engel. Beschouwingen over de natuurlijkheid van cultuur. [Balls of the angel. Reflections on the naturalness of culture.]* Amsterdam, Athenaeum-Polak & Van Gennep. 212 pp.

- HARRIS (M.), 1997: Culture, people, nature. 7th edn. Harlow, Longman.
- HELLBUSCH (S.), BAUMANN (H.) & DERUNGS (K.), 1998 : Tier und Totem : Naturverbundenheit in archaischen Kulturen. [Animal and totem : connections with nature in archaic cultures.] Bern, Amalia.
- HOOD (S.), FRIERSON (H.) & HOPSON (R.) (eds.), 2004: The role of culture and cultural context in evaluation: a mandate for inclusion, the discovery of truth and understanding. Charlotte, Information Age Publishing. 235 pp.
- JARDINE (N.) et al (eds.), 1996: Cultures of natural history. Cambridge, Cambridge UP.
- KAHN Jr (P.H.), 1999: The human relationship with nature: development and culture. Cambridge, MIT Press.
- KATCHER (A.) & WILKINS (G.), 1993: Dialogue with nature: its nature and culture. In: KELLERT (S.R.) & WILSON (E.O.) (eds.): The biophilia hypothesis. Washington DC, Island Press: 173-199.
- KNIGHT (J.) (ed.), 2003: People-wildlife conflicts in anthropological perspective. London/New York,
- MULLIN (M.H.), 1999: Mirrors and windows: sociocultural studies of human-animal relationships. Ann. Review Anthropology 28: 201-24.
- OGBU (J.), 1995: The influence of culture in learning and behavior. In: FALK (J.H.) & DIERKING (L.D.) (eds.): Public institutions for personal learning: establishing a research agenda. Washington DC, AAM: 79-96.
- ORLOVE (B.S.) & BRUSH (S.B.), 1996: Anthropology and the conservation of biodiversity. Ann. Review of Anthropology 25: 329-52.
- PASSARIELLO (P.), 1999: Me and my totem: cross-cultural attitudes towards animals. In: DOLINS (F.) (ed.): Attitudes to animals. Views in animal welfare. Cambridge, Cambridge UP: 12-25.
- REVELL (G.), 1989: Cross-cultural comparison of landscape scenic beauty evaluations. J. Env. Psych. 9: 177-91.
- SPOEHR (A.), 1956: Cultural differences in the interpretation of natural resources. In: THOMAS (W.L.) (ed.): Man's role in changing the face of the earth. Chicago, Univ. of Chicago Press: 93-102.
- TUAN (Y.), 1993: Passing strange and wonderful: aesthetics, nature, and culture. Washington DC, Island Press. 304 pp.
- WAAK (P.) & STROM (K.) (eds.), 1992 : Sharing the Earth : cross-cultural experiences in population, wildlife, and the environment. New York, Nat'l Audubon Soc.
- WEBB (R.C.), 1997: Comparing high-involved and low-involved visitors: a review of te consumer behavior literature. In: WELLS (M.) & LOOMIS (R.) (eds.), 1997: Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA: 276-87.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4g6-a_5730.pdf
- WIERZBICKA (A.), 1999: Emotions across languages and cultures: diversity and universals. Cambridge, Cambridge UP.
- WILHELM (S.A.) & SCHNEIDER (I.E.), 2005: Diverse urban youth's nature: implications for environmental education. Appl. Env. Educ. & Communication 4(2): 103-13.
Abstract: <http://www.informaworld.com/smpp/content~db=all~content=a713872260>
- WILLIAMS (R.), 1980: Ideas of nature. In: Problems in Materialism and Culture. London, Verso: 67-85.

BACKGROUND & FURTHER READING: AFRICAN ATTITUDES TO WILDLIFE, NATURE AND ANIMALS

- ALI (I.M.), 2006: An anthropocentric approach to saving biodiversity: Kenyan pupils' attitudes towards parks and wildlife. Applied Env. Educ. & Communication 5(1): 21-32.
Abstract: <http://www.informaworld.com/smpp/content~db=all~content=a737738925>

- ALI (J.), 2002: Kenyan children's ideas about parks and wildlife. Env. Educ. Res. 8: 439-62.
- JONES (J.P.G.), ANDRIAMAROVOLOLONA (M.M.) & HOCKLEY (N.), 2008: The importance of taboos and social norms to conservation in Madagascar. Conservation Biology 22: 976-86.
- ROMAÑACH (S.S.), LINDSEY (P.A.) & WOODROFFE (R.), 2007: Determinants of attitudes towards predators in central Kenya and suggestions for increasing tolerance in livestock dominated landscapes. Oryx 41(2): 185-95.

BACKGROUND & FURTHER READING: ASIAN ATTITUDES TO WILDLIFE AND ANIMALS

- ASQUITH (P.J.), 1995: Of monkeys and men: cultural views in Japan and the West. In: CORBEY (R.) & THEUNISSEN (B.) (eds.): Ape, Man, Apeman. Changing views since 1600. Leiden, Leiden UP: 309-27.
- BAIRD CALLICOTT (J.) & AMES (R.T.) (eds.), 1989 : Nature in Asian traditions of thought : essays in environmental philosophy. Albany, SUNY. 335 pp.
- BORATAV (P.N.), 1958: Les histoires d'ours en Anatolie. [*Bear stories in Anatolia.*] Turcika 3-46.
- BRUUN (O.) & KALLAND (A.) (eds.), 1995 : Asian perceptions of nature. A critical approach. Richmond, Curzon. 276 pp.
- CHAPPLE (C.K.), 1993: Nonviolence to animals, earth and self in Asian traditions. Albany, SUNY Press. 146 pp.
- CHOUDHURY (A.R.), 1998: Attitudes to nature. In: BOWEN (P.) (ed.): Themes and issues in Hinduism. London/Washington DC, Cassell: 80-104.
- GRAPHARD (A.), 1985: Nature and culture in Japan. In: TOBIAS (M.) (ed.): Deep ecology. San Diego, Avant: 243.
- KELLERT (S.), 1991: Japanese perceptions of wildlife. Conservation Biology 5: 297-308.
- KIPLING (J.L.), 1892: Beast and Man in India: a popular sketch of Indian animals and their relations with the people. London, Macmillan. 368 pp.
- KREEMER (J.), 1956 : De karbouw. Zijn betekenis voor de volkeren van de Indonesische archipel. [*The water buffalo. Its significance for the peoples of the Indonesian archipelago.*] 's-Gravenhage, Van Hoeve. 283 pp.
- JENNS (D.), 2009: In the footsteps of our ancestors – establishing a sense of place. Wildlife Middle East 4(1): 5.
- NOR BIN NGAH (M.), 1985 : Islamic world-view of man, society and nature among the Malays in Malaysia. In : TAIB OSMAN (M.) (ed.) : Malaysian world-view. Singapore, Inst. of SE Asian Studies : 6-46.
- OHNUKI-TIERNY (E.), 1987: The monkey as mirror: symbolic transformations in Japanese history and ritual. Princeton, Princeton UP. 288 pp.
- PUAN (C.L.) & ZAKARIA (M.), 2007: Perception of visitors towards the role of zoos: a Malaysian perspective. Int. Zoo Yb. 41: 226-32.
- RINGIS (R.), 1996: Elephants in Thailand in myth, art, and reality. Kuala Lumpur, Oxford UP. 224 pp.
- SUKUMAR (R.), 1994: Wildlife-human conflict in India: an ecological and social perspective. In: GUHA (E.) (ed.): Social Ecology. New Delhi, Oxford UP:
- WARREN (W.) & AMRANAND (P.), 1998: The elephant in Thai life and legend. Bangkok, Monsoon. 242 pp.
- WATANABE (H.), 1973: The conception of nature in Japanese culture. Science 183: 279-82.
- WESTHOFF (V.), 1989 : Het natuurbeeld in schriftloze culturen en hoger ontwikkelde oosterse wereldbeschouwingen. [*Nature images in non written cultures and advanced oriental world views.*] In : ACHTERBERG (W.) (red.) : Natuur,

uitbuiting of respect? Natuurwaarden in discussie. [*Nature, exploitation or respect? Discussing nature values.*] Kampen, Kok-Agora: 177-98.

BACKGROUND & FURTHER READING: AUSTRALASIAN ATTITUDES TO WILDLIFE, NATURE AND ANIMALS

BENNETT (D.H.), 1983: Some aspects of Aboriginal and non-Aboriginal notions of responsibility to non-human animals. *Australian Aboriginal Studies* 1983(2):

BULBECK (C.), 1999: The nature dispositions of visitors to animal encounter sites in Australia and New Zealand. *The J. of Sociology* 35(2): 129-48.

DIAMOND (J.), 1993: New Guineans and their natural world. In: KELLERT (S.) & WILSON (E.O.) (eds.): *The Biophilia Hypothesis*. Washington DC, Island Press: 255-56.

BACKGROUND & FURTHER READING: EUROPEAN ATTITUDES TO WILDLIFE, NATURE AND ANIMALS

ANON., 2008: Wildlife is alien to a generation of indoor children.

http://www.nationaltrust.org.uk/main/w-global/w-news/w-latest_news/w-news-wildlife_alien.htm

BAUMANN (P.) & FINK (O.), 1979: Wie tierlieb sind die Deutschen? [*How much do Germans love animals?*] Frankfurt/M., Fischer. 222 pp.

BJERKE (T.), ODEGARDSTUEN (T.S.) & KALTENBORN (B.P.), 1998: Attitudes toward animals among Norwegian children and adolescents: species preferences. *Anthrozoös* 11: 227-35.

BÖGEHOLZ (S.), 2006: Nature experience and its importance for environmental knowledge, values and action: recent German empirical contributions. *Env. Educ. Res.* 12: 65-84.

BUIJS (A.E.), 2000: Natuurbeelden van de Nederlandse bevolking. [*Images/concepts of nature in the Dutch population.*] *Landschap* 17(2): 97-112.

BUIJS (A.) & FISCHER (A.), 2009: Wildlife value orientations across Europe. IHDP-Conf., Bonn, 28-30/4/2009. <http://edepot.wur.nl/15223>

DIGARD (J.-P.), 1999: *Les Français et leurs animaux.* [The French and their animals.] Paris, Fayard. 281 pp.

HARWOOD (D.), 2002: Love for animals and how it developed in Great Britain. Mellen Animal Rights Library 10. Lewiston, Mellen Press. 468 pp.

JOSEPH (J.), 2008: Common wildlife is alien to many British kids. *Reuters News Service.* <http://www.planetark.org/dailynewsstory.cfm?newsid=49244>

MACKENZIE (J.), 1998: The Empire of Nature: hunting, conservation and British imperialism. Manchester, Manchester UP. 340 pp.

MAUZ (I.), 2002: Les conceptions de la juste place des animaux dans les Alpes. [*Concepts on the right place of animals in the Alps.*] In: STASZAK (J.-F.) (ed.): *La place de l'animal. [The place of the animal.]* Espaces et Sociétés 110/111: Abstract: <http://www.espacesetsocietes.msh-paris.fr/110111/resumes.html#r2>

THOMAS (K.), 1983: Man and the natural world: changing attitudes in England, 1500-1800. London, Allen Lane. 425 pp.

TUNNICLIFFE (S.D.), GATT (S.), AGIUS (C.) & PIZZUTO (S.A.), 2008: Animals in the lives of young Maltese children. *Eurasia J. Mathematics, Sci. & Technology Educ.* 4(3): 215-21.

- **North American attitudes to wildlife**

ON-GOING AND UNPUBLISHED STUDIES :

BELDEN (N.), RUSSONELLO (J.) & STEWART (K.), 2002: Americans and biodiversity: perspectives in 2002. Washington DC, Belden and Russonello Research & Communications.

BACKGROUND & FURTHER READING: NORTH AMERICAN ATTITUDES TO WILDLIFE

BRIGHT (A.), MANFREDO (M.J.) & FULTON (D.), 2000: Segmenting the public: an application of value orientations to wildlife planning in Colorado. *Wildlife Soc. Bulletin* 28(1): 218-26.

DECKER (D.J.), BROWN (T.L.) & SIEMER (W.F.) (eds.), 2001: Human dimensions of wildlife in North America. Bethesda, Wildlife Soc.

DECKER (D.J.), BROWN (T.L.) & SIEMER (W.F.), 2001: Evolution of people-wildlife relations. In: DECKER (D.J.), BROWN (T.L.) & SIEMER (W.F.) (eds.): Human dimensions of wildlife in North America. Bethesda, Wildlife Soc.: 3-22.

FEDERAL-PROVINCIAL TASK FORCE ON THE IMPORTANCE OF NATURE TO CANADIANS, 1999: The importance of nature to Canadians. Survey highlights. www.ec.gc.ca/nature/highlite.html.

GILLESPIE (A.K.) & MECHLING (J.) (eds.), 1987: American wildlife in symbol and story. Knoxville, Univ. of Tennessee Press. 262 pp.

HOAGE (R.J.) (ed.), 1989: Perceptions of animals in American culture. Washington DC, Smithsonian Inst. Press. 151 pp.

KELLERT (S.R.), 1980: American attitudes toward and knowledge of animals: an update. *Int'l J. Study Animal Problems* 1(2): 87-119.

KELLERT (S.), 1984: Urban American perceptions of animals and the natural environment. *Urban Ecology* 8: 209-28.

KELLERT (S.R.), 1989: Perceptions of animals in America. In: HOAGE (R.J.) (ed.): Perceptions of animals in American culture. Washington DC, Smithsonian Inst. Press: 5-24.

KELLERT (S.R.) & WESTERVELT (M.O.), 1985: Historical trends in American animal use and perception. *Int'l J. Study Animal Problems* 4(2): 133-45.

KRECH III (S.), 1999 : The ecological Indian. Myth and history. New York/London, W.W. Norton. 320 pp.

LAWRENCE (E.A.), 1986: Neoteny in American perceptions of animals. *J. of Psychoanalytic Anthropol.* 9(1): 41-54.

LUTTS (R.H.), 1992: The trouble with Bambi: Walt Disney's Bambi and the American vision of nature. *Forest & Conservation History* 36: 160-71.

MIGHETTO (L.), 1991: Wild animals and American environmental ethics. Tucson, Univ. of Arizona. 177 pp.

MITMAN (G.), 2009: Reel nature. 2nd edn. America's romance with wildlife on film. Seattle, Univ. of Washington DC Press. 320 pp.

NASH (R.), 2001: Wilderness and the American mind. 4th edn. New Haven, Yale UP. 426 pp.

NATIONAL PARK SERVICE, 2001: The National Park Service comprehensive survey of the American public. Washington DC, NPS. <http://www.nature.nps.gov/socialscience/pdf/NatSurvTechRep.pdf>

PETULLA (J.M.), 1980: Historic values affecting wildlife in American society. In: SHAW (W.W.) & ZUBE (E.H.)

(eds.): Wildlife values. Institutional Series Report No. 1. Tucson, Univ. of Arizona, Tucson: Ctr for Assessment of Noncommodity Resource Values: 23-30.

RICKARDS BETTS (J.), 1959: P.T. Barnum and the popularization of natural history. *J. History Ideas* 20: 353-68.

ROCKWELL (D.), 1991: Giving voice to Bear. North American Indian rituals, myths, and images of the bear. Niwot, Roberts Rinehart. 248 pp.

SMALLWOOD (W.M.), 1967: Natural history and the American mind. New York, AMS Press. 445 pp.

WILSON (A.), 1992: The culture of nature: North American landscape from Disney to the Exxon Valdez. Cambridge, Blackwell. 335 pp.

BACKGROUND & FURTHER READING: ATTITUDES TO WILDLIFE, NATURE AND ANIMALS IN IMMIGRANT AND ETHNIC/MINORITY COMMUNITIES

BUIJS (A.E.), 2008: Immigrants between two cultures: social representations, theory and images of nature. In: DE HAAN (H.J.) & VAN DER DUIM (V.R.) (eds.): Landscape, leisure and tourism. Socio-spatial studies in experiences, practices and policies. Delft, Eburon:

BUIJS (A.E.) & DE WITT (A.), 2007: Kleurrijke natuur: de natuurbeleving van nieuwe Nederlanders. [*Colourful nature: nature experiences of immigrants to The Netherlands.*] *Vakblad Natuur Bos Landschap* 4(10): 2-5.

BUIJS (A.E.), ELANDS (B.H.M.) & LANGERS (F.), 2008: No wilderness for immigrants: cultural differences in images of nature and landscape preferences. *Landscape & Urban Planning* 91(3): 113-23. Abstract:
http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V91-4VF0XNN-2&_user=10&_coverDate=06%2F30%2F2009&_rdoc=1&_fmt=high&_orig=search&_sort=d&_docanchor=&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=6ea2cc0275f6430d3d5560f2ab2b197f

MEEKER (J.W.), 1992: Red, white, and black in national parks. In: MACHLIS (G.) & FIELD (D.) (eds.): On interpretation. Rev. ed. Corvallis, Oregon State UP: 127-37.

SANDELL (R.), 2007: Museums, prejudice, and the framing of difference. New York, Routledge.

VAN HAMERSVELD (I.) (red.), 1998: Nieuwe Nederlanders en musea. [*Dutch nationals of foreign origin and museums.*] Amsterdam, Boekmanstudies/Mondriaan Stichting.

VERRELST (C.) & BRUYLAND (K.), 2009: Hoe ga je aan de slag met allochtone jongeren. Vlaamse NME-dag, 20 okt. 2009, Brussel. [*How to start working with immigrant youth. Flemish Environmental education day, Oct. 20, 2009, Brussels.*]

• Anthropomorphism

SERVAIS (V.), 2010: Dialogues avec les singes: l'anthropomorphisme comme mode de relation dans les rencontres entre visiteurs et primates en zoo. [*Dialogues with the monkeys: anthropomorphism as modus in encounters between visitors and primates in zoos.*] In: JOULIAN (F.) (réd.): Hommes et Primates en perspective. [*Humans and Primates in perspective.*]

ON-GOING AND UNPUBLISHED STUDIES :

SMITH (A.), 2010: A call to action? The merits of using flagship species and anthropomorphism. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 15.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: ANTHROPOMORPHISM

- CRIST (E.), 1999: Images of animals: anthropomorphism and animal mind. Philadelphia, Temple UP.
- HOGAN (H.W.), 1980: Factors associated with the attribution of human traits to nonhumans. *J. Soc. Psych.*
- KENNEDY (J.S.), 1992: The new anthropomorphism. Cambridge, Cambridge UP.
- KORTHALS (M.), 1998: Antropomorfisme: een ondeugd in de dierwetenschappen? [Anthropomorphism: a vice to the animal sciences?] *Kennis & Methode* XXII (3): 293-309.
- LINDAHL-ELLIOT (N.), 2001: Signs of anthropomorphism: the case of natural history documentaries. *Social Semiotics* 11: 289-305.
- PINCHIN (A.), 1992: Anthropomorphism: science and humanity. *Int. Zoo News* 239: 3-7.
- SAYERS (B.), 1996: Anthropomorphism, egg pulling and hand-rearing. *Tyto* 1(5): 147-53.
- SERPELL (J.A.), 2003: Anthropomorphism and anthropomorphic selection – beyond the “cute response”. *Society & Animals* 11(1): 83-101.

BACKGROUND & FURTHER READING: WILDLIFE, NATURE AND ANIMALS IN ART AND POPULAR CULTURE

- CLARK (K.), 1977: Animals and Men. Their relationship as reflected in Western art from prehistory to the present day. London/New York, Thames and Hudson/Morrow. 240 pp.
- DESMET (J.), 1996: Kijk eens naar het vogeltje. Dierenliefde in de fotografie. [Watch the birdie. Animal love in photography.] Leuven, Van Halewyck. 144 pp.
- DUVE (K.) & VÖLKER (T.), 1999: Lexikon der berühmten Tiere. Von Alf und Donald Duck bis Pu der Bär und Leda Schwan. [Lexicon of famous animals. From Alf and Donald Duck to Pooh the Bear and Leda's swan.] München/Zürich, Piper. 750 pp.
- IDEMA (W.L.), SCHIPPER (M.) & SCHRIJVERS (P.H.) (red.), 1993 : Mijn naam is haas. Dierenverhalen in verschillende culturen. [Animal stories in different cultures.] Baarn, Ambo.
- MALAMUD (R.) (ed.), 2007: A cultural history of animals in the modern age. A cultural history of animals, Vol.6. Oxford, Berg.
- MALAMUD (R.), 2007: Introduction: famous animals in modern culture. In: MALAMUD (R.) (ed.): A cultural history of animals in the modern age. A cultural history of animals, Vol. 6. Oxford, Berg.
- ROLSTON III (H.), 1987: Beauty and the Beast: aesthetic experience of wildlife. In: DECKER (D.J.) & GOFF (G.R.) (eds.): Valuing wildlife: economic and social perspectives. Boulder, Westview Press: 187-96.

BACKGROUND & FURTHER READING: BIOPHILIA

- KELLERT (S.R.), 1997: Kinship to mastery: biophilia in human evolution and development. Washington DC, Island Press.
- KELLERT (S.R.) & WILSON (E.O.) (eds.), 1993: The biophilia hypothesis. Washington DC, Island Press.
- ULRICH (R.S.), 1993: Biophilia, biophobia, and natural landscapes. In: KELLERT (S.R.) & WILSON (E.O.) (eds.), 1993: The biophilia hypothesis. Washington DC, Island Press.
- VAN DEN BORN (R.J.G.), LENDERS (R.H.J.), DE GROOT (W.T.) & HUIJSMAN (E.), 2001: The new biophilia: an

exploration of visions of nature in Western countries. Env. Conservation 28(1): 65-75.
Abstract: <http://J.s.cambridge.org/action/displayAbstract?fromPage=online&aid=74419>

WILSON (E.O.), 1984: Biophilia. The human bond with other species. Cambridge, Harvard UP.

WILSON (E.O.), 1993: Biophilia and the conservation ethic. In: KELLERT (S.R.) & WILSON (E.O.) (eds.): The biophilia hypothesis. Washington DC, Island Press: 39.

BACKGROUND & FURTHER READING: ECOLOGY OF MIND

BATESON (G.), 1972: Steps to an ecology of mind. New York, Ballantine Books.

BATESON (G.), 1988: A sacred unity: further steps to an ecology of mind. New York, HarperCollins.

BACKGROUND & FURTHER READING: ETHICAL AND MORAL ATTITUDES TO WILDLIFE, NATURE, ANIMALS AND ANIMAL WELFARE

BROWN (P.J.) & MANFREDO (M.J.), 1987: Social values defined. In: DECKER (D.J.) & GOFF (G.R.) (eds.): Valuing wildlife: economic and social perspectives. Boulder, Westview Press.

CALLICOTT (J.B.), 1986: On the intrinsic value of nonhuman species. In: NORTON (B.G.) (ed.): The preservation of species: The value of biological diversity. Princeton, Princeton UP: 138-72.

CLARK (S.R.L.), 1987: Animals, ecosystems and the liberal ethic. Monist 70: 114-33.

GODLOVITCH (S.), GODLOVITCH (R.) & HARRIS (J.), 1973: Animals, men and morals. London/New York, Gollancz/Taplinger.

GUNN (A.S.), 1980: Why should we care about rare species? Env. Ethics 2: 17-37.

ISENBERG (A.C.), 2002: The moral ecology of wildlife. In: ROTHFELS (N.) (ed.): Representing animals. Theories of Contemporary Culture, vol. 26. Bloomington/Indianapolis, Indiana UP: 48-64.

KELLERT (S.R.), 1993: The biological basis for human values of nature. In: KELLERT (S.R.) & WILSON (E.O.) (eds.), 1993: The biophilia hypothesis. Washington DC, Island Press.

KELLERT (S.R.), 1996: The value of life: biological diversity and human society. 1st edn. Washington DC, Island Press. 282 pp.

MIDGLEY (M.), 1973: The concept of beastliness: philosophy, ethics and animal behavior. Philosophy 48: 114.

MIDGLEY (M.), 1983: Animals and why they matter. Harmondsworth, Penguin. 160 pp.

MILLER (P.), 2003: Re-educating people's perceptions on the care of native injured and orphaned wildlife. Thylacinus 27(1): 14-15.

O'NEIL (R.), 1997: Intrinsic value, moral standing and species. Env. Ethics 19(1): 45-52.

SIGNAL (T.D.) & TAYLOR (N.), 2006: Attitudes to animals in the animal protection community compared to a normative community sample. Society and Animals 14: 265-74.

VOLLUM (S.), BUFFINGTON-VOLLUM (J.) & LONGMIRE (D.R.), 2004: Moral disengagement and attitudes toward animals. Society & Animals 12: 209-35.

WESTHOFF (V.), 1985: De verantwoordelijkheid van de mens jegens de natuur. [The responsibility of humans towards nature.] In: VAN KOPPEN (K.), VAN DER HOEK (D.), LEEMEIJER (A.M.), STORTENBEKER (C.W.) & BONGERS (W.) (red.): Natuur en mens. Visies op natuurbeheer vanuit levensbeschouwing, wetenschap en politiek.

[*Nature and humans. Views on nature conservation management from philosophy, science and politics.*] Wageningen, Pudoc: 4-22.

BACKGROUND & FURTHER READING: ATTITUDES ON MORTALITY IN ANIMALS

- BENBOW (M.), 2004: Death and dying in the zoo. *J. of Popular Culture* 37: 379-98.
- HUTCHINS (M.), 2006: Death at the zoo: the media, science, and reality. *Zoo Biology* 25(2): 101-15.
- KAUFMAN MILSTEIN (K.), 1996: A zoo tragedy: grieving for our fellow primates. *Anthrozoös* 9(4): 153-57.
- KNOWLES (J.M.), 1978: No spoils for Victor. *Animal Kingdom*, Aug./Sep. 1978: 4-7.
- JULIN (H.) (workshop leader), 1999: Can the public accept euthanasia? In: *Marketing zoos beyond 2000*. 2nd Int'l Zoo Mktg Conf., Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 69.
- LAMARCA (L.), 1983: From happy birthday to euthanasia. *AAZPA 1983 Ann. Proc.*: 109-13.
- MILSTEIN (K.), 1996: A zoo tragedy: grieving for our fellow primates. *Anthrozoös* 9: 153-57.
- ROESNER (C.), 2009: A public relations professional's look at geriatric animals and euthanasia. *Animal Keepers' Forum* 36(4/5): 193-95.
- WALSHAW (S.O.), 1997: Animal death and human emotion in the zoo. Proc., *AAZK 23rd Nat'l Conf.* Topeka, AAZK : 68-71.

BACKGROUND & FURTHER READING: ATTITUDES TO WILDLIFE, NATURE AND ANIMALS – HISTORICAL PERSPECTIVE

- BODSON (L.) (ed.), 1998: Les animaux exotiques dans les relations internationales. [*Exotic animals in international relations.*] Liège, ULg.
- BOEHRER (B.) (ed.), 2007: A cultural history of animals in the Renaissance. A cultural history of animals. Vol. 3. Oxford, Berg.
- BUCHNER (J.), 1996: Kultur mit Tieren. Zur Formierung des bürgerlichen Tierverständnisses im 19. Jahrhundert. [*Animal culture. On the formation of a middle class understanding of animals in the 19th Century.*] Münster, Waxmann. 274 pp.
- CARSON (G.), 1972: Men, beasts and gods. A history of cruelty and kindness to animals. New York,
- CROUZATIER (J.-M.), 1989: Ethologie et politique. [*Ethology and politics.*] In: COURET (A.) & OGE (F.) (ed.): *Histoire et animal. Homme, animal, société, III. [History and animals. Human, animal, society, III.]* Toulouse: 351-
- DAVIDS (K.), 1989: Dieren en Nederlanders. Zeven eeuwen lief en leed. [*Animals and the Dutch. Seven centuries for better or for worse.*] Utrecht, Matrijs.
- DEMBECK (H.), 1965: Animals and Man: an informal history of the animal as prey, as servant, as companion. [*Translation by R. & C. Winston of Mit Tieren leben, Düsseldorf/Wien, Econ, 1961.*] London/Garden City, Nelson/Natural History Press. 432 pp.
- DENENHOLZ MORSE (D.) & DANAHAY (M.A.), 2007 (eds.): Victorian animal dreams (The Nineteenth Century). Amdershot, Ashgate. 240 pp.
- DESSE (J.) & AUDOIN-ROUZEAU (F.) (dir.), 1993: Exploitation des animaux sauvages à travers le temps. [*Wild animal exploitation throughout history.*] Juan-les-Pins, APDCA.
- DINZELBACHER (P.) (Hrsg.), 2000: Mensch und Tier in der Geschichte Europas. [*Humans and animals in Europe's*

history.] Stuttgart, Kröner. 670 pp.

EHALT (H.C.), 1993: Mensch-Tier-Beziehungen. [*Human-animal relations.*] Beiträge zur hist. Sozialkunde 23: 4-8.

FAURE (E.) & KITCHENER (A.C.), 2009: An archaeological and historical review of the relationships between Felids and people. Anthrozoös 22(3): 221-38.

GAUTIER (A.), 1988: Het dier in het oog van de mens: eet- en dienstbaarheid. In: Van dieren en mensen. Getuigenissen uit prehistorie en oudheid. [*Animals in the eye of humans: edibility and subservience. In: Of animals and humans. Testimonials from Prehistory and Antiquity.*] Gent, Gemeentekrediet: 13-54.

HENNINGER-VOSS (M.) (ed.), 2002: Animals in human histories: the mirror of nature and culture. Rochester, Univ. of Rochester Press. 484 pp.

INGOLD (T.), 1994 : From trust to domination : an alternative history of human-animal relations. In : MANNING (A.) & SERPELL (J.) (eds.) : Animals and human society. Changing perspectives. London/New York, Routledge : 1-23.

KALOF (L.) (ed.), 2007: A cultural history of animals in Antiquity. A cultural history of animals. Vol. 1. Oxford, Berg.

KALOF (L.) & RESL (B.) (eds.), 2007: A cultural history of animals. Vols 1-6. Oxford, Berg. 1536 pp.

KETE (K.) (ed.), 2007: A cultural history of animals in the Age of Empire. A cultural history of animals. Vol. 5. Oxford, Berg.

MASON (J.), 2007: Animals: from souls and the sacred in Prehistoric times to symbols and slaves in Antiquity. In: KALOF (L.) (ed.): A cultural history of animals in Antiquity. A cultural history of animals. Vol. 1. Oxford, Berg.

MEYER (H.), 2000: 19./20. Jahrhundert. [*19th/20th Century.*] In : DINZELBACHER (P.) (Hrsg.): Mensch und Tier in der Geschichte Europas. [*Humans and animals in Europe's history.*] Stuttgart, Kröner : 404-568.

MÜNCH (P.) (Hrsg.), 1998: Tiere und Menschen. Geschichte und Aktualität eines prekären Verhältnisses. [*Animals and humans. History and current state of affairs of a precarious relationship.*] Paderborn, Schöningh. 462 pp.

OELSCHLAGER (M.), 1991: The idea of wilderness: from Prehistory to the Age of Ecology. New Haven, Yale UP.

POLEY (D.), 1994: Vom Höhlenbär zum Batteriehuhn – zur Geschichte der Mensch-Tier-Beziehung. [*From cave bear to battery hen – the history of human-animal-relations.*] Milu 8(2): 177-80.

RESL (B.) (ed.), 2007: A cultural history of animals in the Medieval age. A cultural history of animals. Vol. 2. Oxford, Berg.

SCHWABE (C.), 1994: Animals in the ancient world. In: MANNING (A.) & SERPELL (J.) (eds.): Animals and human society. London, Routledge: 36-58.

SENIOR (M.) (ed.), 2007: A cultural history of animals in the age of enlightenment. A cultural history of animals. Vol. 4. Oxford, Berg.

ULLRICH (J.), WELTZIEN (F.) & FUHLBRÜGGE (H.) (Hrsg.), 2008: Ich, des Tier. Tiere als Persönlichkeiten in der Kulturgeschichte. [*Me, the animal. Animals as personalities in cultural history.*] Berlin,

BACKGROUND & FURTHER READING:

WILDLIFE, NATURE AND ANIMALS IN MYTHOLOGY, RELIGION, SYMBOLISM AND FOLKLORE - GENERAL

BACHOFEN (J.J.), 1863: Der Baer in den Religionen des Alterthums. [*The bear in the religions of Antiquity.*] Basel,

BIEDERMANN (H.), 1989: Knaurs Lexikon der Symbole. [*Knaur's lexicon of symbols.*] München, Knaur. 818 pp.

BOBBÉ (S.), 2002: L'ours et le loup. Essai d'anthropologie symbolique. [*Bear and wolf. Essay in symbolic anthropology.*] Paris,

- COHEN (E.), 1986: Law, folklore and animal lore. *Past & Present* 110: 6-37.
- COLDING (J.) & FOLKE (C.), 1997: The relations among threatened species, their protection, and taboos. *Ecology & Society* 1: 1-13.
- COOPER (J.C.), 1992: Symbolic and mythological animals. London, Aquarian Press.
- COSTENTINO (D.J.), 1992: Elephant as metaphor in African myth and folklore. In: ROSS (D.H.) (ed.): Elephants: the animal and its ivory in African culture. Los Angeles, Fowler Museum of Cult. History/Univ. of California :
- DAVY (M.-M.), 1998: L'oiseau et sa symbolique. Paris,
- DESCOLA (P.), 1996 : Constructing natures : symbolic ecology and social practice. In : DESCOLA (P.) & PÁLSSON (G.) (eds.) : Nature and society. Anthropological perspectives. New York/London, Routledge : 82-102.
- DOUGLAS (M.), 1990 : The pangolin revisited : a new approach to animal symbolism. In : WILLIS (R.G.) (ed.) : Signifying animals. Human meaning in the natural world. London, Unwin Hyman : 25-36.
- GERLITZ (P.), 1998: Mensch und Natur in den Weltreligionen: Grundlagen einer Religionsökologie. [*Humans and nature in world religions: fundamentals of an ecology of religions.*] Darmstadt, Wissensch. Buchhandlung.
- IDEMA (W.L.), SCHIPPER (M.) & SCHRIJVERS (P.H.) (red.), 1993 : Mijn naam is haas. Dierenverhalen in verschillende culturen. [*Animal stories in different cultures.*] Baarn, Ambo.
- JUNG (C.G.), 1964: Man and his symbols. Garden City, Doubleday. 432 pp.
- KEENAN (S.), 2000: Gods, goddesses, and monsters: an encyclopaedia of world mythology. New York, Scholastic. 128 pp.
- LEWINSOHN (R.), 1954: Animals, men, and myths. An informative and entertaining history of man and the animals around him. London/New York, Harper/Gollancz.
- LÖFGREN (O.), 1985: Our friends in nature: class and animal symbolism. *Ethnos* 50(3-4): 184-213.
- MALAISE (M.), 1993: Les animaux dans la culture chinoise. Numéro spécial. [*Animals in Chinese culture. Special issue.*] *Anthropozoologica* 18.
- PAGE (S.), 2007: Animals in Medieval folklore and religion. In: RESL (B.) (ed.): A cultural history of animals in the Medieval age. A cultural history of animals. Vol. 2. Oxford, Berg.
- ROWLAND (B.), 1974: Animals with human faces: a guide to animal symbolism. Knoxville, Univ. of Tennessee Press. 172 pp.
- ROWLAND (B.), 1978: Birds with human souls: a guide to bird symbolism. Knoxville, Univ. of Tennessee Press. 213 pp.
- SAVILL (S.), 1977: Pears Encyclopedia of myths and legends: Western and Northern Europe, Central and Southern Africa. London, Pelham. 192 pp.
- SAVILL (S.) & LOCKE (E.), 1976: Pears Encyclopedia of myths and legends: Ancient Near and Middle East, Ancient Greece and Rome. London, Pelham. 224 pp.
- SAX (B.), 2007: The golden spider and her world-wide web: sacred and symbolic animals in the era of change. In: MALAMUD (R.) (ed.): A cultural history of animals in the modern age. A cultural history of animals, Vol. 6. Oxford, Berg.
- SILLAR (F.C.) & MEYLER (R.M.), 1961: The symbolic pig. London, Oliver and Boyd.
- URTON (G.) (ed.), 1985: Animal myths and metaphors in South America. Salt Lake City, Univ. of Utah Press.

VAJ (S.), 1989 ; L'éléphant. Art, histoire, symbolisme. [Translation by F. Brun of Elefante, Milano, Arnoldo Mondadori] Paris, Robert Laffont. 112 pp.

BACKGROUND & FURTHER READING : FOLK BIOLOGY

BERLIN (B.), 1992: Ethnobiological classification: principles of categorization of plants and animals in traditional societies. Princeton, Princeton UP.

MEDIN (D.L.) & ATRAN (S.) (eds.), 1999: Folkbiology. Cambridge, MIT Press. 514 pp.

POLING (D.A.) & EVANS (E.M.), 2004: Religious belief, scientific expertise, and folk ecology. J. Cognition & Culture 4(3): 485-524.

BACKGROUND & FURTHER READING: WILDLIFE, NATURE AND ANIMALS IN ISLAM

MASRI (A.-H.B.A.), 1987: Islamic concern for animals. Petersfield, Athene Trust.

MASRI (A.-H.B.A.), 1989: Animals in islam. Petersfield, Athene Trust.

BACKGROUND & FURTHER READING: NATURE EXPERIENCES

ARNOLDS (E.), 2000: Weg van de natuur. Leidraad voor natuurbeleving en natuurbeschouwing. [Nature's way. Guidelines for nature experiences and nature contemplation.] Utrecht, Jan van Arkel. 464 pp.

BÖGEHOLZ (S.), 1999: Qualitäten primärer Naturerfahrung und ihr Zusammenhang mit Umweltwissen und Umwelthandeln. [Qualities of primary nature experiences and their connection with environmental knowledge and pro-environmental behavior.] Opladen, Leske & Budrich.

BOERWINKEL (H.W.J.), 1985: Natuurbeleving, -waardering en -betrokkenheid: van deskundige produktanalyse naar participerende relatie-synthese. [Experiences of, appreciation for and involvement with nature: from specialist product analysis to participatory relationship synthesis.] In: VAN KOPPEN (K.), VAN DER HOEK (D.), LEEMEIJER (A.M.), STORTENBEKER (C.W.) & BONGERS (W.) (red.): Natuur en mens. Visies op natuurbeheer vanuit levensbeschouwing, wetenschap en politiek. [Nature and humans. Views on nature conservation management from philosophy, science and politics.] Wageningen, Pudoc: 57-68.

PYLE (R.M.), 2001: The rise and fall of natural history: how a science grew that eclipsed direct experience. Orion 20: 17-23.

BACKGROUND & FURTHER READING: NATURE IMAGES, PERCEPTION OF NATURE

BALLING (J.D.) & FALK (J.H.), 1982: Development of visual preference for natural environments. Environment and Behavior 14(1): 5-28.

BUIJS (A.E.), 2000: Natuurbeelden van de Nederlandse bevolking. [Nature images in the Dutch population.] Landschap 17(2): 97-112.

BUIJS (A.E.), 2009: Lay people's images of nature: comprehensive frameworks of values, beliefs, and value orientations. Society & Natural Resources 22(5): 417-32.

Abstract: <http://www.informaworld.com/smp/content-db=all?content=10.1080/08941920801901335>

BUIJS (A.), 2009: Natuurbeelden. Publieke visies op natuur en de consequenties voor het natuurbeheer. Samenvatting van het proefschrift "Public natures. Social representations of nature and local practices." [Nature images. Public views of nature and the consequences for nature management. Summary of the thesis "Public natures. Social representations

*of nature and local practices.”] Wageningen, Wageningen Univ., Leerstoelgroep Bos- & Natuurbeleid. 80 pp.
<http://edepot.wur.nl/15224>*

HANCE (J.), 2009: Proving the “shifting baselines” theory: how humans consistently misperceive nature. Mongabay.com, June 24, 2009. http://news.mongabay.com/2009/0623-hance_shiftingbaselines.html

SCHOUTEN (M.G.C.), 2005: Spiegel van de natuur. Het natuurbeeld in cultuurhistorisch perspectief. [Mirror of nature. Nature’s image in a cultural-historical perspective.] Utrecht, KNNV/Staatsbosbeheer. 272 pp.

TUAN (Y.-F.), 1974: Topophilia: a study of environmental perceptions, attitudes, and values. Englewood Cliffs, Prentice-Hall. 260 pp.

VAN DIJCK (J.), 1998: Imagenation. Popular images of genetics. Hampshire, Macmillan.

VAN VLIERDEN (G.), 1992: De n.v. natuurgevoel. De gammele brug tussen mens en natuur. [Sense of Nature Ltd. The ramshackle bridge between humans and nature.] CVNkrant 22(3): 1-3.

BACKGROUND & FURTHER READING: ATTITUDES TO WILDLIFE, NATURE AND ANIMALS – PHILOSOPHICAL ASPECTS

ACAMPORA (R.), 2007: Animal philosophy: ethics and zoontology. In: MALAMUD (R.) (ed.): A cultural history of animals in the modern age. A cultural history of animals, Vol. 6. Oxford, Berg.

AGAMBEN (G.), 2003: The open: Man and animal. [Translation by K. Attell of L’aperto: Uomo e animale.] Stanford, Stanford UP. 120 pp.

CALARCO (M.), 2008: Zoographies: the question of the animal from Heidegger to Derrida. New York, Columbia UP. 169 pp.

CLARK (S.R.L.), 1989: Animals. In: URMSON (J.O.) & RÉE (J.) (eds.): The concise encyclopaedia of Western philosophy and philosophers. London, Unwin Hyman.

DERRIDA (J.), 2006: The animal that therefore I am. Perspectives in continental philosophy. New York, Fordham UP. 192 pp.

GUERRINI (A.), 2007: Natural history, natural philosophy, and animals. In: SENIOR (M.) (ed.): A cultural history of animals in the age of enlightenment. A cultural history of animals. Vol. 4. Oxford, Berg.

GUICHET (J.-L.), 2007: The animal enlightenment. In: SENIOR (M.) (ed.): A cultural history of animals in the age of enlightenment. A cultural history of animals. Vol. 4. Oxford, Berg.

HARRISON (P.), 1992: Descartes on animals. Philosophical Quarterly 42: 219-27.

LEMAIRE (T.), 1970: Filosofie van het landschap. [Philosophy of the landscape.] Bilthoven, Ambo. 224 pp.

LULKA (D.), 2008: The ethics of extension: philosophical speculation on nonhuman animals. Ethics, Place & Env. 11: 157-80.

VERMEERSCH (E.), 1988: De ogen van de panda, een milieafilosofisch essay. [The eyes of the panda, an essay in environmental philosophy.] Antwerpen/Brugge, Stichting Leefmilieu/Marc Van de Wiele. 72 pp.

BACKGROUND & FURTHER READING: ATTITUDES TO WILDLIFE, NATURE AND ANIMALS – PSYCHOLOGICAL ASPECTS

ATRAN (S.), 1990: Cognitive foundations of natural history. New York, Cambridge UP.

CABLE (T.) & UDD (E.), 1988: Therapeutic benefits of a wildlife observation program. Therapeutic Recreation J. 4: 65-70.

- GALLUP (G.G.) & BECKSTEAD (J.W.), 1988: Attitudes toward animals. *American Psychologist* 43: 474-76.
- HILL (A.M.), 1993: The motivational bases of attitudes toward animals. *Society & Animals* 1: 111-28.
<http://www.psyeta.org/sa/sa1.2/hills.html>
- KAPLAN (R.) & KAPLAN (S.), 1989: The experiences of nature: a psychological perspective. New York, Cambridge UP.
- KELLERT (S.), 1983: Affective, cognitive, and evaluative perceptions of animals. In: ALTMAN (I.) & WOHLWILL (J.F.) (eds.): *Behavior and the natural environment*. New York/London, Plenum: 241-67.
- MORE (T.A.) & PAYNE (B.R.), 1978: Affective responses to natural areas near cities. *J. of Leisure Res.* 10(1): 7-12.
- SCHULTZ (P.W.), 2002: Inclusion with nature: the psychology of human-nature relations. In: SCHMUCK (P.) & SCHULTZ (P.W.) (eds.): *Psychology of sustainable development*. Boston, Kluwer Academic: 61-78.
- TAYLOR (N.) & SIGNAL (T.D.), 2005: Empathy and attitudes toward animals. *Anthrozoös* 18: 18-27.
- ULRICH (R.), 1983: Aesthetic and affective response to natural environment. In: ALTMAN (I.) & WOHLMILL (J.F.) (eds.), 1983: *Behavior and the natural environment*. Vol. 6. New York, Plenum.

- **Animal phobias, disgust and fear of animals, fear of nature, ecophobia**

ON-GOING AND UNPUBLISHED STUDIES :

- FURLAN (I.), 2010: An effective model to suppress prejudices to animals, Zoo Ljubljana. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 1.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: ANIMAL PHOBIAS, DISGUST AND FEAR OF ANIMALS, FEAR OF NATURE, ECOPHOBIA

- BOWD (A.D.) & BOYLAN (C.R.), 1984: Reported fears of animals among biology and non-biology students. *Psychological Reports* 54:
- CURTIS (V.), AUNGER (R.) & RABIE (T.), 2004: Evidence that disgust evolved to protect from risk of disease. *Proc. Royal Soc. London, Series B* 271: S131-33. Suppl. 4.
- CUSHING (N.) & MARKWELL (K.), 2010: I can't look: disgust as a factor in the zoo experience. In: FROST (W.) (ed.): *Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism*. Clevedon, Channel View Publications: 167-78.
- DAVEY (G.C.L.), FORSTER (L.) & MAYHEW (G.), 1993: Familial resemblances in disgust sensitivity and animal phobias. *Behav. Res. & Therapy* 31: 41-50.
- DAVEY (G.C.L.), MCDONALD (A.S.), HIRISAVE (U.), PRABHU (G.G.), IWAWAKI (S.), JIM (C.I.), MERKELBACH (H.), DE JONG (P.J.), LEJNY (P.W.L.) & REIMANN (L.), 1998: A cross-national study of animal fears. *Behav. Res. & Therapy* 36: 735-50. Abstract: <http://www.ncbi.nlm.nih.gov/pubmed/9682528?dopt=Abstract>
- GEER (J.H.), 1965: The development of a scale to measure fear. *Behaviour Res. & Therapy* 3:
- MARKS (I.M.), 1969: *Fears and phobias*. New York, Academic Press.
- MATCHETT (G.) & DAVEY (G.C.L.), 1991: A test of a disease-avoidance model of animal phobias. *Behav. Res. & Therapy* 29: 91-94. Abstract: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V5W-4VT8203-C&_user=10&_coverDate=12%2F31%2F1991&_rdoc=1&_fmt=high&_orig=search&_sort=d&_docanchor=&view=c

[& acct=C000050221& version=1& urlVersion=0& userid=10& md5=6f5a8bd94037662e192a8548820bf67e](http://www3.interscience.wiley.com/journal/119492445/abstract)

MERCKELBACH (H.), VAN DEN HOUT (M.A.) & VAN DER MOLEN (G.M.), 1987: Fear of animals: Correlations between fear ratings and perceived characteristics. *Psychol. Reports* 60: 1203-09.

ÖHMAN (A.) & SOARES (J.J.F.), 1986: Face the beast and fear the face: animal and social fears as prototypes for evolutionary analyses of emotion. *Psychophysiology* 23(2): 123-45.

Abstract: <http://www3.interscience.wiley.com/journal/119492445/abstract>

PROKOP (P.) & TUNNICLIFFE (S.D.), 2008: "Disgusting" animals: primary school children's attitudes and myths of bats and spiders. *Eurasia J. Mathematics, Science & Technology Educ.* 4: 87-97.

ROSE (R.J.) & DITTO (W.B.), 1983: A developmental-genetic analysis of common fears from early adolescence to early adulthood. *Child Dev.* 54: 361-68.

SOBEL (D.), 1996: Beyond ecophobia. Reclaiming the heart in nature education. Great Barrington, Orion Society. www.yesmagazine.org/article.asp?id=803

TERRASON (F.), 2007: La peur de la nature. Au plus profond de notre inconscient, les vraies causes de la destruction de la nature. Reédition. [*Fear of nature. Our real and subconscious causes for the destruction of nature. Reediton.*] Paris, Sang de la Terre. 272 pp.

ULRICH (R.S.), 1993: Biophilia, biophobia, and natural landscapes. In: KELLERT (S.R.) & WILSON (E.O.) (eds.), 1993: The biophilia hypothesis. Washington DC, Island Press.

VAN DEN BERG (A.E.) & TER HEIJNE (M.), 2004: Angst voor natuur: een theoretische en empirische verkenning. [*Fear of nature: a theoretical and empirical exploration.*] Landschap 21(3).

VON DER THÜSEN (J.), 1997 : Het verlangen naar huivering. Over het sublieme, het wrede en het unheimliche. [*Longing for horror. On the sublime, the cruel and the creepy.*] Amsterdam, Querido.

• Popular knowledge of nature, animals and biology/zoology: visitor studies

BALMFORD (A.), 2000: Separating fact from artifact in analyses of zoo visitor preferences. *Conservation Biol.* 14: 1193-95.

MASSEY (C.), HARTNETT (P.), 1991: Zoo visitors' understanding of the concept of adaptation. ?

BACKGROUND & FURTHER READING: POPULAR KNOWLEDGE OF NATURE, ANIMALS AND BIOLOGY/ZOOLOGY

ALLUM (N.), STURGIS (P.), TABOURAZI (D.) & BRUNTON-SMITH (I.), 2008: Science knowledge and attitudes across cultures: a meta-analysis. *Public Understanding of Science* 17(1): 35-54.

HATANO (G.), SIEGLER (R.F.), RICHARDS (D.D.), INAGAKI (K.), STAVY (R.) & WAX (N.), 1993: The development of biological knowledge: a multi-national study. *Cognitive Development* 8(1): 47-62.

LAIRD (S.A.) (ed.), 2002: Biodiversity and traditional knowledge: equitable partnerships in practice. London, Earthscan. 262 pp.

TEN CATE (C.) & GROOTHUIS (T.), 1980: Populair wetenschappelijke ethologieboeken: wetenschapsvoorlichting? [*Popular science ethology books: scientific information?*] *Vakblad voor Biologen* 22(60): 448-53.

- **Attitudes to evolution (visitor studies)**

ABRAHAM-SILVER (L.) & KISIEL (J.), 2008: Comparing visitors' conceptions of evolution: examining understanding outside the United States. *Visitor Studies* 11(1): 41-54.

MACFADDEN (B.J.), DUNCKEL (B.A.), ELLIS (S.), DIERKING (L.D.), ABRAHAM-SILVER (L.), KISIEL (J.) & KOKE (J.), 2007: Natural history museum visitors' understanding of evolution. *BioScience* 57: 875-82.

SPIEGEL (A.N.), EVANS (E.M.), GRAM (W.) & DIAMOND (J.), 2006: Museum visitors' understanding of evolution. *Museums & Social Issues* 1(1): 69-86.

STORKSDIECK (M.) & STEIN (J.), 2006: What they bring with them: museum visitors' perspectives on evolution. *Dimensions: bimonthly news J. ASTC*: 8-9.

ON-GOING AND UNPUBLISHED STUDIES :

GIUSTI (E.), BORUN (M.), EVANS (E.M.) & SPIEGEL (A.), 2006: Evolution: current exhibitions and public perceptions. Presented at the 19th Ann. VSA Conf., Grand Rapids, MI.

KJAERGAARD (P.C.), 2009: Keynote speech. EAZA Ann. Conf. Copenhagen 2009.

BACKGROUND & FURTHER READING: GENERAL PUBLIC ATTITUDES TO EVOLUTION

BISHOP (B.A.) & ANDERSON (C.W.), 1990: Student conceptions of natural selection and its role in evolution. *J. Res. Sci. Teaching* 27: 415-27.

BREM (S.K.), RAMNEY (M.) & SCHINDEL (J.), 2003: Perceived consequences of evolution: college students perceive negative personal and social impact in evolutionary theory. *Sci. Educ.* 87: 181-206.

BROOKS (D.J.), 2001: Substantial numbers of Americans continue to doubt evolution as explanation for origin of humans. *The Gallup Poll Monthly*, Mar. 2001: 9-11.

BURGHARDT (G.M.) & HERZOG (H.A.), 1989: Animals, evolution and ethics. In: HOAGE (R.) (ed.): *Perceptions of animals in American culture*. Washington DC, Smithsonian UP: 129-51.

FIDLER (P.), 2008: Do science centres have a responsibility to promote evolution? ECSITE Conf. 2008, Budapest. <http://www.ecsite-conference.eu/content/user/File/fidler148ac08.pps>

HARRIS INTERACTIVE, 2005: Nearly two-thirds of U.S. adults believe human beings were created by God. Harris poll no. 52. New York, Harris Interactive.

MILLER (J.D.), SCOTT (E.C.) & OKAMOTO (S.), 2006: Public acceptance of evolution. *Science* 313, 11 Aug. 2006: 765-66.
<http://richarddawkins.net/article/706/Public-Acceptance-of-Evolution,Science-Magazine-Jon-D-Miller-Eugenie-C-Scott-Shinji-Okamoto>

NATIONAL CENTER FOR SCIENCE EDUCATION, 2004: Public view of creationism and evolution unchanged, says Gallup. www.ncseweb.org/resources/news/2004/US/724_public_view_of_creationism_and_11_19_2004.asp.

PURRINGTON (C.B.), 2005: The conservation of evolution education in zoos. *IZE J.* 41: 16-19.

BACKGROUND & FURTHER READING: REPRESENTATION OF ANIMALS, SEMIOTICS

- BAKER (S.), 2001: Picturing the beast: animals, identity and representation. Urbana/Chicago, Univ. of Illinois Press.
- BULLOCK (M.), 2002: Watching eyes, seeing dreams, knowing lives. In: ROTHFELS (N.) (ed.): Representing animals. Bloomington/Indianapolis, Indiana UP: 99-118.
- SEBEOK (T.), 1991: "Animal" in biological and semiotic perspective. In: SMITH (L.) (ed.): American signatures: semiotic inquiry and method. Norman, Univ. of Oklahoma Press: 159-73.
- WILLIS (R.G.) (ed.), 1994 : Signifying animals. Human meaning in the natural world. London, Unwin Hyman. 288 pp.

BACKGROUND & FURTHER READING: ATTITUDES TO RESEARCH IN ZOOS

- ARNOLD (K.), 1996: Presenting science as a product or a process: museums and the making of science. In: PEARCE (S.) (ed.): Exploring science in museums. London, Athlone Press: 57-78.
- BENHAM (B.) & SHIMP (C.P.), 2007: On the communication of values between scientists and the public. Int'l J. Comp. Psychology 20: 20-24.
- BONNEY (R.), 2004: Understanding the process of research. Chapter 12 in: CHITTENDEN (D.), FARMELO (G.) & LEWENSTEIN (B.) (eds.): Creating connections: museums and the public understanding of current research. Walnut Creek, Altamira Press. 379 pp.
- BORUN (M.), 1988: A glimpse of visitors' naïve theory of science. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 158-62. Abstract: <http://www.visitorstudiesarchives.org>
- BORUN (M.), 1989: Naïve notions and the design of science museum exhibits. IZE J. 22: 21-23.
- CHITTENDEN (D.), FARMELO (G.) & LEWENSTEIN (B.V.) (eds.), 2004: Creating connections: museums and public understanding of current research. Walnut Creek, Altamira.
- FARMELO (G.), 2004: Only connect: linking the public with current scientific research. In: CHITTENDEN (D.), FARMELO (G.) & LEWENSTEIN (B.) (eds.): Creating connections: museums and the public understanding of current research. Walnut Creek, Altamira Press: 1-26.
- FIELD (H.) & POWELL (P.), 2001: Public understanding of science versus public understanding of research. Public Understanding of Sci. 10: 421-26.
- LEWENSTEIN (B.V.) & BONNEY (R.), 2004: Different ways of looking at public understanding of research. In: CHITTENDEN (D.), FARMELO (G.) & LEWENSTEIN (B.) (eds.): Creating connections: museums and the public understanding of current research. Walnut Creek, Altamira: 63-72.
- PIFER (L.K.), 1996: Exploring the gender gap in young adult's attitudes about animal research. Society & Animals 4: 37-52.
- PIFER (L.), SHIMIZU (K.) & PIFER (R.), 1994: Public attitudes toward animal research: some international comparisons. Society & Animals 2: 95-113.
- RODARI (P.), 2007: Images of scientists from Europe's children. An action research project. SEDEC - Science Education for the Development of European Citizenship. Poster. ECSITE Conf. 2007, Lisboa.
<http://www.ecsite-conference.net/content/user/File/Paola%20Rodari.pdf>

BACKGROUND & FURTHER READING:**ATTITUDES TO WILDLIFE, NATURE AND ANIMALS – SOCIO-ECONOMICAL AND POLITICAL ASPECTS**

- ADAMS (W.M.), 2007: Thinking like a human: social science and the two cultures problem. *Oryx* 41: 275-76.
- AGRAWAL (A.) & GIBSON (C.), 1999: Enchantment and disenchantment: the role of community in natural resource management. *World Development* 27: 629-49.
- BRECHIN (S.R.), WILSHUSEN (P.R.), FORTWANGLER (C.L.) & WEST (P.C.) (eds.), 2003: Contested nature: promoting international biodiversity with social justice in the Twenty-first Century. Albany, SUNY Press. 288 pp.
- EVERNDEN (N.), 1992: The social creation of nature . Baltimore, Johns Hopkins UP.
- FINDLEN (P.), 1994: Possessing nature. Berkeley, Univ. of California Press.
- FRANKLIN (A.), 1999: Animals & modern cultures. A sociology of human-animal relations in modernity. London/Thousand Oaks/New Delhi, Sage. 213 pp.
- HEDIGER (H.), 1965: Man as a social partner of animals and vice-versa. *Symposia Zool. Soc. of London* 14: 291-300.
- KINZIG (A.P.), WARREN (P.), MARTIN (C.), HOPE (D.) & KATTI (M.), 2005: The effects of human socio-economic status and cultural characteristics on urban patterns of biodiversity. *Ecology & Society* 10(1): 23. www.ecologyandsociety.org/vol10/iss1/art23
- MANFREDO (M.J.), 2008: Who cares about wildlife? Social science concepts for exploring human-wildlife relationships and conservation issues. New York, Springer. 228 pp.
- MANNING (A.) & SERPELL (J.) (eds.), 1994 : Animals and human society. Changing perspectives. London/New York, Routledge : 1-23.
- MARVIER (M.), GRANT (J.) & KAREIVA (P.), 2006: Nature: poorest may see it as their economic rival. *Nature* 443: 28.
- MCKIBBEN (B.), 1990: The end of nature. London, Penguin. 212 pp.
- SOPER (K.), 1995: What is nature ? Culture, politics and the non-human. Oxford/Cambridge, Blackwell.
- TERRASON (F.), 1995: La civilisation anti-nature. [*The anti nature civilization.*] Paris, Editions du Rocher.
- VAN KOPPEN (K.), VAN DER HOEK (D.), LEEMEIJER (A.M.), STORTENBEKER (C.W.) & BONGERS (W.) (red.), 1985: Natuur en mens. Visies op natuurbeheer vanuit levensbeschouwing, wetenschap en politiek. [*Nature and humans. Views on nature conservation management from philosophy, science and politics.*] Wageningen, Pudoc. 148 pp.
- ZWEERS (W.), 1995: Participeren aan de natuur. Ontwerp voor een ecologisering van het wereldbeeld. [*Participating in nature. Draft for a ecological world view.*] Utrecht, Van Arkel. 518 pp.

- Attitudes to specific taxa – General – visitor studies

CANTIN (S.) & PRESCOTT (J.), 1979a: Analyse de la popularité des animaux au Jardin Zoologique de Québec. [Analysis of the of animals at Québec zoological gardens.] Carnets de Zoologie 39(2): 24-30.

CANTIN (S.) & PRESCOTT (J.), 1980: Species popularity at Quebec Zoo. Int. Zoo News 167:

MANOKHIN (A.), 2010: В столичном зоопарке выбрали самое популярное животное. [Animal popularity poll at Moscow Zoo]. www.homepage.ru, 7 September 2010. www.homepage.ru/news/252699-v-stolichnom-zooparke-vyibrali-samoe-populyarnoe-zhivotnoe

MORRIS (D.J.), 1961: An analysis of animal popularity. Int. Zoo Yb. 2: 60-1.

MOSS (A.) & ESSON (M.), 2010: Visitor interest in zoo animals and the implications for collection planning and zoo education programmes. Zoo Biology 28: 1-17.

Abstract: <http://onlinelibrary.wiley.com/doi/10.1002/zoo.20316/full>

SURINOVA (M.), 1971: An analysis of the popularity of animals. Int. Zoo Yb. 11: 165-7.

WARD (P.I.), MOSBERGER (N.), KISTLER (C.) & FISCHER (O.), 1998: The relationship between popularity and body size in zoo animals. Conservation Biology 12: 1408-11.

ON-GOING AND UNPUBLISHED STUDIES :

SMITH (A.), 2010: A call to action? The merits of using flagship species and anthropomorphism. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 15.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

VILLARRUBIA (N.), 2010: A wake-up call to reconnect with nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 18.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: ATTITUDES TO SPECIFIC TAXA - GENERAL

ANDELMAN (S.) & FAGAN (W.), 2000: Umbrellas and flagships: efficient conservation surrogates or expensive mistakes? Proc. Nat'l Acad. Sciences USA 97: 5954-9.

ANON., 2009: Fish fingers swimming around in London's Sea Life aquarium. The Daily Telegraph, 12 Oct 2009. <http://www.telegraph.co.uk/education/educationnews/6306610/Fish-fingers-swimming-around-in-London's-Sea-Life-aquarium.html>

ANON., 2010: Rare species named for the first time by British public. The British public choose common names for species with an identity crisis. Press release, 17 June 2010. Sheffield, Natural England. http://www.naturalengland.org.uk/about_us/news/2010/170710.aspx

BATT (S.), 2009: Human attitudes towards animals in relation to species similarity to humans: a multivariate approach. Bioscience Horizons 2(2): 180-90.

BITGOOD (S.), 1986: Variables influencing visitor behavior: physical qualities of the exhibit object/species. Visitor Behav. 1(1): 5. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a0t8-a_5730.pdf

BOWEN-JONES (E.) & ENTWISTLE (A.), 2002: Identifying appropriate species: the importance of culture and local contexts. Oryx 36(2): 189-95.

- COCKELL (C.S.), 2008: Environmental ethics and size. *Ethics & the Env.* 13: 23-40.
- ENTWISTLE (A.C.), 2000: Flagships for the future? *Oryx* 34: 239-40.
- GOULD (N.), 2010: Editorial. *Int'l Zoo News* 57(6): 322.
- HEDIGER (H.), 1955: Vom "Schauwert" der Tiere. [*On the "display value" of animals.*] Atlantis – Länder, Völker, Reisen XXVII(8):
- KAWATA (K.) & HENDY (M.), 1978: A perspective: zoo-going and animal popularity. *Int. Zoo News* 25(7) (155): 14-5.
- LEADER-WILLIAMS (N.) & DUBLIN (H.T.), 2000: Charismatic megafauna as "flagship species". In: ENTWISTLE (A.) & DUNSTONE (N.) (eds.): *Conservation of mammalian diversity. Has the Panda had its day?* Cambridge, Cambridge UP: 53-81.
- MAREŠOVA (J.), KRÁSA (A.), PETRŮ (M.) & FRYNTA (D.), 2007: Zoos, preferences of animal species, and unity of humankind. In: 6th Int'l Zoo and Wildlife Research Conf. on Behaviour, Physiology and Genetics, Berlin 2007. Berlin, Leibniz Inst. for Zoo & Wildlife Res.: 144.
- PROKOP (P.) & TUNNICLIFFE (S.D.), 2010: Effects of having pets at home on children's attitudes toward popular and unpopular animals. *Anthrozoös* 23(1): 21-35.
- SIMBERLOFF (D.), 1998: Flagships, umbrellas and keystone species: is single-species management passé in the landscape era? *Biol. Conservation* 83: 247-57.
- SMYLIE (M.), 2006: Herring. A history of the silver darlings. Stroud, Tempus. 224 pp.
- TRIMBLE (M.J.) & VAN AARDE (R.J.), 2010: Species inequality in scientific study. *Conservation Biology* 24(3): 886-90. Abstract: <http://www3.interscience.wiley.com/journal/123299967/abstract?SRETRY=0>
- WILEY DRISCOLL (J.), 1995: Attitudes toward animals: species ratings. *Society & Animals* 3(1): <http://www.psyeta.org/sa/sa3.2/driscoll.html>

BACKGROUND & FURTHER READING: ATTITUDES TO INVERTEBRATES

- ADAMS (K.A.), 1981: Arachnophobia: love American style. *J. of Psycho-Analytical Anthropology* 4:
- BICKFORD (A.), DOERING (Z.D.) & SMITH (S.J.), 1992: Spiders are coming! An exhibition background study for the National Museum of Natural History. *Institutional Studies, Report 92-4.* Washington DC, Smithsonian Inst.
- COCKELL (C.S.), 2008 : Environmental ethics and size. *Ethics and the Environment* 13 : 23-40.
- DAVEY (G.C.L.), 1992: Characteristics of individuals with fear of spiders. *Anxiety Res.* 4: 299-14.
- DAVEY (G.C.L.), 1994: The "disgusting" spider: the role of disease and illness in the perpetuation of fear of spiders. *Society & Animals* 2(1): 17-24. <http://www.psyeta.org/sa/sa2.1/davey.html>
- HARDY (T.N.), 1988: Entomophobia: the case for Miss Muffet. *Bull. Entomol. Soc. America*, 34:
- KELLERT (S.), 1993: Values and perceptions of Invertebrates. *Conservation Biology* 7: 845-55.
Abstract: <http://www3.interscience.wiley.com/journal/119306442/abstract?CRETRY=1&SRETRY=0>
- KINDT (M.), BROSSCHOT (J.F.) & MURIT (P.), 1996: Spider phobia questionnaire for children (SPQ-C): a psychometric study and normative data. *Behav. Research & Therapy* 34: 277-82.
Abstract: <http://www.ingentaconnect.com/content/els/00057967/1996/00000034/00000003/art00069>
- MOORE (W.S.), BOWERS (D.R.) & GRANOVSKY (T.A.), 1982: What are magazines telling us about insects?

Journalism Quarterly 59(3): 464-75.

PIMENTEL (D.) (ed.), 1975: Insects, science, and society. Proc. of a symp. on Insects, science & society, Cornell Univ., Ithaca, NY, 14-15 Oct. 1974. New York, Academic Press. 284 pp.

PROKOP (P.), PROKOP (M.) & TUNNICLIFFE (S.D.), 2008: Effects of keeping animals as pets on children's concepts of vertebrates and invertebrates. Int'l J. Sci. Educ. 30(4): 431-49.

Abstract: <http://www.informaworld.com/smpc/content~db=all?content=10.1080/09500690701206686>

SCHMITT (C.), 2007: Victorian beetlemania. In : DENENHOLZ MORSE (D.) & DANA HAY (M.A.) (eds.): Victorian animal dreams (The Nineteenth Century). Amdershot, Ashgate: 35-52.

SHEPHARDSON (D.P.), 2002: Bugs, butterflies, and spiders: children's understandings about insects. Int'l J. Sci. Educ. 24(6): 627-43.

BACKGROUND & FURTHER READING: ATTITUDES TO BIRDS

ARMSTRONG (E.A.), 1958: The folklore of birds. An enquiry into the origins and distribution of some magico-religious traditions. New Naturalist series 39. London, Collins. 272 pp.

DAVY (M.-M.), 1998: L'oiseau et sa symbolique. Paris, Albin Michel. 249 pp.

DE ORNELLAS (K.), 2007: A "foule fowle": the marginalized Cormorant in the Renaissance. In: BOEHRER (B.) (ed.): A cultural history of animals in the Renaissance. A cultural history of animals. Vol. 3. Oxford, Berg.

DITTRICH (S.), 1991: Botschaften des Storches von Liebe und Glück. [*The stork as messenger of love and happiness.*] Der Zoofreund 79: 12-7.

GEBAUER (A.), 1994: Der Storch in Wappen und Signets. [*The stork in heraldry and logos.*] Ciconia 7: 21-32.

LEMAIRE (T.), 2004: De leeuwerik. Cultuurgeschiedenis van een lyrische vogel. [*The lark. Cultural history of a lyrical bird.*] Amsterdam, Ambo. 124 pp.

MASLOW (J.E.), 1983: The owl papers. New York, Dutton. 184 pp.

MOSS (S.), 2004: A bird in the bush. A social history of birdwatching. London, Aurum Press. 376 pp.

PROKOP (P.), KUBIATKO (M.) & FANČOVIČOVÁ (J.), 2007: Why do cocks crow? Children's concepts about birds. Res. Sci. Educ. 37(4): 393-405. Abstract: <http://www.springerlink.com/content/a607673567u623r5/>

PROKOP (P.), KUBIATKO (M.) & FANČOVIČOVÁ (J.), 2008: Slovakian pupils' knowledge of, and attitudes toward, birds. Anthrozoös 21: 221-35.

Abstract: <http://www.ingentaconnect.com/content/berg/anthroz/2008/00000021/00000003/art00002>

ROWLAND (B.), 1978: Birds with human souls: a guide to bird symbolism. Knoxville, Univ. of TN Press. 213 pp.

SAUVAGE (A.), 2002: Urbains, oiseaux et habitats. Quelques effets de co-localisations. [*Urban people, birds and habitats. Some effects of co-localisation.*] In: STASZAK (J.-F.) (ed.): La place de l'animal. [*The place of the animal.*] Espaces et Sociétés 110/111: ... Abstract: <http://www.espacesetsocietes.msh-paris.fr/110111/resumes.html#r2>

STRUNDEN (H.), 1984: Papageien einst und jetzt – geschichtliche und kulturgechichtliche Hintergründe der Papageienkunde. [*Parrots then and now – historical and cultural backgrounds of parrots.*] Enzyklopädie der Papageien und Sittiche. Bomlitz, Horst Müller. 162 pp.

VERÍSSIMO (D.), FRASER (I.), GROOMBRIDGE (J.), BRISTOL (R.) & MACMILLAN (D.C.), 2009: Birds as tourism flagship species: a case study of tropical islands. Animal Conservation 12(6): 549-58.

BACKGROUND & FURTHER READING: ATTITUDES TO MAMMALS - GENERAL

- BONERA (F.), 1991: Pigs: art, legend, history. Boston, Bullfinch Press.
- BOOMSMA (D.), 2007: Bambificatie van de zeehond. [*Bambification of the seal.*] Opinio 1(7): 8-10.
- KREEMER (J.), 1956 : De karbouw. Zijn betekenis voor de volkeren van de Indonesische archipel. [*The water buffalo. Its significance for the peoples of the Indonesian archipelago.*] 's-Gravenhage, Van Hoeve.
- KUBIATKO (M.) & PROKOP (P.), 2007: Pupil's misconceptions about mammals. J. Baltic Science Educ. 6: 5-14.
- LAUFER (B.), 1928: The Giraffe in history and art. Field Museum Anthropology Leaflet 22. Chicago, Field Mus. of Natural History.
- MOELLER (H.F.), 1994: Über den Schauwert des Beutelwolfs *Tylacinus cynocephalus*. [*On the display value of the Thylacine Tylacinus cynocephalus.*] Der Zool. Garten 64(2): 97-109.
- NELSON (R.), 1998: Heart and blood: living with deer in America. New York, Vintage. 416 pp.
- NISSENNON (M.) & JONAS (S.), 1992: The ubiquitous pig. New York, Harry N. Abrams. 136 pp.
- PROKOP (P.), FANČOVIČOVÁ (J.) & KUBIATKO (M.), 2009: Vampires are still alive: Slovakian student's attitudes toward bats. Anthrozoös 22(1): 19-30.
<http://docserver.ingentaconnect.com/deliver/connect/berg/08927936/v22n1/s3.pdf?Expires=1279696946&id=57774669&titleid=75002126&accname=Harry+Schram&checksum=B61B7460003FDEB049A8F3481A9CA2F6>
- PROKOP (P.) & TUNNICLIFFE (S.D.), 2008: "Disgusting" animals: primary school children's attitudes and myths of bats and spiders. Eurasia J. Mathematics, Science & Technology Educ. 4: 87-97.
- RIEDL-DORN (C.), 2008: Hohes Tier – Die Geschichte der ersten Giraffe in Schönbrunn. [*Tall animal – the story of the first giraffe at Schönbrunn.*] Wien, Braumüller. 182 pp.
- ROOKMAKER (L.C.), 1983: Bibliography of the rhinoceros: an analysis of the literature on the recent rhinoceroses in culture, history, and biology. Rotterdam, Balkema. 292 pp.
- SEITZ (S.), 2000: In the name of the tapir: confusions and conclusions. Int. Zoo News 47(3): 148-60.
- SILLAR (F.C.) & MEYLER (R.M.), 1961: The symbolic pig. London, Oliver and Boyd.

- Attitudes to Carnivores : visitor studies

MELFI (V.) & KNIGHT (K.), 2008: Public perceptions of carnivore feeding methods: preliminary results from an international study. In: HARTLEY (A.) (ed.): Proc. Ann. BIAZA Research Meeting, Whipsnade Zoo.

BACKGROUND & FURTHER READING: ATTITUDES TO CARNIVORES - GENERAL

CLUTTON-BROCK (J.), 1996: Competitors, companions, status symbols, or pests: a review of human associations with other carnivores. In: GITTELMAN (J.L.) (ed.): Carnivore behavior, ecology, and evolution. Ithaca, Cornell UP:

GENOVALI (C.) & FOX (C.), 2010: The ethics of killing large carnivores. The Huffington Post, June 11, 2010. http://www.huffingtonpost.com/chris-genovali/the-ethics-of-killing-lar_b_598640.html

KRUUK (H.) & BROWN (D.E.), 2002: Hunter and hunted: relationships between carnivores and people. Cambridge, Cambridge UP. 260 pp.

ROMAÑACH (S.S.), LINDSEY (P.A.) & WOODROFFE (R.), 2007: Determinants of attitudes towards predators in central Kenya and suggestions for increasing tolerance in livestock dominated landscapes. Oryx 41(2): 185-95.

RØSKAFT (E.), BJORKE (T.), KALTENBORN (B.P.), LINNELL (J.D.C.) & ANDERSEN (R.), 2003: Patterns of self-reported fear towards large carnivores among the Norwegian public. Evolution & Human Behav. 24: 184-98.

Abstract: <http://www.ehbonline.org/article/S1090-5138%2803%2900011-4/abstract>

QUAMMEN (D.), 2003: Monster of God. The Man-eating predator in the jungles of history and the mind. New York/London, Norton. 514 pp.

TREVES (A.) & KARANTH (U.), 2004: Human-carnivore conflict and perspectives on carnivore management worldwide. Conservation Biology 17(6): 1491-99.

BACKGROUND & FURTHER READING: ATTITUDES TO BEARS

BACHOFEN (J.J.), 1863: Der Baer in den Religionen des Alterthums. [*The bear in the religions of Antiquity.*] Basel,

BOBBÉ (S.), 2002: L'ours et le loup. Essai d'anthropologie symbolique. [*Bear and wolf. Essay in symbolic anthropology.*] Paris,

BORATAV (P.N.), 1958: Les histoires d'ours en Anatolie. [*Bear stories in Anatolia.*] Turcika 3-46.

BRUNNER (B.), 2005: Eine kurze Geschichte der Bären. [*A short history of bears.*] Berlin, Claassen. 224 pp.

LACKEY (B.) & HAM (S.), 2003: Contextual analysis of interpretation focused on Human-Black bear conflicts in Yosemite National Park. Appl. Env. Education and Communication 2(1): 11-21.

LAJOUX (J.-D.), 1996: L'homme et l'ours. [*Man and bear.*] Grenoble,

LARSEN (T.), 1978: Man and the great white bear. Wildlife 20(11): 492-98.

PETTER (F.) (éd.), 1988: D'ours en ours. [*From bear to bear.*] Paris, MNHN. 96 pp.

RIEKE-MÜLLER (A.), 1989: Der gebuddelte Bär. [*The playful bear.*] Der Zoofreund 73: 11-6.

ROCKWELL (D.), 1991: Giving voice to Bear. North American Indian rituals, myths, and images of the bear. Niwot,

SHEPARD (P.) & SANDERS (B.), 1985: The sacred paw: the bear in nature, myth, and literature. New York, Viking. 244 pp.

SNÆBJÖRNSDÓTTIR (B.) & WILSON (M.) (eds.), 2006: Nanoq: flat out and bluesome. A cultural life of polar bears. London, Black Dog. 192 pp.

• Attitudes to Canids

ON-GOING AND UNPUBLISHED STUDIES

OWEN (K.), 2001: Interviews with zoo visitors regarding African wild dog: a report from the Woodland Park Zoo Audience Research Office. Internal report. Seattle, Woodland Park Zoo.

BACKGROUND & FURTHER READING: ATTITUDES TO CANIDS

BOBBÉ (S.), 2002: L'ours et le loup. Essai d'anthropologie symbolique. [*Bear and wolf. Essay in symbolic anthropology.*] Paris,

BOITANI (L.) & ZIMEN (E.), 1979: The role of public opinion in wolf management. In: KLINGHAMMER (E.) (ed.): The behavior and ecology of wolves. New York, Garland: 471-77.

CARBONE (G.), 1991 : La peur du loup. [*Fear of the wolf.*] Paris,

CARBONE (G.) & LE PAPE (G.), 1996: L'ABCdaire du Loup. [*The Wolf from A to Z.*] Paris, Flammarion. 120 pp.

COCHEZ (T.), 2000: Waar komt onze angst voor de wolf vandaan? [*Where does our fear of the wolf originate?*] De Morgen – Aula, 25 februari 2000: 22.

DE GROOF (B.), 1994: De wolf (Canis lupus). Angst en vervolging in de Nederlanden. [*The wolf (Canis lupus). Fear and prosecution in the Netherlands.*] Brabantse folklore en geschiedenis, juni 1994, 282: 125-46.

DE MELOTTE (Chev. A.), 1920: Le loup dans la légende et dans l'histoire. [*The wolf in legend and history.*] Chasse et Pêche 37(20): 471-2.

DE ZUTTER (J.), 2000: Hoe de wolf de mens temde. [*How the Wolf tamed Man.*] De Morgen, 25 feb 2000: Aula: 23.

DITTRICH (L.), 1993: Fuchs und Feuer, Schakal und Steppenbrand. [*Fox and fire, jackal and steppe fire.*] Der Zoofreund 87: 12-5.

KELLERT (S.R.), 1985: Public perceptions of predators, particularly the Wolf and Coyote. Biol. Conservation 31: 167-89.

LOPEZ (B.H.), 1978: Of wolves and men. New York/London, Scribner's/Dent. 310 pp.

LUYTS (G.), 2004: Met vryaerts en resoelen. Het verdwijnen van de Wolf in Vlaanderen. [*Disappearance of the Wolf in Flanders.*] Natuurhist. reeks nr.3. Turnhout, Natuurpunt Studie. 264 pp.

MEADOW (R.), READING (R.P.), PHILLIPS (M.), MEHRINGER (M.) & MILLER (B.J.), 2005: The influence of persuasive arguments on public attitudes toward a proposed wolf restoration in the southern Rockies. Wildlife Society Bull. 33(1): 154-63.

PATE (J.), MANFREDO (M.J.), BRIGHT (A.D.) & TISCHBEIN (G.), 1996: Coloradan's attitude toward reintroducing the gray wolf into Colorado. Wildlife Soc. Bull. 24(3): 421-28.

PORTER (A.) & HOWARD (J.L.), 2003: Warning visitors about the potential dangers of dingoes on Fraser Island, Queensland, Australia. J. of Interpretation Res. 7 (2): 51-63.

ROBINSON (W.L.), 1979: Workshop: public relations and public education. In: KLINGHAMMER (E.) (ed.): The behavior and ecology of wolves. New York, Garland: 478-81.

SMITH (B.P.) & LITCHFIELD (C.A.), 2009: A review of the relationship between indigenous Australians, dingoes (*Canis dingo*) and domestic dogs (*Canis familiaris*). *Anthrozoös* 22(2): 111-28.

SMITH (N.), 1999: The howl and the pussy: feral cats and wild dogs in the Australian imagination. *Austr. J. Anthropology* 10(3): 288-305.

VAN DER STRAETEN (E.) & NEYRINCK (R.), 1997: Is er ruimte en draagvlak voor de terugkeer van de wolf in België? [Does space and public support allow for the return of the wolf in Belgium?] *Nieuwe wildernis*, winter 1997-'98: 8-11.

VERELST (W.), 1985: Wie is bang van de boze wolf? Het imago van een viervoeter. [Who is afraid of the big bad wolf? The public image of a quadruped.] *De Standaard der Letteren*, 5 okt 1985: 1.

WILLIAMS (C.K.), ERICSSON (G.) & HEBERLEIN (T.A.), 2002: A quantitative summary of attitudes toward wolves and their reintroduction (1972-2000). *Wildlife Soc. Bull.* 30(2): 575-84.

YOUNG (S.P.), 1946: The wolf in American history. Caldwell, Caxton. 149 pp.

BACKGROUND & FURTHER READING: ATTITUDES TO FELIDS

ANON., 2009: РОМИР: Четверть россиян не знают, что в России обитают тигры. [ROMIR: A quarter of all inhabitants of the Russian federation ignore that tigers occur in Russia.]
<http://top.rbc.ru/society/11/11/2009/344978.shtml>

BAKELS (J.), 2000 : Het verbond met de tijger. Visies op menseetende dieren in Kerinci, Sumatra. [The pact with the tiger. Perceptions of man-eating animals in Kerinci, Sumatra.] Vol. 93. Leiden, Research School CNWS. 378 pp.

CLAES (J.), 1983: Antropologie van de leeuw. De leeuw als symbol van macht, als totem en als voorbeeld van moed. [Anthropology of the lion. The lion as symbol of power, as totem and as exemple of courage.] In: SIMONS (L.) et al: De Leeuw – universeel symbol en wapen van Vlaanderen. [The Lion – universal symbol and coat of arms of Flanders.] Publicaties Stadsbibliotheek en Archief & Museum Vlaamse Cultuurleven 3. Antwerpen, Stadsbibliotheek: 9-14.

FAURE (E.) & KITCHENER (A.C.), 2009: An archaeological and historical review of the relationships between Felids and people. *Anthrozoös* 22(3): 221-38.

GOGUEY (D.), 1995: Les Romains et les animaux: regards sur les grands fauves, liens affectifs entre l'homme et l'animal. [The Romans and animals: views on big cats, affective bonds between man and animal.] In: Homme et animal dans l'antiquité romaine. [Man and animal in Roman antiquity.] Tours: 51-66.

HAZEWINKEL (J.C.), 1964 : De tijger in het volksgeloof. [The tiger in popular belief.] Den Haag, Tong-Tong.

HENS (T.), 2002: Vlekjes tegen het grijze milleniumgevoel. Waarom het luipaardvel om de zoveel jaar weer brullend de kop opsteekt. [Little spots to fight grey millennium feelings. Why the leopard skin roars up every so many years.] *De Standaard Mag.*, 30 aug 2002: 46-7.

HOTTE (M.), 2006 : Amur leopard and tiger conservation in a social and economic context.
http://www.tigrisfoundation.nl/cms/publish/content/downloaddocument.asp?document_id=5

INSKIP (C.) & ZIMMERMANN (A.), 2009: Human-felid conflict: a review of patterns and priorities worldwide. *Oryx* 43(1): 18-34.

MITRA (S.C.), 1910-1912 : The tiger in Malay folklore, proverbial philosophy, ad folk-medecine. *J. Anthropol. Soc. Bombay* 9 : 67-377.

SMITH (N.), 1999: The howl and the pussy: feral cats and wild dogs in the Australian imagination. *Austr. J. Anthropol.* 10(3): 288-305.

VAN HEEZIK (Y.), 2010: Pussyfooting around the issue of cat predation in urban areas. *Oryx* 44(2): 153-54.

- **Attitudes to Cetaceans : visitor studies**

ANGUS REID GROUP, 1991: Public attitudes towards Cetaceans at the Vancouver Aquarium. 29 pp.

EVANS (W.E.) & WOLFSON (F.H.), 1984: Cetaceans in captivity: attitudinal impact and value as an educational resource. *Whalewatcher*, Winter 1984: 16-18.

MAYES (G.), DYER (P.) & RICHINS (H.), 2004: Dolphin-human interaction: pro-environmental attitudes, beliefs, and intended behavior and actions of participants in interpretation programs. A pilot study. *Annals Leisure Res.* 7(1): 34-53.

ON-GOING OR UNPUBLISHED STUDIES:

FRASER (J.) & SICKLER (J.), 2006: Thinking about dolphins thinking. 19th ann. VSA conf., July 25-29, 2006, Grand Rapids, MI. Abstract: www.visitorstudiesarchives.org

HARWOOD JARVIS (C.), 2000: If Descartes swam with dolphins: the framing and consumption of marine mammals in contemporary Australian tourism. Doctoral dissertation. Melbourne, Dept of Geography & Env. Studies, Univ. of Melbourne.

WARKENTIN (T.), 2007: Captive imaginations: affordances for ethics, agency and knowledge-making in whale-human encounters. PhD diss. Toronto, York Univ.

BACKGROUND & FURTHER READING: ATTITUDES TO CETACEANS

BARNEY (E.C.), MINTZES (J.J.) & YEN (C.-F.), 2005: Assessing knowledge, attitudes and behavior toward charismatic megafauna: the case of dolphins. *J. Env. Educ.* 36: 41-55. Abstract:
<http://heldref.metapress.com/app/home/contribution.asp?referrer=parent&backto=issue,4,5;journal,23,52;linkingpublicationresults,1:119935,1>

CUNNINGHAM LILLY (J.), 1975: Man and dolphin. In: CUNNINGHAM LILLY (J.), 1975: Lilly on dolphins. Humans of the sea. Garden City, Anchor Press/Doubleday: 1-82.

CUNNINGHAM LILLY (J.), 1975: The dolphin in history. In: CUNNINGHAM LILLY (J.), 1975: Lilly on dolphins. Humans of the sea. Garden City, Anchor Press/Doubleday: 83-110.

DEGRAZIA (D.), 1997: Great Apes, Dolphins, and the concept of personhood. *Southern J. Philosophy* 35(3): 301-20.

ELLIS (R.), 1991: Men and Whales. New York, Knopf. 560 pp.

FRASER (J.), REISS (D.), BOYLE (P.), LEMCKE (K.), SICKLER (J.), ELLIOTT (E.), NEWMAN (B.) & GRUBER (S.), 2006: Dolphins in popular literature and media. *Society & Animals* 14(4).

FROHOFF (T.G.) & PACKARD (J.M.), 1995: Human interactions with free-ranging and captive bottlenose dolphins. *Anthrozoös* 8(1): 44-54.

KALLAND (A.), 1983 : Whale politics and green legitimacy. A critique of the anti-whaling campaign. *Anthropology Today* 9(6) : 3-7.

KELLERT (S.) & SCHEFFER (V.), 1997: The changing place of marine mammals in American thought. In: TWISS (J.) & REEVES (R.) (eds.): *Marine Mammals*. Washington DC, Smithsonian Press.

NORRIS (K.), 1978: Marine mammals and Man. In: BROKAW (H.) (ed.): *Wildlife and America*. Washington DC, Council on Env. Quality: 320.

NORRIS (K.S.), 1991: Essay: Looking at captive dolphins. In: PRYOR (K.) & NORRIS (K.S.) (eds.): *Dolphin societies: discoveries and puzzles*. Berkeley/Los Angeles, Univ. of California Press.

ORAMS (M.B.), 1997: Cetacean education: can we turn tourists into “Greenies”? *Progress in Tourism & Hospitality Res.* 3(4): 295-306.

PARSONS (E.C.M.), RICE (J.P.) & SADEGHI (L.), 2010: Awareness of whale conservation status and whaling policy in the US – a preliminary study on American youth. *Anthrozoös* 23(2): 119-27.

SICKLER (J.), FRASER (J.), GRUBER (S.V.), BOYLE (P.), WEBLER (T.) & REISS (D.), 2006: Thinking about dolphins thinking. WCS working paper no. 27. New York, WCS.

VAN BRESSEM (M.-F.), ALFARO-SHIGUETO (J.), GEYSEN (K.), ONTÓN (K.), VEGA (D.), CHÁVEZ-LISAMBART (L.) & VAN WAREBEEK (K.), 2006: Dolphins and children: a blueprint for marine environmental education in Peru. *Appl. Env. Educ. & Communication* 5(3): 183-91.

Abstract on <http://www.informaworld.com/smpp/content~db=all~content=a759141500>

WARKENTIN (T.), 2009: Whale agency: affordance and acts of resistance in captive environments. In: MCFARLAND (S.) & HEDIGER (R.) (eds.): *Animals and agency: an interdisciplinary exploration*. Leiden, Brill: 23-43.

WARKENTIN (T.) & FAWCETT (L.), 2010: Whale and human agency in world-making: decolonizing whale-human encounters. In: ACAMPORA (R.R.) (ed.): *Metamorphoses of the zoo. Animal encounters after Noah*. Plymouth, Lexington Books: 103-22.

• Attitudes to Elephants

ON-GOING OR UNPUBLISHED STUDIES:

SATHYANARAYANA (M.), 2010: Learning to live with elephants. Abstracts, 2010 IZE Conf., Disney’s Animal Kingdom: 14.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: ATTITUDES TO ELEPHANTS

BROUCKE (K.), 2007: doen quam tot Antwerpen ‘t schepe eenen olifant uuyt Portugael, off daer ontrent. [then came to Antwerp by ship one elephant from Portugal or thereabouts.] In: BROUCKE (K.) (samenst.): *O dierbaar Antwerpen. Over olifanten, mensen en andere stadse dieren*. [Antwerp animalized. On elephants, humans and other urban animals.] Tielt/Antwerpen, Lannoo/Antwerpen Open: 12-27.

CARRINGTON (R.), 1959: Elephants: a short account of their natural history, evolution, and influence on Mankind. London/New York, Chatto & Windus/Basic Books. 188 pp.

COSTENTINO (D.J.), 1992: Elephant as metaphor inn African myth and folklore. In: ROSS (D.H.) (ed.): *Elephants: the animal and its ivory in African culture*. Los Angeles, Fowler Museum of Cult. History/Univ. of California :

DELORT (R.), 1990: *Les elephants, pilliers du monde*. [Elephants, pillars of the world.] Paris. Gallimard.

GRÖNING (K.) & SALLER (M.), 1999: Elephants: a cultural and natural history. [Translation of *Der Elefant in Natur- und Kulturgeschichte*, Köln, Könemann, 1998] Köln, Könemann. 482 pp.

JEANNIN (A.), 1947: L’éléphant d’Afrique: zoologie, histoire, folklore, chasse, protection. [The African elephant: zoology, history, folklore, hunting, protection.] Paris,

JOHNSON III (L.H.), 1952: Men and elephants in America. *Scientific Monthly* 75: 215-21.

- MUSEUM FÜR VÖLKERKUNDE, MÜNCHEN (Hrsg.), 1994: Mensch und Elefant. [*Human and elephant.*] Frankfurt /M.,
- OETTERMANN (S.), 1982: Die Schaulust am Elefanten. [*Inquisitive about elephants.*] Frankfurt/M.,
- RINGIS (R.), 1996: Elephants in Thailand in myth, art, and reality. Kuala Lumpur, Oxford UP.
- ROSS (D.H.) (ed.), 1992: Elephant: the animal and its ivory in African culture. Los Angeles, Fowler Museum of Cult. History/Univ. of California.
- ROTHFELS (N.), 2005: Why look at elephants? *Worldviews* 9(2):
- ROTHFELS (N.), 2007: Killing elephants. Pathos and prestige in the Nineteenth Century. In : DENENHOLZ MORSE (D.) & DANAHAY (M.A.) (eds.): Victorian animal dreams (The Nineteenth Century). Andersholt, Ashgate: 53-64.
- SCIGLIANO (E.), 2002: Love, war, and circuses. The age-old relationship between elephants and humans. Boston/New York, Houghton Mifflin. 358 pp.
- SCOTT (W.B.), 1887: American elephant myths. *Scribner's Mag.* 1(4): 469-78.
- SCULLARD (H.H.), 1974: The elephant in the Greek and Roman world. New York, Cornell UP.
- VAJ (S.), 1989: L'éléphant. Art, histoire, symbolisme. [*Translation by F. Brun of Elefante, Milano, Arnoldo Mondadori*] Paris, Robert Laffont. 112 pp.
- WARREN (W.) & AMRANAND (P.), 1998: The elephant in Thai life and legend. Bangkok, Monsoon Editions.
- WILLIAMS (H.), 1989: Sacred elephant. New York, Harmony. 176 pp.
- WILSON (D.), 1995: Image-making in the elephant world. *Animal Keepers' Forum* 22(2): 50.
- WÜNSCHMANN (A.), SCHLIEMANN, EISENHOFER (S.), KOCK (K.), JAYEWARDENE (J.) & RÖHRING (H.-H.), 1995: Elefant und Mensch. [*Elephant and Human.*] Hamburg, Tierpark Hagenbeck. 46 pp.

- **Attitudes to Primates – visitor studies**

BODAMER (M.D.) SANKOVIC (J.M.), 2001: "We're all cousins!" A sampling of public comments at a zoo, reflecting people's sibling relationship with chimpanzees. In: The Apes, challenges of the 21st Century. May 10-13, 2000. Conf. proc. Brookfield, Chicago Zool. Soc.: 199-206. <http://www.brookfieldzoo.org/pagegen/inc/ACBodamer.pdf>

GOLD (K.) & BENVENISTE (P.), 1995: Visitor behavior and attitudes toward great apes at Lincoln Park Zoo. Ann. Proc. AZA Conf., Seattle, WA, Sep., 1995: 152-85.

LUKAS (K.E.) & ROSS (S.R.), 2005: Zoo visitor knowledge and attitudes towards gorillas and chimpanzees. J. Env. Educ. 36: 33-48.

PRICE (E.), ASHMORE (L.) & MCGIVERN (A.-M.), 1994: Reactions of zoo visitors to free-ranging monkeys. Zoo Biology 13: 355-73.

ROSS (S.), 2008: Not a laughing matter: conservation effects of portrayals. Connect, Sep. 2008: 24-6. http://www.aza.org/Publications/2008/09/f_media_sep08_web.pdf

ROSS (S.R.), LUKAS (K.E.), LONSDORF (E.V.), STOINSKI (T.S.), HARE (B.), SHUMAKER (R.) & GOODALL (J.), 2008: Inappropriate use and portrayal of chimpanzees. Science priorities. Policy forum. Science 319 (14 March 2008): 1487. www.sciencemag.org

STOINSKI (T.S.), OGDEN (J.J.), GOLD (K.) & MAPLE (T.L.), 2001: The role of great apes in the educational efficacy of modern zoos. In: The Apes, challenges of the 21st Century. May 10-13, 2000. Conf. proc. Brookfield, Chicago Zool. Soc.: 210-11.
<http://www.brookfieldzoo.org/pagegen/inc/ACStoinski.pdf>

ON-GOING AND UNPUBLISHED STUDIES :

NICOLODI (S.V.), 2009: "I'm a whole lot like a chimpanzee and a lot like you" – Untersuchungen zu den Bonobos als Grenzfigur. Universität Zürich, History Department.

SAVAGE (A.), 2010: CarTITILLA: a tool to engage rural Colombian school children in conserving the Cotton-top tamarin. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 1.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

STEVENS (J.M.G.), VERVAECKE (H.) & VANDEMOORTELE (H.), 2009: The message of ape conservation in Europe: cultural differences with America? Poster. 3rd Congress Eur. Fed. Primatology, 12-15 Aug. 2009, Zürich, Switzerland.

VANDEMOORTELE (H.), STEVENS (J.M.G.) & VERVAECKE (H.), 2009: Attitudes about Apes I: Visitors perceptions and knowledge. Poster. 11th BIAZA Res. Symp., 13-14 July 2009, Blackpool Zoo, UK.

VAN REYBROUCK (D.), 2000: From primitives to primates. A history of ethnographic and primatological analogies in the study of Prehistory. Proefschrift. [Thesis.] Leiden, Univ. Leiden.

BACKGROUND & FURTHER READING: ATTITUDES TO PRIMATES

ALEXANDER (S.E.), 2000: Resident attitudes towards conservation and black howler monkeys in Belize: the Community Baboon Sanctuary. Env. Conservation 37: 341-50.

ASQUITH (P.J.), 1995: Of monkeys and men: cultural views in Japan and the West. In: CORBEY (R.) &

THEUNISSEN (B.) (eds.): Ape, Man, Apeman. Changing views since 1600. Leiden, Leiden UP: 309-27.

CAVALIERI (P.) & SINGER (P.) (eds.), 1993: The great ape project. Equality beyond humanity. New York, St. Martin's Press. 312 pp.

CAVALIERI (P.), 2000: Les droits de l'homme pour les grands singes non humains? [Human rights for non-human great apes?] In: Le Débat 108, Dossier: Droits de l'homme, droits du singe, droits de l'animal. [Le Débat 108, Dossier: Human rights, ape/monkey rights, animal rights.] Paris, Gallimard.

CAVALIERI (P.), 2000: L'humanité au-delà des humains. [Humanity beyond humans.] In Le Débat 108, Dossier: Droits de l'homme, droits du singe, droits de l'animal. [Le Débat 108, Dossier: Human rights, ape/monkey rights, animal rights.] Paris, Gallimard.

CLARK (S.R.L.), 1993: Apes and the idea of kindred. In: CAVALIERI (P.) & SINGER (P.) (eds.): The great ape project. Equality beyond humanity. New York, St. Martin's Press: 113-25.

CORBET (R.), 1993: Ambiguous apes. In: CAVALIERI (P.) & SINGER (P.) (eds.): The great ape project. Equality beyond humanity. New York, St. Martin's Press: 126-44.

CORBET (R.), 2001: Negotiating the Ape-Human boundary. In: BECK (B.), STOINSKI (T.S.), HUTCHINS (M.), MAPLE (T.L.), NORTON (B.), ROWAN (A.), STEVENS (E.F.) & ARLUKE (A.) (eds.): Great Apes & Humans. The ethics of co-existence. Washington DC, Smithsonian Inst. Press: 163-75.

CORBET (R.) & THEUNISSEN (B.), 1995: Ape, Man, Apeman. Changing views since 1600. Leiden, Leiden UP.

DEGRAZIA (D.), 1997: Great Apes, Dolphins, and the concept of personhood. Southern J. of Philosophy 35(3): 301-20.

DE LAET (M.), 1991: De aap als spiegelbeeld: een verontrustend visioen. [Primates as mirror images: a disturbing vision.] Kennis & Methode I(XV): 142-47.

DIETZ (J.M.), DIETZ (L.A.) & NAGAGATA (E.Y.), 1994: The effective use of flagship species for conservation of biodiversity: the example of lion tamarins in Brazil. In: POSEY (D.A.), OLNEY (P.J.S.), MACE (G.M.) & FEISTNER (A.T.C.) (eds.): Creative conservation: interactive management of wild and captive animals. London, Chapman & Hall: 32-49.

FERRY (L.), 2000: Des 'droits de l'homme' pour les grands singes? Non, mais des devoirs envers eux, sans nul doute. [“Human rights” for great apes? No, but duties towards the: without any doubt.] In Le Débat 108, Dossier: Droits de l'homme, droits du singe, droits de l'animal. [Le Débat 108, Dossier: Human rights, ape/monkey rights, animal rights.] Paris, Gallimard.

Fuentes (A.) & Wolfe (L.) (eds.), 2002: Primates face to face: the conservation implications of human-nonhuman primate inter-connections. New York, Cambridge UP. 340 pp.

GIPPOLITI (S.), 2006: Applied primatology in zoos: history and prospects in the field of wildlife conservation, public awareness and animal welfare. Primate Report 73: 57-71.

GRIMM (J.), 2010: Monkey business. Affen als Figuren anthropologischer und ästhetischer Reflexion 1800-2000. [Primates as figures of anthropological and aesthetic reflexion 1800-2000.] Berlin, trafo Verlag.

HARAWAY (D.), 1989: Primate visions. Gender, race, and nature in the world of modern science. New York/London, Routledge.

HILL (C.M.), 2002: Primate conservation and local communities: ethical issues and debates. American Anthropologist 104: 1184-94.

INGENSIEP (H.W.), 1998: Mensch und Menschenaffe. [Human and ape.] In: MÜNCH (P.) (Hrsg.): Tiere und Menschen. Geschichte und Aktualität eines prekären Verhältnisses. [Animals and humans. History and current state of a precarious relationship.] Paderborn: 429-46.

INGENSIEP (H.W.), 2001: Kultur- und Zoogeschichte des Gorillas – Beobachtungen zur Humanisierung von

- Menschenaffen. [*Cultural and zoo history of the Gorilla – Observations on the humanisation of apes.*] In: DITTRICH (L.), VON ENGELHARDT (D.) & RIEKE-MÜLLER (A.) (Hrsg.): Kulturgeschichte des Zoos. [*A cultural history of the zoo.*] Ernst-Haeckel-Haus-Studien. Monographien zur Geschichte der Biowissenschaften und Medizin. Band 3. Berlin, Verlag für Wissenschaft und Bildung: 151-70.
- INGENSIEP (H.W.), 2008: Der Orang-Outang des Herrn Vosmaer. Ein aufgeklärter Menschenaffe. [*The orang-utan of Mr Vosmaer. An enlightened ape.*] In: ULLRICH (J.), WELTZIEN (F.) & FUHLBRÜGGE (H.) (Hrsg.): Ich, des Tier. Tiere als Persönlichkeiten in der Kulturgeschichte. [*Me, the animal. Animals as personalities in cultural history.*] Berlin, : 225-38.
- JENSEN (S.), 2007: Waarom vrouwen van apen houden. De vergeefse mensenliefde voor Bokito en andere apen. [*Why women love apes. Wasted human love for Bokito and other primates.*] Amsterdam, Prometheus. 328 pp.
- KAUFMAN MILSTEIN (K.), 1996: A zoo tragedy: grieving for our fellow primates. *Anthrozoös* 9(4): 153-57.
- KNIGHT (J.), 1999: Monkeys on the move: the natural symbolism of people-macaque conflict. *J. Asian Studies* 58: 622-47.
- MORRIS (D.) & MORRIS (R.), 1966: Men and apes. London, Hutchinson. 192 pp.
- NEKARIS (A.), 2009: Can we use the media to conserve primates? Lessons learnt from te “Top 25 Most Endangered Primates”. 2nd Ann. Symp. Bristol Conservation & Sci. Foundation – How can we save primates from extinction – 29 Sept 2009.
- OHNUKI-TIERNY (E.), 1987: The monkey as mirror: symbolic transformations in Japanese history and ritual. Princeton, Princeton UP.
- PETERSON (D.) & GOODALL (J.), 1993: Visions of Caliban: on chimpanzees and people. Boston, Houghton-Mifflin. 367 pp.
- RICHTER (V.), 2005: “Blurred copies of himself”. Der Affe als Grenzfigur zwischen Mensch und Tier in der europäischen Literatur seit der Frühen Neuzeit. [*The ape (monkey/primate) as border figure in European literature since early Modern Times.*] In: BÖHME (H.): Topographien der Literatur. Deutsche Literatur im transnationalen Kontext. [*Topographies in literature. German literature in transnational context.*] Stuttgart: 603-24.
- RILEY (E.P.), 2010: The importance of human-macaque folklore for conservation in Lore Lindu National Park, Sulawesi, Indonesia. *Oryx* 44(2): 235-40.
- RUEMPFER (G.), 1988: Wir Menschen und unsere nächsten Verwandten – Vorurteile und Wirklichkeit. [*Us humans and our next of kin – prejudices and realities.*] *Zoo Nachrichten* 2/88: 3-11.
- RUSSELL (C.L.), 1995: The social construction of orangutans: an ecotourist experience. *Society & Animals* 3(2): <http://www.psyeta.org/sa/sa3.2/russell.html>
- SCHEPERS (B.), 2007: Apen, simmekens, bevejanen en mertecooien – de aanwezigheid en symbolische betekenis van de aap in de maatschappij en beeldcultuur van de Lage Landen, 1500-1700. [*The presence and symbolic meaning of the monkey in Low Countries' society and image culture, 1500-1700.*] In: DEVISSCHER (H.) (red.): Wonderlycke dieren op papier in de tijd van Plantin. Antwerpen, Museum Plantin-Moretus/Prentenkabinet: 95-123.
- SOMMER (M.), 2000: Foremost in Creation: anthropomorphism and anthropocentrism in National Geographic articles on non-human primates. Diss. Uni. Zürich. Bern, Peter Lang.
- STOINSKI (T.S.), OGDEN (J.J.), GOLD (K.) & MAPLE (T.L.), 2001: Captive apes and zoo education. In: BECK (B.B.), STOINSKI (T.S.), HUTCHINS (M.), MAPLE (T.L.), NORTON (B.), ROWAN (A.), STEVENS (E.F.) & ARLUKE (A.) (eds.): Great apes & humans: the ethics of coexistence. Washington DC, Smithsonian Inst. Press: 113-32.
- ZUCKERMAN (S.), 1998: The ape in myth and art. Kelso, Verdigris Press.

- **Attitudes to reptiles: visitor studies**

BEVINS (R.A.) & BITGOOD (S.), 1989: Developing a device to assess attitudes towards snakes. *Visitor Studies* 2(1): 122-30.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5f4-a_5730.pdf

GIRAULT (Y.) & ROBINSON (M.-J.), 1993: Contribution to the study of children's conceptions of reptiles. *IZE J.* 28: 45-8.

HOFF (M.) & MAPLE (T.), 1982: Sex and age differences in the avoidance of reptile exhibits by zoo visitors. *Zoo Biology* 1(3): 263-69.

BACKGROUND & FURTHER READING: ATTITUDES TO REPTILES

BELLOSA (H.), DIRKSEN (L.) & AULIYA (M.), 2007: *Faszination Riesenschlangen – Mythos, Fakten und Geschichten.* [Fascination giant snakes – myths, facts and stories.] München, BLV.

ENGELMANN (W.E.) & OBST (F.-J.), 1984: Snakes: biology, behaviour and relationship to Man. [*Translation of Mit gespaltener Zunge. Aus der Biologie und Kulturgeschichte der Schlangen. Leipzig, Edition Leipzig, 1981.*] London, Croom Helm. 218 pp.

GRAHAM (A.) & BEARD (P.), 1990: Eyelids of morning: the mingled destinies of crocodiles and men. Reprint. New York, Chronicle Books. 260 pp.

GUGGISBERG (C.A.W.), 1972: Crocodiles: their natural history, folklore and conservation. Newton Abbot, David & Charles. 204 pp.

HIGHFIELD (A.C.) & BAYLEY (J.R.), s.d.: Folklore, myth and exploitation of reptiles in Morocco and Tunisia. <http://www.tortoisetrust.org/articles/exploit.html>

JONES (H.E.) & JONES (M.C.), 1928: Maturation and emotion: fear of snakes. *Childhood Educ.* 5: 136-43.

KLAUBER (L.M.), 1982: Rattlesnakes: their habits, life histories, and influence on Mankind. Abridged by K.H. McClung. Berkeley, Univ. of CA Press.

MORGAN (J.M.) & GRAMANN (J.H.), 1989: Predicting effectiveness of wildlife education programs – a study of students' attitudes and knowledge toward snakes. *Wildlife Soc. Bull.* 17: 501-09.

MORRIS (D.) & MORRIS (R.), 1965: Men and snakes. London, Hutchinson. 174 pp.

MURRAY (E.J.) & FOOTE (F.), 1979: The origins of fear of snakes. *Behav. Res. & Therapy* 17: 489-93.

SAX (B.), 1994: The basilisk and rattlesnake or a European monster comes to America. *Society & Animals* 2(1): <http://www.psyeta.org/sa/sa2.1/sax.html>

SEAL (J.), 1999: The Snakebite Survivors' Club. Travels among serpents. London, Picador. 378 pp.

ZIEGAN (K.), 2005: Die Schlange in der Kulturgeschichte. [The snake in cultural history.] *Milu* 11(4): 503-11.

- **Attitudes to zoos: visitor studies**

BITGOOD (S.) & THOMPSON (D.), 1987: How do people perceive museums, parks, and zoos? *Visitor Behav.* 2(3): 9-10.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2k7-a_5730.pdf

COLLIER (S.), 2007: Public perceptions of zoos: conservation or entertainment. *Zoo Research News - BIAZA Res. Newsletter* 8(2): 4.

FINLAY (T.), LAWRENCE (R.J.) & MAPLE (T.L.), 1988: People's perceptions of animals: the influence of zoo environment. *Env. & Behav.*, 20(4): 508-28.

FRASER (J.) & SICKLER (J.), 2008: Visitors' preconceptions about zoos and aquariums. *Connect*, Apr. 2008: 16-9.

ON-GOING AND UNPUBLISHED STUDIES:

CIESLIK (L.), 1993: Public opinion and animals in captivity. Unpublished doctoral diss.. Milwaukee, Univ. of Wisconsin-Milwaukee.

HYSON (J.N.), 1999: Urban jungles. Zoos and American society. Phil. Diss. Ithaca, Cornell Univ.

TAMILARASAN (M.), 1991: Study of visitors' attitude towards wild animals in zoos. M.Sc diss.. Trichy, Bharathidasan Univ.

BACKGROUND & FURTHER READING: ATTITUDES TO ZOOS

BOUMA (H.), 1982: Het verschijnsel dierentuin [*The zoo phenomenon.*] (I). *Dier* 65(1): 20-1 & (II). *Dier* 65(2): 27-9.

DAVEY (G.), 2005: Is zoo-going a human instinct ? Biophilia and zoos. *Int. Zoo News* 52(8): 452-59.

HILLENIUS (D.), 1976: Dieren en dierentuinen. Utrecht/Antwerpen, Het Spectrum. 156 pp.

KIDD (A.H.), KIDD (R.M.) & ZASLOFF (R.L.), 1995: Developmental factors in positive attitudes toward zoo animals. *Psychological Report* 76: 71-81.

KOOL (R.), 1987: Zoo and romance: the heart of the subject. *IZE J.* 18: 5-7.

PRINCEE (F.), 1999: Public perceptions of zoos (I). In: *Marketing zoos beyond 2000* . 2nd Int'l Zoo Mktg Conf., Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 24.

SALZERT (W.), 1992: Gedanken zur Akzeptanz und zum Schauwert von Zootierhaltungen. [*Thoughts on the acceptance and the display value of zoo animal collections.*] *Jahresbericht Zool. Garten Rostock* 1991 20: 21-6.

SIGSGAARD (J.), 1999: Public perceptions of zoos (II). In: *Marketing zoos beyond 2000* . 2nd Int'l Zoo Mktg Conf., Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 25-8.

VAN DER PLOEG (P.), 2000: Zoo marketing is all about Darwinism ! In: REID (G.McG.) & WHITEAR (J.) (eds.): *Marketing zoos beyond 2000*. Conf. proc.. WZO 1st Int'l Zoo Mktg Conf. 1997. Chester, North of England Zool. Soc.: 24-9. http://www.waza.org/marketing/downloads/1_AALBORG_1997.PDF

WHITEHEAD (M.), 1987: Fruit bats affect your life. *IZE J.* 17: 55-8.

7. LEISURE AND TOURISM STUDIES (Selective bibliography)

BACKGROUND & FURTHER READING: LEISURE STUDIES

- ANDERSON (D.H.) & BROWN (P.J.), 1984: The displacement process in recreation. *J. Leisure Res.* 16: 61-73.
- ARGYLE (M.), 1996: The social psychology of leisure. London, Penguin.
- BEARD (J.G.) & RAGHEB (M.G.), 1983: Measuring leisure motivations. *J. Leisure Res.* 15(3): 219-28.
- CHUBB (M.) & CHUBB (H.), 1981: One third of our time: an introduction to recreation behavior and resources. New York, Wiley & Sons.
- CLARK (R.N.), 1992: Alternative strategies for studying recreationists. In: MACHLIS (G.) & FIELD (D.) (eds.): *On interpretation*. Rev. ed. Corvallis, Oregon State UP: 23-41.
- CSIKSZENTMIHALYI (M.), 2000: Beyond boredom and anxiety: experiencing the flow in work and play. 2nd edn. San Francisco, Jossey-Bass.
- DUFFUS (D.A.) & DEARDEN (P.), 1990: Non-consumptive wildlife-oriented recreation: a conceptual framework. *Biol. Conservation* 53(3): 213-31.
- DUNN (D.R.), 1980: Urban recreation research: an overview. *Leisure Sciences* 3(1): 25-7.
- GELDOF (D.), 2001: Onthaasting. Op zoek naar tijd in de risicomaatschappij. [“De-hasting”. *Looking for time in a risk society.*] Antwerpen, Houtekiet. 200 pp.
- HANNAM (K.), 2010: Heterogenous spaces of tourism and recreation at Mumbai zoo, India. In: FROST (W.) (ed.): *Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism*. Clevedon, Channel View Publications: 112-20.
- HENDERSON (K.) & BIALESCHKI (D.), 1995: Evaluating leisure services: making enlightened decisions. State College, Venture Publishing.
- HYSON (J.), 2008: Zoos und die Amerikanische Freizeitkultur. [Zoos and the American leisure culture.] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [Schönbrunn Zoo in international perspective from the 18th century to the present.] Wien, Böhlau. 225-49.
- KAREIVA (P.), 2008: Ominous trends in nature recreation. *Proc. Nat'l Acad. Sciences USA* 105: 2757-8. <http://www.pnas.org/content/105/8/2757.full>
- KNIGHT (R.L.) & GUTZWILLER (K.J.) (eds.), 1995: Wildlife and recreationists. Washington DC, Island Press.
- LEE (Y.), DATTILO (I.) & HOWARD (D.), 1994: The complex and dynamic nature of leisure experiences. *J. Leisure Res.* 26: 195.
- MANFREDO (M.) & BRIGHT (A.), 1991: A model for assessing the effects of communication on recreationists. *J. Leisure Res.* 23(1): 1-20.
- MANNELL (R.C.) & ISO-AHOLA (S.E.), 1987: Psychological nature of leisure and tourism experiences. *Annals of Tourism Res.* 14: 314-31.
- NAVRUD (S.) & MUNGATANA (E.), 1994: Environmental valuation in developing countries: the recreational value of wildlife viewing. *Ecol. Economics* 11: 135-51.
- PERGAMS (O.R.W.) & ZARADIC (P.A.), 2006: Is love of nature in the US becoming love of electronic media? 16-year downtrend in national park visits explained by watching movies, playing video games, internet use, and oil prices.

J. Env. Mgmt 80: 387-93.

PERGAMS (O.R.W.) & ZARADIC (P.A.), 2008: Evidence for a fundamental and pervasive shift away from nature-based recreation. Proc. Nat'l Acad. Sciences USA 105: 2295-300. <http://www.pnas.org/content/105/7/2295.abstract>

PINE (B.J.) & GILMORE (J.H.), 1998: Welcome to the experience economy. Harvard Business Review 76: 97-105.

PINE (B.J.) & GILMORE (J.H.), 1999a: The experience economy. Museum News 78(2): 45-8.

PINE (B.J.) & GILMORE (J.H.), 1999b: The experience economy. Work is theater & every business is a stage. Boston, Harvard Business School Press.

PINE (B.J.) & GILMORE (J.H.), 2005: Pine & Gilmore's field guide for the experience economy. Aurora, Strategic Horizons.

SCHERRIEB (H.-R.), 2002: Der Zoo als Freizeitdestination. Zielgruppen – Erwartungen – Erlebnisse. ZooKunft 2002. Masterplan: Modeerscheinung oder Zukunftsicherung? Quantum Conservation/Zoo Leipzig. Leipzig, 22-24. Feb. 2002. [The zoo as leisure destination. Target groups – Expectations – Experiences. ZooKunft 2002. Masterplan: fad or safeguarding the future? Quantum Conservation/Leipzig Zoo, 22-24 Feb. 2002.] Oldenburg, Quantum Conservation.

SCOTT (C.) & BURTON (C.), 2000: What do we seek in our leisure? Museum National, May: 26.

SHACKLEY (M.L.), 1996: Wildlife tourism. London, Routledge. 152 pp.

SHAW (W.W.), MANGUN (J.) & LYONS (R.), 1985: Residential enjoyment of wildlife resources by Americans. Leisure Sciences 7.

STEWART (W.P.) & HULL (R.B.), 1996: Capturing the moments: concerns of in situ leisure research. J. Travel & Tourism Mktg 5(1/2): 3-20.

TUAN (Y.-L.), 1998: Escapism. Baltimore, Johns Hopkins UP. 245 pp.

US FISH AND WILDLIFE SERVICE, 2007: 2006 National survey of fishing, hunting and wildlife associated recreation. National overview. Washington DC, USFWS.

WHITE (D.), 1999: Location based entertainment in the digital age. The 8th TILE 1999 Conference Proceedings: 19-22.

BACKGROUND & FURTHER READING: TOURISM (SELECTIVE BIBLIOGRAPHY)

ALMAGOR (U.), 1990: A tourist's vision quest in an African game reserve. Annals of Tourism Res. 11(3): 31-47.

FRASER (J.), CONDON (K.) & GRUBER (S.), 2008: The tourist value proposition of zoos and aquariums. Tourism Review Int'l 11(3): 279-93.

FROST (W.) (ed.), 2010: Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View. 272 pp.

FROST (W.), 2010: Rethinking zoos and tourism. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View: 1-12.

FROST (W.), 2010: Zoos as tourist attractions: theme parks, protected areas or museums? In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View: 121-32.

FROST (W.), 2010: Zoos and tourism in a changing world. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View: 227-35.

MASON (P.), 2000: Zoo tourism: the need for more research. J. of Sustainable Tourism 8(4): 333-39.

TRIBE (A.), 2001: Captive wildlife tourism in Australia. Wildlife Tourism Research Report Series No. 14. Gold Coast, CRC for Sustainable Tourism.

VAN DIEPEN (A.) & ENNEN (E.), 2010: The construction of destinations. Symbolic meanings for destinations and visitors. In: BURNS (P.), LESTER (J.A.) & BIBBINGS (L.) (eds.): Tourism and visual culture. Vol. 2.: 146-55.

8. INFORMATION

BACKGROUND & FURTHER READING: INFORMATION

ESTER (P.), 1977: De betrekkelijkheid van voorlichting. [*The relativity of information.*] Milieu-Defensie, okt. 1977: 26-7.

SCREVEN (C.G.), 1999: Information design in informal settings: museums and other public spaces. In: JACOBSON (R.) (ed.): *Information design*. Cambridge, MIT Press.

STEMERDING (A.H.S.), 1977: Vorming, voorlichting, beïnvloeding in de moderne maatschappij. 4^{de} gewijzigde druk. [*Education, information, persuasion in modern society. 4th updated edition.*] Aula 339. Utrecht/Antwerpen, Het Spectrum. 204 pp.

VAN DEN BAN (A.W.), 1982: Inleiding tot de voorlichtingskunde. [*Introduction to the science of information.*] Meppel, Boom. 294 pp.

VAN WOERKOM (C.), 1976: Schriftelijke voorlichting. [*Written information.*] Intermediair 12(17):

9. INFORMAL EDUCATION

ON-GOING OR UNPUBLISHED STUDIES:

DILLON (J.) & SIRETEANU (R.), 2006: The latest research about learning: new research on how we learn. Abstract. ECSITE Conf. 2006, Technopolis, the Flemish Science Centre, Mechelen, Belgium. 8-10 June 2006. Programme book. Mechelen/Brussels, Technopolis/ECSITE: 28.

BACKGROUND & FURTHER READING: INFORMAL EDUCATION/FREE-CHOICE LEARNING - GENERAL

AMS (M.), FALK (J.H.) & DIERKING (L.D.), 2003: Things change: museums, learning & research. In: XANTHOUDAKI (M.), TICKLE (L.) & SEKULES (V.) (eds.): Researching visual arts education in museums and galleries: an international reader. Amsterdam, Kluwer Academic.

ANDERSON (D.), LUCAS (K.) & GINNS (I.), 2003: Theoretical perspectives on learning in an informal setting. *J. Res. Sc. Teaching* 40: 177-99.

ANON., 2010: Learning in the wild. Much of what people know about science is learned informally. Education policy-makers should take note. *Nature* 464: 813-14.

BALLANTYNE (R.) & PACKER (J.), 2005: Solitary vs. shared: exploring the social dimension of museum learning. *Curator* 48: 177-92.

BALLANTYNE (R.) & UZZELL (D.), 1994: A checklist for the critical evaluation of informal environmental learning experiences. *Int'l J. Env. Educ. Interpretation* 13(2): 111-24.

BAMBERGER (Y.) & TAL (T.), 2007: Learning in a personal context: levels of choice in a free choice learning environment in science and natural history museums. *Sc. Educ.* 91: 75-95.

BEKERMAN (Z.), BURBULES (N.C.) & SILBERMAN-KELLER (D.), 2006: Learning in places: the informal education reader. New York, Peter Lang. 315 pp.

BITGOOD (S.), 1988: A comparison of formal and informal learning. Report 88-10. Jacksonville, Ctr for Social Design.

BITGOOD (S.), SERRELL (B.) & THOMPSON (D.), 1994: The impact of informal education on visitors to museums. In: CRANE (V.), NICHOLSON (H.), CHEN (M.) & BITGOOD (S.) (eds.), 1994: Informal science learning: what the research says about television, science museums, and community-based projects. Dedham/Ephrata, Research Communications/Science Press: 61-106.

BORUN (M.) & MASSEY (C.), 1994: New ways to look at learning. *J. Museum Educ.* 19(2): 18-20.

BOUSSEKEY (M.), 1990: Looking does not mean observing. Observing does not mean understanding. Learning requires time. *IZE J.* 24: 39-41.

BOWMAN (L.), 1989: Leisure learning: the correlation of age and attitude. *AAZPA Reg. Conf. Proc.*:

BRANSFORD (J.), 1979 : Human cognition: learning, understanding and remembering. Belmont, Wadsworth. 300 pp.

CRANE (V.), 1994: An introduction to informal science learning and research. In: CRANE (V.), NICHOLSON (H.), CHEN (M.) & BITGOOD (S.) (eds.), 1994: Informal science learning: what the research says about television, science museums, and community-based projects. Dedham/Ephrata, Research Communications/Science Press: 1-14.

DIERKING (L.D.), COHEN JONES (M.), WADMAN (M.), FALK (J.H.), STORKSDIECK (M.) & ELLENBOGEN (K.M.), 2002: Broadening our notions of the impact of free-choice learning experiences. *Informal Learning Review*

55(1): 4-7.

FALK (J.H.) & DIERKING (L.D.), 1998: Free-choice learning: an alternative term to informal learning? *Informal Learning Environments Res.* 2(2).

FALK (J.H.) & DIERKING (L.D.), 2002: Lessons without limit: how free-choice learning is transforming education. Walnut Creek, AltaMira Press.

FALK (J.H.), MOUSSOURI (T.) & COULSON (D.), 1998: The effect of visitors' agendas on museum learning. *Curator*, 41(2): 106-20.

GAGNE (R.M.), 1965: The conditions of learning. New York, Holt, Rinehart & Winston. 256 pp.

GROUNDWATER-SMITH (S.) & KELLY (L.), 2009: Learning outside the classroom: a partnership with a difference. In: CAMPBELL (A.) & GROUNDWATER-SMITH (S.) (eds.): Connecting inquiry and professional learning in education. 2nd edn. London, Routledge: 179-91.

HAM (S.) & KRUMPE (E.), 1996: Identifying audiences and messages for nonformal environmental education: a theoretical framework for interpreters. *J. Interpretation Res.* 1(1): 11-23.

HAMPSON (P.) & MORRIS (P.), 1996: Understanding cognition. Cambridge, Wiley-Blackwell. 399 pp.

HEIMLICH (J.E.), DIEM (J.) & FARRELL (E.), 1996: Adult learning in non-formal institutions.

<http://www.cete.org/acve/docgen.asp?tbl=digest&ID=26>

KOLB (D.A.), 1984: Experiential learning. Experience as the source of learning and development. Englewood Cliffs, Prentice-Hall.

KRAPP (A.), 1999: Interest, motivation and learning: an educational-psychological perspective. *Eur. J. Psych. of Educ.* XIV(1): 23-40.

LUCAS (A.M.), 1991: "Info-tainment" and informal sources for learning science. *Int'l J. Sci. Educ.* 13(5): 495-504.

MARTIN (L.), 2001: Free-choice learning: future directions for researchers. In: FALK (J.) (ed.): Free-choice science education: how we learn science outside of school. New York, Teacher's College Press, Columbia Univ.: 186-98.

MARTIN (L.), 2004: An emerging research framework for studying informal learning and schools. *Sci. Educ.* 88: S71-S82.

MCLEAN (K.), 2006: Research questions asked by informal learning practitioners: a seriously informal survey. *Visitor Studies Today* 9(1): 18-22.

MEREDITH (J.E.), FORTNER (R.W.) & MULLINS (G.W.), 1997: Model of affective learning for nonformal science education facilities. *J. Res. Sci. Teaching* 34: 805-18.

MEYERS (R.B.), 2005: A pragmatic epistemology for free-choice learning. *Env. Educ. Res.* 11(3): 309-20.

PACKER (J.) & BALLANTYNE (R.), 2004: Is educational leisure a contradiction in terms? Exploring the synergy of education and entertainment. *Annals of Leisure Res.* 7(1): 54-71.

RAPHLING (B.) & SERRELL (B.), 1993: Capturing affective learning. *Current Trends Audience Res. & Evaluation* 7: 57-62.

RENNIE (L.J.) & JOHNSTON (D.J.), 2004: The nature of learning and its implications for research on learning from museums. *Sci. Educ.* 88(S1): S4-S16.

SCHAUBLE (L.), BANKS (D.), COATES (G.D.), MARTIN (M.W.) & STERLING (P.), 1996: Outside the classroom walls: learning in informal environments. In: SCHAUBLE (L.) & GLASER (R.) (eds.): Innovations in learning: new environments for education. Mahwah, Erlbaum: 5-24.

SCHAUBLE (L.), LEINHARDT (G.) & MARTIN (L.), 1997: A framework for organizing a cumulative research

agenda in informal learning contexts. *J. Museum Educ.* 22(2-3): 3-7.

BACKGROUND & FURTHER READING: EDUCATIONAL GOALS

BLOOM (B.S.), 1956: Taxonomy of educational objectives: the classification of educational goals. Handbook I: Cognitive domain. New York, David McKay.

CHURCHMAN (D.), 1978: Selecting educational goals: is everybody happy ? *Educ. Technology* 18: 1.

• Evaluating/measuring informal learning: visitor studies

MCBIRNEY (M.), 1987: Evaluation of informal education. In: Proc., The 1st Int'l Children's Zoo Symp., July 1-4, 1987, The Philadelphia Children's Zoo. Philadelphia, Philadelphia Zoo: 103-9.

BACKGROUND & FURTHER READING: EVALUATING/MEASURING INFORMAL LEARNING

GAMMON (B.), 2003: Assessing learning in museum environment. A practical guide for museum evaluators. London, Science Museum. 28 pp. http://www.ecsite-uk.net/events/reports/indicators_learning_1103_gammon.pdf

MEUNIER (A.), 2007: Measuring learning in Parks Canada informal educational settings. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 3-4.

Abstract: <http://www.visitorstudiesarchives.org>

PERSSON (P.-E.), 1999: Science centres: motivational, not didactic. *ECSITE Newsletter* 41: 10-11.

SCHOUTEN (F.), 1978: Evaluaties in het educatieve werk. [*Evaluation studies in educational work.*] *Museumvisie* 1(3/4): 28-29.

SMITH (J.K.), 1989: Methods of measuring learning. *IZE J.* 22: 27-29.

- **Informal learning in zoos and aquariums : visitor studies**

CHURCHMAN (D.), 1985: How and what do recreational visitors learn at zoos? AAZPA 1985 Reg. Proc.: 160-76.

DIERKING (L.D.), BURTNYK (K.), BUCHNER (K.S.) & FALK (J.H.), 2002: Visitor learning in zoos and aquaria. Annapolis, Inst. for Learning Innovation

FALK (J.H.) & ADELMAN (L.), 2003: Investigating the impact of prior knowledge and interest on aquarium visitor learning. J. Res. Sci. Teaching 40(2): 163-76.

LINDEMANN-MATTHIES (P.) & KRAMER (T.), 2006: The influence of an interactive educational approach on visitors' learning in Swiss zoo. Sci. Educ. 90: 296-315.

TOFIELD (S.), COLL (R.K.), VYLE (B.) & BOLSTAD (R.), 2003: Zoos as a source of free choice learning. Res. in Science & Technol. Educ. 21(1): 67-99.

Abstract: <http://www.informaworld.com/smpp/content~content=a713695046~db=all>

ONGOING OR UNPUBLISHED STUDIES:

HODGES (S.), 1976: Responsive learning environments in zoos. Presented at the Animal Behavior Soc. meeting, Tulane Univ., New Orleans, June 1979.

JENSEN (E.), 2009: Do zoos foster science learning? Evaluating the impact of science communication activities at the London Zoo. BIAZA ACE Conf., Knowsley Safari Park.

KELLERT (S.R.) & DUNLAP (J.), 1989: Informal learning at the zoo: a study of attitude and knowledge impacts. Unpublished report to the Zool. Soc. of Philadelphia.

ROSENFELD (S.), 1980b: Informal learning in zoos: naturalistic studies of family groups. PhD thesis. Berkeley, Univ. of CA at Berkeley. 184 pp.

BACKGROUND & FURTHER READING: INFORMAL LEARNING IN ZOOS AND AQUARIUMS

ANTONIUS (O.), 1934: Die Bedeutung der Zoologischen Gärten für die volkstümliche Belehrung auf dem Gebiete der Biologie. [The significance of zoological gardens for the popular education in the field of biology.] Der Zool. Garten 7: 217-21.

ANTONIUS (O.), 1934: Schlußwort. [Conclusion.] Der Zool. Garten 7: 222-23.

CHURCHMAN (D.), 1984: Issues regarding nonformal evaluation of nonformal education in zoos. In: KING (J.) (ed.), 1984: Proc., 1984 Biennial Conf.. Newsletter IZE 13: 58-62.

McVAY (S.), 1987: Introduction to Conference on Informal Learning at the Zoo. Philadelphia Zoo Review 3: 4.

ROSENFELD (S.), 1979: A model for informal zoo education for casual visitors. Newsletter IZE 3: 6-17.

ROSENFELD (S.), 1980: The context of informal learning in zoos. Roundtable Reports 4(2): 1-3, 15-6.

WALTHER (R.), 1934: Die Bedeutung der Zoologischen Gärten für die volkstümliche Belehrung auf dem Gebiete der Biologie. [The significance of zoological gardens for the popular education in the field of biology.] Der Biologe 3(10): 254-7.

WALTHER (R.), 1934: Kurze Stellungnahme zu dem vorstehenden Aufsatz des Herrn Antonius, Wien. [Brief response on the preceding paper by Mr Antonius, Vienna.] Der Zool. Garten 7: 221-2.

BACKGROUND & FURTHER READING: INFORMAL SCIENCE LEARNING

BRAUND (M.), 2005: Learning outside the classroom. ECSITE Newsletter 63 (Summer 2005): 10-11.

BRAUND (M.) & REISS (M.) (eds.), 2004: Learning science outside the classroom. London, RoutledgeFalmer

FALK (J.H.) (ed.), 2001: Free-choice science education: how we learn outside of school. New York, Teachers College Press.

JENSEN (E.) & HOLLIMAN (R.), 2009: Investigating science communication to inform science outreach and public engagement. In: HOLLIMAN (R.) et al (eds.): Investigating science communication in the information age: implications for public engagement and popular media. Oxford, Oxford UP.

MCCALLIE (E.), BELL (L.), LOHWATER (T.), FALK (J.H.), LEHR (J.L.), LEWENSTEIN (B.V.), NEEDHAM (C.) & WIEHE (B.), 2009: Many experts, many audiences: public engagement with science and informal science. A CAISE Inquiry Group report. Washington DC, CAISE. 83 pp.

http://caise.insci.org/uploads/docs/public_engagement_with_science.pdf

RENNIE (L.J.), & JOHNSTON (D.J.), 2007: Visitors' perceptions of changes in their thinking about science and technology following a visit to science center. Visitor Studies 10(2): 168-77.

BACKGROUND & FURTHER READING: LEARNING MOTIVATION

CONROY (P.), 1988: Cheap thrills and quality learning. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>

CSIKSZENTMIHALYI (M.) & HERMANSON (K.), 1995: Intrinsic motivation in museums: what makes visitors want to learn? Museum News 1995(5): 35-7, 59-61.

CSIKSZENTMIHALYI (M.) & HERMANSON (K.), 1999: Intrinsic motivation in museums: why does one want to learn? In: HOOPER-GREENHILL (E.) (ed.): The educational role of the museum. 2nd edn. New York, Routledge.

FALK (J.H.), 2006: The impact of visit motivation on learning: using identity as a construct to understand the visitor experience. Curator, 49(2): 151-66. www.aza.org/coned/mirp/

FALK (J.H.), 2009: Identity and museum visitor experience. Walnut Creek, Left Coast. 302 pp.

FALK (J.), STORKSDIECK (M.) & STEIN (J.), 2007: Visitor identity-related motivations: an exploration of the theory, findings and potential of this research construct for understanding visitor learning and for promoting more effective use of museum resources. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 4-5. Abstract: <http://www.visitorstudiesarchives.org>

KORAN Jr (J.J.), 1984: Attention and curiosity in museums. J. Res. Sci. Teaching 21(4): 357-63.

KORAN (J.J.), FOSTER (J.S.) & KORAN (M.L.), 1989: The relationship among interest, attention, and learning in a natural history museum. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

Abstract: <http://www.visitorstudiesarchives.org>

MASLOW (A.H.), 1970: Motivation and personality. 2nd edn. New York, Viking Press.

PACKER (J.), 2006: Learning for fun: the unique contribution of educational leisure experiences. Curator 49(3): 329-44.

PACKER (J.) & BALLANTYNE (R.), 2002: Motivational factors and the visitor experience: a comparison of three sites. Curator 45: 183-98.

PETERSON (R.W.) & LOWERY (L.F.), 1972: The use of motor activity as an index of curiosity in children. *J. Res. Sci. Teaching* 9(3): 193-200.

BACKGROUND & FURTHER READING: LEARNING STYLES

CHAPO (J.), 1987: Educational theory/teaching and learning styles. In: Proc., The 1t Int'l Children's Zoo Symp., July 1-4, 1987, The Philadelphia Children's Zoo. Philadelphia, Philadelphia Zoo: 79-86.

CONDRY (J.), 1977: Enemies of exploration: self-initiated versus other-initiated learning. *J. Personality & Social Psych.* 35: 459-77.

DIERKING (L.), 1991: Learning theory and learning styles: an overview. *J. Museum Educ.* 16(1): 4-6.

KOLB (D.A.), 1999: Learning style inventory. Version 3. Boston.

KORAN (J.J.), KORAN (M.L.) & FOSTER (J.S.), 1988: Individual differences in learning in informal settings. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): *Visitor studies: Theory, research, and practice*. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>

PLAISANCE (S.), 1984: Learning styles: how people prefer to learn. AAZPA 1984 Ann. Proc.: 406-12.

SERRELL (B.), 1990: Learning styles and museum visitors. In: SERRELL (B.) et al: *What research says about learning in science museums*. Washington DC, ASTC.

WINSLOW (W.J.), 1988: Learning styles for volunteer guides. AAZPA 1988 Ann. Proc.: 319-21.

BACKGROUND & FURTHER READING: LEARNING THEORY

ANDERSON (D.), LUCAS (K.B.) & GINNS (I.S.), 2003: Theoretical perspectives on learning in an informal setting. *J. Res. Science Teaching* 40(2): 177-99

BRUNER (J.S.), 1960: *The process of education*. Cambridge, Harvard UP.

DIERKING (L.), 1991: Learning theory and learning styles: an overview. *J. Museum Educ.* 16(1): 4-6.

HEIN (G.E.), 1996: Constructivist learning theory. In: DURBIN (G.) (ed.): *Developing museum exhibitions for lifelong learning*. London, The Stationery Office: 30-4.

HOOGSTRAAT (E.) & VELS HEIJN (A.), 2006: *De leertheorie van Kolb in het museum. Dromer Denker Beslisser Doener. [Kolb's learning theory in the museum. Dreamer Thinker Decision maker Do-er.]* Amsterdam, Museumvereniging. 86 pp.

MALONE (J.), 1990: *Theories of learning: a historical approach*. Belmont, Wadsworth.

SIEMENS (G.), 2004: Connectivism: a learning theory for the digital age.
www.elearnspace.org/articles/connectivism.htm

SIEMENS (G.), 2006: Connectivism: museums as learning ecologies. Presentation to the Canadian Heritage Information Network's Roundtable on e-Learning, Mar. 2006. www.elearnspace.org/media/chin/player.html

10. INTERPRETATION

• Interpretation in zoos and aquariums – visitor studies

WEILER (B.) & HAM (S.H.), 2010: Development of a research instrument for evaluating the visitor outcomes of face-to-face interpretation. *Visitor Studies* 13(2): 187-205.

WEILER (B.) & SMITH (L.), 2009: Does more interpretation lead to greater outcomes? An assessment of the impacts of multiple layers of interpretation in a zoo context. *J. Sustainable Tourism* 17(1): 91-105.

ON-GOING AND UNPUBLISHED STUDIES :

MÜHLER (I.), 1975: Nutzung verschiedener bildungshilfen im frankfurter Zoo durch die Besucher. [Visitor use of various education aids at Frankfurt Zoo.] Staatsexamensarbeit . Frankfurt. Unpublished.

WILLIS (J.R.), 1977: Visitor analysis at the Cincinnati Zoo with implications for interpretive planning. Masters Thesis. Cincinnati, Ohio State Univ. Unpublished.

BACKGROUND & FURTHER READING: INTERPRETATION

ABBOTT (H.), 2002: The Cambridge introduction to narrative. Cambridge, Cambridge UP.

ANDERSEN (L.L.), 1991: Zoo interpretation and exhibit design: two sides of the same coin. *J. Museum Educ.* 16(2): 4-6.

ANDERSEN (L.L.), 1992: Exhibit design: how to interpret. *IZE J.* 25: 5-8.

ANDERSEN (L.L.), 2003: Zoo education: from formal school programmes to exhibit design and interpretation. *Int. Zoo Yb.* 38: 75-81.

BARCLAY (D.) (ed.), 1984: Interpretation of the environment: a bibliography. Dunfermline, Carnegie UK Trust. 50 pp.

BECK (L.) & CABLE (T.), 1998: Interpretation for the 21st century: Fifteen guiding principles for interpreting nature and culture. Champaign, Sagamore. 208 pp.

BECK (L.) & CABLE (T.), 2002: The meaning of interpretation. *J. Interpretation Res.* 7(1): 7-11.

BIERLEIN (J.), 1988: Interpretive planning during an era of redevelopment. *AAZPA 1988 Ann. Proc.*: 182-91.

BROCHU (L.), 2003: Interpretive planning: the 5-M model for successful planning projects. Fort Collins, Interp Press.

CARTER (J.) (ed.), 1997: A sense of place: an interpretive planning handbook. Inverness, Highlands & Islands Enterprise Board; www.scotinterp.org.uk

CORNELL (J.B.), 1989: Sharing the joy of nature. Nevada City, Dawn Publications.

DIECKMANN (R.), 2002: Tiere verstehen – Wie sag ich's dem Besucher? [Understanding animals – How do I tell the visitor?] *Zeitschrift des Kölner Zoo* 45(2): 81-4.

FIELD (D.R.) & WAGAR (J.A.), 1973: Visitor groups and interpretation in parks and other outdoor leisure settings. *J. of Env. Educ.* 5(1): 12-17.

- FREED (M.), 1983: How do you know you are a good interpreter? *The Interpreter*, Winter 1983:
- FURSE-ROBERTS (J.), 2009: Interpretation master planning: creating holistic narrative experiences. *Roots* 6(1): 5-8.
- GARLINGTON (J.), 1987: Matching messages and media. In: Proc., The 1st Int'l Children's Zoo Symp., July 1-4, 1987, The Philadelphia Children's Zoo. Philadelphia Zoo: 50-3.
- GROSS (M.P.) & ZIMMERMAN (R.), 2002: Park and museum interpretation: helping visitors find meaning. *Curator* 45: 265-76.
- HAM (S.H.), 1992: Environmental interpretation: a practical guide for people with big ideas and small budgets. Golden, North American Press. 456 pp.
- HAM (S.H.), 1999: Cognitive psychology and interpretation: synthesis and application. In: HOOPER-GREENHILL (E.) (ed.): *The educational role of the museum*. 2nd ed. New York, Routledge: 161-71.
- HAM (S.H.) & WEILER (B.), 2007: Isolating the role of on-site interpretation in a satisfying experience. *J. Interpretation Res.* 12(2): 5-24.
- HAMMITT (W.), 1981: A theoretical foundation for Tilden's interpretive principles. *J. Env. Educ.* 12(3): 13-6.
- INTERPRETATION AUSTRALIA, 2004: What is interpretation? Woodford, Interpretation Australia Assn. www.interpretationaustralia.asn.au/aboutwhatis.htm
- JACKEL (S.), 1983: The education of Baldy Thompson. Proc. IUDZG Ann. Conf. 1983, Melbourne: 115-20.
- JACKSON-GOULD (J.S.), 1992: Current approaches to interpretation in zoos. In: NICHOLS (S.K.) (ed.): *Patterns in practice: Selections from the J. of Museum Education*. Washington DC, Museum Educ. Roundtable.
- KELSEY (E.), 2001: Spontaneous interpretation of real life events: an innovation in conservation education. *IZE J.* 37: 8-11.
- KNAPP (D.), 2008: Applied interpretation: putting research into practice. Fort Collins, InterpPress/NAI. 162 pp.
- KNUTSON (D.M.), CABLE (T.T.) & BECK (L.), 2002: Interpretation of cultural and natural resources. 2nd edn. State College, Venture.
- LARSON (D.L.), 2003: Meaningful interpretation: how to connect hearts and minds to places, objects, and other resources. Eastern National.
- LARSON (M.A.), 1982: How to analyze our failure to communicate. *The Interpreter*, Summer 1982: 10.
- LEE (C.) (ed.), 1998: Bibliography of interpretive resources. Fort Collins, Nat'l Assn. for Interpretation.
- LEWIS (W.J.), 1981: Interpreting for park visitors. Eastern Acorn Press.
- LOOMIS (R.), 1996: How do we know what the visitor knows ? Learning from interpretation. *J. Interpretation Res.* 1(1): 39-45.
- MACHLIS (G.), 1992: Interpretation in an urban society. In: MACHLIS (G.) & FIELD (D.) (eds.): *On interpretation*. Rev. edn.. Corvallis, Oregon State UP: 139-49.
- MACHLIS (G.) & FIELD (D.) (eds.), 1992: *On interpretation*. Rev. edn.. Corvallis, Oregon State UP. 176 pp.
- MARKWELL (K.), 1993: An interpretation planning model for use in zoos. *IZE J.* 29: 38-45.
- MARTIN (A.), 1983: Zoo education: the zoo as a community resource. *Bull. of Zoo Mgmt* 21: 31-3.
- MARTIN (A.), 1984: The zoo as a community resource. *Int. Zoo News* 31(5): 2-5.

NATIONAL ASSOCIATION FOR INTERPRETATION, 2003: Bibliography of interpretive resources. J. Interpretation Res. 8(2): 1-164.

NOSCHKA-ROOS (A.), 2001: Bausteine eines besucherorientierten Informationskonzept. [*Elements of a visitor-oriented information concept.*] In: SCHWARZ (U.) & TEUFEL (P.) (Hrsg.), 2001: Handbuch Museografie und Ausstellungsgestaltung. [*Handbook of museography and exhibition design.*] Ludwigsburg.

NYBERG (K.L.), 1992: Some radical comments on interpretation: a little heresy is good for the soul. In: MACHLIS (G.) & FIELD (D.) (eds.): On interpretation. Rev. edn. Corvallis, Oregon State UP: 151-56.

O'BRIEN (P.), 1988: Training for narrative interpretation. AAZPA 1988 Ann. Conf. Proc.: 303-11.

O'CONNOR (T.), 2010: Trends in zoo and aquarium exhibit interpretation. Newport, Oregon Coast Aquarium/Terry O'Connor Consulting. 26 pp.

<http://www.izea.net/education/Trends%20in%20Zoo%20and%20Aquarium%20Exhibit%20Interpretation.pdf>

OSLAND (D.), 2006: More than a plant label: creatively engaging the public. In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-5.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

PEARCE (S.M.), 1994: Interpreting objects and collections. London, Routledge.

PEKARIK (A.J.), 2004: To explain or not to explain. Curator 47: 12-8.

PIERSSENÉ (A.), 2000: Explaining our world. London, Routledge.

REGNIER (K.), GROSS (M.) & ZIMMERMAN (R.), 1992: The interpreter's guidebook: techniques for programs and presentations. Univ. of Wisconsin.

ROGGENBUCK (J.W.) & PROBST (D.B.), 1982: Evaluation of interpretation. J. of Interpretation 7(1): 13.

RYKEN (A.E.), 2009: Interpreting nature: connecting to visitor understandings. Roots 6(1): 9-13.

SHARPE (G.), 1982: Interpreting the environment. 2nd edn. New York, Wiley & Sons.

TILDEN (F.), 1977: Interpreting our heritage. 3rd edn. Chapel Hill, Univ. of North Carolina Press.

UZZELL (D.), 1998: Interpreting our heritage: a theoretical interpretation. In: UZZELL (D.) & BALLANTYNE (R.) (eds.): Contemporary issues in heritage and environmental interpretation. London, The Stationery Office: 11-25.

UZZELL (D.) & BALLANTYNE (R.) (eds.): Contemporary issues in heritage and environmental interpretation. London, The Stationery Office.

VEVERKA (J.A.), s.d.: Tips and concepts for planning truly "interpretive" exhibits. http://portal.uni-freiburg.de/interpreteurope/service/publications/recommended-publications/veverka_truly_interpretive_exhibits.pdf

VEVERKA (J.), 1994: Interpretive master planning. Helena, Falcon Press.

VEVERKA (J.A.), 1999: Where is the interpretation in interpretive exhibits. Unpublished paper. www.hertigeinterp.com

WAGER (J.), 1976: Evaluating the effectiveness of interpretation. J. Interpretation 1(1): 1-8.

WELLS (M.), ADAMS (A.) & WRIGHT (B.), 1995: Evaluating interpretation: an annotated bibliography. Fairfax, Centre for Recreation Resources Policy, George Mason Univ.

WIDNER WARD (C.) & WILKINSON (A.E.), 2006: Conducting meaningful interpretation: a field guide for success. Golden, Fulcrum.

11. EXHIBIT EVALUATION

- Evaluation in zoos**

BARRY (S.), 1984: Report on group discussion: evaluation. IZE J. 13: 8-9.

BERKOVITS (A.), 1985: Committee reports: evaluation. IZE J. 14: 5.

BIRNEY (B.A.), 1989: Creating a habit: staff exhibit design teams come to value in-house evaluation. AAZPA 1989 Ann. Proc.: 451-56.

GRAYSON (P.), 1986: The importance/performance evaluation. IZE J. 15: 29-37.

RABB (G.B.) & SAUNDERS (C.D.), 1999: God, unicorns, and toilets: mission-inspired evaluation. AZA Ann. Conf. Proc. 1999: 354-59.

ON-GOING AND UNPUBLISHED STUDIES :

DOORNBOS (K.) & VAN ELST (A.), 2006: Criteriachecklist voor dierentuineducatie. Meetinstrument voor educatiebeleid. [Checklist of criteria for zoo education. Measuring instrument for education policies.] Emmen/Lelystad/Dronten, Karina Doornbos/Annemieke van Elst/Stoas Hogeschool. 29 pp.

EBENHÖH (M.), 1992: Evaluating zoo design – the importance of visitor studies. A thesis presented at the Uni. f. Bodenkultur, Inst. f. Wildbiologie & Jagdwirtschaft. Vienna, Austria.

FINLAY (T.), WOEHR (D.J.) & MAPLE (T.L.), 1984: Evaluation techniques in zoo environments: visitor attitudes and animal behavior. Paper presented at Southeastern Psych. Assn. Conf., March 1984.

O'REILLY (J.) & MARTIN (J.), 1982: Design evaluation in zoos: assessing the impact of exhibits improvement on users. Tucson, Univ. of Arizona Psychology Dept.

BACKGROUND & FURTHER READING: EXHIBIT EVALUATION - GENERAL

ALT (M.B.), 1977: Evaluating didactic exhibits: a critical look at Shettell's work. Curator 20(3): 241-58.

ALT (M.B.), 1982: Designing and carrying out the evaluation study. In: MILES (R.S.) (ed.): The design of educational exhibits. London, Allen & Unwin: 144-70.

ALTER (P.) & WARD (R.), 1994: Exhibit evaluation: taking account of human factors. In: HOOPER-GREENHILL (E.) (ed.): The educational role of the museum. Leicester Readers in Museum Studies. London/New York. 204-12.

BADMAN (T.), 1990a: Small scale evaluation. In: HOOPER-GREENHILL (E.) (ed.): The educational role of the museum. Leicester Readers in Museum Studies. London/New York: 313-15.

BADMAN (T.), 1990b: Small scale evaluation. Env. Interpretation 7: 20-1.

BICKNELL (S.), 1995: Here to help: evaluation and effectiveness. In: HOOPER-GREENHILL (E.) (ed.): Museum, media, message. London/New York: 281-93.

BITGOOD (S.), 1987: Some questions on exhibit evaluation. Visitor Behav. 2(1): 3.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2m4-a_5730.pdf

- BITGOOD (S.), 1988: Visitor evaluation: what is it? *Visitor Behav.* 3(3): 6-7.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2h2-a_5730.pdf
- BITGOOD (S.), 1991: Common misconceptions about evaluation. *Visitor Behav.* 6(1): 11-2.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2a6-a_5730.pdf
- BITGOOD (S.), 1995: Summative evaluation: how should it be conducted? *Visitor Behav.* 10(3):
- BITGOOD (S.) & SHETTEL (H.), 1994: The classification of exhibit evaluation: A rational for remedial evaluation. *Visitor Behav.* 9(14): 4-15.
- BULL (P.), 1989: A beginner's guide to evaluation. In: HOOPER-GREENHILL (E.) (ed.): *The educational role of the museum*. Leicester Readers in Museum Studies. London/New York. 213-5.
- CONNER & HENDRICKS, 1989: International innovations in evaluation methodology. Jossey-Bass.
- D'AGOSTINO (J.) & LOOMIS (R.), 1992: Attitudes, beliefs, intended behaviors, and exhibit evaluation. *Visitor Studies: Theory, Research and Practice*. Vol. 4. Proc., 1990 Visitor Studies Conf., Jacksonville, Ctr for Social Design: 92-101.
- DIAMOND (J.), LUKE (J.J.) & UTTAL (D.H.), 2009: Practical evaluation guide: tools for museums and other informal educational settings. 2nd edn. Lanham, Alta Mira. 196 pp.
- GAMMON (B.) & GRAHAM (J.), 1998: Putting value back in evaluation. *Visitor Studies Today* 1(1): 6-8.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a0t7-a_5730.pdf
- HAYWARD (J.) & LOOMIS (R.), 1996: Looking back at summative evaluation. In: BITGOOD (S.C.), 1996: *Visitor Studies: Theory, Research, and Practice*. Selected papers from the 1994 Visitor Studies Conf.. Vol. 7, Issue 1. Jacksonville, VSA: 26-32. Abstract: <http://www.visitorstudiesarchives.org>
- KLEIN (H.-J.), 1998: Evaluation für besucherorientierte Einrichtungen. [*Evaluation for visitor-oriented institutions*.] In: SCHER (M.A.) (Hrsg.): Umweltausstellungen und ihre Wirkung. [*Environmental exhibitions and their effect*.] Schriftenreihe des Staatl. Museums für Naturkunde & Vorgeschichte Oldenburg. Oldenburg, Staatl. Museum für Naturkunde & Vorgeschichte Oldenburg: 19-36.
- KORAN (J.J.), KORAN (M.L.) & LONGINO (J.R.), 1986: The relationship of age, sex, attention, and holding power with two types of exhibits. *Curator* 29(3): 227-35.
- KORN (R.), 2006: So, you want to do an evaluation? – Evaluation Planning 101 – PowerPoint Visitor Studies 101 Session, AAM Ann. Meeting. Washington DC, AAM.
www.care-aam.org/documents/vs101_2006/KornVS101presAAM2006.pdf
- LEWIS (B.N.) & ALT (M.B.), 1982: Evaluation: its nature, limitations and dangers. In: MILES (R.S.) (ed.): *The design of educational exhibits*. London, Allen & Unwin: 127-43.
- LINN (M.C.), 1976: Exhibit evaluation – informed decision making. *Curator* 19(4): 291-302.
- MILES (R.S.), ALT (M.B.) & GOSLING (D.C.), 1988: *The design of educational exhibits*. London, Unwin Hyman. 208 pp.
- MUNRO (P.), SIEKIERSKI (E.), WEYER (M.) & PYHEL (T.) (Hrsg.), 2009: Wegweiser Evaluation. Von der Projektidee zum bleibenden Ausstellungserlebnis. [*Evaluation manual. From project idea to lasting exhibition experience*.] München, Oekom. 145 pp.
- O'BRIEN (M.), 1992: What's visitor' evaluation all about? Report on a workshop conducted at the Baltimore Aquarium and the Maryland Science Center. *Visitor Behav.* 7(2): 5-10.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1x1-a_5730.pdf
- PEARCE (P.) & MOSCARDO (G.), 1985: Visitor evaluation: an appraisal of goals and techniques. *Evaluation Review* 9(3): 281-306.

- PEART (B.), 1984: Impact of exhibit type on knowledge gain, attitude change and behavior. *Curator* 27(2)
- PREISER (W.F.E.), RABINOWITZ (H.Z.) & WHITE (E.T.), 1988: Post-occupancy evaluation. New York, Van Nostrand-Reinhold.
- ROGGENBUCK (J.) & PROPST (D.), 1981: Evaluation of interpretation. *J. Interpretation* 6(1): 43-7.
- ROSSI (P.H.) & FREEMAN (H.E.), 1993: Evaluation: a systematic approach. 5th edn. Newbury Park, Sage.
- SCREVEN (C.G.), 1976: Exhibit evaluation – A goal referenced approach. *Curator* 19(4): 271-90.
- SCREVEN (C.G.), 1979: Visitor attention and learning in public exhibits and the role of evaluation. *AAZPA Ann. Conf. Proc.* 1979: 151-7.
- SERRELL (B.), 2003: Exhibit evaluation: what's the point ? *Communiqué*, March: 28, 39, 44.
- SHETTEL (H.), 1968: An evaluation of existing criteria for judging the quality of science exhibits. *Curator* 11(2): 137-53.
- SHETTEL (H.H.), 1978: A critical look at a critical look: a response to Alt's critique of Shettel's work. *Curator* 21(4): 329-45.
- SHETTEL (H.), 1991: Research and evaluation: two concepts or one ? In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.): *Visitor Studies: Theory, Research and Practice*. Vol. 3. Proc. 1989 VSA Conf.. Jacksonville, Ctr for Social Design: 41-5. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5v3-a_5730.pdf
- SHETTEL (H.), 2001: Do we know how to define exhibit effectiveness? *Curator* 44: 327-334.
- SIEKIERSKI (E.), 2003: Evaluation. In: WOHLERS (L.) (Hrsg.): *Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit*. Band 13. [*Methods of informal environmental education. Environmental education, environmental communication and sustainability*. Vol. 13.] Frankfurt, Peter Lang: 143-
- SPRINGUEL (M.), TRESSEL (G.), BORUN (M.), KORN (R.) & MCDERMOTT (M.), 1991: Educators and evaluators: if evaluation could only tell us. A discussion at the Visitor Studies Conference sponsored by the Museum Education Roundtable. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: *Visitor studies: Theory, research, and practice*. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 21-6. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5v1-a_5730.pdf
- STEWART (E.), HAYWARD (B.) & DEVLIN (P.), 1998: The “place” of interpretation: a new approach to the evaluation of interpretation. *Tourism Mgmt* 19: 257-66.
- WASHBURNE (R.F.) & WAGER (J.A.), 1972: Evaluating visitor response to exhibit content. *Curator* 15(3): 248-54.
- WEISS (C.H.), 1972: Evaluation research: methods of assessing program effectiveness. Englewood Cliffs, Prentice Hall.
- WELLS (M.) & BUTLER (B.), 2002: A visitor-centered evaluation hierarchy. *Visitor Studies Today!* Spring 2002: 5-11. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6f7-a_5730.pdf
- WOLF (R.L.), 1980: A naturalistic view of evaluation. *Museum News* 1: 39-45.
- ZIMRING (C.M.) & REIZENSTEIN (J.E.), 1980: Post-occupancy evaluation: an overview. *Env. & Behav.* 12: 429-50.

BACKGROUND & FURTHER READIG: MUSEUM AND EXHIBITION EVALUATION

ALLARD (M.), LAROCHE (M.-C.), MEUNIER (A.) & THIBODEAU (P.), 1998: Guide de planification et d'évaluation des programmes éducatifs pour les lieux historiques et autres institutions muséales. [*Guide to planning and evaluating educational programmes for historical sites and other museum-type institutions.*] Les Éditions Logiques/Parcs Canada.

- BITGOOD (S.), 1989: Evaluation of museums from the social design point of view. In: SCHIELE (B.) (ed.): *Faire voir, faire savoir: la muséologie scientifique au présent*. Hull, Musée de la Civilisation: 87-106.
- BITGOOD (S.C.) & LOOMIS (R.J.), 1993: Introduction: environmental design and evaluation in museums. *Environment and Behavior* 25(6) (Special issue: Environmental design and evaluation in museums): 683-97.
- BORUN (M.) & KORN (R.) (eds.), 1999: *Introduction to museum evaluation*. Washington DC, AAM/Committee on Audience Res. & Evaluation. 101 pp.
- DE BORHEGYI (S.F.), 1965: Testing of audience reaction to museum exhibits. *Curator* 8(1): 86-93.
- GOTTESDIENER (H.), 1987: *Evaluer l'exposition. Définitions, methods et bibliographie selective commentée d'études d'évaluation. [Evaluating the exhibition. Definitions, methods and a selected commented bibliography of evaluation studies.]* Paris, La Documentation Française. 102 pp.
- HAYWARD (J.), 2006: What's a museum evaluator? *Exhibitionist* 25(1): 78-82.
- LOOMIS (R.J.), 1987: *Museum visitor evaluation: new tool for management*. Walnut Creek, AltaMira Press.
- MCLEAN (K.) & POLLOCK (W.) (eds.), 2007: *Visitor voices in museum exhibitions*. Washington DC, ASTC.
- MILES (R.), 1993: Grasping the greased pig: evaluation of educational exhibits. In: BICKNELL (S.) & FARMELO (G.) (eds.): *Museum visitor studies in the 90s*. London, Science Museum: 24-33.
- POST (M.), 2006: Evaluation: the key to museum exhibit success. *Exhibit Builder*, Sept./Oct.2006.
http://www.zoolex.org/publication/m_post/evaluation_key_to_success.html
- POWELL (L.), 1934: Evaluating public interest in museum rooms. *Museum News*, Feb. 1934: 7-8.
- SERRELL (B.), 2006: *Judging exhibitions. A framework for assessing excellence*. Walnut Creek, Left Coast Press. 188 pp.
- SUDBURY (P.) & RUSSELL (T.), 1995: *Evaluation of museum and gallery displays*. Liverpool, Liverpool UP.
- WHITE (J.), 1988: Traveling exhibits. Something new, something borrowed. *AAZPA Ann. Conf. Proc.*.
- YALOW (E.S.), STROSSEN (R.J.), JENNINGS (D.L.) & LINN (M.C.), 1980: Improving museums through evaluation. *Curator* 23(4): 275-85.

12. TARGET GROUPS, VISITOR DEMOGRAPHY

• General

ANDERECK (K.) & CALDWELL (L.), 1994: Motive-based segmentation of a public zoological park market. J. Park & Recr. Admin. 12: 19-31.

BIRNEY (B.A.) & HEINRICH (C.), 1992: Understanding demographic data on zoo visitors. In: NICHOLS (S.K.) (ed.): Patterns in practice: Selections from the J. of Museum Educ.. Washington DC, Museum Educ. Roundtable.

FREEMAN (H.), 1979: The who at the zoo. Visitor survey, Woodland Park Zoo, Seattle. IZE Newsletter 1979(3): 17-24.

HILL (C.A.), 1971: An analysis of the zoo visitor. Int. Zoo Yb. 11: 158-65.

JOSLIN (P.), GRUNAUER (S.), NAPOLITANO (G.), NICHOLS (M.), SARRIS (A.), STEADMAN (A.) & URBANICK (R.), 1986: A demographic profile of the zoo visitor. AAZPA Ann. Conf. Proc..

ON-GOING AND UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1990: Characteristics of Brookfield Zoo visitors: five analyses of our audience. Brookfield, Chicago Zool. Soc.

BRUCKNER (T.) & STANKIEWICZ (L.), 2007: Zoo visitors' sex- and age related differences regarding to preference of selected animal species. Nr 189/96. Wien, Tiergarten Schönbrunn. Contact Claudia Kment, ckment@zoovienna.at

CHAMBERS (P.), 1982: Four seasons demographic study. Philadelphia, Philadelphia Zool. Soc. Educ. Dept.

COOPERRIDER (D.), 1977: Preliminary analysis of the 1977 visitor survey. Unpublished memo. Chicago, Brookfield Zoo.

DAVEY (G.), 2005: The influence of demographic, behavioural, socio-economic, and environmental design factors on visitor behaviour in Britain and China. PhD thesis. Bolton, Univ. of Bolton.

PATTERSON (D.) & BITGOOD (S.), 1985: Birmingham Zoo visitor survey. A report submitted to the Alabama Zool. Soc..

BACKGROUND & FURTHER READING: TARGET GROUPS - GENERAL

AHLERS (J.), 1998: De doelgroep is dood, lang leve de doelgroep: pleidooi voor het denken in sociale categorieën. [The target group is dead, long live the target group: a plea for thinking in social categories.] Ts. mktg 32(3): 25-7.

DEPARTMENT OF CULTURE, MEDIA AND SPORT, 1999: Museums for the many: standards for museums and galleries to use when developing access policies. London, Stationery Office.

DEPARTMENT OF CULTURE, MEDIA AND SPORT, 2001: Libraries, museums, galleries and archives for all: co-operating across the sectors to tackle social exclusion. London, Dept of Culture, Media & Sport.

HOOD (M.G.) & ROBERTS (L.C.), 1994: Neither too young nor too old: a comparison of visitor characteristics.

Curator 37(1): 36-45.

KOTLER (N.) & KOTLER (P.), 2004: Can museums be all things to all people? Missions, goals, and marketing's role. In: ANDERSON (G.) (ed.): Reinventing the museum: Historical and contemporary perspectives on the paradigm shift. Walnut Creek, Alta Mira: 167-87.

SERRELL (B.), 1994: The question of visitor styles. Visitor Studies 4: 48-53.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4n4-a_5730.pdf

• Adults: visitor studies

BRISEÑO-GARZÓN (A.), 2006: Adult experiences from an aquarium visit: the on-site and longitudinal role of personal agendas and social interactions in family groups. 19th ann. VSA conf., July 25-29, 2006, Grand Rapids, MI. Abstract: <http://www.visitorstudiesarchives.org>

FALK (J.H.), HEIMLICH (J.E.) & BRONNENKANT (K.), 2008: Using identity-related motivations as a tool for understanding adult zoo and aquarium visitors' meaning-making. Curator 51: 55-79.

ON-GOING AND UNPUBLISHED STUDIES :

BAUMEISTER (W.), 1970: Der Zoologische Garten unter dem Gesichtspunkt der Erwachsenenbildung. Eine empirische Untersuchung. [*The zoological garden from the perspective of adult education. An empirical investigation.*] Wissensch. Hausarbeit. Frankfurt. Unpublished.

BRISEÑO-GARZÓN (A.), ANDERSON (D.) & ANDERSON (A.), 2006: Adult learning experiences from an aquarium visit: the role of social interactions in family groups. Paper presented at the American Educ. Res. Assn. Conf., San Francisco. Apr. 4-11.

HEIMLICH (J.E.), FALK (J.H.), BRONNENKANT (K.) & BARLAGE (J.), 2005: Measuring the learning outcomes of adult visitors to zoos and aquariums: Phase I techn. report. Annapolis, Inst. for Learning Innovation.

BACKGROUND & FURTHER READING: ADULTS

ANDERSEN (L.L.), 1993: Reach the adult visitor through their children. IZE J. 29: 134-37.

HANSMAN (C.), 2001: Context-based adult learning. In: MERRIAM (S.) (ed.): The new update on adult learning theory. San Francisco, Jossey-Bass: 43-52.

HOCHADEL (O.), 2003: "Zoologische Volksbildung?" Wiener Tiergärten zwischen Belehrung und Unterhaltung (1860-1920). [*"Popular education in zoology?" Viennese zoos between education and entertainment (1860-1920)*] Spurensuche. Zeitschrift Geschichte Erwachsenenbildung & Wissenschaftspopularisierung, N.F. 14: 4-23.

KELLY (L.), 2007: The interrelationships between adult museum visitors' learning identities and their museum experiences. Chapter 2: Learning literature review; Chapter 7: Conclusions. Sydney, Univ. of Technology. <http://australianmuseum.net.au/Uploads/Documents/9303/KELLY%20THESIS%20CHAPTER%202%20AND%207.pdf>

KNOWLES (M.S.), HOLTON (E.F.) & SWANSON (R.A.), 2005: The adult learner. The definitive classic in adult education and human resource development. 6th edn. Burlington, Elsevier. 378 pp.

KRÜGER (M.), 1982: Die soziale Struktur der Gesellschaft und der Einfluss der Tiergärten auf die Persönlichkeitsentwicklung der Werktätigen. [*The social structure of society and the influence of zoos on the personality development of the workers.*] Der Zool. Garten 52, Sonderheft: 41-7.

RANDLER (C.), HÖLLWARTH (A.) & SCHAAL (S.), 2007: Urban park visitors and their knowledge of animal species. *Anthrozoös* 20: 65-74.

- Children/youth

- General

BIRNEY (B.A.), 1986: A comparative study of children's perceptions and knowledge of wildlife and conservation as they relate to field trip experiences at the Los Angeles County Museum of Natural History and the Los Angeles Zoo. AAZPA 1986 Ann. Conf. Proc.: 377-89.

COE (J.C.), 1989: Children's drawings make good evaluation tools for zoo exhibits. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 87-100.http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5f0-a_5730.pdf

KOHL (E.), 1980: Untersuchungen zur persönlichkeitsentwicklung von mitgliedern des Jugendklubs am Tierpark. [Investigations into personality development of members of the Tierpark youth club.] Milu 5(1-2): 317-8.

OWEN (K.), MURPHY (D.) & PARSONS (C.), 2009: ZATPAC: a model consortium evaluates teen programs. Zoo Biology 28(5): 429-46.

TUNNICLIFFE (S.D.), 1994: Attitudes of primary school children to animals in zoos. In: NICHOLSON (J.) & PODBERSCEK (A.) (eds.): Issues in research in companion animal studies. No. 2 : 9-14.

TUNNICLIFFE (S.D.), 1996: A comparison of conversations of primary school groups at animated, preserved, and live animal specimens. J. Biol. Educ. 30(3): 195-206.

TUNNICLIFFE (S.D.), 1996: The relationship between pupils' age and the content of conversations generated at three types of animal exhibits. Res. Sci. Educ. 26(4): 461-80.

TUNNICLIFFE (S.D.), 1996: Talking about animals. Int. Zoo News 43(7): 499-501.

TUNNICLIFFE (S.D.), 1999: Talking science – talking zoology – ways to promote this through listening to the children and their accompanying adults and providing talking cues. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 99-105.

TUNNICLIFFE (S.D.), 2002: A young zoologist's kit – encouraging children to observe animals in zoos. Int. Zoo News 49(5): 280-86.

TURLEY (S.K.), 2001: Children and the demand for recreational experiences: the case of zoos. Leisure Studies 20(1): 1-18. Abstract: <http://www.informaworld.com/smpp/content~content=a713777104~db=all>

ON-GOING AND UNPUBLISHED STUDIES :

TUNNICLIFFE (S.D.), 1993: We're all going to the zoo tomorrow: children's conversations at animal exhibits at London and St Louis zoos. Visitor Studies Conf., Albuquerque, NM, USA.

TUNNICLIFFE (S.D.), 1995: Talking about animals: studies of young children visiting zoos, a natural history museum and a farm. Unpublished PhD thesis. London, King's College.

BACKGROUND & FURTHER READING: CHILDREN - GENERAL

- ALI (J.), 2002: Kenyan children's ideas about parks and wildlife. *Env. Educ. Res.* 8: 439-62.
- ANDERSEN (L.L.), 1993: Reach the adult visitor through their children. *IZE J.* 29: 134-37.
- ANDERSON (D.) & PISCITELLI (B.), 2002: Parental recollections of childhood museum visits. *Museum National* 10(4): 26-7. <http://eab.ed.qut.edu.au/activities/projects/museum/>
- BENOIT (M.B.), 2000: The dot.com kids and the demise of frustration tolerance. In: CLOUDER (C.), JENKINSON (S.) & LARGE (M.) (eds.): *The future of childhood*. Stroud, Hawthorn Press.
<http://www.eric.ed.gov/ERICWebPortal/contentdelivery/servlet/ERICServlet?accno=ED485735>
- BIRNEY (B.A.), 1993: Children's perceptions of family experience. *Visitor Behav.* 8(3): 6.
- BUIJS (A.E.), LANGERS (F.) & DE VRIES (S.), 2006: Een andere kijk op groen: beleving van natuur en landschap in Nederland door allochtonen en jongeren. [*An other view of green spaces: nature experiences of immigrants ad young people in The Netherlands.*] WOT-rapport 24. Wageningen, WOT Natuur & Milieu. <http://edepot.wur.nl/27619>
- BUIJS (A.E.), VAN DER WULP (N.Y.) & ZEINSTRA (L.), 2009: Jongerenwaardering voor natuur vraagt lange adem. [*Young people's appreciation for nature requires a long-term approach.*] *Natuur Bos Landschap* 6(7): 10-12. <http://edepot.wur.nl/11980>
- CARSON (R.), 1965/1998: *The sense of wonder*. New York, HarperCollins. 112 pp.
- COBB (E.), 1977: *The ecology of imagination in childhood*. New York, Columbia UP. 139 pp.
- DALY (B.) & MORTON (L.L.), 2003: Children with pets do not show higher empathy: a challenge to current views. *Anthrozoös* 16: 298-314.
- DRIVER (R.), GUESNE (E.) & TIBERGHIEN (A.), 1985: Children's ideas in science. Milton Keynes, Open UP. 208 pp.
- FINE (G.A.) & SANDSTROM (K.L.), 1988: *Knowing children*. Thousand Oaks, Sage.
- FUSON (J.), 1971: Piagetian stages in causality: children's answers to "why?". *Elementary School J.* 77: 2.
- GARDNER (H.), 1991: *The unschooled mind. How children think and schools should teach*. New York, Basic Books. 320 pp.
- GOLDOWSKY (A.) & BRONNENKANT (K.), 2000: Youth evaluating exhibits: charting the way. VSA Conf. 2000, Boston. Abstract: <http://www.visitorstudiesarchives.org>
- GOPNIK (A.), MELTZOFF (A.N.) & KUHL (P.K.), 1999: *The scientist in the crib. Minds, brains, and how children learn*. New York, William Morrow. 304 pp.
- HARRIS (J.R.), 1998: *The nurture assumption: why children turn out the way they do*. New York, Free Press. 480pp.
- HART (R.), 1979: *Children's experience of place*. New York, Irvington. 518 pp.
- JENKINSON (S.), 2006: Living in real time. *Roots* 3(2): 9-11.
- JOHNSON (D.R.) & FIELD (D.R.), 1992: Social and demographic change: implications for interpretation. In: MACHLIS (G.) & FIELD (D.) (eds.): *On interpretation*. Rev. ed. Corvallis, Oregon State UP: 111-25.
- MACHLIS (G.E.) & FIELD (D.R.), 1992: Getting connected: an approach to children's interpretation. In: MACHLIS (G.) & FIELD (D.) (eds.): *On interpretation*. Rev. ed. Corvallis, Oregon State UP: 45-53.
- MASSEY (C.), 1996: Listening to young children: assessment and research techniques for very young visitors. In:

- LANKFORD JENS (S.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 8(1). Selected papers from the 1995 Visitor Studies Conf.. Jacksonville, VSA: 82-9.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4i5-a_5730.pdf
- PIAGET (J.), 1957: Construction of reality in the child. London, Routledge. 400 pp.
- PIAGET (J.), 1969: The child's conception of the world. [*Translation by J. & A. Tomlinson.*] Totowa, Littlefield, Adams and Co. 398 pp.
- PRAMLING (I.), 1996: Understanding and empowering the child as a learner. In: OLSEN (D.) & TORRANCE (N.) (eds.): The handbook of education and human development: new models of learning, teaching and schooling. Cambridge, Blackwell: 534-63.
- SHRECK (M.), WEST (M.), DEEDRICK (R.) & CLAY (P.), 2002: When teens talk, what do they say ? VSA Ann. Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>
- SLIVOVSKY (K.), 2003: Educating the public about controversial issues: how environmental doom and gloom can affect young children. Ann. Conf. Proc. AZA: 123-26.
- SMITH (L.), 1996: Listening to young children: what we have been doing to get kids talk to us. In: LANKFORD JENS (S.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 8(1). Selected papers from the 1995 Visitor Studies Conf.. Jacksonville, VSA: 90-5.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4i6-a_5730.pdf
- SYKES (M.), 1993: Evaluating exhibits for children: what is a meaningful play experience? In: THOMPSON (D.), BENEFIELD (A.) et al (eds.): Visitor Studies: Theory, Research, and Practice. Vol. 5. Jacksonville, VSA: 227-33. Abstract: <http://www.visitorstudiesarchives.org>
- VAN DER WULP (N.Y.) & BUIJS (A.E.), 2009: Connect your Nature: beïnvloeding van de natuurbeleving bij jongeren. [*Influencing nature experiences in young people.*] Wageningen, Alterra. 32 pp. <http://edepot.wur.nl/10671>
- WALS (A.E.J.), 1992: Young adolescents' perceptions of environmental issues: implications for environmental education in urban settings. Australian J. Env. Educ. 8: 45-58.
- WILLISON (J.), 2006: Play and the environment. Roots 3(2): 2-4.

- **Children/youth and animals**

DVORAKOVA (S.), 1978: The basic amount of zoological knowledge among children of pre-school age. Newsletter IZE 5: 28-9.

TUNNICLIFFE (S.D.), 1995: What do zoos and museums have to offer young children for learning about animals ? J. Educ. Museums 16: 16-9.

ON-GOING AND UNPUBLISHED STUDIES :

COLLATZ CHRISTENSEN (N.), 2010: Designer pets. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 2.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

ZANNIER-TANNER (E.), 1966: Tiere und die Großstadtkinder meiner Klasse. Eine empirische und experimentelle Untersuchung über Kenntnisse und Art der Naturbegegnung und ihre pädagogischen Folgerungen. [*Animals and the urban children of my class. An empirical and experimental investigation into knowledge of and contact with nature and their educational consequences.*] Hausarbeit. II. Staatsprüfung. Offenbach.

BACKGROUND & FURTHER READING: CHILDREN/YOUTH AND ANIMALS

ASCIONE (F.R.), 1992: Enhancing children's attitudes about the humane treatment of animals: generalization to human-directed empathy. Anthrozoös 5: 176-91.

BIRNEY (B.A.), 1995: Children, animals, and leisure settings. Society & Animals 3: 171-87.
<http://www.psyeta.org/sa/sa3.2/birney.html>

BRAUND (M.), 1998: Trends in children's concepts of vertebrate and invertebrate. J. Biol. Educ. 32: 112-18.

COLEY (J.D.), 1995: Emerging differentiation of folkbiology and folkpsychology: attributions of biological and psychological properties to living things. Child Development 66: 1856-74.

EAGLES (P.F.J.) & MUFFITT (S.), 1990: An analysis of children's attitudes toward animals. J. Env. Educ. 21(3): 41-44.

GIESEKE (T.J.), KAHN (P.), MEYERS (G.) & SAUNDERS (C.D.), 2001: Children's conceptions of bats: toward a biophilic account of fear and caring. 13th ann. VSA conf., July 31-Aug. 4, 2001, Orlando.
Abstract: <http://www.visitorstudiesarchives.org>

KELLERT (S.), 1983: Attitudes toward animals: Age-related development among children. J. Env. Educ. 16: 29-39.

KELLERT (S.), 1983: Children's attitudes, knowledge, and behaviors toward animals: Phase V. Washington DC, US Fish & Wildlife Service.

KUBIATKO (M.) & PROKOP (P.), 2007: Pupils misconceptions about animals. J. Baltic Sci. Educ. 6(1): 5-14.

MELSON (G.F.), 2001: Why the wild things are. Animals in the lives of children. Cambridge/London, Harvard UP. 236 pp.

MEYERS (G.), 1998: Children and animals: social development and our connections to other species. Boulder, Westview. 224 pp.

MYERS Jr (O.E.), 1996: Child-animal interaction: nonverbal dimensions. Society & Animals 4(1).
Abstract: <http://www.psyeta.org/sa/abst4-1.shtml>

MYERS Jr (O.E.) & SAUNDERS (C.D.), 2002: Animals as links toward developing caring relationships with the natural world. In: KAHN Jr. (P.H.) & KELLERT (S.R.) (eds.), 2002: Children and nature: psychological, sociocultural,

and evolutionary investigations. Cambridge, MIT Press: 153-78.

NEVERS (P.), GEBHARD (U.) & BILLMANN-MAHECHA (E.), 1997: Patterns of reasoning exhibited by children and adolescents in response to moral dilemmas involving plants, animals, and ecosystems. *J. Moral Educ.* 26: 169-86.

NIELSEN (J.A.) & DELUDE (L.A.), 1989: Behavior of young children in the presence of different kinds of animals. *Anthrozoös* 3: 119-29.

PAUL (E.S.), 1996: The representation of animals on children's television. *Anthrozoös* 9: 169-81.

PROKOP (P.), KUBIATKO (M.) & FANCOINOVA (J.), 2007: Why do cocks crow? Children's concepts about birds. *Res. in Sci. Educ.* 37(4): 393-405.

PROKOP (P.), PROKOP (M.) & TUNNICLIFFE (S.D.), 2008: Effects of keeping animals as pets on children's concepts of vertebrates and invertebrates. *Int'l J. Sci. Educ.* 30(4): 431-49.

Abstract: <http://www.informaworld.com/smpp/content~db=all?content=10.1080/09500690701206686>

PROKOP (P.) & TUNNICLIFFE (S.D.), 2008: "Disgusting" animals: primary school children's attitudes and myths of bats and spiders. *Eurasia J. Mathematics, Science & Technology Educ.* 4: 87-97.

PROKOP (P.) & TUNNICLIFFE (S.D.), 2010: Effects of having pets at home on children's attitudes toward popular and unpopular animals. *Anthrozoös* 23(1): 21-35.

SHEPHARDSON (D.P.), 2002: Bugs, butterflies, and spiders: children's understandings about insects. *Int'l J. Sci. Educ.* 24(6): 627-43.

STELTMAN (P.J.), 1978: Hoe teer is de kinderziel? Belasten we jonge kinderen misschien te vroeg met schokkende belevissen in de natuur? [How delicate is a child's soul? Are we perhaps burdening young children too early with shocking experiences in nature?] *Natuurbehoud* 9(2): 40.

TUNNICLIFFE (S.D.) & REISS (M.J.), 1999: Building a model of the environment: how do children see animals? *J. Biol. Educ.* 33(4): 142-48.

TUNNICLIFFE (S.D.), GATT (S.), AGIUS (C.) & PIZZUTO (S.A.), 2008: Animals in the lives of young Maltese children. *Eurasia J. Mathematics, Sci. & Technology Educ.* 4(3): 215-21.

VILLABI (R.M.) & LUCAS (A.M.), 1991: When is an animal not an animal? When it speaks English! *J. Biol. Educ.* 25(3): 184-88.

WELLS (D.L.) & HEPPER (P.G.), 1995: Attitudes toward animals in children. *Anthrozoös* 8: 159-70.

WERNTZ (K.M.) & FRASER (J.), 2003: Children's conception of color in wildlife. *Visitor Studies Today!* 6(1): 13-7. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6d9-a_5730.pdf

WESTERVELT (M.O.), 1983: A provocative look at young people's perceptions of animals. *Humane Educ.*, Dec. 1983: 23-26.

BACKGROUND & FURTHER READING: CHILDREN/YOUTH AND MUSEUMS

ANDERSON (D.), PISCITELLI (B.), WEIER (K.), EVERETT (M.) & TAYLOR (C.), 2002: Children's museums experiences: identifying powerful mediators of learning. *Curator* 45(3): 213-31.

BIRNEY (B.A.), 1986: A comparative study of children's perceptions and knowledge of wildlife and conservation as they relate to field trip experiences at the Los Angeles County Museum of Natural History and the Los Angeles Zoo. Summary. AAZPA 1986 Ann. Conf. Proc..

BIRNEY (B.A.), 1988: Criteria for successful museum and zoo visit: Children offer guidance. *Curator*, 31(4): 292-316.

COHEN (M.), 2009: Museums: what do kids want?

<http://www.blooloop.com/Article/Museums-What-do-Kids-Want-/115>

JENSEN (N.), 1994: Children's perceptions of their museum experiences: a contextual perspective. *Children's Environments* 11(4): 300-24.

ON-GOING AND UNPUBLISHED STUDIES :

CHEUNG (L.L.L.), 2010: Different ways to build up students' environmental attitude – connecting children to nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 22.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

CUBELLI (M.I.), 2010: One project, several approaches: children and nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 12.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

HUGHES (A.), 2010: Wellington Bush Builders – connecting urban children to their environment. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 23.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

WARNER (A.), 2010: Connecting urban youth with nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 12.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: CHILDREN/YOUTH AND NATURE

AIRBUS, 2010: Airbus Bio-Meter: country comparisons. Herndon, Airbus Americas Communications. 3 pp. http://www.airbus.com/fileadmin/media_gallery/files/other/Airbus_Bio-Meter_Greenwave_Kids_activity_survey_5-10.pdf

BRÄMER (R.), 2006: Natur obskur. Wie Jugendliche heute Natur erfahren. [*Obscure nature. How today's young people experience nature.*] München, Oekom. 182 pp.

BUIJS (A.E.), CUSTERS (M.H.G.) & LANGERS (F.), 2007: Natuur door andere ogen bekeken: de natuurbeleving van allochtonen en jongeren. [*Nature through other eyes: nature experiences of ethnic groups and young people.*] WOT-studie 5. Wageningen, WOT Natuur & Milieu.

CHAWLA (L.), 1988: Children's concern for the natural environment. *Children's Environment Quarterly* 5(3): 13-20.

CONVENTION ON BIOLOGICAL DIVERSITY, 2010: Alarming global survey on children's perceptions of nature. Communiqué. Montréal, CBD. <http://www.cbd.int/doc/press/2010/pr-2010-05-18-airbus-en.pdf>

CORNELL (J.), 1998: Sharing nature with children. 20th anniversary ed., rev. & expanded. Nevada, Dawn Publications.

GILES (S.A.), 1999: Ocean conservation: a baseline study of knowledge and attitudes of fifth graders. 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL. Abstract: <http://www.visitorstudiesarchives.org>

KAHN Jr. (P.H.) & KELLERT (S.R.) (eds.), 2002: Children and nature: psychological, sociocultural, and evolutionary investigations. Cambridge, MIT Press.

KAHN Jr. (P.H.), 1997: Developmental psychology and the biophilia hypothesis: children's affiliation with nature. *Developmental Review* 17: 1-61.

KAHN (P.H.), 2002: Children's affiliations with nature: structure, development, and the problem of environmental generational amnesia. In: KAHN (P.H.) & KELLERT (S.R.) (eds.): Children and nature: psychological, sociocultural, and evolutionary investigations. Cambridge, MIT Press. 93-116.

KELLERT (S.R.), 2002: Experiencing nature: affective, cognitive, and evaluative development in childhood. In:

- KELLERT (S.R.) (ed.): Children and nature: psychological, sociological, and evolutionary investigations. Cambridge, MIT: 117-51.
- LAHART (D.E.), 1981: The influence of knowledge on young people's perceptions about wildlife. Proc. of the Ann. Conf. of the SoutEast Assn. of Fish & Wildlife Agencies 35: 661-8.
- LOUV (R.), 2005: Last child in the woods: saving our children from Nature-Deficit Disorder. Chapel Hill, Algonquin Books. 334 pp.
- MARGADANT-VAN ARCKEN (M.), 1990: Groen verschiet. Natuurbeleving en natuuronderwijs bij acht- tot twaalfjarige kinderen. [Green perspective. Nature experiences and nature education in eight to twelve year old children.] Den Haag, SDU.
- MARGADANT-VAN ARCKEN (M.J.A.), 1994: Natuur en milieu uit de eerstehand. Denkbeelden, belevingen en leerwensen van dertien- tot achttienjarigen. [Nature and environment first hand. Ideas, experiences and learning desires of thirteen to eighteen year olds.] Den Haag, SDU.
- MOORE (R.) & YOUNG (D.), 1978: Childhood outdoors: toward a social ecology of the outdoors. In: ALTMAN (I.) & WOHLWILL (J.F.) (ed.): Innovation in play environments. New York, Plenum.
- MYERS Jr (O.E.) & SAUNDERS (C.D.), 2002: Animals as links toward developing caring relationships with the natural world. In: KAHN Jr. (P.H.) & KELLERT (S.R.) (eds.), 2002: Children and nature: psychological, sociocultural, and evolutionary investigations. Cambridge, MIT Press. 153-78.
- NABHAN (G.P.) & TRIMBLE (S.), 1994: The geography of childhood: why children need wild places. Boston, Beacon. 216 pp.
- NEVERS (P.), GEBHARD (U.) & BILLMANN-MAHECHA (E.), 1997: Patterns of reasoning exhibited by children and adolescents in response to moral dilemmas involving plants, animals, and ecosystems. J. Moral Educ. 26: 169-86.
- RYMAN (D.), 1974: Children's understanding of the classification of living organisms. J. Biol. Educ. 8: 140-4.
- SILVOVSKY (K.), 2004: Avoiding ecophobia: redefining conservation messages for kids. IZE J. 40: 28-30.
- STEELE (B.P.) & WRIGHT (S.C.), 1984: Garden design for children. Plants & Gardens 40(3): 53-7.
- STEPANS (J.), 1985: Biology in elementary school: children's conceptions of "life". American Biol. Teacher 47(4): 222-25.
- TER HORST (W.), 1976: Natuur en kind. Ideeën voor een groene opvoeding. [Nature and child. Ideas for a green education.] Den Haag, OmniaBoek. 206 pp.
- THOMASHOW (C.), 2002: Adolescents and ecological identity: attending to wild nature. In: KAHN Jr (P.H.) & KELLERT (S.R.) (eds.): Children and nature: psychological, sociocultural, and evolutionary investigations. Cambridge, MIT Press.
- ZIOBER (A.), 1997: The role of a zoo in shaping ecological awareness in children and young people. Int. Zoo News 44(1): 35-38.

○ **Children/youth and zoos**

BIRNEY (B.A.), 1986: A comparative study of children's perceptions and knowledge of wildlife and conservation as they relate to field trip experiences at the Los Angeles County Museum of Natural History and the Los Angeles Zoo. Summary. AAZPA 1986 Ann. Conf. Proc..

TUNNICLIFFE (S.D.), 1995a: What do zoos and museums have to offer young children for learning about animals ? J. Educ. in Museums 16: 16-9.

ON-GOING AND UNPUBLISHED STUDIES :

WERNTZ (K.), 2002: Understanding children seeing live collections. VSA Ann. Conf. 2002, Cody, WY.

BACKGROUND & FURTHER READING: CHILDREN/YOUTH AND ZOOS

ANON., 1985: Kinder suchen im Zoo Zärtlichkeit. [*Childrens seek tenderness at the zoo.*] Das Tier, 31 März 1985: 66.

BIRNEY (B.A.), 1988e: Criteria for successful museum and zoo visit: Children offer guidance. Curator, 31(4): 292-316.

CAPLAN (J.), 1987: Designing zoos for the way children think. In: CAPLAN (J.) et al: The 1st Int'l Children's Zoo Symp. Proc. Philadelphia, Philadelphia Zoo.

DEAN (C.), MARTIN (J.), NOON (K.), NUESA (B.) & O'REILLY (J.), 1981: A zoo for who: a pilot study in zoo design for children. Techn. Reports no. 87-10. Jacksonville, Jacksonville State Univ. Psychology Inst.

DELORME (M.) & VACHON (E.), 1982: Comment le Jardin Zoologique de Montréal répond aux besoins psychologiques de l'enfant. [*How the Montréal Zoo responds to children's psychological needs.*] Carnets de Zoologie 1982(9): 28-30.

EBERBACH (C.), 1987: Exhibiting in a childish way. IZE J. 18: 8-12.

HILLDÉN (N.-O.), 1990: Children – uncultivated plants. IZE J. 24: 56-57.

LATTIS (R.), 1983: Our public image: starting with children. AAZPA 1983 Ann. Proc.: 95-104.

MARTIN (J.) & O'REILLY (J.), 1982: Designing zoos for children. Proc. Env. Design Res. Assn. 13: 339-46.

PREScott (J.), 1980: Le jeune enfant au Jardin Zoologique. [*The young child at the Zoo.*] Carnets de Zoologie 40(3): 35-39

PREScott (J.), 1981: Le jeune enfant au jardin zoologique. [*The young child at the zoo.*] Int'l J. Early Childhood 13(2): 163-67.

STEINBACH (H.), 1975: Möglichkeiten der Herausbildung eines materialistischen Weltbildes durch die Arbeit mit Kindern und Jugendlichen im Tiergarten. [*Possibilities to develop a materialistic world view through the work with children and youth in zoos.*] Milu 3(6): 659-62.

- **Ethnic and cultural minorities in zoos and aquarium – visitor studies**

DREBITKO (J.J.) & NELSON (G.), 1998: Multicultural inclusion at the New England Aquarium – audience development efforts and the Lake Victoria Exhibit. *Visitor Studies Today!* 1(2): 11-3.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2o5-a_5730.pdf

HANNA (V.) & WEST (P.C.), 1990: Minorities and the Detroit Zoo. In: BITGOOD (S.) et al (eds.): *Visitor studies – 1989: Theory, research, and practice.* Vol. 2. Proc. of the 1989 Visitor Studies Conf., Dearborn, MI. Jacksonville. 149-52.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5f7-a_5730.pdf

ON-GOING AND UNPUBLISHED STUDIES :

BROEKHOF (S.), PASME (E.) & VREEMAN (V.), 2007: The (non)-participation of Dutch non-native residents to Dutch zoos. Amsterdam, NVD. Contact Mirko Marseille, mmarseille@nvddierentuinen.nl

WARNER (A.), 2010: Connecting urban youth with nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 12. Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: ETHNIC AND CULTURAL MINORITIES IN ZOOS AND AQUARIUMS

BENNE (M.), 2003: Latinas en sciencia. Final report of evaluation activities, prepared for OMSI – Oregon Museum of Science and Industry by OMSI Evaluation & Visitor Studies Division. Portland, OMSI. 36 pp.
<http://www.omsi.edu/sites/all/FTP/files/evaluation/LECFinalReport.pdf>

BREWER (J.), 2008: Latino outreach at the Phoenix Zoo. Día del Niño. AZA Connect, Nov. 2008: 7-8, 12.
http://www.aza.org/Publications/2008/11/f_latino_nov08.pdf

CHURCHMAN (D.), 1985: Committee reports: multicultural. *IZE J.* 14: 5.

CHURCHMAN (D.) et al, 1987: Animals, culture, and zoo education: report of the IZE Multicultural Education Committee. *IZE J.* 17: 83-85.

FRÄDRICH (H.), 2000: Der Zoo in Charlottengrad. [*The Zoo in Charlottengrad.*] *Bongo* 30: 83-86.

FRANKENHUIS (M.) (workshop leader), 2001: How to engage ethnic and sociological minorities. In: Conservation through commerce. 3rd Int'l Zoo Mktg Conf.. Tenerife, Canary Islands, 31 May – 2 June 2001. Bern/Amsterdam, WAZA/EAZA: 108-10.

GORDON (D.), 2008: Honouring indigenous cultural perspectives for sustainability education. *IZE J.* 44: 32-5.

MCAULEY (S.), 1992: Didgeridoos and kangaroos: introduction of an Aboriginal cultural perspective at Taronga Zoo. *IZE J.* 25: 55-57.

MEDINA (M.C.), 2005: Aquarium reaches out to Latinos. *Monterey Herald*, June 25, 2005.
www.montereyherald.com

OGBU (J.), 1992: Understanding cultural diversity and learning. *Educ. Researcher* 21(8): 5-14.

SCHMIDT (M.), 2002: "Heute haben Sie wieder eine Carla im Zoo" – Der Berliner Zoologischer Garten und seine jüdischen Aktionäre. ["*Today there's another Carla in the zoo*" – Berlin zoological gardens and its Jewish stockholders.] *Bongo* 32: 53-65.

- **Families**

CARLETON PARKER (L.) & KROCKOVER (G.H.), 2011: Interaction patterns among members of family groups during visits to a community zoo. Research in the Field. VSA e-Newsletter Jan. 2011.

<http://visitorstudies.org/january-2011-enewsletter/#news>

FRASER (J.), 2010: The anticipated utility of zoos for developing moral concern in children. Curator 52(4): 349-61.

PEACOCK (A.), 2006: What children talk about with their parents when visiting the Eden Project. The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-16.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

TUNNICLIFFE (S.D.), 1995: Zoo talk: the content of conversations of family visitor groups whilst looking at live animals. AZA Ann. Conf. Proc., Chicago: 645-47.

WHEATER (R.J.), 1980: An experiment in family zoo education. Minutes & Proc. 35th Ann. Conf. Oct. 13-18, 1980, Pretoria, South Africa. IUDZG. 82-85.

WHITE (J.) & BARRY (S.), 1984: Families, frogs, and fun: developing a family learning lab in a zoo. HERPlab: a case study. Washington DC, Nat'l Zool. Park Office of Educ.. 57 pp.

WHITE (J.), MARCELLINI (D.) & BARRY (S.), 1992: Learning about reptiles and amphibians: a family experience. In: NICHOLS (S.K.) (ed.): Patterns in practice: Selections from the J. Museum Educ.. Washington DC, Museum Educ. Roundtable.

ON-GOING AND UNPUBLISHED STUDIES :

BRISEÑO-GARZÓN (A.), 2006: Adult experiences from an aquarium visit: the on-site and longitudinal role of personal agendas and social interactions in family groups. 19th ann. VSA conf., July 25-29, 2006, Grand Rapids, MI. Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: FAMILIES

ASH (D.), 2003: Dialogic inquiry in life science conversations of family groups in a museum. J. Res. Sc. Teaching 40: 138-62.

BEAUMONT (E.) & STERRY (P.), 2005: A study of grandparents and grandchildren as visitors to museums and art galleries in the UK. Museum & Society 3(3): 167-80.

BORUN (M.), CHAMBERS (M.B.) & CLEGHORN (A.), 1996: Families are learning in science museums. Curator 39(2): 124-38.

BORUN (M.), CHAMBERS (M.) & DRITSAS (J.), 1997: Developing family-friendly exhibits. Curator 40(3): 178-96.

BORUN (M.), CHAMBERS (M.), DRITSAS (J.) & JOHNSON (J.I.), 1997: Enhancing family learning through exhibits. Curator 40(4): 279-95.

BRAMLEY (F.), 1991: Promoting social interaction: more than just a sign. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 139-48.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5w4-a_5730.pdf

CONE (C.) & KENDALL (K.), 1978: Space, time, and family interaction. Curator 21(3): 245-58.

COPELAND (A.P.) & WHITE (K.M.), 1991: Studying families. Thousand Oaks, Sage.

- CROWLEY (K.), 2000: Building islands of expertise in everyday family activity: musings on family learning in and out of museums. Museum Learning Collaborative Techn. Report (MLC-05). Pittsburgh, Learning Research & Development Center, Univ. of Pittsburgh. <http://mlc.lrdc.pitt.edu/mlc>
- DIAMOND (J.), 1986: The behavior of family groups in science museums. *Curator* 29(2): 139-54.
- DIERKING (L.D.) & FALK (J.H.), 1994: Family behavior and learning in informal science settings: a review of the research. *Sci. Educ.* 78(1): 57-72.
- ELLENBOGEN (K.M.), 2002: Museums in family life: an ethnographic case study. In: LEINHARDT (G.), CROWLEY (K.) & KNUTSON (K.), 2002: Learning conversations in museums. Mahwah, Erlbaum: 81-101.
- ELLENBOGEN (K.), LUKE (J.) & DIERKING (L.), 2004: Family learning research in museums: an emerging disciplinary matrix? *Sc. Educ.* 88 (Suppl. 1): S1-S3.
- GORDON (M.), 1987: Shared family learning in museums. *The Museologist* 50(175): 11-3.
- HAGE (S.R.), 1990: An analysis of the verbal and postural communication of family visitors at the zoo. Summary of masters' thesis at the Univ. of Minnesota. *Visitor Behav.*, 5(1)
- HAGE (S.R.), 1993: Kids "talk" to the animals. Family visitor study at the Zoo. *IZE Newsletter* : 30-3.
- HENSEL (K.), 1982: A new look at our largest audience (Ethnographic analysis of the family unit). *AAZPA Ann. Conf. Proc.* :
- HENSEL (K.), 1987: Families in a museum: interactions and conversations at displays. PhD diss.. New York, Columbia Univ. Teachers College. <http://digitalcommons.libraries.columbia.edu/diss.s/AAI8824441/>
- HILKE (D.D.), 1988: Strategies for family learning in museums. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): *Visitor studies: Theory, research, and practice*. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- KROPF (M.B.), 1992: The family museum experience: a review of the literature. In: NICHOLS (S.K.) (ed.): *Patterns in practice: Selections from the J. Museum Educ.* Washington DC, Museum Educ. Roundtable.
- MCMANUS (P.), 1994: Families in museums. In: MILES (R.) & ZAVALA (L.) (eds.): *Towards the museum of the future: new European perspectives*. London, Routledge: 81-97.
- MOUSSOURI (T.), 2003: Negotiated agendas: families in science and technology museums. *Int'l J. Technology Mgmt* 25: 477-89.
- OSBORNE (M.A.), 1996: Zoos in the family. In: HOAGE (R.J.) & DEISS (W.A.) (eds.), 1996: *New worlds, new animals*. Baltimore, Johns Hopkins UP.
- ROSENBLAT (P.C.), 1981: Family behavior in public places. *Merril-Palmer Quarterly*, July 1981.
- WHEATER (R.J.), 1980: An experiment in family zoo education. *Minutes & Proc. 35th Ann. Conf. Oct. 13-18, 1980, Pretoria, South Africa. IUDZG.* 82-85.
- WHITE (J.), 1983: Our public image: the family visitor. *AAZPA 1983 Ann. Proc.*: 106-8B.
- WHITE-MARCELLINI (J.), 1987: The general visitor – the family group. In: ANDERSEN (L.L.) (ed.) : *Education/interpretation – Trends for the future*. Proc. 1987 *IZE Congress*, Copenhagen : 6-10.
- YERKE (R.), 1984: Families, what are we doing for our largest audience? *AAZPA 1984 Ann. Proc.*: 380-86.

- **Gender**

BITGOOD (S.) & BISHOP (S.), 1991: The role of a current visit, prior visits, and gender on visitor perception of a natural history museum. *ILVS Review: A J. of Visitor Behav.* 2(1): 49-65.

BORUN (M.) & CHAMBERS (M.), 2000: Gender roles in science museum learning. *Visitor Studies Today!* 3(3): 11-14.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6t9-a_5730.pdf

HOFF (M.) & MAPLE (T.), 1982: Sex and age differences in the avoidance of reptile exhibits by zoo visitors. *Zoo Biology* 1: 263-69.

KORN (R.), 1991: Men and women: do they experience exhibits differently ? In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: *Visitor studies: Theory, research, and practice*. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 256-62.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5x5-a_5730.pdf

ON-GOING AND UNPUBLISHED STUDIES :

BRUCKNER (T.) & STANKIEWICZ (L.), 2007: Zoo visitors' sex- and age related differences regarding to preference of selected animal species. Nr 189/96. Wien, Tiergarten Schönbrunn. Contact Claudia Kment, ckment@zoovienna.at

VIOROL (S.) & KOKE (J.), 1999: Making science exhibits "female-friendly". VSA 1999 Ann. Conf.

BACKGROUND & FURTHER READING: GENDER

ADAMS (C.J.) & DONOVAN (J.) (eds.), 1995: *Animals and women: feminist theoretical explorations*. Durham, Duke UP.

BIRKE (L.), 1994: *Feminism, animals and science: The naming of the Shrew*. Buckingham, Open UP.

CORNELIUS (R.R.) & AVERILL (J.R.), 1983: Sex differences in fear of spiders. *J. Personality & Soc. Psych.* 45: 377-83.

CROWLEY (K.), 2000: Parent explanations during museum visits ; gender differences in how children hear informal science. *Visitor Studies Today!* 3(3): 21-7.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6u0-a_5730.pdf

CROWLEY (K.), CALLANAN (M.A.), TENENBAUM (H.R.) & ALLEN (E.), 2000: Parents explain more often to boys than to girls during shared scientific thinking. Evidence of early gender bias in informal science education. *Psych. Sci.*

DAVIS (K.), 1995: Thinking like a chicken: farm animals and the feminine connection. In: ADAMS (C.J.) & DONOVAN (J.) (eds.): *Animals and women: feminist theoretical explorations*. Durham, Duke UP.

DIAMOND (J.), 1994: Sex differences in science museums: a review. *Curator* 37(1): 17-24.

EAGLY (A.H.), 1995: The science and politics of comparing women and men. *American Psychologist* 50: 145-58.

EAGLY (A.H.), BEALL (A.E.) & STERNBERG (R.J.), 2004: *The psychology of gender*. New York, Guilford.

GREENFIELD (T.A.), 1995: Sex differences in science museum exhibit attraction. *J. Res. Sci. Teaching* 23: 925-38.

HERZOG (H.A.), 2007: Gender differences in human-animal interactions: a review. *Anthrozoös* 20(1):
<http://paws.wcu.edu/herzog/Gender.pdf>

- KELLERT (S.R.) & BERRY (J.K.), 1987: Attitudes, knowledge, and behaviors toward wildlife as affected by gender. *Wildlife Soc. Bull.* 13: 363-71.
- LIEFMAN (J.), 1993: Gender inclusive teaching and environmental education. *IZE J.* 29: 57-
- PIFER (L.K.), 1996: Exploring the gender gap in young adult's attitudes about animal research. *Society & Animals* 4: 37-52.
- PLUMWOOD (V.), 1993: Feminism and the mastery of nature. London/New York, Routledge. 256 pp.
- UNGER (R.K.), 2001: Handbook of the psychology of gender. New York, Wiley & Sons.

• Groups

BRENNAN (T.), 1977: Elements of social group behavior in a natural setting. *AAZPA Ann. Conf. Proc.*: 109-17.

PARSONS (C.), 1999: Do self-guided groups learn anything? *Ann. Conf. Proc., AZA*.

BACKGROUND & FURTHER READING: GROUPS

AVENI (A.F.), 1991: The group context of Visitor Behav.. *Visitor Studies* 3(1): 48-54.

HOTCHKISS (N.A.), 1986: Interactive lessons for large audience groups. *AAZPA 1986 Reg. Proc.*: 514-21.

- **Visitors with disabilities**

JENNINGS (H.), 1997: Focus groups with zoo visitors who are blind or have low vision: How can we deliver our messages to those who cannot see signs ? In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA. 171-5.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2o0-a_5730.pdf

ON-GOING AND UNPUBLISHED STUDIES :

GIUSTI (E.), 2000: Random Access Audio Tour Project for blind and low-vision visitors. VSA Conf. 2000, Boston. Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: VISITORS WITH DISABILITIES

CAROL (G.), 2004: Invisible ubiquity: the surprising relevance of disability issues in evaluation. American J. Evaluation 20: 279-89.

CHIN (E.), GABRIEL (P.) & LINDGREN-STREICHER (A.), 2007: Opening up doors: how evaluating with people with disabilities can inform exhibit design. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 9-10.

Abstract: <http://www.visitorstudiesarchives.org>

CHIN (E.) & LINDGREN-STREICHER (A.), 2007: Designing experiences that enable all visitors to learn. Informal Learning Review 85

DE GROEVE (M.), 1984: Working with visually handicapped people in a zoo. IZE Newsletter 13: 34-35.

GEIDEL (B.), 1987: Führungen für Behinderte im Zoologischen Garten Dresden. [*Guided tours for visitors with disabilities in Dresden Zoological Gardens.*] In: SCHWARZ (D.) (Hrsg.): Verhandlungsbericht zur Wissenschaftlichen Konferenz zu Fragen der Zoopädagogik 1987 in Rostock. [*Proceedings of the scientific conference on topics in zoo education, Rostock, 1987.*] Jena, Gustav Fischer: 81-83.

GIUSTI (E.), 2008: Improving visitor access. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 97-108.

HASSFURTHER (J.) & WINKEL (G.), 1982: Zur Arbeit des Zoopädagogen mit „Behinderten“. [*On zoo educators working with the handicapped.*] In: WINKEL (G.) (Hrsg.): Pädagogik im Botanischen Garten, im Naturkundemuseum, im Zoo. Hannover, Schulbiologiezentrum: 214-21.

HEHIR (T.), 2002: Eliminating ableism in education. Harvard Educ. Review 72(1): 1-33.

HUNTER (C.), 1994: Everyone's nature. Designing interpretation to include all. Helena/Billings, Falcon. 176 pp.

JONCH CUSPINERA (A.), 1976: Los núcleos zoológicos como instrumento en favor de los minusválidos. [*Zoological institutions as instruments to benefit the handicapped.*] Zoo Revista 27: 3-7.

LETCHINN (K.T.), 1985: A guide for the blind to the Singapore Zoological Gardens. IZE Newsletter 14: 9.

MAJEWSKI (J.), 1987: Part of your general public is disabled: a handbook for guides in museums, zoos, and historic houses. 2nd edn. Washington DC, Smithsonian Inst. Press.

MCNEIL (J.M.) & GILL (C.J.), 1999: Invisible ubiquity. The surprising relevance of disability issues in evaluation. American J. Evaluation 20(2): 279-89.

MOUSSOURI (T.), 2007: Implications of the social model of disability for visitor research. Visitor Studies 10(1): 90-

106.

- NAYLOR (A.), 1988: A zoo experience for the visually impaired. ASZK Conf. Proc.
- O'CALLAGHAN (B.C.) & JURASZ (S.J.), 1992: Accessibility – facts, challenges, and opportunities for interpreters. In: HAM (S.H.): Environmental interpretation. A practical guide for people with big ideas and small budgets. Golden, North American Press: 343-46.
- OSTENRATH (F.), 1999: Erfahrungen im Umgang mit behinderten Menschen im Zoo. [Experiences in dealing with disabled people at the zoo.] Zoo Magazin NRW 5(1): 26-33.
- PELAN (K.S.), 1984: Zoo education for psychiatric patients. IZE Newsletter 13: 40-41.
- REICH (C.), RUBIN (E.), PRICE (J.) & STEINER (M.A.), 2010: Inclusion, disabilities, and informal science learning. Washington DC, CAISE. 73 pp. <http://caise.insci.org/uploads/docs/InclusionDisabilities&ISE.pdf>

BACKGROUND & FURTHER READING: INDIVIDUAL VISITORS

- JACKSON-GOULD (J.S.), 1993: Getting the word out: new techniques for reaching the casual visitor. IZE J. 27: 1-2.
- ROHMEDER (J.), 1978: Individuum und Kollektiv – Museumspädagogik für wen? [Individual and collective – museum education for whom?] Museumskunde 43(1): 34-36.
- ROUNDS (J.), 2004: Strategies for the curiosity-driven museum visitor. Curator 47(4): 389-410.
- WHITE-MARCELLINI (J.), 1987: The general visitor – the family group. In: ANDERSEN (L.L.) (ed.) : Education/interpretation – Trends for the future. Proc. 1987 IZE Congress, Copenhagen : 6-10.

BACKGROUND & FURTHER READING: PROFESSIONAL CATEGORIES

- PRINCE (D.), 1985: Museum visiting and employment. Museums J. 85(3): 85-90.

- Schools/formal education

- General

RANDLER (C.), BAUMGÄRTNER (S.), EISELE (H.) & KIENZLE (W.), 2007: Learning at workstations in the zoo: a controlled evaluation of cognitive and affective outcomes. *Visitor Studies* 10(2): 205-16.

RIEGER (I.), 1987: A comparison of zoo educator methods based on worksheet analysis. *IZE J.* 17: 76-80.

TUNNICLIFFE (S.D.), 1994: Why do teachers visit zoos with their pupils. *Int. Zoo News* 254 :

TUNNICLIFFE (S.D.), 1999 : Using the zoo as a science education resource. *Int. Zoo News* 46(5) : 286-9.

TUNNICLIFFE (S.D.), 2001: The ultimate educational resource: a visit to London Zoo by first-year undergraduates in biology and education. *Int. Zoo News* 48(6): 378-86.

WOOLLARD (S.), 2001: Teachers' evaluation of zoo education. *Int. Zoo News* 48(4): 240-45.

ON-GOING AND UNPUBLISHED STUDIES

BAUMBACH (U.), 1974: Inwieweit wird der Zoologische Garten Frankfurt als Unterrichtsstätte optimal genutzt ? [*Is Frankfurt Zoo being used optimally as an education site?*] Hausarbeit Erweiterungsprüfung Biologie. Frankfurt/M.

EASTON (S.), 2010: Concept-based education for two and three year olds in a zoo setting. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 4.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

PARSONS (C.), 1998: Schoolkids teach the Monterey Bay Aquarium about learning. Paper presented at the Visitor Studies Conf., Washington DC DC. Abstract: <http://www.visitorstudiesarchives.org>

THOMAS (S.), 2010: How practical tasks involving zoo animals can influence emotional, behavioural and cognitive development. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 17.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

ZANNIER (F.), 1966: Kann der Zoologische Garten Stadtschulkindern als Stätte für anschaulichen Biologieunterricht dienen? [*What is the place of the zoo in illustrative biology education for urban school children?*] Hausarbeit. II. Staatsprüfung. Offenbach.

BACKGROUND & FURTHER READING: SCHOOLS - GENERAL

DEWITT (J.), 2007: Consulting with teachers: different approaches, complementary findings. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 23.

Abstract: <http://www.visitorstudiesarchives.org>

ELLENBOGEN (K.), 2000: Future directions in understanding learning in and outside the classroom. *Visitor Studies Today!* 3(2): 11-2. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6v3-a_5730.pdf

GOTTFRIED (J.), 1980: Do children learn on school field trips? *Curator* 23(3): 165-74.

KELLY (L.) & GROUNDWATER-SMITH (S.), 2009: Revisioning the physical and on-line museum: a partnership

with the coalition of knowledge building schools. J. Museum Educ. 34(4): 55-68. www.mer-online.org/publications

KORAN JR (J.J.) & BAKER (S.D.), 1979: Evaluating the effectiveness of field experiences. In: ROWE (M.B.) (ed.): What research says to the science teacher. Washington DC, Nat'l Sci. Teachers Assn.

NITTINGER (H.), KRÜLL (H.-P.) & RÜDIGER (W.), 1992: Biologie im Zoo. [Biology at the Zoo.] Hannover, Metzler Schulbuchverlag. 164 pp.

RANDLER (C.) & KUNZMANN (M.), 2005: Lernemotionen und Lehrverhalten im Biologieunterricht. [Learning emotions and learning behaviour in biology education.] Mathematischer & Naturwissensch. Unterricht 58: 367-73.

TUNNICLIFFE (S.D.), 1999: Stages of a zoo visit. Int. Zoo News 46(6) : 343-6.

• Primary schools

ESSON (M.), 2004: Starting local – teaching conservation from a local perspective. IZE J. 40: 14-17.

TUNNICLIFFE (S.D.), 1995: The content of the conversations of primary school groups at London Zoo. Int. Zoo News 42(5): 272-79.

TUNNICLIFFE (S.D.), 1996: Conversations within primary school parties visiting animal specimens in a museum and zoo. J. Biol. Educ. 30: 130-42.

ON-GOING AND UNPUBLISHED STUDIES :

NACZYK (G.) & KUSSOWSKA (E.), 2009: Research about effectiveness of toolkit using during zoo-lessons for primary schools children. Gdansk, Zoo Gdansk-Oliwa. Contact Maria Sarnecka, msarnecka@zoo.gd.pl

MUHS (K.) & PARSONS (C.), 2001: Talking with first graders to evaluate classroom activities. 13th ann. VSA conf., July 31-Aug. 4, 2001, Orlando, FL. Abstract: <http://www.visitorstudiesarchives.org>

WINKLER (W.), 1970: Das Verhältnis und Interesse der 8-12 jährigen Schüler zu Tieren und die Konsequenzen, die der Biologieunterricht aus dem Verhalten der Kinder dieser Altersstufe ziehen müßte. [8-12 year-old pupils relationship with and interest in animals, and the consequences for biology education.] Wissensch. Hausarbeit. I. Staatsprüfung. Gießen.

BACKGROUND & FURTHER READING: PRIMARY SCHOOLS

WRIGHT (E.L.), 1980: Analysis of the effect of a museum experience on the biology achievement of sixth graders. J. Res. Sci. Teaching 17: 99-104.

- **School field trips**

BIRNEY (B.A.), 1986: A comparative study of children's perceptions and knowledge of wildlife and conservation as they relate to field trip experiences at the Los Angeles County Museum of Natural History and the Los Angeles Zoo. Summary. AAZPA 1986 Ann. Conf. Proc.. Wheeling, AAZPA.

BITGOOD (S.), 1989a: School field trips: an overview. *Visitor Behav.* 4(2): 3-6.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2f0-a_5730.pdf

BITGOOD (S.), 1989b: Bibliography: school field trips to museums/zos. *Visitor Behav.* 4(2): 11-13. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2f2-a_5730.pdf

BITGOOD (S.), 1993: What do we know about school field trips? In: McNAMARA (P.) et al (eds.): What research says about learning in science museums. Vol. 2. Washington DC, ASTC: 12-16.

BURTNYK (K.M.) & COMBS (D.J.), 2005: Parent chaperones as field trip facilitators: a case study. *Visitor Studies Today!* 8(1): 13-16.

DEWITT (J.) & STORKSDIECK (M.), 2008: A short review of school field trips: key findings from the past and implications for the future. *Visitor Studies* 11: 181-97.

FALK (J.H.) & BALLING (J.D.), 1993: The field trip milieu: learning and behavior as a function of contextual events. *Visitor Behav.* 8(1): 14.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1u6-a_5730.pdf

FALK (J.H.) & DIERKING (L.D.), 1997: School field trips: assessing their long-term impact. *Curator* 40(3): 211-18.

HEIMLICH (J.E.) & STORKSDIECK (M.), 2007: Measures of success: two approaches to developing observation tools for judging the educational value of field trips and field days. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 23-24. Abstract: <http://www.visitorstudiesarchives.org>

KORAN (J.J.) & BAKER (S.D.), 1979: Evaluating the effectiveness of field trip experiences. In: ROWE (M.B.) (ed.): What research says to the science teacher, Vol. 2. Washington DC, Nat'l Sci. Teachers Assn: 50-67.

MASON (J.L.), 1980: Annotated bibliography of field trip research. *School Sci. & Mathematics* 80(2): 155-66.

PARSONS (C.) & BREISE (A.), 2000: Orientation for self-guided school groups on field trips. *Visitor Studies Today!* 3(2): 7-10.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6v6-a_5730.pdf

PARSONS (C.) & MUHS (K.), 1998: Field trips and parent chaperones: a study of self-guided school groups at the Monterey Bay Aquarium. *Visitor Studies* 7(1): 57-61.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4k8-a_5730.pdf

SEDZIELARZ (M.), 2003: Watching the chaperones: an ethnographic study of adult-child interactions in school field trips. *J. Museum Educ.* 28(2): 20-24.

STORKSDIECK (M.), 2001: Differences in teachers' and students' museum field-trip experiences. *Visitor Studies Today!* 4(1): 8-12.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6t7-a_5730.pdf

TUNNICLIFFE (S.D.), 1994: Why do teachers visit zoos with their pupils? *Int. Zoo News* 41(5): 4-13.

WOLINS (I.), JENSEN (N.) & ULZHEIMER (R.), 1992: Children's memories of museum field trips: a quantitative study. *J. Museum Educ.* 17(2): 99-104.

WOOD (E.), 2010: Defining the chaperone's role as escort, educator or parent. *Visitor Studies* 13(2): 160-74.

ON-GOING AND UNPUBLISHED STUDIES :

ESSON (M.) & MOSS (A.), 2007: Teachers telling us what they want: using focus groups to determine what teachers want from a field trip. Chester, Chester Zoo. Contact Andrew Moss, a.moss@chesterzoo.org

STEPHENSON (S.), 2010: Evaluating the zoo visits and education sessions on pupils visiting ZSL, London Zoo. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 16.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

STONEBERG (S.A.), 1981: The effects of pre-visit, on-site, and post-visit zoo activities upon the cognitive achievement and attitudes of sixth-grade pupils. PhD diss.. Univ. of Minnesota.

BACKGROUND & FURTHER READING: SCHOOL FIELD TRIPS

ANDERSON (D.), KISIEL (J.) & STORKSDIECK (M.), 2006: Understanding teachers' perspectives on field trips: discovering common ground in three countries. *Curator* 49(3): 365-86.

ANDERSON (D.) & ZOUCHEN (Z.), 2003: Teacher preparations of field trip planning and implementation. *Visitor Studies Today!* 6(3): 6-11.

BALLING (J.D.), FALK (J.H.), ARONSON (R.), WHITE (J.), HERMAN (J.) & O'CONNELL (R.A.), 1983: Improving the quality of single-visit field trips to the National Zoological Park. *Roundtable Reports* 7(4): 19-20.

BALLING (J.D.) & FALK (J.H.), 1980: A perspective on field trips: environmental effects on learning. *Curator* 23(4): 229-40.

BROOKE (H.) & SOLOMON (J.), 2001: Passive visitors or independent explorers: responses of pupils with severe learning difficulties at an interactive science centre. *Int'l J. Sc. Educ.* 23: 941-53.

BURTNYK (K.M.), 2004: Chaperone led field trips: the road less traveled? *ASTC Dimensions*, Sept/Oct: 15.

DEWITT (J.) & OSBORNE (J.), 2007: Supporting teachers on science-focused school trips: towards an integrated framework of theory and practice. *Int'l J. Sc. Educ.* 19: 685-710.

FALK (J.H.), 1983: Field trips: a look at environmental effects on learning. *J. Biol. Educ.* 17: 137-42.

FALK (J.H.) & BALLING (J.D.), 1980: The school field trip: where you go makes the difference. *Sci. & Children* 17(6): 6-8.

FALK (J.H.), MARTIN (W.) & BALLING (J.), 1978: The novel field trip phenomenon: adjustment to novel settings interferes with task learning. *J. Res. Sci. Teaching* 15: 468-72.

- GRiffin (J.) & SYMINGTON (D.), 1997: Moving from task-oriented to learning-oriented strategies on school excursions to museums. *Sci. Educ.* 81(6): 763-79.
- KISIEL (J.), 2005: Understanding elementary teacher motivations for science fieldtrips. *Sci. Educ.* 86(6): 936-55.
- MARTIN (W.W.), FALK (J.H.) & BALLING (J.D.), 1981: Environmental effects on learning: the outdoor field trip. *Science Educ.* 65(3).
- ORION (N.) & HOFSTEIN (A.), 1994: Factors that influence learning during a scientific field trip in a natural environment. *J. Res. Sci. Teaching* 31: 1097-1119.
- RENNIE (L.) & MCLAFFERTY (T.), 1995: Using visits to interactive science and technology centers, museums, aquaria, and zoos to promote learning in science. *J. Sci. Teacher Educ.* 6(4): 175-85.
- STOUT (R.), 1999: I hate field trips. *Sci. Teacher* 66(1): 72-77.
- TUNNICLIFFE (S.D.), LUCAS (A.M.) & OSBORNE (J.), 1997: School visits to zoos and museums: a missed educational opportunity ? *Int'l J. Sci. Educ.* 19(9): 1039-56.

BACKGROUND & FURTHER READING: SCIENCE TEACHING

- BORUN (M.) & FLEXER (B.K.), 1984: The impact of a class visit to a participatory science museum and a classroom science lesson. *J. Res. Sci. Teaching* 21(9): 863-73.
- CARAVITA (S.), 1986: A laboratory for the study of cognitive processes in science teaching in the zoo in Rome. *IZE Newsletter* 16: 30-4.
- COX-PETERSEN (A.M.), MARSH (D.D.), KISIEL (J.) & MELBER (L.M.), 2003: Investigation of guided school tours, student learning, and science reform recommendations at a museum of natural history. *J. Res. Sci. Teaching* 40: 200-18.

- **Content/Subjects/topics**

ESSON (M.) & TOMLINSON (M.), 1998: Gorilla society: an educational tool to promote the development of group dynamics in teenagers. *Dodo* 33: 126-36.

TUNNICLIFFE (S.D.), 1992: Cross-curricular learning in zoological gardens. *Int. Zoo News* 39(6): 27-31.

TUNNICLIFFE (S.D.), 1995: The content of conversations about the body parts and behaviors of animals during elementary school visits to a zoo and the implications for teachers organizing field trips. *J. Elementary Sci. Educ.* 7: 29-46.

ON-GOING AND UNPUBLISHED STUDIES :

EASTON (S.), 2010: Concept-based education for two and three year olds in a zoo setting. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 4.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

ENGEMANN (L.), 1980: Überprüfung der Effektivität eines Zoobesuches durch den Vergleich des Lernerfolges zweier 6. Klassen der Realschule bei der Behandlung der Thematik "Anpassungserscheinungen bei Tieren". [*Evaluation of the effectiveness of a zoo visit through comparison of learning outcomes for two 6th grade classes of the "Realschule" in dealing with the topic of "Adaptations in animals".*] Hausarbeit. II. Staatsprüfung für das Lehramt für Sekundarstufe I. Brakel.

MORGAN (K.) & BREWER (B.), 2010: MAGIC Mowgli: using an exhibit design opportunity to improve girls' understanding of math and science. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 4.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND: CONTENTS/SUBJECTS/TOPICS

DOOLITTLE (R.L.) & GRAND (T.I.), 1995: Benefits of the zoological park to the teaching of comparative vertebrate anatomy. *Zoo Biology* 14: 453-62.

MAIER (E.), 1985: Verschuiving binnen de biologie. [*Shift in biology education.*] *Bull. Onderwijs Biologie* 16(99): 274-77.

WU (I-H.), 2010: Learning by doing – the nature exploration and scientific inquiry program through Insect Valley Ecopark at Taipei Zoo. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 9.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

- **Senior citizens**

VERDERBER (S.), GARDNER (L.), ISLAM (D.) & NAKANISHI (L.), 1988: Elderly persons' appraisal of the zoological environment. *Env. & Behav.*, 20(4): 492-507.

BACKGROUND & FURTHER READING: SENIOR CITIZENS

ATCHLEY (R.), 1989: A continuity theory of normal aging. *The Gerontologist* 29: 183-190.

BULTENA (G.), FIELD (D.R.) & RENNINGER (R.), 1992: Interpretation for the elderly. In: MACHLIS (G.E.) & FIELD (D.R.) (eds.): *On interpretation: sociology for interpreters*. Corvallis, Oregon State UP: 69-76.

MARTIN (A.), 2003: Do you understand the senior market? TILE 2003 Berlin.

NEMETH (R.D.), 1984: Senior citizens: is your zoo in their future? IZE Newsletter 13: 41-43.

REICH (C.) & BORUN (M.), 2001: Exhibition accessibility and the senior visitor. J. Museum Educ. 26(1): 13-16.

SILBERSTEIN (N.M.), 2001: Museums and aging: reflections on the aging visitor, volunteer and employee. J. Museum Educ. 26(1): 3-6.

13. ENVIRONMENTAL AND SUSTAINABILITY EDUCATION

BACKGROUND & FURTHER READING: ENVIRONMENTAL AND SUSTAINABILITY EDUCATION - GENERAL

ALLEN (J.B.) & FERRAND (J.L.), 1999: Environmental locus of control, sympathy, and proenvironmental behavior. A test of Geller's actively caring hypothesis. Env. & Behav. 31: 338-53.

BAERSELMAN (F.) & VERA (F.), 1990: De natuur is dood, leve het milieu. [Nature is dead, long live the environment.] NRC-Handelsblad 17 apr 1990.

BALLANTYNE (R.) & PACKER (J.), 2005: Promoting environmentally sustainable attitudes and behaviour through free choice learning experiences: what is the state of the game? Env. Educ. Res. 11: 281-95.

BECK (U.), 1992: Risk society. Towards a new modernity. [Originally published (1986) as Risikogesellschaft. Auf dem Weg in eine andere Moderne. Frankfurt, Suhrkamp. Transl. M. Ritter.] London/Thousand Oaks, Sage. 260 pp.

BLUMSTEIN (D.T.) & SAYLAN (C.), 2007: The failure of environmental education (and how we can fix it). PLoS Biology 5(5): 973-7. <http://biology.plosj.s.org>

BOEVE-DE PAUW (J.), MONROE (M.) & VAN PETEGEM (P.), 2010: Milieuvriendelijk gedrag: twee wegen naar hetzelfde doel. [Environment-friendly behaviour: two paths to the same goal.] Oikos 55: 60-73.

BOGAN (M.) & KROMREY (J.), 1996: Measuring the environmental literacy of high school students. Florida J. Educ. Res. 36(1): 1-21.

BURCH Jr (W.R.), CHEEK (N.H.) & TAYLOR (L.) (eds.), 1972: Social behavior, natural resources, and the environment. New York, Harper & Row.

BUTTEL (F.H.) & FLINN (W.L.), 1978: Social class and mass environmental beliefs: a reconsideration. Env. & Behav. 10: 433-50.

CHAWLA (L.), 1998: Significant life experiences revisited: a review of research on sources of environmental sensitivity. J. Env. Educ. 29(3): 11-21.

CHAWLA (L.), 1999: Life paths into effective environmental action. J. Env. Educ. 31: 15-26.

COHEN (M.R.), 1973: Environmental information versus environmental attitudes. J. Env. Educ. 5: 5-8.

CONE (J.D.) & HAYES (S.C.), 1980: Environmental problems/behavioral solutions. Monterey, Brooks/Cole. 284 pp.

COURTENAY-HALL (P.) & ROGERS (L.), 2002: Gaps in mind: problems in environmental knowledge-behaviour modelling research. Env. Educ. Res. 8(3): 315-23.

DAY (B.A.), 2003: Ethics in environmental communication and education. Appl. Env. Educ. & Communication 2(2): 71-72.

DEYOUNG (R.), 2000: Expanding and evaluating motives for environmentally responsible behaviour. J. Social Issues 56(3): 509-26.

- DICKIE (L.), 2009: The sustainable zoo: an introduction. *Int. Zoo Yb.* 43: 1-5.
- DUNLAP (R.E.) & VAN LIERE (K.D.), 1978: Environmental concern: a bibliography of empirical studies and brief appraisal of the literature. *Public Administration Series Bibliography No. 44*. Monticello, Vance Bibliographies.
- ELLEN (P.S), WIENER (J.L.) & COBB-WALGREN (C.), 1991: The role of perceived consumer effectiveness in motivating environmentally conscious behaviors. *J. Public Policy Mktg* 10: 102-17.
- EVANS (K.L.), 1997: Aquaria and marine environmental education. *Aquarium Sciences & Conservation* 1(4): 239-50.
- FINGER (M.), 1993: Does environmental learning translate into more responsible behavior ? *Env. Strategy* 5: 17-18.
- FINGER (M.), 1994: From knowledge to action? Exploring the relationship between environmental experiences, learning, and behavior. *J. Social Issues* 50: 141-60.
- FORD (P.M.), 1981: Principles and practices of outdoor/environmental education. New York, Wiley & Sons.
- GELDER (E.S.), WINETT (R.A.) & EVERETT (P.B.), 1982: Preserving the environment: new strategies for behavior change. New York, Pergamon.
- GELLER (S.E.), 1995: Actively caring for the environment. An integration of behaviourism and humanism. *Env. Behav.* 27: 184-95.
- GIGLIOTTI (L.M.), 1990: Environmental education: what went wrong? What can be done? *J. Env. Educ.* 15(4): 6-10.
- GROFF (A.), LOCKHART (D.), OGDEN (J.) & DIERKING (L.D.), 2005: An exploratory investigation of the effect of working in an environmentally themed facility on the conservation-related knowledge, attitudes and behavior of staff. *Env. Educ. Res.* 11(3): 371-87.
- GRISKEVICIUS (V.), TYBUR (J.M.) & VAN DEN BERGH (B.), 2010: Going green to be seen: status, reputation, and conspicuous conservation. *J. Personality & Soc. Psych.* 98(3): 392-404.
Abstract: <http://psycnet.apa.org/?&fa=main.doiLanding&doi=10.1037/a0017346>
- GOUGH (S.), 2002: Whose gap? Whose mind? Plural rationalities and disappearing academics. *Env. Educ. Res.* 8(3): 273-82.
- GUERRIER (Y.), ALEXANDER (N.), CHASE (J.) & O'BRIEN (M.), 1995: Vales and the environment: a social science perspective. Chichester, Wiley. 220 pp.
- HAM (S.H.) & RELLERGERT-TAYLOR (M.), 1988: Reducing barriers to environmental education. *J. Env. Educ.* 19(2): 25-33.
- HAM (S.H.) & SEWING (D.S.), 1988: Barriers to environmental education. *J. Env. Educ.* 19(2): 17-24.
- HAYWARD (J.), 2003: Measuring the public's environmental literacy. 16th ann. VSA conf., July 15-19, 2003, Columbus, OH. Abstract: <http://www.visitorstudiesarchives.org>
- HINES (J.M.), HUNGERFORD (H.R.) & TOMERA (A.N.), 1986: Analysis and synthesis of research on responsible environmental behavior: a meta-analysis. *J. Env. Educ.* 18(2) : 1-8.
- HOWARD (J.), 1999: Research in progress: does environmental interpretation influence behaviour through knowledge or affect? *Australian J. Env. Educ.* 15-16: 153-6.
- HUITZING (D.), 1978: Gids voor natuur- en milieu-educatie. [Guide to environmental education.] Amsterdam, Kosmos/IVN. 206 pp.
- HUNGERFORD (H.) & VOLK (T.), 1990: Changing learner behavior through environmental education. *J. Env. Educ.* 21(3): 8-21.
- JACOBSON (S.K.), 1999: Communications skills for conservation professionals. Washington DC, Island Press. 351 pp.

- JANS (M.) & WILDEMEERSCH (D.), 1998: Natuur- en milieu-educatie: van overtuigen naar overleggen. [Environmental education: from persuasion to consultation.] Brussel, Koning Boudewijnstichting. 72 pp.
- JENSEN (B.), 2002: Knowledge, action and pro-environmental behaviour. Env. Educ. Res. 8(3): 325-34.
- JURIN (R.), DANTER (J.) & ROUSH Jr (D.E.), 2010: Environmental communication: skills and principles for natural resource managers, scientists, and engineers. 2nd edn. Boston, Springer. 200 pp.
- KENIS (A.), 2010: Voorbij individuele gedragsverandering: een pleidooi voor een herpolitisering van milieuactie. [Beyond individual behaviour change: a plea for a repolitisation of environmental action.] Oikos 52: 4-13.
- KOLLMUSS (A.) & AGYEMAN (J.), 2002: Mind the gap: why do people act environmentally and what are the barriers to pro-environmental behaviour. Env. Educ. Res. 8(3): 239-60.
- LAHART (D.E.) & TILLIS (C.R.), 1974: Using wildlife to teach environmental values. J. Env. Educ. 6: 42-8.
- LINDAHL-ELLIOT (N.), 2006: Mediating nature: environmentalism and modern culture. London, Routledge. 304 pp.
- MAINIERI (T0), BARNETT (E.G.), VALDERO (T.R.), UNIPAN (J.B.) & OSKAMP (S.), 1997: Green buying: the influence of environmental concern on consumer behavior. J. Soc. Psychol. 137: 189-204.
- MIGHETTO (L.), 1991: Wild animals and American environmental ethics. Tucson, Univ. of Arizona Press. 177 pp.
- MURCH (A.W.) (eds), 1974: Environmental concern. New York, MSS Information Corp.
- NORTON-OLIVER (R.) (ed.), 1971: Museums and the environment: a handbook for education. Washington DC/New York, AAM/Arkville. 262 pp.
- NOSKE (B.), 1995 : Het dier in ons milieubewustzijn. [Animals in our environmental consciousness.] De Gids 158 : 212-6.
- ORR (D.W.), 1992: Ecological literacy: education and the transition to a postmodern world. Albany, SUNY Press. 210 pp.
- ORR (D.W.), 1994: Earth in mind: on education, environment, and the human prospect. Washington DC, Island Press. 224 pp.
- PALMER (J.), 1998: Environmental education in the 21st Century: theory, practice, progress and promise. London, Routledge. 304 pp.
- PALMER (J.A.), SUGGATE (J.), BAJD (B.) & TSALIKI (E.), 1998: Significant influences on the development of adults' environmental awareness in the UK, Slovenia, and Greece. Env. Educ. Res. 4(4): 429-44.
- PERSSON (P.-E.), CHALMERS (N.), VALLETTE (P.), LEVI (C.) & LEITHE-ERIKSENS (R.), 2001: Should science centres save the whales? Strategy session. Abstracts. ECSITE Ann. Conf. Sharing ideas, developing skills, building networks, Teknikens Hus Luleå, November 15-17, 2001. Brussels/Luleå, ECSITE/Teknikens Hus: 1-2.
- PROSE (F.) & WORTMANN (K.), 1991: Die sieben Haushaltstypen. [Seven household types.] In: DE HAAN (G.) & KUCKARTZ (U.) (Hrsg.), 1996: Umweltbewußtsein: Denken und Handeln in Umweltkrisen. [Environmental consciousness: thinking and acting in environmental crises.] Opladen: 242-
- RAMSEY (C.E.) & RICKSON (R.E.), 1976: Environmental knowledge and attitudes. J. Env. Educ. 8(1): 24-9.
- RICKINSON (M.), 2001: Learners and learning in environmental education: a critical review of the evidence. Env. Educ. Res. 7(3): 207-320.
- ROBINSON (M.H.), 1982: The philosophy and practice of environmental education in the tropics: a critical assessment. In: Education for environmental planning and conservation: 145-163.
- ROBOTTON (I.), 1993: Beyond behaviourism: making environmental education research educational. In: MRAZEK

- (R.) (ed.): Alternative paradigms in environmental education. Monographs in Environmental Education and Environmental Studies, Vol. VIII.. Troy, NAAEE.
<http://www.uleth.ca/edu/research/ciccte/naceer.pgs/pubpro.pgs/Alternate/PubFiles/11.Robottom.rev.htm>
- SANDILANDS (C.), 1993: On “green” consumerism: environmental privatization and family values. *Can. Women Studies* 13(3): 45-7.
- SCHAHN (J.) & GIESINGER (T.), 1993: Psychologie für den Umweltschutz. [Psychology for environmental protection.] Weinheim, BeltzPVU. 252 pp.
- SCHULTZ (P.W.), 2001: The structure of environmental concern: concern for self, other people, and the biosphere. *J. Env. Psych.* 21: 327-39.
- SCHULTZ (P.W.), 2000: Empathizing with nature. The effects of perspective taking on concern for environmental issues. *J. Social Issues* 56(3): 391-406.
- SLIVOVSKY (K.), 2003: Educating the public about controversial issues: how environmental doom and gloom can affect young children. *Ann. Conf. Proc. AZA*: 123-26.
- SMITH (G.A.), 1992: Education and the environment: learning to live with limits. Albany, SUNY Press. 196 pp.
- STERN (P.C.), 2000: Toward a coherent theory of environmentally significant behavior. *J. Social Issues* 56(3): 407-24.
- STERN (P.C.), DIETZ (T.), ABEL (T.), GUAGNANO (G.A.) & KALOF (L.), 1999: A value-belief-norm theory of support for social movements: the case of environmentalism. *Human Ecology Review* 6(2): 81-97.
- STEVENSON (G.) & KEEHN (B.), 2006: I will if you will. Towards sustainable consumption. London, SDC/NCC. Summary: http://www.sd-commission.org.uk/publications/downloads/I_Will-Summary.pdf
- STEVENSON (R.B.) & DILLON (J.) (eds.), 2010: Engaging environmental education: learning, culture and agency. Rotterdam, Sense. 254 pp.
- STRYCKERS (P.), 1988: Is er nog toekomst voor “groene” (milieu-)educatie? [Is there a future for “green” (environmental) education?] *CVNkrant* 18(4) :15-8.
- STRYCKERS (P.), 2010: De NME van EDO. [The nature and environmental education side of education for sustainable development.] *CVN-Krant* 40(1): 1-2.
- SYS (M.), 1994: Milieu-educatie en -informatie. [Environmental education and information.] In: VERBRUGGEN (A.) (red.): Leren om te keren. Milieu- en natuurrappoort Vlaanderen. [Learning for change. Flanders' Environmental and Nature report.] Leuven, Garant: 763-79.
- TREMBLAY Jr (K.R.) & DUNLAP (R.E.), 1978: Rural-urban residence and concern with environmental quality: a replication and extension. *Rural Sociology* 43: 474-91.
- TUAN (Y.-F.) , 1968: Discrepancies between environmental attitude and behaviour from Europe and China. *Can. Geographer* XII: 176-91.
- VAN BERGEIJK (J.), ALBLAS (A.H.) & VISSER-REYNEVELD (M.I.) (red.), 1995: Natuur- en milieu-educatie didactisch beschouwd. [A didactical view of environmental education.] Wageningen, Wageningen Press.
- VAN LIERE (K.D.) & DUNLAP (R.E.), 1980: The social bases of environmental concern: a review of the hypotheses, explanations and empirical evidence. *Public Opinion Quarterly* 44(2): 181-97.
- VAN MATRE (S.), 1990: Earth Education, a new beginning. Greenville, Inst. for Earth Educ.. 317 pp.
- VAN OERS (B.), 1995: Natuur- en milieu-educatie: enkele psychologisch-didactische aspecten. In: VAN BERGEIJK (J.), ALBLAS (A.H.) & VISSER-REYNEVELD (M.I.) (red.): Natuur- en milieu-educatie didactisch beschouwd. [A didactical view of environmental education.] Wageningen, Wageningen Press: 111-29.
- VAUGHAN (C.), GACK (J.), SOLORAZANO (H.) & RAY (R.), 2003: The effect of environmental education on

schoolchildren, their parents, and community members: a study of intergenerational and intercommunity learning. *J. Env. Educ.* 34: 12-21.

WEIGEL (R.H.), 1977: Ideological and demographic correlates of proecology behavior. *J. Soc. Psych.* 103: 39-47.

ZELEZNY (L.), 1999: Effectiveness of environmental interventions to improve proenvironmental behavior: a meta-analysis. *J. Env. Educ.* 32: 5-14.

BACKGROUND & FURTHER READING: EDUCATION ON CLIMATE CHANGE

BALMFORD (A.), MANICA (A.), AIREY (L.), BIRKIN (L.), OLIVER (A.) & SCHLEICHER (J.), 2004: Climate change, Hollywood and public opinion. *Science* 305: 1713.

BOND (R.J.), O'CONNOR (R.E.) & FISHER (R.A.), 1998: Public perceptions of global warming: United States and international perspectives. *Climate Res.* 11(1): 75-84.

BOND (R.J.), O'CONNOR (R.E.) & FISHER (R.A.), 2000: In what sense does the public need to understand global climate change? *Public Understanding of Science* 9: 205-18.

CARTER (B.), 2006: The educator's responsibility? Cutting through the propaganda on global warming. *IZE J.* 42: 20-24.

FORREST (T.A.), 2008: How one botanical garden is engaging the public on climate change. *Public Gdn* 23(1): 13-15.

IMMERWAHR (J.), 1999: Waiting for a signal: public attitudes toward global warming, the environment and geophysical research. New York, Public Agenda.

KELLSTEDT (P.M.), ZAHTRAN (S.) & VEDLITZ (A.), 2008: Personal efficacy, the information environment, and attitudes toward global warming and climate change in the United States. *Risk Analysis* 28(1): 113-126.

MOSS (A.), 2009: Hard Rain. Can zoos risk delivering bad news? Presentation at the 2009 EAZA Zoo Educators' Conf., Cologne, March 2009. http://www.vzp.de/vortraege_EZE2009.html

NIELSEN-JOUSTRA (T.), 2010: Wildlife, warming and whatever: the WWW generation. *Int. Zoo News* 57(4): 209-222.

QWATHEKANA (N.M.) & MIDGLEY (G.), 2008: The heat is on for Africa: botanic gardens, education and climate change. *Roots* 5(1): 10-13.

RUSSELL (R.L.), 2006: Climate change: what does the public know? *Informal Learning* 82: 14-16.

VAN HOFSTRAETEN (S.), 2008: Tussen natuurbeleving en milieugedrag. Via natuurbeleving naar Kyoto? [Between nature experiences and environmental behaviour. Will nature experiences lead to Kyoto?] *CVN-Krant* 38(3): 1-2.

- **Environmental education in zoos and aquariums – visitor studies**

DIANTO KEMMERLY (J.) & MACFARLANE (V.), 2009: The elements of a consumer-based initiative in contributing to positive environmental change: Monterey Bay Aquarium's Seafood Watch Program. *Zoo Biology* 28: 398-411.

PRICE (E.A.), VINING (J.) & SAUNDERS (C.D), 2009: Intrinsic and extrinsic rewards in a nonformal environmental education program. *Zoo Biology* 28(5): 361-76.

ON-GOING OR UNPUBLISHED STUDIES :

CANAVON (C.), 2005: An investigation into the significance of the environmental education role of zoos as exemplified in aspects of the education ethos of Paignton Zoo. Paignton, Paignton Zoo.
Contact amy.plowman@paigntonzoo.org.uk

GORDON (L.), 2010: Connecting the dots... the potential of biodiversity events to connect children, and their teachers, to nature. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 6.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

LI (I.M.Y.), 2010: Education evaluation in zoos & aquariums – sharing of Ocean Park's experience. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 7.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

ROSS (B.), 1972: Potential for environmental education in zoos. Unpublished Masters' thesis. Ann Arbor, Univ. of Michigan.

WOOLLARD (S.P.), 1998: The educational role of zoological gardens and their potential in developing education for sustainability. Unpublished thesis, M.Sc. in Env. Educ. & Development Educ. London, South Bank Univ.

BACKGROUND & FURTHER READING: ENVIRONMENTAL AND SUSTAINABILITY EDUCATION IN ZOOS AND AQUARIUMS

BUNYARD (P.), 1983: Ecology and zoo keeping. Editorial. *Int. Zoo News* 30(3): 2-4.

CIRA (M.), 2007: Sustainable development – can our facilities save the oceans? Presentation. ECSITE Conf. 2007, Lisboa. <http://www.ecsite-conference.net/content/user/File/manual%20cira%20sustainable.pps>

DELAPA (M.), 1994: Interpreting hope, selling conservation: aquariums and environmental education. *Museum News*, May/June 1994: 48-49.

DIECKMANN (R.), 2002: Vom ökologischen Hochwasserschutz und der nachhaltigen Nutzung der Regenwälder: Der Zoo Köln auf neuen Wegen in der Umweltbildung. [*On ecological floodwater protection and sustainable use of the rainforests: Cologne Zoo exploring new paths in environmental education.*] In: GANSLOßER (U.) (Hrsg.): *Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.]* Fürth, Filander Verlag: 155-68.

DIECKMANN (R.) & WOLTERS (J.), 2001: Tiere als Botschafter der Agenda 21 – Der Zoo Köln richtet ein Umweltinformationssystem ein. [*Animals as ambassadors for Agenda 21 – Cologne Zoo develops an environmental information system.*] *Zeitschrift des Kölner Zoo* 44(4): 159-74.

ESKEW (R.A.), 1999: Threatened species? Environmental education in the land of attractions. The 8th TILE 1999 Conference Proceedings: 80-81.

FISCHER (B.) & KRÖGER (U.), 1998: Umweltbildung und Zoopädagogik. [*Environmental education and zoo education.*] *Begegnung Zoo* 6: 2-3.

GABRIEL (C.-D.), 1982: Die Tiergärten als Bildungsstätte für Umweltschutz, Landeskultur und Naturschutz. [*Zoos as educational settings for environmental protection, land management and nature conservation.*] Der Zool. Garten N.F.

52 (Sonderheft): 86-94.

GÜRTLER (W.-D.), 1999: Global Denken, Lokal Handeln – die Agenda 21 und Zoologische Gärten. [*Think globally, act locally – Agenda 21 and zoological gardens.*] Ruhr Zoo Gelsenkirchen 20: 16-21.

HALLER (B.H.) & LÜDEKE (F.), 2006: Projekt zur Qualifizierung der Umweltbildung in Wildparks. [*Qualification project for environmental education in native wildlife parks.*] DWV-News 2006(2): 21.

HAMILTON (G.), 1987: Memorable and significant: the total zoo experience. IZE Newsletter 17: 3-4.

HATLEY (J.), 1984 ; The role of the zoo in environmental education today. Review Env. Educ. Dev. 12(1): 3-6.

HEUNEMANN (M.), 2002: Umweltbildung im halleschen Bergzoo – ein umweltorientiertes Besucherkonzept als Beitrag zur Umsetzung der Agenda 21. [*Environmental education at Halle Mountain Zoo – an environmentally oriented visitor concept as a practical contribution to Agenda 21.*] In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [*Zoo education. Zoo biology III.*] Fürth, Filander Verlag: 169-80.

HUNT (G.), 1993: Environmental education and zoos. IZE Newsletter 29: 74-77.

JIROUŠEK (V.T.), ŠPRYNAROVÁ (B.) & MOUDRÝ (L.), 2005: The analysis of the situation of environmental education and enlightenment in zoos of the Czech Republic in 2005. Praha, Union Czech & Slovak Zool. Gdns. www.zoo.cz/text_studieEVVO_tisk_pro%20web.pdf

JOHNSON (J.) & JONES (D.), 1999: Making the link: the zoo, the community and environmental education. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 37-41.

KIRCHSHOFER (R.), 1985: Umwelterziehung im Zoologischen Garten. [*Environmental education in the zoological garden.*] Garten & Landschaft 1985(1) : 32-33.

LEMONNIER (E.), 2004: Education à l'environnement: démarche de labellisation, comment les établissements zoologiques peuvent travailler en réseau avec d'autres structures? [*Environmental education: approaches to labelling, how can zoological institutions network with other structures?*] ZooCom, Zoodyssée Chizé, Oct 2004.

MAZUR (N.), 2001: After the Ark? Environmental policy making and the zoo. Melbourne, Melbourne UP.

MOSS (A.), 2009: Hard Rain. Can zoos risk delivering bad news? Presentation at the 2009 EAZA Zoo Educators' Conf., Cologne, Mar 2009. http://www.vzp.de/vortraege_EZE2009.html

NEDERLANDSE VERENIGING VAN DIERENTUINEN, 1991: Dierentuinen en natuur- en milieu-educatie. Een beleidsvisie van de dierentuinen van de Nederlandse Vereniging van Dierentuinen. [*Zoos and environmental education. A policy from the zoos of the Dutch Zoo Federation.*] Amsterdam, NVD.

NOGGE (G.), 2002: 10 Jahre nach Rio. Was haben wir erreicht? Was bleibt zu tun? Kurzfassung. ZooKunst 2002. Masterplan: Modeerscheinung oder Zukunftsicherung? Eine Veranstaltung von Quantum Conservation. in Zusammenarbeit mit der Zoo Leipzig. Leipzig, 22., 23. & 24. Feb. 2002. [*10 years after Rio. What have we reached? What remains to be done? ZooKunst 2002. Masterplan: fad or safeguarding the future? A conference of Quantum Conservation. in cooperation with Leipzig Zoo. Leipzig, 22-24 Feb. 2002.*] Oldenburg, Quantum Conservation.

PEARCE -KELLY (P.), 2009: The climate change challenge – the big picture. Zooquaria 68: 18-9.

PREScott (J.), 1992: L'action environnementale: un nouveau concept éducatif pour les jardins zoologiques. [*Environmental action: a new educational concept for zoological gardens.*] In: PedagoZoo. Compte-rendu du colloque international sur la pédagogie et l'éducation en établissement zoologique, les 5 et 6 nov. 1992. [*Proceedings of the international symposium on education in zoological establishments, 5-6 Nov. 1992.*] Lille, SNDPZ: 19-25.

PREScott (J.), 1993: Zoological gardens and biodiversity: from animal displays to environmental action. Int. Zoo News 40(6): 21-6.

ROGERS (P.), 2010: New global-warming exhibit shows steady shift from education to advocacy at Monterey Bay Aquarium. Mercury News, 29 Mar 2010. http://www.mercurynews.com/news/ci_14777284

SIMON (L.) & PYHEL (T.), 2010: Umweltbildung – tierisch gut! Ein Praxisleitfaden für Schule, Zoo & Co. [Environmental education – wild about it! A practical handbook for schools, zoos & co.] München, Oekom. 96 pp. www.tierische-umweltbildung.de

STOINSKI (T.S.), ALLEN (M.T.), BLOOMSMITH (M.A.), FORTHMAN (D.L.) & MAPLE (T.L.), 2002: Educating zoo visitors about complex environmental issues: should we do it and how ? Curator 45: 129-43.

VALETTINI (B.), 2007: Sustainable development – can our facilities save the oceans? Presentation. ECSITE Conf. 2007, Lisboa. <http://www.ecsite-conference.net/content/user/File/bruna%20valettini.pps>

VAN STEENBERGEN (G.), 1983: Milieu-edukatie en musea. [Environmental education and museums.] Museumleven 11: 45-8.

WALS (A.E.J.), 2001: Biodiversity as a bridge between nature conservation education and education for sustainability. Roots 23: 25-30.

WINKEL (G.), 1987: Naturerfahrung und ihre Beziehung zum Umweltbewußtsein. [Nature experiences and their relation to environmental consciousness.] In: SCHWARZ (D.) (Hrsg.): Verhandlungsbericht zur Wissenschaftlichen Konf. zu Fragen der Zoopädagogik 1987 in Rostock. [Proceedings of the Scientific Conf. on Questions of Zoo Educ., Rostock, 1987.] Jena, Gustav Fischer: 219-23.

WOLTERS (J.), 1996: Die neue Umweltdebatte – Herausforderung auch an zoologische Gärten. [The new environmental debate – a challenge for zoos.] In: ZooKunst 1996. Zoos im Einklang mit der Welt-Zoo-Naturschutzstrategie. Eisenmetall-Halle, Gelsenkirchen, 24.-25. Feb. 1996. [Zoos in harmony with the World Zoo Conservation Strategy. Eisenmetall-Halle, Gelsenkirchen. 24 & 25 Feb. 1996.] Münster, Schüling: 188-205.

WOOLLARD (S.P.), 1999: Zoo education's higher purpose – education for sustainability. Int. Zoo News 46(3): 141-6.

WOOLLARD (S.P.), 2001: Zoo education for a sustainable future. IZE J. 37: 5-7.

BACKGROUND & FURTHER READING: EVALUATION OF ENVIRONMENTAL EDUCATION

BALLANTYNE (R.) & UZZELL (D.), 1994: A checklist for the critical evaluation of informal environmental learning experiences. Int'l J. Env. Educ. & Information 13(2): 111-24.

CRAENHALS (E.) (red.), 1999: Kwaliteitsindicatoren voor natuur- en milieueducatie. [Quality indicators for environmental education.] AMINAL-dossier nr. 1. Brussel, Min. Vlaamse Gemeenschap. 20 pp.

DETMANN-EASLER (D.) & PEASE (J.L.), 1999: Evaluating the effectiveness of residential environmental education programs in fostering positive attitudes toward wildlife. J. Env. Educ. 31(1): 33-39.

DE YOUNG (R.), 2000: Expanding and evaluating motives for environmentally responsible behavior. J. Social Issues 56: 509-26.

HEIMLICH (J.E.), 2009: Environmental education evaluation: reinterpreting education as a strategy for meeting mission. J. Program Planning & Evaluation, in press.

KLEIN (H.J.), 2002: An Erfolge anknüpfen – aus Fehlern lernen. Methoden der Ausstellungsevaluation. [Tieing up with successes – learning from mistakes. Methods of exhibition evaluation.] In: KLEINHÜCKELKOTTEN (A.) (Hrsg.): Umwelt ausgestellt. Umweltausstellungen in Umweltbildung und Umweltberatung. [The environment exhibited. Environmental exhibitions in environmental education and environmental counselling.] Lüneburg/Hannover.

STORKSDIECK (M.), ELLENBOGEN (K.) & HEIMLICH (J.E.), 2005: Changing minds? Reassessing outcomes in free-choice environmental education. Env. Educ. Res. 11(3): 353-69.

BACKGROUND & FURTHER READING: INFORMAL/FREE-CHOICE ENVIRONMENTAL EDUCATION/INTERPRETATION

BALLANTYNE (R.), 1998: Interpreting “visions”: addressing environmental education goals through interpretation. In: UZZELL (D.) & BALLANTYNE (R.) (eds.): Contemporary issues in heritage and environmental interpretation. London, The Stationery Office.

BALLANTYNE (R.) & PACKER (J.), 2005: Promoting environmentally sustainable attitudes and behaviour through free-choice learning experiences: what is the state of the game? Env. Educ. Res. 11(3): 281-95.

BALLANTYNE (R.) & UZZELL (D.), 1994: A checklist for the critical evaluation of informal environmental learning experiences. Int'l J. Env. Educ. & Information 13(2): 111-24.

FALK (J.H.), 2005: Free-choice environmental learning: framing the discussion. Env. Educ. Res. 11(3): 265-280.

GROUNDWATER-SMITH (S.) & KELLY (L.), 2009: Learning outside the classroom: a partnership with a difference. In: CAMPBELL (A.) & GROUNDWATER-SMITH (S.) (eds.): Connecting inquiry and professional learning in education. 2nd edn. London, Routledge: 179-81. Abstract: <http://australianmuseum.net.au/publication/Learning-outside-the-classroom-A-partnership-with-a-difference>

HAM (S.H.) & KRUMPE (E.E.), 1996: Identifying audiences and messages for nonformal environmental education – a theoretical framework for interpreters. J. of Interpretation 1(1): 11-23.

KOLA-OLUSANYA (A.), 2005: Free-choice environmental education: understanding where children learn outside of school. Env. Educ. Res. 11(3): 297-307.

NEGRA (C.) & MANNING (R.E.), 1997: Incorporating environmental behaviour, ethics, and values into nonformal environmental education programs. J. Env. Educ. 28(2): 10-21.

SIEKIERSI (E.) & WOHLERS (L.), 2005: Informelle Umweltbildung. [*Informal environmental education.*] In: MICHELSEN (G.) & GODEMANN (J.) (Hrsg.): Handbuch Nachhaltigkeitskommunikation. [*Handbook of sustainability communication.*] München,: 838-47

STORKSDIECK (M.), ELLENBOGEN (K.) & HEIMLICH (J.E.), 2005: Changing minds? Reassessing outcomes in free-choice environmental education. Env. Educ. Res. 11(3): 353-69.

WOHLERS (L.) (Hrsg.), 2003: Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit. Band 13. [*Methods of informal environmental education. Environmental education, environmental communication and sustainability. Volume 13.*] Frankfurt, Peter Lang. 169 pp.

WOHLERS (L.), 2003: Informelle Umweltbildung als Edutainment – Probleme und Chancen. [*Informal environmental education as edutainment – challenges and opportunities.*] In: WOHLERS (L.) (Hrsg.): Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit. Band 13. [*Methods of informal environmental education. Environmental education, environmental communication and sustainability. Volume 13.*] Frankfurt, Peter Lang: 19-34.

• Sustainability education

ON-GOING OR UNPUBLISHED STUDIES :

GARRETT (S.), 2010: A completely integrated approach to visitor interpretation and zoo practice. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 5.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

LI (I.M.Y.), 2010: Education evaluation in zoos & aquariums – sharing of Ocean Park’s experience. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 7.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: SUSTAINABILITY EDUCATION

- CLAYTON (A.M.H.) & RADCLIFFE (N.J.), 1996: Sustainability: a systems approach. London, Earthscan.
- DOWNS (E.), 1994: Education for sustainability: is the whole more or less than the sum of the parts? Development Educ. J. 2: 5-8.
- FIEN (J.), 1993: Environmental education: a pathway to sustainability. Geelong, Deakin UP.
- IUCN, UNEP & WWF, 1991: Caring for the Earth. A strategy for sustainable living. Gland, IUCN/UNEP/WWF.
- JICKLING (B.), 1992: Why I don't want my children to be educated for sustainable development. J. Env. Educ. 23(4): 5-8.
- MICHELSEN (G.) & GODEMANN (J.) (Hrsg.), 2006: Handbuch Nachhaltigkeitskommunikation. Grundlagen und Praxis. 2. aktualisierte u. überarbeitete Aufl.. [*Handbook of sustainability communication. Basic principles and practice. 2nd updated & adapted ed.*] München, Oekom. 940 pp.
- MILBRATH (L.W.), 1995: Psychological, cultural, and information barriers to sustainability. J. Soc. Issues 51: 101-20.
- ROMANO (J.), 2008: Leading the way to sustainability. Public Garden 23(1): 6-9.
- SCHLESINGER (W.H.), 2004: Environmental education for a sustainable future. Appl. Env. Educ. & Communication 3(2): 75-7.
- STEG (L.) & BUIJS (A.E.), 2004: Psychologie & duurzame ontwikkeling: de psychologie van milieugedrag en natuurbeleving. [*Psychology & sustainable development: the psychology of environmental behaviour and nature experiences.*] Wageningen, Alterra. 85 pp. <http://www.dhovlaanderen.be/files/Vakreview%20Psychologie.pdf>
- UNITED NATIONS, 1992: Agenda 21: the United Nations Programme of Action from Rio. New York, UN Publications.
- WILLISON (J.), 2009: Interpretation for sustainability. Roots 6(1): 2-4.

14. FIELD INTERPRETATION STUDIES, LANDSCAPE AND PLANTS

BACKGROUND & FURTHER READING: FIELD INTERPRETATION STUDIES, LANDSCAPE AND PLANTS

ADDISON (R.A.), 1933: Why rocks ? Parks & Recreation J. 16

APPLEGATE (J.F.) & CLARKE (K.E.), 1987: Satisfaction levels of birdwatchers: an observation on the consumptive-unconsumptive continuum. Leisure Sciences 21: 81-102.

APPLETON (J.), 1975: The experience of landscape. New York, Wiley.

BACON (W.), 1996: Multisensory landscape aesthetics. In: DRIVER (B.L.), DUSTIN (D.), BALTIC (T.), ELSNER (G.) & PETERSON (G.) (eds.): Nature and the human spirit: toward an expanded land management ethic. State College, Venture. 311-320.

BECKMAN (E.A.), 1999: Evaluating visitors' reactions to interpretation in Australian national parks. J. of Interpretation Research 4(1): 5-19.

BLOEMMEN (M.H.I.), BUIJS (A.E.) & DE VRIES (S.), 2002: De beleving van reliëf: literatuuroverzicht en validatie van de indicator "reliëf" uit het belevingsGIS. [Experiencing geographical relief: an overview of literature and validation of the "relief" indicator from the experience GIS.] Werkdocument 2002/12. Wageningen, WOT Natuur & Milieu.

BUIJS (A.E.), JACOBS (M.H.), VERWEIJ (P.J.F.M.) et al, 1999: Graadmeters Beleven: theoretische uitwerking en validatie van het begrip afwisseling. [Measures of experience: theoretical elaboration and validation of the concept of variation.] Reeks Planbureau – werk in uitvoering. Wageningen, Natuurplanbureau.

CARTER (J.) (ed.), 2001: A sense of place. An interpretive planning handbook. Inverness, Tourism & Environment Initiative. 50 pp.

http://portal.uni-freiburg.de/interpreteurope/service/publications/recommended-publications/carter_sense-of-place.pdf

EISENBERGER (R.), LOOMIS (R.), VAUGH (S.), VISTY (J.) & YALOWITZ (S.), 2002: The National Park experience. VSA Annual Conf. 2002, Cody, WY. Abstract: <http://www.visitorstudiesarchives.org>

HEERWAGEN (J.H.) & ORIANS (G.H.), 1993: Humans, habitats and aesthetics. In: KELLERT (S.R.) & WILSON (E.O.) (eds.), 1993: The Biophilia Hypothesis. Washington DC, Island Press. 142-46.

HUGHES (K.), BALLANTYNE (R.) & PACKER (J.), 2006: Working with animals and children: the challenges of visitor research in wildlife tourism. Visitor Studies Today! 9(3): 26-29.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2r5-a_5730.pdf

JACOBSON (S.K.), 1988: Media effectiveness in a Malaysian park system. J. Env. Educ. 19(4): 22-27.

JANICK (J.), 1992: Horticulture and human culture. In: RELF (D.) (ed.), 1992: The role of horticulture in human well-being and social development. Portland, Timber.

JANZEN (D.), 1998: Gardenification of wildland nature and the human footprint. Science 279: 1312-13.

JOY (C.), 2006: The delight factor: exploring the role of landscape in transformational learning. In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. in Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-5.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

MOSCARDO (G.), 1988: Toward a cognitive model of visitor responses in interpretive centers. J. Env. Educ. 20(1): 29-37.

MORALES MIRANDA (J.), 1999: Interpretation: a discipline for heritage. *Naturopa* 91: 18-19.

ORAMS (M.), 1994: Creating effective interpretation for managing interaction between tourists and wildlife. *Australian J. Env. Educ.* 10: 21-34.

ORAMS (M.B.), 1996: A conceptual model of tourist-wildlife interaction: the case for education as a management strategy. *Australian Geographer* 27(1): 39-51.

ORAMS (M.B.), 1997: Cetacean education: can we turn tourists into "Greenies"? *Progress in Tourism & Hospitality Res.* 3(4): 295-306.

ORIANS (G.H.), 1986: An ecological and evolutionary approach to landscape aesthetics. In: PENNING-ROSWELL (E.C.) & LOWENTHAL (D.) (eds.): *Landscape meanings and values*. London, Allen & Unwin: 3-25.

ORIANS (G.H.) & HEERWAGEN (J.H.), 1992: Evolved responses to landscapes. In: BARKOW (J.H.), COSMIDES (L.) & TOOBY (J0) (eds.): *The adapted mind: evolutionary psychology and the generation of culture*. New York, Oxford UP: 555-79.

REVELL (G.), 1989: Cross-cultural comparison of landscape scenic beauty evaluations. *J. of Env. Psych.* 9: 177-191.

TOBEY Jr (G.B.), 1973: *A history of landscape architecture: the relationship of people to environment*. New York, Elsevier. 320 pp.

ULRICH (R.), 1977: Visual landscape preference: a model and application. *Man-Environmental Systems* 7: 279-293.

ULRICH (R.S.), 1986: Human responses to vegetation and landscapes. *Landscape & Urban Planning* 13:

ULRICH (R.S.), 1993: Biophilia, biophobia, and natural landscapes. In: KELLERT (S.R.) & WILSON (E.O.) (eds.): *The biophilia hypothesis*. Washington DC, Island Press.

VAN DER LINDEN (J.W.), 1984: De effectiviteit van natuurvoorlichting in bezoekerscentra. [*The effectiveness of wildlife information in visitor centres.*] *Vrije Tijd & Samenleving* 2(1): 47-64.

WINKEL (G.), 1987: Naturerfahrung und ihre Beziehung zum Umweltbewußtsein. [*Nature experiences and their relation to environmental consciousness.*] In: SCHWARZ (D.) (Hrsg.): *Verhandlungsbericht zur Wissenschaftlichen Konferenz zu Fragen der Zoopädagogik 1987 in Rostock*. [*Proceedings of the Scientific Conference on Questions of Zoo Education, Rostock, 1987.*] Jena, Gustav Fischer: 219-23.

15. MUSEUMS AND ZOOS/MUSEUM VISITOR STUDIES (selective bibliography, including science centres)

BACKGROUND & FURTHER READING: MUSEUMS AND ZOOS/MUSEUM VISITOR STUDIES (SELECTIVE BIBLIOGRAPHY, INCLUDING SCIENCE CENTRES)

- ALT (M.B.) & SHAW (K.M.), 1984: Characteristics of ideal museum exhibits. *British J. Psychology* 75: 25-36.
- BANDELLI (A.), 2008: Who's listening in the museum? *Ecsite Newsletter* 74: 4.
- BEER (V.), 1987: Great expectations: do museums know what visitors are doing? *Curator* 37(3): 206-15.
- BENNETT (T.), 1995: The birth of the museum: history, theory, politics. London, Routledge.
- BICKNELL (S.) & FARMELO (G.) (eds.), 1993: Museum visitor studies in the 90s. London, Science Museum. 168 pp.
- BITGOOD (S.) & PATTERSON (D.), 1993a: The effect of gallery changes on visitor reading and object viewing time. *Env. & Behav.* 25(6): 761-81.
- BLACK (G.), 2005: The engaging museum. Developing museums for visitor involvement. London/New York, Routledge. 308 pp.
- BORUN (M.), 1978: Measuring the immeasurable. A pilot study of museum effectiveness. 2nd ed. Washington DC, ASTC.
- BORUN (M.), 1989: Assessing the impact. *Museum News* 68(3): 36-40.
- BOYD (N.), 2009: Visitor studies and audience development.
www.museums.org.uk/ABC_working_with_schools/downloads/Visitor_Studies_and_Audience_Development.ppt.
- CAMERON (D.F.), 1967: How do we know what our visitors think ? *Museum News* 45(7): 31-33.
- CAMERON (D.F.) & ABBEY (D.), 1960: Investigating a museum audience. *The Museologist* 77: 2-7.
- CAMERON (D.F.) & ABBEY (D.), 1961: Museum audience research. *Museum News* 40(2): 34-38.
- COMMITTEE ON AUDIENCE RESEARCH AND EVALUATION (CARE), 2008: Visitor Studies 101: Evaluating impact and understanding audiences – Notes, resources and references. Washington DC, AAM.
www.care-aam.org/documents/vs101_2008/AAMVS101_Longhandout.pdf
- DIMAGGIO (P.J.), USEEM (M.) & BROWN (P.), 1977: Audience studies in the performing arts and museums: a critical review. Washington DC, Nat'l Endowment for the Arts.
- DOERING (Z.D.), 1999: Strangers, guests or clients ? *Visitor experiences in museums. Curator* 42(2): 74-87.
- EISENBEIS (M.), 1980: Museum und Publikum. Über einige Bedingungen des Museumbesuches. [*The museum and the public. On some conditions of the museum visit.*] *Museumskunde* 45: 16-26.
- EVERETT (M.) & BARRETT (M.S.), 2009: Investigating visitor/museum relationships: employing narrative research in the fields of museum visitor studies. *Visitor Studies* 12(1): 2-15.
- FALK (J.) & DIERKING (L.), 1992: The museum experience. Washington DC, Whalesback Books. 205 pp.
- FALK (J.H.) & DIERKING (L.D.), 2000: Learning from museums: visitor experiences and the making of meaning. Walnut Creek/Lankham, AltaMira. 288 pp.

- GIUSTI (E.), 2006: "Visitor studies" "Evaluation" What does that mean? PowerPoint Visitor Studies 101 Session, AAM Ann. Meeting. Washington DC, AAM.
www.care-aam.org/documents/vs101_2006/GiustiVS101presAAM2006.pdf
- GIUSTI (E.), 2008: Visitor Studies 101: Evaluating impact and understanding audiences – PowerPoint Visitor Studies 101 Session, AAM Ann. Meeting, Denver. Washington DC, AAM.
www.care-aam.org/documents/vs101_2008/GiustiVS101presAAM.pdf.
- GOULDING (C.), 2000: The museum environment and the visitor experience. Eur. J. Mktg 34: 261-78.
- GUTWILL (J.), 2007: Research in museums: coping with complexity. In: FALK (J.), DIERKING (L.) & FOUTZ (S.) (eds.), 2007: In principle – in practice: museums as learning institutions. Langham, AltaMira Press.
- HAANSTRA (F.), 1992: Beleving en waardering van museumbezoek. [*Experience and appreciation of museum visits.*] SCO-rapport 313. Amsterdam, SCO-Kohnstamm Inst..
- HEIN (G.E.), 1998: Learning in the museum. London/New York, Routledge. 216 pp.
- HELM (S.) & KLAR (S.), 1997: Besucherforschung und Museumpraxis. [*Visitor studies and museum practice.*] München, Verlag Dr. Christian Müller-Straten. 234 pp.
- HOFFRICHTER (H.), 1996: Möglichkeiten, Perspektiven und Grenzen der Besucherforschung an Museen. [*Possibilities, perspectives and limits of visitor studies in museums.*] In: ZIMMER (A.) (Hrsg.): Das Museum als Nonprofit Organisation. [*The museum as non profit organization.*] Frankfurt/M., Campus: 217-48.
- HOOD (M.), 1991: Significant issues in museum audience research. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 18-23. Abstract: <http://www.visitorstudiesarchives.org>
- HOOPER–GREENHILL (E.), 1992: The museum and the shaping of knowledge. London/New York.
- HOOPER–GREENHILL (E.), 1994: Museums and their visitors. London, Routledge.
- HOOPER–GREENHILL (E.), 2006: Studying visitors. In: MACDONALD (S.) (ed.): A companion to museum studies. Malden, Blackwell: 362-76.communic
- KARP (I.) & LAVINE (S.D.) (eds.), 1991: Exhibiting cultures: the poetics and politics of museum display. Washington DC, Smithsonian Inst. Press.
- KIRCHBERG (V.), 1996: Sozialforschung und Museumsmarketing. [*Social research and museum marketing.*] In: HAUS DER GESCHICHTE DER BUNDESREPUBLIK DEUTSCHLAND (Hrsg.): Museen und ihre Besucher. [*Museums and their visitors.*] Berlin, Argon: 176-93.
- KLEIN (H.J.), 1991: Evaluation für Museen: Grundfragen – Ansätze – Aussagemöglichkeiten. [*Evaluation for museums: fundamental questions – basic assumptions – possible statements.*] Karlsruher Schriften zur Besucherforschung 1: 3-23.
- KLEIN (H.J.), 1993: Vom Präsentieren zum Vermitteln: Die Rolle von Ausstellungsevaluation und Besucherforschung. [*From presenting to interpreting: the role of exhibition evaluation and visitor studies.*] Neues Museum 3/4: 100-05.
- KLEIN (H.J.), 1996: Besucherforschung als Antwort auf neue Herausforderungen. [*Visitor studies in response to new challenges.*] In: HAUS DER GESCHICHTE DER BUNDESREPUBLIK DEUTSCHLAND (Hrsg.): Museen und ihre Besucher. [*Museums and their visitors.*] Berlin, Argon: 72-84.
- KLEIN (H.J.) & BACHMAYER (M.), 1981: Museum und Öffentlichkeit: Fakten und Daten – Motive und Barrieren. [*Museums and public relations: facts and data – motivations and barriers.*] Berlin, Gebr. Mann. 288 pp.
- KORFF (G.), 2001: Das Popularisierungsdilemma. [*The popularization dilemma.*] In: KORFF (G.) et al, 2001: Zauberformeln des Zeitgeistes. Erlebnis, Event, Aufklärung, Wissenschaft. Wohin entwickelt sich die Museumslandschaft? [*Magic formulas of our times. Experience, event, information, science. What course is the museum world following?*] Mannheim.

- KORN (R.), 1996: Analysis of differences between visitors at natural history museums and science centers. LANKFORD JENS (S.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf.. Jacksonville, VSA:
- MACBRIAR Jr (W.N.), 1964: Testing your audience. *Museum News* 42(8): 15-17.
- MCLUHAN (M.), 1969: Exploration of the ways, means and value of museum communication with the viewing public. New York, Museum of the City of New York.
- MEAD (M.), 1970: Museums in a media-saturated world. *Museum News*, Sep. 1970: 23-25.
- MELTON (A.W.), 1972: Visitor behavior in museums: some early research in environmental design. *Human Factors* 14(5): 393-403.
- MILES (R.S.), 1986: Museum audiences. *Int'l J. Museum Mgmt Curatorship* 5: 73-80.
- MORRIS (G.), 2005: Never mind the width, feel the quality: from market research to visitor insight. In: DE SMET (A.), VAN GENECHTEN (H.) & VERHAERT (T.) (eds.): *Market'eum 05 verslagboek. Cahier zwart op wit 1.* Antwerpen, Cult. Biografie Vlaanderen: 47-54.
- MUSEUMS ASSOCIATION, 1992: Museums Association guidelines on performance measurement. In: BARBOUR (S.) (ed.): *Museums Yearbook 1991/1992.* London, Museums Assn..
- NIELSEN (L.C.), 1946: A technique for studying the behavior of museum visitors. *J. Educ. Psych.* 37(2): 103-10.
- NOSCHKA-ROOS (A.), 1994: Besucherforschung und Didaktik. Ein museumspädagogisches Plädoyer. [*Visitor studies and didactics. A museum education plea.*] Berliner Schriftenreihe zur Museumskunde, Band 11. Opladen.
- NOSCHKA-ROOS (A.) (Hrsg.), 2003: Besucherforschung in Museen. Instrumentarien zur Verbesserung der Ausstellungskommunikation. [*Visitor studies in museums. Instruments to improve exhibition communication.*] Public Understanding of Science, Theorie und Praxis. München, Deutsches Museum. 176 pp.
- PEKARNIK (A.J.), DOERING (Z.D.) & KARNS (D.A.), 1999: Exploring satisfying experiences in museums. *Curator* 42(2): 152-73.
- ROBINSON (E.S.), 1928: The behavior of the museum visitor. New Series No. 5. Washington DC, AAM.
- ROBINSON (E.), 1931: Exit the typical visitor. *J. Adult Educ.* 3: 418-23.
- RODRIGUEZ (A.) & ALVAREZ (A.), 1997: Estudios de público en museos y exposiciones. El público la razón de ser del museo. [*Visitor studies in museums and exhibitions. The audience as raison d'être for museums.*] Revista de Museología 10: 100-02.
- ROGOFF (I.), 1994: Museum culture: histories, discourses, spectacles. London, Routledge.
- SCHÄFER (H.) et al, 1996: Museen und ihre Besucher. Herausforderungen für die Zukunft. [*Museums and their visitors. Challenges for the future.*] Bonn, Haus der Geschichte.
- SCHOUTEN (F.), 1977: Evaluaties in het educatieve werk. *Museumvisie* 1(3/4): 28.
- SCREVEN (C.G.), 1974: The measurement and facilitation of learning in the museum environment: an experimental analysis. Washington DC, Smithsonian Inst. Press.
- SCREVEN (C.G.), 1986: Exhibitions and information centers: some principles and approaches. *Curator* 29(2): 109-37.
- SERRELL (B.), 1997: Paying attention: the duration and allocation of visitors' time in museum exhibitions. *Curator* 40(2): 108-25.
- SERRELL (B.), 1998: Paying attention: visitors & museum exhibitions. Washington DC, AAM. 220 pp.

- SERRELL (B.), 2010: Paying more attention to paying attention. Washington DC, CAISE.
<http://caise.insci.org/news/96/51/Paying-More-Attention-to-Paying-Attention/d.newsletter-detail-template>
- SILVERMAN (L.), 1993: Making meaning together. *J. Museum Educ.* 18(3): 7-11.
- TUULI (L.), EDMOND (A.), BADE (C.), AGEMA (A.) & GREGO (J.), 2006: What can science centres learn from their visitors? Abstract. ECSITE Conference 2006, Technopolis, the Flemish Science Centre. Programme book. Mechelen/Brussels, Technopolis/ECSITE: 13-14.
- WASHBURN (W.E.), 1975: Do museums educate ? *Curator* 18(3): 211-18.
- WINKLER (F.) & HOLTHÖFER (D.), 2004: Wie langweilig dürfen Museen sein? [*How boring can museums be?*] Museums-Aktuell, Aug. 2004:

BACKGROUND & FURTHER READING: MUSEUMS AND ZOOS

- ALBRECHT (U.), 2006: Nemo und Co: Geschichte, Beispiele und Aufgaben von Schauaquarien in Naturkundemuseen. [*Nemo and Co: history, examples and tasks of public aquariums in natural history museums.*] Museum-Aktuell, Okt. 2006 :
- BIRNEY (B.), 1986: Comparing exhibit influences on children's knowledge of wildlife as a result of field trips to a zoo versus a natural history museum. *AAZPA 1986 Proc.*: 377-89.
- BITGOOD (S.), 1992: Does audience research from museums apply to zoos? A response to Milan & Wourms' article. *Curator*, 35(3): 166-69.
- COE (J.C.), 1986: Toward a co-evolution of zoos, aquariums and museums. *AAZPA Ann. Conf. Proc.* 1986: 366-67.
- GOULD (N.), 2009: Editorial. *Int. Zoo News* 56(1): 2-3.
- KELLER (F.B.), 2009: Der Zoo Zürich ist ein spezielles Museum. [*Zurich Zoo is a special museum.*] Museum-Aktuell, Jan. 2009:
- MILAN (L.) & WOURMS (M.), 1992: A zoological park is not just another museum. *Curator* 35(2): 120-36.
- MÜLLER-STRATEN (C.), 2003: Sind Botanische Gärten und Zoos Museen? Anmerkungen zur andauernden Diskussion. [*Are botanical gardens and zoos museums? Notes to the ongoing discussion.*] Museum-Aktuell, Apr. 2003:
- PAWLEY (R.), 2010: The visitor experience in museums and zoos. *Int'l Zoo News* 57(6): 344-351.
- ROMER (L.) & CHRISTIDIS (L.), 2008: Natural history museums, zoos and aquariums – making the most of our animal collections. *Thylacinus* 32(4): 3-6.
- SCHÄFER (W.), 1963: Zoo und Museum, ein Vergleich. [*Zoo and museum, a comparison.*] *Natur & Museum* 93: 187-89.
- SHERWOOD (K.P.), RALLIS (S.F.) & STONE (J.), 1989: Effect of live animals vs. preserved specimens on student learning. *Zoo Biology* 8: 99-104.

BACKGROUND & FURTHER READING: NATURAL HISTORY MUSEUMS

ASH (D.), 2002: Negotiations of thematic conversations about biology. In: LEINHARDT (G.), CROWLEY (K.) & KNUTSON (K.) (eds.): Learning conversations in museums. Mahwah, Erlbaum: 357-400.

BAKER (S.), 2006: What can dead bodies do? In: SNÆBJÖRNNSDÓTTIR (B.) & WILSON (M.) (eds.), 2006: Nanoq: flat out and bluesome. A cultural life of polar bears. London, Black Dog: 148-55.

HENNING (M.), 2006: Skins of the real: taxidermy and photography. In: SNÆBJÖRNNSDÓTTIR (B.) & WILSON (M.) (eds.), 2006: Nanoq: flat out and bluesome. A cultural life of polar bears. London, Black Dog: 136-47.

KEARNS (W.E.), 1940: Studies of visitor behavior at the Peabody Museum of Natural History, Yale University. Museum News 17(14): 5-8.

KIRCHBERG (V.), 1998: Besucher und ihre Einstellungen zu Naturkundemuseen. In: SCHER (M.A.) (Hrsg.): Umweltausstellungen und ihre Wirkung. [Visitors and their attitudes to natural history museums.] Schriftenreihe des Staatlichen Museums für Naturkunde und Vorgeschichte Oldenburg. Oldenburg, Staatl. Museum für Naturkunde und Vorgeschichte Oldenburg: 37-50.

LUTTS (R.H.), 1990: The nature fakers: wildlife, science, and sentiment. Golden, Fulcrum. 255 pp.

MAROEVIC (I.), 2003: Museality of natural history objects: its identification and communication. Museum-Aktuell, Feb. 2003:

MARVIN (G.), 2006: Perpetuating polar bears: the cultural life of dead animals. In: SNÆBJÖRNNSDÓTTIR (B.) & WILSON (M.) (eds.), 2006: Nanoq: flat out and bluesome. A cultural life of polar bears. London, Black Dog: 156-65.

SCHÄFER (W.), 1974: Objekt und Bild, Beiträge zu einer Lehre vom Museum. [Object and image, contributions to a theory of the museum.] Kleine Senckenberg-Reihe 6. Frankfurt, Senckenbergischen Naturforschenden Gesellschaft/Waldemar Kramer. 290 pp.

VAN MENSCH (P.J.A.), 1978: Natuurhistorische musea en hun publiek. [Natural history museums and their audience.] Intermediair 6 okt. 1978: 17-23.

VAN MENSCH (P.J.A.), 1980: Educatie en tentoonstellingen in natuurhistorische musea. Deel 3: De mogelijkheden en de beperkingen. [Education and exhibitions in natural history museums. Part 3: Prospects and limitations.] Museologie 14: 3-20.

16. EXHIBIT DESIGN & EVALUATION: FRONT-END AND PREFORMATIVE EVALUATION STUDIES

BACKGROUND & FURTHER READING: GENERAL

BITGOOD (S.), 1994: Designing effective exhibits: criteria for success, exhibit design approaches and research strategies. *Visitor Behav.* 9(4): 4-15.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1q9-a_5730.pdf

BITGOOD (S.), 1995: How valid are front-end evaluations ? *Visitor Behav.* 10(4): 17.

BITGOOD (S.) & PATTERSON (D.), 1993: Exhibit design and visitor behavior: empirical relationships. *Curator* 20(4): 474-91.

BLACK (G.), 2000: Quality and concept development. In: DRUMMOND (S.) & YEOMAN (I.) (eds.): *Heritage visitor attractions: an operations management perspective*. London, Cassell: 251-59.

BORUN (M.), 1993: Vorab-Evaluation: ein Instrument für die Ausstellungs- und Programmplanung. [*Pre-formative evaluation: an instrument for exhibition and programme planning.*] Karlsruher Schriften für Besucherforschung 4: 19-31.

COLOSI (L.) & DUNIFON (R.), 2006: What's the difference: "post then pre" & "pre then post". Prepared for Cornell Cooperative Extension. <http://www.citra.org/assets/documents/evaluation%20design.pdf>

CRAWFORD SEAGRAM (B.), PATTEN (L.H.) & LOCKETT (C.), 1993: Audience research and exhibit development: a framework. *Museum Mgmt & Curatorship* 12 (1): 29-41.

DIERKING (L.D.), KORAN Jr (J.), LEHMAN (J.), KORAN (M.) & MUNYER (E.), 1984: Recessing in exhibit design as a device for directing attention. *Curator* 27(3): 238-48.

GAMMON (B.): 1999: You're an animal ! Metaphors for audience advocacy. *Visitor Studies Today* 2(3): 10-12. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6x3-a_5730.pdf

GAULDING (M.) & WEISSMAN (A.), 1992: Making visitors part of the exhibit development team. *Visitor Studies* 4(1): 230-33.

GUIMOND (J.-A.), 2000: Front-end & formative evaluation: not necessarily a formal affair. VSA Conf. 2000, Boston. Abstract: <http://www.visitorstudiesarchives.org>

HANSON (P.), 1987: Experimental prototypes. *J. Museum Educ.* 12(1) :

HAYWARD (J.) & LOOMIS (R.J.), 1993: Looking back at front-end studies. In: THOMPSON (D.), BITGOOD (S.) et al: *Visitor Studies: Theory, research, and practice*. Vol. 6. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 261-65. Abstract: <http://www.visitorstudiesarchives.org>

JARRETT (J.E.), 1986: Learning from developmental testing of exhibits. *Curator* 29(4): 295-306.

KLEIN (H.J.), 1993 (ed.): Front-end evaluation. Ein nichtssagender Name für eine vielsagende Methode. [*Front-end evaluation. A nondescript name for a meaningful method.*] Karlsruher Schriften zur Besucher-Forschung, Heft 4. Karlsruhe, Inst. f. Soziologie & Interfakult. Inst. f. angewandte Kulturwissenschaft.

KNUDSON (D.), CABLE (T.) & BECK (L.), 1995: Evaluation. Interpretation of cultural and natural resources. State College, Venture Publishing.

KORN (R.), 1998: Making sure the time is right for front-end evaluation. *Visitor Studies Today!* 1: 12.

LITWAK (H.), 1989: Wanted: guidelines for exhibit design. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON

- (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- MCNAMARA (P.A.), 1987: Visitor participation in formative exhibit evaluation. *J. Museum Educ.* 12(1): 9-11.
- MCNAMARA (P.), 1988: Visitor-tested exhibits. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- MILES (R.S.) & CLARKE (G.), 1993: Setting off on the right foot: front-end evaluation. *Env. & Behav.* 25: 698-709.
- MUNRO (P.), s.d.: The use of evaluation as a planning tool: a brief overview. München, Patricia Munro.
- MUNRO (P.), s.d.: Evaluation als Planungsmethode: ein kurzer Überblick. [*Evaluation as a planning method: a short overview.*] München, Patricia Munro.
- MUNRO (P.S.), 1993: Auf dem Weg: Warum Front-End Evaluation? *Karlsruher Schriften zur Besucherforschung* 4: 45-56.
- PARSONS (C.), 1993: Front-end evaluation: how do you choose the right questions ? In: THOMPSON (D.), BITGOOD (S.) et al: Visitor Studies: Theory, research, and practice. Vol. 6. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 66-72. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4n9-a_5730.pdf
- PATTERSON (D.), & BITGOOD (S.), 1971: Exhibit design with the visitor in mind. Technical Reports no. 87-40. Jacksonville, Jacksonville State Univ. Psychology Inst.
- PATTNAIK (A.K.), SINHA (S.K.) & GUPTA (B.K.) (eds.), 2007: Master planning of zoos. Proceedings of training programme on master planning of zoos for directors and managers of zoos in India. Bhubaneswar, Nandankanan Zool. Park. 320 pp.
- PETERSON (J.F.), 1986: "User-friendly" exhibit design. *AAZPA Ann. Conf. Proc.*
- PIPER (J.), 1987: Can we design learning into an exhibit? New "basics" for planning exhibit interpretation. *AAZPA 1987 Reg. Proc.*: 407-15.
- QUICK (D.), 1984: An integrative approach to environmental engineering in zoos. *Zoo Biology* 3: 65-77.
- ROCKWELL (S.K.) & KOHN (H.), 1989: Post the pre evaluation. *J. of Extension*, 27(2).
<http://www.joe.org/joe/1989summer/a5.html>
- RUBENSTEIN (R.), 1989: Bridging the applicability gap between research and planning. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- RUBENSTEIN (R.), 1990: Focus groups and front-end evaluation. In: BITGOOD (S.) et al (eds.): Visitor studies: theory, research, and practice. Vol. 3. Jacksonville, Ctr for Social Design: 87-93.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5v9-a_5730.pdf
- RUBINSTEIN (R.), 1993: Der Werdegang der Vorab-Evaluation. [*The development of pre-formative evaluation.*] Karlsruher Schriften für Besucherforschung 4: 33-38.
- SALZERT (W.), 1997: Attraktive Zoogestaltung – Gibt es ein Patentrezept ? [*Attractive zoo design – is there a patent recipe?*] Sonderdruckreihe: "Berichte aus Forschung und Wissenschaft". Schönbrunner Tiergarten J. 1997(4)
- SCREVEN (C.G.), 1988: Formative evaluation: conceptions and misconceptions. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. Abstract: <http://www.visitorstudiesarchives.org>
- SCREVEN (C.G.), 1990: Uses of evaluation before, during, and after exhibit design. *ILVS Review: a J. of Visitor Behav.* 11(2): 36-66.

SCREVEN (C.), 1991: What is formative evaluation? In: TAYLOR (S.) (ed.): Try it! Improving exhibits through formative evaluation. Washington DC, ASTC: 9-13.

SHETTEL (H.H.), 1992: Front-end evaluation: another useful tool. ILVS Review 2(2): 275-80.

BACKGROUND & FURTHER READING:
PRE-FORMATIVE EVALUATION IN MUSEUM AND EXHIBITION DESIGN

ADES (S.) & KAPLAN FISHMAN (G.), 1992: Front-end evaluation and exhibition development: a working relationship. ILVS Review: J. of Visitor Behav. 2(2): 299-302.

ALMASAN (A.), 1991: Modelle als Testinstrumente bei der Ausstellungsplanung. [*Models as test instruments in exhibition planning.*] Karlsruher Schriften für Besucherforschung 1: 25-47.

GRIGGS (S.A.) & MANNING (J.), 1983: The predictive validity of formative evaluation of exhibits. Museum Studies J. 1(2): 31-41.

KORN (R.), 1993: Evaluation methods and findings shape a junior gallery. Visitor Studies 5(1): 180-90.

LOOMIS (R.J.), 1993: Planning for the visitor: the challenge of visitor studies. In: BICKNELL (S.) & FARMELO (G.) (eds.): Museum visitor studies in the 90s. London, Science Museum: 13-23.

MUNRO (P.), 2000: Brückenschlag zwischen Museen und ihren Besuchern mittels Vorab-Evaluation. [*Bridge building between museum and their visitors by means of pre-formative evaluation.*] In: GÜNTER (B.) & JOHN (H.) (Hrsg.): Besucher zu Stammgästen machen! Neue und creative Wege zur Besucherbindung. [*Making visitors into regular customers. New and creative ways to establish visitor relations.*] Bielefeld: 79-84.

NOSCHKA-ROOS (A.), 1993: Wegweiser der Front-End Evaluation für die Ausstellungsplanung. [*Manual of front-end evaluation for exhibition planning.*] Karlsruher Schriften zur Besucherforschung 4: 57-103.

- **Pre-formative evaluation in zoos**

ANDERSEN (L.L.), 1992: Right enclosure design – before stories can be told. In: STEVENS (P.M.C.) (ed.): 4th International Symposium on Zoo Design and Construction. Paignton, Whitley Wildlife Conservation Trust: 71-85.

BOUCHER (L.) & CHARPENTIER (A.), 1992: Installations for which publics? Evaluation of an evaluation at the Biodôme de Montréal. Visitor Studies 4(1): 148-54.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5b6-a_5730.pdf

FRASER (J.), BICKNELL (J.) & SICKLER (J.), 2006: Assessing the connotative meaning of animals using semantic differential techniques to aid in zoo exhibit development. Visitor Studies Today! 9(3): 1; 4-9. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2r4-a_5730.pdf

HEINRICH (C.), APPELBAUM (K.) & BIRNEY (B.), 1994: A formative evaluation of Habitat Africa!'s Thirsty Animal Trail prototype series. Visitor Studies 5(1): 165-79.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4v6-a_5730.pdf

MAPLE (T.L.), 2005: Post-occupancy evaluation in the zoo: toward a science or appropriate, functional, and superior exhibitory for animals and people. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 111-17.

ON-GOING OR UNPUBLISHED STUDIES :

MACKINNEY (L.), 2001: Using visitor studies to plan a new facility. 13th ann. VSA conf., July 31-Aug. 4, 2001, Orlando, FL. Abstract: <http://www.visitorstudiesarchives.org>

MACKINNEY (L.), 2003: Building on the past: applying old and new evaluation studies to a complete overhaul. 16th ann. VSA conf., July 15-19 2003, Columbus, OH. Abstract: <http://www.visitorstudiesarchives.org>

- **Specific exhibits**

BIRNEY (B.A.), 1988d: Brookfield Zoo's "Flying Walk" exhibit. Formative evaluation aids in the development of an interactive exhibit in an informal learning setting. Env. & Behav., 20(4): 416-34.

BITGOOD (S.), PIERCE (M.), NICHOLS (G.) & PATTERSON (D.), 1987: Formative evaluation of a cave exhibit. Curator 30(1): 31-39.

HEINRICH (C.), APPELBAUM (K.) & BIRNEY (B.), 1993: A formative evaluation of Habitat Africa's Thirsty Animal Trail prototype series. In: THOMPSON (D.), BITGOOD (S.) et al: Visitor Studies: Theory, research, and practice. Vol. 6. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 165-79. Abstract: <http://www.visitorstudiesarchives.org>

KELSEY (E.), 1989: Parameters for consideration in the planning and design of a new exhibit – Arctic Canada. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

Abstract: <http://www.visitorstudiesarchives.org>

MCGRAW (A.) & WEAVER (S.), 2001: Developing the new "heart" of the San Diego Zoo. Visitor Studies Today! 4(1): 4-7.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6t4-a_5730.pdf

POLLARD (A.M.), 1979: Visitor participation in Phase II in the Earth Sciences Center at the Arizona-Sonora Desert Museum. Newsletter IZE 9: 70-72.

SERRELL (B.) & BECKER (B.), 1991: Stuffed birds on sticks: plans to re-do the animal halls at Field Museum. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 263-267. Abstract: <http://www.visitorstudiesarchives.org>

ON-GOING OR UNPUBLISHED STUDIES :

BORUN (M.), CHAMBERS (C.), WAGNER (K.F.), 1999: How evaluation guided the development process for a new primate exhibit at the Philadelphia Zoo. 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL.
Abstract: <http://www.visitorstudiesarchives.org>

KORN (R.) et al, 2005: Vicious fishes. A front-end exhibition evaluation with a science museum. RK&A Case Study. Miami/Alexandria, Miami Museum of Sci. & Planetarium/Randi Korn & Associates. Unpublished.

MEDIA TRANSFORMATIONS, 2002a: Tiger Mountain survey report. Teaneck, Media Transformations.

MEDIA TRANSFORMATIONS, 2002b: Tiger evaluation: front end. Teaneck, Media Transformations.

PEOPLE, PLACES AND DESIGN RESEARCH, 2001: Formative study #1: mock-ups of the first gallery of Alien Stingers, New York Aquarium. Amherst, People, Places & Design Research.

17. TRACKING & TIMING: ORIENTATION, CIRCULATION AND SPATIAL DISTRIBUTION STUDIES

- Tracking and timing studies in zoos and aquariums**

CANTIN (S.) & PRESCOTT (J.), 1979: Itinéraires de visite de fréquentation des “exhibits” par les visiteurs du Jardin Zoologique de Québec. [Visitor itineraries and exhibit frequentation by visitors to Québec Zoo.] Carnets de Zoologie 39(3): 39-42.

CANTIN (S.) & PRESCOTT (J.), 1980: Visitor routes at Quebec Zoo. Int. Zoo News 168 :12-18.

CROCKETT (C.), 1977: Methods of observational research in the zoo setting. Appl. Behavioral Res.. Seattle, Pika.

DAVEY (G.), 2006: Zoo visitor density and its role as a confounding variable. BIAZA Zoo Res. News 7(1): 3-4.

JACKSON (D.W.), OGDEN (J.J.) & MAPLE (T.L.), 1989: Making visual contact at the gorilla interpretive center: A study of visitor traffic flow and gorilla visibility. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 225-37.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5u5-a_5730.pdf

MOSS (A.), FRANCIS (D.) & ESSON (M.), 2007: The measurement of visitor density and its effect on visitor behaviour in zoo exhibits. BIAZA Res. Newsletter, 8 (3): 2-3.

ON-GOING OR UNPUBLISHED STUDIES:

BIRNEY (B.A.), 1990e: African Scenes: a survey of visitors’ use of Brookfield Zoo’s northwest quadrant during July 1989. Brookfield, Chicago Zool. Soc.

HEINRICH (D.) & BIRNEY (B.A.), 1991: Visitors’ use of and traffic patterns in the Seven Seas underwater viewing area. Report to the Chicago Zool. Soc.. Brookfield, Chicago Zool. Soc..

SPRUCE (S.) & ESSON (M.), 2007: Can you see the animals? An investigation into the visibility of a selection of animals at Chester Zoo. Chester, Chester Zoo. Contact Andrew Moss, a.moss@chesterzoo.org

BACKGROUND & FURTHER READING: TRACKING AND TIMING STUDIES

BARRIAULT (C.), 2009: Observations. Evaluation: an overview. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 71. <http://www.ecsite-conference.net/content/user/File/programma.pdf>

BECHTEL (R.B.), 1967: Hodometer research in museums. Museum News 45(3): 23-26.

BENNE (M.), 2000: What is an isovist and how does it relate to visitor distribution? VSA Conf. 2000, Boston. Abstract on <http://www.visitorstudiesarchives.org>

BITGOOD (S.), 1987 (ed.): Special issue: Orientation and circulation. Visitor Behav. 1(4)

BITGOOD (S.), 1988c: Problems in visitor orientation and circulation. In: In: BENEFIELD (A.), ROPER (J.T.) &

BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

BITGOOD (S.), 1992: Visitor orientation and circulation: some general principles. *Visitor Behav.* 8(3): 15-16.

BITGOOD (S.), 2006: An analysis of visitor circulation: movement patterns and the general value principle. *Curator* 49(4): 463-75.

BITGOOD (S.), MCKERCHAR (T.) & DUKES (S.), 2008: Melton's study of gallery density and visitor attention: perceptual distraction or selective choice? Presented at the Ann. Visitor Studies Conf., Houston, TX.

BITGOOD (S.) & PATTERSON (D.), 1987: Measurement of orientation and circulation behavior. *Visitor Behav.* 1(4): 4.

BITGOOD (S.) & PATTERSON (D.), 1987: Principles of orientation and circulation. *Visitor Behav.* 1(4)

DE PRETER (W.), 2010: Luchthaven Zaventem volgt passagiers via gsm. [Zaventem airport tracks passengers by mobile phone.] De Standaard, 15 mrt 2010 : http://www.standaard.be/artikel/detail.aspx?artikelid=DMF20100315_038

DILLON (J.), 2009: Video observations. Evaluation: an overview. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 71. <http://www.ecsite-conference.net/content/user/File/programma.pdf>

DOERING (Z.D.) & PEKARIK (A.J.), 1997: Why time is not quality. *Curator* 40: 249-52.

HALL (E.T.), 1963: Proxemics. The study of man's spatial relations. In: Men's image in medicine and anthropology.

KUHAR (C.W.), MILLER (L.J.), LEHNHARDT (J.), CHRISTMAN (J.), MELLEN (J.D.) & BETTINGER (T.L.), 2010: A system for monitoring and improving animal visibility and its implications for zoological parks. *Zoo Biology* 29(1): 68-79. Abstract:

<http://onlinelibrary.wiley.com/doi/10.1002/zoo.20245/abstract?systemMessage=Due+to+scheduled+maintenance%2C+access+to+Online+Library+will+be+disrupted+on+Saturday%2C+5th+Feb+%2711+between+10%3A00-12%3A00+GMT.>

LANKFORD (S.), BITGOOD (S.) & COTA (A.) (eds.), 1995: Special issue: orientation and circulation. *Visitor Behav.* 10(2)

MA (J.), 2007: New tools for tracking and timing. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 15-16. Abstract: <http://www.visitorstudiesarchives.org>

MELTON (A.W.), 1936: Distribution of attention in galleries in an museum of science and industry. *Museum News* 14(3): 6-8.

PARR (A.E.), 1967: Location, motivation, and duration of museum attendance. *Curator* 10(3): 206-10.

PHILLIPS (D.), 1995: Evaluating time-lapse video evaluation. *Museum Mgmt & Curatorship* 14(1): 19-29.

SERRELL (B.), YALOWITZ (S.) & ROSS (S.R.), 2007: Listening to what visitors say with their feet: old and new methods of tracking and timing in exhibitions. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 29. Abstract: <http://www.visitorstudiesarchives.org>

SHETTEL (H.H.), 1997: Time – is it really of the essence? *Curator* 40: 246-48.

TURNER (A.), DOXA (M.), O'SULLIVAN (D.) & PENN (A.), 2001: From isovists to visibility graphs: a methodology for the analysis of architectural space. *Env. & Planning B* 28: 103-21.

WIJNS (F.), 1984: Ruimtelijk gedrag of proxemica. Een vergelijkende literatuurstudie. Eindverhandeling. [Spatial behaviour or proxemics. A comparative literature study.] Leuven, KU Leuven, Centrum voor Communicatiewetenschappen.

YALOWITZ (S.S.) & BRONNENKANT (K.), 2009: Timing and tracking: unlocking visitor behavior. *Visitor Studies* 12: 47-64.

- **Circulation**

COLLADOS (G.S.), 2004: Organización de circulaciones en zoológicos. [*Organization of circulation in zoos.*] Paper presented at the Ann. Meeting of the Mexican Zoo Association in Morelia, Michoacan, Mexico. <http://www.zoolex.org/publication/collados/circulaciones.pdf>

COLLADOS (G.), YANEZ (L.) & HARRISON (B.), 2005: Visitor circulation in zoos. Paper presented at the 2nd Joint Conf. of SEAZA and ARAZPA, 1-5 May 2005, Melbourne, Australia. <http://www.zoolex.org/publication/collados/circulation.pdf>

DAVEY (G.) & HENZI (P.), 2004: Visitor circulation and animal welfare: an overlooked variable? J. Appl. Animal Welfare Sci. 7(4): 243-51.

FRANCIS (D.), ESSON (M.) & MOSS (A.), 2007: Following visitors and what it tells us. The use of visitor tracking to evaluate “Spirit of the Jaguar” at Chester Zoo. IZE J. 43: 20-24.

MOSS (A.), FRANCIS (D.) & ESSON (M.), 2007: The measurement of visitor density and its effect on visitor behaviour in zoo exhibits. BIAZA Research News 8(3): 2-3.

SHETTEL-NEUBER (J.) & O'REILLY (J.), 1987: “Now where ?” A study of visitor orientation and circulation at the Arizona Sonora Desert Museum. Techn. Reports, no. 87-25. Jacksonville, Ctr for Social Design.

ON-GOING OR UNPUBLISHED STUDIES :

ILLEDITS (A.) & MASLO (M.), 2006: The movements of Homo sapiens in the zoo. Nr. 202. Wien, Tiergarten Schönbrunn. Contact Claudia Kment, ckment@zoovienna.at

PUGH (C.), 1991: Summary report of findings: visitor orientation and preparation. Memorandum. Chicago, Brookfield Zoo.

BACKGROUND & FURTHER READING: CIRCULATION

BITGOOD (S.), 1995: Visitor circulation: is there really a right-turn bias ? Visitor Behav. 4(3): 16.

FALK (J.H.), 1993: Assessing the impact of exhibit arrangement on visitor behavior and learning. Curator 36(2): 133-46.

GRIGGS (S.), 1983: Orienting visitors within a thematic display. Int'l J. Museum Mgmt & Curatorship, 2: 119-34.

HARVEY (M.L.), MARINO (M.) & LOOMIS (R.J.), 1997: Design features which encourage psychological flow in museum visitors. In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers, 1996 Visitor Studies Conf.. Jacksonville, VSA. 129-39.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4g2-a_5730.pdf

HAYWARD (G.), BRYDON-MILLER (M.), 1984: Spatial and conceptual aspects of orientation: visitor experiences at an outdoor history museum. J. Env. Systems 13(4): 317-32

KLEIN (H.-J.), 1993: Tracking visitor circulation in museum settings. Env. & Behav. 25: 782-800.

SADALLA (E.K.) & MONTELLO (D.R.), 1989: Remembering changes in direction. Env. & Behav. 21(3)

SHACKLETT (A.), 2004: Circulation design to enhance the visitor experience. Public Garden 19(4):

- **Timing, visitor agendas**

DAVEY (G.), 2006a: An hourly variation in zoo visitor behavior: measurement and significance for animal welfare. *J. Appl. Animal Welfare Sci.* 9(3): 249-56.

HARRIS (L.), 1995: Recreation in a zoo environment: applying animal behavior research techniques to understand how visitors allocate time. *Legacy* 6(2): 14-18.

SHURGART (M.J.), 1980: The effect of use of visitor facilities in zoos on duration and intensity of zoo visits. *AAZPA Reg. Workshop Proc.*: 262-69.

BACKGROUND & FURTHER READING : TIMING, VISITOR AGENDAS

BITGOOD (S.), 2009: When is “museum fatigue” not fatigue? *Curator* 52: 193-202.

BITGOOD (S.), 2009: Museum fatigue: a critical review. *Visitor Studies* 12(2): 93-111.

BRISEÑO-GARZÓN (A.), ANDERSON (D.) & ANDERSON (A.), 2007: Entry and emergent agendas of adults visiting an aquarium in family groups. *Visitor Studies* 10(1): 73-89.

BUHYOFF (G.J.), 1979: A methodological note on the reliability of observationally gathered time-spent data. *J. Leisure Res.* 11(4): 334-42.

DAVEY (G.), 2005: What is museum fatigue ? *Visitor Studies Today* 8(3): 17-21.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5y5-a_5730.pdf

FALK (J.H.), 1983: The use of time as a measure of visitor behavior and exhibit effectiveness. *J. Museum Educ.* – Roundtable Reports 7(4): 10-13.

GILMAN (B.I.), 1916: Museum fatigue. *Scientific Monthly* 12: 67-74.

HAESELER (J.K.), 1990: Length of visitor stay. In: BITGOOD (S.) et al (eds.): *Visitor studies – 1989: Theory, research, and practice*. Vol. 2. Proc. 1989 Visitor Studies Conf., Dearborn, MI. Jacksonville. 252-59.

JOHNSTON (R.), 1998: Exogenous factors and visitor behaviour: a regression analysis of exhibit viewing time. *Env. & Behav.* 30(3): 322-47.

LITWAK (J.M.), 1996: Another measurement tool for exhibit evaluators: the time/activity matrix. In: LANKFORD JENS (S.) & BITGOOD (S.) (eds.): *Visitor studies: Theory, research, and practice*. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf.. Jacksonville, VSA.

SERRELL (B.), 1995: The 51% solution research project: a meta-analysis of visitor time/use in museum exhibitions. *Visitor Behav.* 10(3): 6-9.

SERRELL (B.), 2000: Does cueing visitors significantly increase the time they spend at a museum exhibition? *Visitor Studies Today* 3(2): 3-6.

SERRELL (B.) & SULSTON (I.), 2001: In search of the illusive bimodal distribution. *Visitor Studies Today!* 4(2): 4-9. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6s3-a_5730.pdf

- **Wayfinding and orientation**

BITGOOD (S.) & RICHARDSON (K.), 1986: Wayfinding at the Birmingham Zoo. *Visitor Behav.* 1(4)

BITGOOD (S.), BENEFIELD (A.), PATTERSON (D.) & LITWAK (H.), 1991: Influencing visitor attention: the effects of life-size animal silhouettes on visitor behavior. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: *Visitor studies: Theory, research, and practice*. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 221-30.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5x2-a_5730.pdf

FRASER (J.), BICKNELL (J.) & SICKLER (J.), 2005: Understanding graphic maps at the Bronx Zoo. *Visitor Studies Today!* 8(3): 22-27.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5y6-a_5730.pdf

SERRELL (B.) & JENNINGS (H.), 1985: We are here: Three years of wayfinding studies at Brookfield Zoo. *AAZPA Ann. Conf. Proc.*: 577-85.

ON-GOING OR UNPUBLISHED STUDIES :

BIRJULIN (A.A.), GIESEKE (T.J.), JENNINGS (H.) & SAUNDERS (C.D.), 1999: North is up? Examining the effectiveness of maps at Brookfield Zoo. 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL.

Abstract: <http://www.visitorstudiesarchives.org>

BACKGROUND & FURTHER READING: WAYFINDING AND ORIENTATION

ARTHUR (P.) & PASSINI (R.), 1992: Wayfinding. New York, McGraw Hill.

BITGOOD (S.), 2002: The psychology of visitor orientation and circulation. VSA Ann. Conf. 2002, Cody, WY.
Abstract: <http://www.visitorstudiesarchives.org>

BITGOOD (S.), 2006: An analysis of visitor circulation: movement patterns and the general value principle. *Curator* 49: 463-75.

BITGOOD (S.), 2003: Visitor orientation: when are museums similar to casinos? *Visitor Studies Today!* 6(1): 10-13.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6d2-a_5730.pdf

BITGOOD (S.J.) & LANKFORD (S.), 1995: Museum orientation and circulation. *Visitor Behav.* 10(2): 4-6.

BITGOOD (S.) & TISDAL (C.), 1996: Lobby orientation and visitor satisfaction. *Visitor Behav.* 10(3): 13-16.

BLADES (M.) & SPENCER (C.), 1987: Young children's strategies when using maps with landmarks. *J. Env. Psych.* 7: 201-17.

BREMER (D.N.), 1999: It's good for you ! *Visitor Studies Today!* 2(1): 9-10.

CALLANAN (M.), JIPSON (J.) & SOENNICHSEN (M.), 2002: Maps, globes and videos: parent-child conversations about representational objects. In: PARIS (S.) (ed.): *Perspectives on object-centered learning in museums*. Mahwah, Erlbaum: 261-83.

COHEN (M.S.), WINDEL (G.H.), OLSEN (R.) & WHEELER (F.), 1977: Orientation in a museum – an experimental visitor study. *Curator* 20: 85-97.

DOWNS (R.M.) & STEA (D.), 1977: *Maps in minds*. New York, Harper & Row.

ELLARD (C.), 2009: You are here – why we can find our way to the Moon, but get lost in the mall. What science says about our spatial intelligence and how it shapes our connections to nature, cities, homes and virtual worlds. New York, Doubleday. 336 pp.

FÖRSTER (E.), 2003: Karten und Kartematerialien. [Maps and cartographic materials.] In: WOHLERS (L.) (Hrsg.): Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit. Band 13. [Methods of informal environmental education. Environmental education, environmental communication and sustainability. Volume 13.] Frankfurt, Peter Lang: 131-42.

HINES (J.), 1996: Wayfinding. In: LANKFORD JENS (S.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf.. Jacksonville, VSA. 112-15.

LEVINE (M.), 1982: You-are-here-maps: psychological considerations. Env. & Behav. 14(2): 221-237.

LEVINE (M.), MARCHON (I.) & HANLEY (G.), 1984: The placement and misplacement of you-are-here maps. Env. & Behav. 16(2):

LITWAK (H.), 1987: Which way is the polar bear? Planning site signage programs. AAZPA Ann. Conf. Proc. 1987:

MARKS (B.S.), 1979: The language of signs. In: POLLET (D.) & HASSELL (P.C.) (eds.): Sign systems for libraries. Solving the wayfinding problem. New York/London, Bowker: 89-97.

MARY (S.), BENBOW (P.) & HALLMAN (B.C.), 2008: Reading the zoo map: cultural heritage insights from popular cartography. Int'l J. Heritage Studies 14(1): 30-42.

Abstract: <http://www.informaworld.com/smp/content~content=a787691090~db=all~order=page>

MATSON KNAPP (P.), 2009: New dimensions. A National Park Service study confirms that 3D maps benefit most novice users. segdDESIGN 23: 66-74. <http://www.nxtbook.com/ygsreprints/ygs/SEGDMag/#/70>

MONMONIER (M.), 1991: How to lie with maps. Chicago, Univ. of Chicago Press.

O'BRIEN (D.), 1999: How to build a better visitor map: the 5 A's and 10 C's. Visitor Studies Today! 2(1): 7-8. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6z0-a_5730.pdf

OLSON (J.M.) & BREWER (C.A.), 1997: An evaluation of color selections to accommodate map users with color-vision impairments. Annals Assn. American Geographers 87(1): 103-32.

TALBOT (J.F.), KAPLAN (R.), KUO (F.E.) & KAPLAN (S.), 1993: Factors that enhance effectiveness of visitor maps. Env. & Behav. 25(6): 743-60.

WESTOVER (T.N.), 1989: Perceived crowding in recreational settings. An environment-behavior model. Env. & Behav., 21(3):

YOSHIOKA (J.G.), 1942: A direction-orientation study with visitors at the New York World's Fair. J. Gen. Psych. 27: 3-33.

18. TEXT, LABELS AND READABILITY RESEARCH

• Text, labels and readability research in zoos and aquariums

BASHAW (M.J.) & MAPLE (T.L.), 2001: Signs fail to increase zoo visitors' ability to see tigers. Curator 44: 297-304.

Abstract: <http://onlinelibrary.wiley.com/doi/10.1111/j.2151-6952.2001.tb01167.x/abstract>

BITGOOD (S.), 1987: Knowing when exhibit labels work: A standardized guide for evaluating and improving labels. AAZPA Ann. Conf. Proc., 1987.

DUFOUR (D.) & BARON (J.-P.), 1992: Méthodes d'évaluation des panneaux pédagogiques et de leur impact. [Methods for evaluating interpretive signs and their impact.] In: PedagoZoo. Compte-rendu du colloque international sur la pédagogie et l'éducation en établissement zoologique, les 5 et 6 novembre 1992. [Proc. of the int'l symp. on educ. in zool. establishments, 5-6 Nov. 1992.] Lille, SNDPZ: 203-17.

HAWKINS (M.), 1993: Looking at people looking at graphics. IZE J. 29: 19-29.

MAYER (I.) & SLOTTA-BACHMAYR (L.), 2005: Informationsvermittlung im Zoo – Wie effizient ist die Gehegebeschilderung? [Interpretation at the zoo – how efficient is the enclosure labelling system?] Der Zool. Garten 75(4): 253-65.

NOONAN (B.), 1981: Assessing the merits of contemporary zoo graphics. Int. Zoo Yb. 21: 6-10.

SERRELL (B.), 1983: It's pragmatic, it's empirical, it's a prototype. Newsletter IZE 10: 15.

SERRELL (B.), BRENNAN (T.), PLISKIN (J.) & RABB (G.), 1980: Workshop: Current thinking on sign and label research. AAZPA Ann. Conf. Proc. 1980: 111-26.

ZAREMBA (S.B.), TOEDTER (L.J.) & FASSL (K.), 1993: The effects of sign characteristics on Visitor Behav.. IZE J. 27: 25-30.

ON-GOING OR UNPUBLISHED STUDIES :

BRUNSCHWYLER (G.), 1992: Zoo and aquarium ID label study. Unpublished study. Washington DC, Nat'l Zool. Park.

COX (D.), 1999: Interpretation at Twycross Zoo – thirty years of zoo graphics. In: ANDERSEN (L.L.): Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 67-68.

KRUMM (S.), 1982: Beobachtung und Befragung von Zoobesuchern über die Nutzung der angebotenen Bildungshilfen. [Observation and survey of zoo visitors on the use of the education aids provided.] Wissenschaftliche Hausarbeit für das Lehramt an Grund-, Haupt- und Realschulen. Gießen.

MCCALLUM (E.), 2002: Zoo signs and their impact on visitor education in Blackpool Zoo. Glasgow, Univ. of Glasgow.

MILLAR (S.) & GORE (J.), 1997: Do they actually read it? Winchester, Marwell Zoo.

STAAL (M.), 1998: Wat een bord vol, wie wordt er nog wijs uit? Richtlijnen voor kindvriendelijke informatieborden. [Books on walls, who is learning from it? Guidelines for child-friendly information signs.] Afstudeeronderzoek diermanagement – profiel Beleid & Voorlichting. Leeuwarden, Van Hall Inst.. 84 pp.

BACKGROUND & FURTHER READING: TEXT, LABELS AND READABILITY RESEARCH

BAKER (W.K.), 1998: How important are the graphics and signage to the safety of a zoological institution? Animal Keepers' Forum 25(7): 266-67.

BALLANTYNE (R.) & HUGHES (K.), 2003: Measure twice, cut once: developing a research-based interpretive signs checklist. Australian J. Env. Educ. 19: 15-25.

BALLANTYNE (R.), HUGHES (K.) & MOSCARDO (G.), 2002: Interpretive signs: principles and practices. Brisbane, Queensland Univ. of Technology. www.talm.uq.edu.au/signage/

BITGOOD (S.) (ed.), 1986: Special issue: Labels, signs, & graphics. Visitor Behav. 1(3)

BITGOOD (S.), 1988: The effects of sign length, letter size, and proximity on reading. Visitor Studies Conf. Proc. Jacksonville, Ctr for Social Design.

BITGOOD (S.), 1991 (ed.): Special issue: Exhibit labeling. Visitor Behav. 4(3)

BITGOOD (S.), 1991a: The ABCs of label design. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 95-109. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5w2-a_5730.pdf

BITGOOD (S.), 1996: Considerations in the design and development of exhibit labels. Visitor Behav. 11(4):

BITGOOD (S.C.), FINLAY (T.) & WOEHR (D.), 1986: Design and evaluation of exhibit labels. Techn. Report no. 87-40c. Jacksonville, Ctr for Social Design.

BITGOOD (S.), NICHOLS (G.), PIERCE (M.), CONROY (P.) & PATTERSON (D.), 1986: Effect of label characteristics on visitor behavior. Ctr for Social Design Techn. Report no. 86-55. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

BLASZKIEWITZ (B.), 2002: Erneut: Zum Thema Beschilderung. [Again, the topic of signage.] Bongo 32: 25-28.

BLASZKIEWITZ (B.), 2010: Nette Nebensächlichkeiten aus tschechischen und ungarischen Zoos. [Nice inessentials from Czech and Hungarian zoos.] Bongo 40: 121-28.

BRAMLEY (F.), 1992: Our mission is the message: will visitors take time to understand? AAZPA 1992 Reg. Proc.: 103-06.

COSTERS (N.) & VAN DE CRAEN (P.), 2001: Het schrijvende en beschrijvende museum. Zaalteksten, muurteksten, kernteksten of beeld zonder tekst. Onderzoeksproject in opdracht van de Vlaamse Gemeenschap. [The writing and descriptive museum. Hall labels, wall labels, core copy or image without text. Research project for the Flemish Community.] Brussel, Min. Vlaamse Gemeenschap, 88 pp.

COTA (A.) & BITGOOD (S.), 1993: Recall of label content: the effects of length and sequence. Visitor Behav. 8(4): 12-13.

EKARV (M.), 1994: Combatting redundancy: writing texts for exhibitions. In: HOOPER-GREENHILL (E.) (ed.): The educational role of the museum. London, Routledge:

FALK (J.H.), 1997: Testing a museum exhibition design assumption: effect of explicit labeling of exhibit clusters on visitor concept development. Sci. Educ. 81(6): 679-88.

FRÄDRICH (H.), 1987: Zum Thema Beschilderung. [On zoo labels/graphics.] Bongo 12: 67-72.

- GERRITSEN (A.), 2008: Who needs a species label? IZE J. 44: 40-43.
- HUGHES (M.) & MORRISON-SAUNDERS (A.), 2002: Impact of trail-side interpretive signs on visitor knowledge. J. of Ecotourism 1(2/3): 122-32.
- JENNINGS (H.), 1985: Sign language. Brookfield Zoo Bison, Spring 1985: 8-11.
- JONGEJANS (C.), JONGBLOED (F.) & ELBERS (M.), 1988: Om een lang verhaal kort te maken. Schrijven en vormgeving van teksten voor het museum. [To make a long story short. Writing and designing copy for the museum.] Veenendaal, Gaade. 96 pp.
- KAISER (R.), MÜLLER (U.) & HASSELMANN (M.), 2009: Bilderstürmer, Textmarker & Co – Neue Wege der Beckenbeschilderung im Zoo-Aquarium Berlin. [Iconoclasts, text highlighters & Co – new pathways in tank signage at Berlin Zoo-Aquarium.] Bongo 39: 51-56.
- KANEL (V.) & TAMIR (P.), 1991: Different labels – different learnings. Curator 34(1): 18-30.
- KAVANAGH (G.) (ed.), 1996: Museum languages, objects and texts. 2nd edn. London, Routledge.
- KAYE (G.), 1994: Why Johnny won't read labels. Visitor Studies 4: 20-23.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4m6-a_5730.pdf
- KELLY (L.): 2000: Writing text and labels: A review of the literature. Australian Museum Audience Research Centre. 7 pp. www.amonline.net.au
- LEWIN (R.), 1975: Labelling. Museum 27(4): 90-91.
- MCAULEY (S.), 1993: Graphic grabbers. Reducing to increase. IZE Newsletter 29: 15-
- MCINTOSH (P.A.), 1982: Signs and labels. In: SHARPE (G.W.) (ed.): Interpreting the environment. New York, Wiley & Sons.
- MCMANUS (P.), 1990: Watch your language! People do read labels. ILVS Review: J. Visitor Behav. 1(2): 125-27. Also in: MCCORMICK (S.) (ed.): What research says about learning in science museums. Washington DC, ASTC: 4-6.
- MILLAR (S.), 1997: Do they actually read it? In: HIRSCH (S.) & OBERAUER (E.) (eds.): The flow of information in situ and ex situ. EZE conf. proc. 1997: 54-59.
- MOSCARDO (G.), BALLANTYNE (R.) & HUGHES (K.), 2007: Designing interpretive signs. Principles in practice. Appl. Communication Series. Golden, Fulcrum. 140 pp.
- O'CONNOR (T.), 2010: Trends in zoo and aquarium exhibit interpretation. Newport, Oregon Coast Aquarium/Terry O'Connor Consulting. 26 pp.
<http://www.izea.net/education/Trends%20in%20Zoo%20and%20Aquarium%20Exhibit%20Interpretation.pdf>
- PARTRIDGE (J.), 1995: Our teaching role. Int. Zoo News 42(2): 94-98.
- PETERS (C.), 1993: Education and educational graphics at Rotterdam Zoo. IZE Newsletter 29:9-
- POST (M.), 2006: It's time for a professional approach to exhibit label design!
http://www.zoolex.org/publication/m_post/professional_approach.html
- RABB (G.), 1975: Signs – essential link to the public. AAZPA Ann. Conf. Proc. 1975: 140-43.
- REDMOND-JONES (B.) & WHITNEY (K.), 1999: Layered labels: do they work? 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL. Abstract: <http://www.visitorstudiesarchives.org>
- ROBEYNS (G.) & SCHRAM (H.), 1986: Tekst en uitleg. Over edukatieve bebording in dierentuinen en natuurgebieden. [Chapter and verse. On educational signage in zoos and wildlife areas.] CVN-krant.

- RUDIN (E.B.), 1978: A sign for all seasons: from writer's clipboard to zoo exhibit. IZE Newsletter 5: 8-14.
- SCHIEDGES (I.), 1992: "Zoo-Mobile" – Pilotprojekt zur Besucherpädagogik. Erste Eindrücke und Erfahrungen. ["Zoo-Mobiles" – Pilot project for visitor education. First impressions and experiences.] Zs. Kölner Zoo 35(1): 29-31.
- SCREVEN (C.G.), 1992: Motivating visitors to read labels. ILVS Review: J. Visitor Behav. 2(2): 183-11.
- SEILER (S.), 1997: Design und Kommunikation im Zoo. [Design and communication at the zoo.] In: HIRSCH (S.) & OBERAUER (E.) (eds.): The flow of information in situ and ex situ. EZE conf. proc. 1997: 8-11.
- SERRELL (B.), 1980: Signs that "speak": learning more about label language. Brookfield Bison, Aug/Sep 1980: C1-C8
- SERRELL (B.), 1996: Exhibit labels: an interpretative approach. Walnut Creek/London, AltaMira. 262 pp.
- TUDGE (C.), 1991: A new philosophy of zoo labeling. Int. Zoo News 230: 5-11.
- VAN DEN BRINK (J.), 1981: The role of labels in the zoo. Int. Zoo Yb. 21: 61-63.
- VAN DER HEIJDEN (P.), 1988: Van concept-tekst tot definitieve tekst. Gedachten over de ergonomie van tekst in het museum. [From concept to final copy. Thoughts on the ergonomics of text in the museum.] Museumvisie 2: 55-5.
- WEINER (G.), 1963: Why Johnny can't read labels. Curator 6: 2.
- WEISER (M.), 2002: Schilder. [Signs.] In: GANSLOËR (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 137-144.
- WILLINK (J.), 1988: De tekst op zijn retour? [Text beyond its prime?] Museumvisie 2: 53-55.

- **Absense of labels**

LARSEN (J.), 2002: To label or not – visitors win. New life for an immersion exhibit. Visitor Studies Today! 5(2): 11, 14-16.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6f1-a_5730.pdf

BACKGROUND & FURTHER READING: ABSENCE OF LABELS

BORUN (M.) & MILLER (M.), 1980b: To label or not to label. Museum News 1980(3/4): 10-15.

GERRITSEN (A.), 2008: Who needs a species label? Rotterdam Zoo. IZE J. 44:

VAN HERK (R.), 2006: A zoo without signs. EAZA News 54: 11.

BACKGROUND & FURTHER READING: ATTENTION TO LABELS

BITGOOD (S.) & SERRELL (B.), 2000: The role of attention in designing effective interpretive labels. J. Interpretive Res. 5(2): 31-45.

GLYNN (S.), 1978: Capturing readers attention by means of typographical cueing strategies. Educ. Technology 1: 7-12.

BACKGROUND & FURTHER READING : BI- AND MULTILINGUAL LABELS

BAXTER (L.), 1996: Multilingual signs – the future? Identity Sep-Oct 1996 :

OWENS RENNER (N.), 2003a: The bilingual dilemma: should we or shouldn't we? Exhibitionist 22(1) :

OWENS RENNER (N.), 2003b: Taking the bilingual leap. Exhibitionist 22(2): www.experienceology.com

• Content of labels

ANGULO (E.), DEVES (A.-L.), SAINT JALMES (M.) & COURCHAMP (F.), 2009: Fatal attraction: rare species in the spotlight. Proc. Royal Soc. 276(1660): 1331-37.

<http://rspb.royalsocietypublishing.org/content/276/1660/1331.abstract>

FRASER (J.), BICKNELL (J.), SICKLER (J.) & TAYLOR (A.), 2009: What information do zoo & aquarium visitors want on animal identification labels? J. Interpretation Res. 14(2): 7-19.
<http://www.thefreelibrary.com/What+information+do+zoo+%26+aquarium+visitors+want+on+animal...-a0219824500>

MCINTOSH (L.), 1996: When is a label not a label ? Labeling animal life as it happens. In: BITGOOD (S.C.), 1996: Visitor Studies: Theory, Research, and Practice. Selected papers, 1994 Visitor Studies Conf.. Vol. 7, Issue 1. Jacksonville, VSA: 41-47.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4k5-a_5730.pdf

BACKGROUND & FURTHER READING: CONTENT OF LABELS

BERELSON (B.), 1971: Content analysis in communication research. New York, Hafner.

BUDD (R.W.), 1967: Content analysis of communications. New York,

FALK (J.), 1997: Testing a museum exhibition design assumption: effect of explicit labeling of exhibit clusters on visitor concept development. Sc. Educ. 81: 679-87.

LEWIS (W.J.), 1983: Identifying a theme. The Interpreter 14(1): i.

O'CONNOR (T.), 2010: Trends in zoo and aquarium exhibit interpretation. Newport, Oregon Coast Aquarium/Terry O'Connor Consulting. 26 pp.

<http://www.izea.net/education/Trends%20in%20Zoo%20and%20Aquarium%20Exhibit%20Interpretation.pdf>

PERRET (M.), 2004: Réglementation: contenu minimum des informations zoologiques à transmettre. [Legislation: minimum content of zoological interpretation.] ZooCom, Zoodysée Chizé, Oct. 2004.

RANDLER (C.) & BOGNER (F.), 2002: Comparing methods of instruction using bird species identification skills as indicators. J. Biol. Educ. 36: 181-88.

VEVERKA (J.A.), s.d.: Guidelines for interpreting critical issues.

http://portal.uni-freiburg.de/interpreteurope/service/publications/recommended-publications/veverka-interpreting_critical_issues.pdf

ZIOBER (A.) & BUGAJNA (B.), 1999: The children label as the easiest contact way with young receivers in the basic information about animals. ANDERSEN (L.L.) et al, 1999: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 25-29.

- **Graphics**

ON-GOING OR UNPUBLISHED STUDIES:

GIRAUT (Y.), 1989: Contribution à l'étude de la bande dessinée comme outil de vulgarisation scientifique. [Contribution to the study of comics as a tool of scientific vulgarization.] PhD diss.. Paris, Univ. de Paris.

BACKGROUND & FURTHER READING: GRAPHICS

CAHILL (M.-C.), 1975: Interpretability of graphic symbols as a function of context and experience factors. *J. Appl. Psych.* 60(3): 376-80.

NASH (S.D.), 2009: Some thoughts and reflections on the use of illustration in biodiversity education campaigns. *J. of Threatened Taxa* 1(2): 119-125.

http://www.threatenedtaxa.org/ZooPrintJ./2009/February/1914_Stephen.htm

ROBBINS (N.), 2000: Recognizing deceptive and misleading graphics. VSA Conf. 2000, Boston.

Abstract: <http://www.visitorstudiesarchives.org>

SERRELL (B.), 1988: The evolution of educational graphics in zoos. *Env. & Behav.* 20(4): 577-85.

THOMPSON (P.), 1977: Do you see what I mean? *Design* 347: 33-39.

TUFTE (E.R.), 1983: The visual display of quantitative information. Cheshire, Graphics Press.

WURMAN (R.S.) & KATZ (J.), 1975: Beyond graphics: the architecture of information. *AIA J.* 63: 40-56.

- **Institutional overviews**

ARNDT (M.A.), SCREVEN (C.), BENUSA (D.) & BISHOP (T.), 1994: Behavior and learning in a zoo environment under different signage conditions. *Visitor Studies* 5(1): 245-53.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4w4-a_5730.pdf

DUTTA (T.), 2005: Visitor profile at Peshwe Zoo, Maharashtra. *Zoos' Print* 20(8): 13.
<http://www.docstoc.com/docs/20484104/Visitor-profile-at-Peshwe-Zoo-Maharashtra>

FRERKING (D.), 1982: Observations of non-technical nomenclature and information as demonstrated by *Homo sapiens* ssp. *zoo visitori*. *Kansas City Zoo News*, Summer 1982: 16.

GIBB (L.), 1985: Blue and white and read all over? *Royal Zool. Soc. Scotland Ann. Report* 1985: 39-45.

RAND (J.), 1985: Fish stories that hook readers: interpretive graphics at the Monterey Bay Aquarium. *AAZPA 1985 Annual Proc.*: 404-13.

SERRELL (B.), 1981: Zoo label study at Brookfield Zoo. *Int. Zoo Yb.* 21: 54-61.

ON-GOING OR UNPUBLISHED STUDIES :

CHAMBERS (M.B.), 1984: Identification and display signs at the Philadelphia Zoological Garden. Unpublished. Philadelphia, Philadelphia Zoo.

DEN OUDEN (M.), 1997: Educatie in Vogelpark Avifauna. Onderzoek naar de waarde en het effect van de informatieborden en informatiezuilen. [Education at Avifauna Bird Park. Investigation into the value and effect of the information signs and information stands.] Alphen aan den Rijn, Vogelpark Avifauna.

FURTADO (S.), 2008: Comparing the attraction power of information panels in Lisbon Zoo's Tiger Valley and Temple of the Apes. Lisboa, Zoo Lisboa. Contact Antonieta Costa, acosta@zoolisboa.pt

GILLESPIE (K.L.), O'DONNELL (C.R.), ROSS (S.R.) & THOMPSON (S.D.), 2007: Evaluating conservation and science signage on Lincoln Park Zoo grounds. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 12.

LEE (A.T.), 1976: A report on educational graphics and reading behavior. San Diego, San Diego Zoo. Unpublished.

OLDS (J.), 2000: Assessing label prototypes in an African Mammal Hall. 12th ann. VSA conf., Aug. 5-9, 2000, Boston/Cambridge. Abstract: <http://www.visitorstudiesarchives.org>

SERRELL (B), 1979: Zoo labels: an evaluation study. Brookfield, Brookfield Zoo.

TAYLOR (L.), 1981: An evaluation of two types of display labels at the Waikiki Aquarium using marketing survey techniques. Term project, Mar. 1981. Honolulu, Chaminade Univ. of Honolulu.

VERVAECKE (H.), 2009: Bezoekersstudies en het TETRA-project. 3de CRC Zoo Research Symp.. Duurzaam populatiebeheer: recente ontwikkelingen. KMDA, 20 nov. 2009, Antwerpen, België. [Visitor studies and the TETRA project. 3rd CRC Zoo Research Symp.. Sustainable population management: recent developments. RZSA, 20 Nov. 2009, Antwerp, Belgium.]

VERVAECKE (H.), ROMEYN (A.), STEVENS (J.) & LIPS (D.), 2008: Visitor studies. CRC-Symp., Zoo Antwerpen, 5 dec. 2008.

BACKGROUND & FURTHER READING: LABELING INTERACTIVE EXHIBITS

ADAMS (K.A.) & BORUN (M.), 1992: From hands on to minds on: Labeling interactive exhibits. Visitor Studies 4(1): 115-120. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5b3-a_5730.pdf

DAMALA (A.), COTARMANAC'H (A.) & BOUVILLE (C.), 2006: Evaluation strategies for mobile museum guides: a theoretical framework. 3rd Int'l Conf. on Museology and ICOM-AVICOM Ann. Conf., Univ. of the Aegean, Mytilene: 43. <http://www.aegean.gr/culturaltec/museum/2006/Abstracts.pdf>

DEGREGORIA (L.-A.), 1999: The effects of the presence and absence of exhibit labels on visitor interactions at a computer-based interactive science exhibit. 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL.
Abstract: <http://www.visitorstudiesarchives.org>

FALK (J.) & DIERKING (L.), 2008: Enhancing visitor interaction and learning with mobile technologies. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 19-33.

FLECK (M.), FRID (M.), KINDBERG (T.), O'BRIEN-STRAIN (E.), RASHI RAJANI (R.) & SPASOJEVIC (M.), 2002: From informing to remembering. Ubiquitous systems in interactive museums. Pervasive Computing 1(2): 13-21. <http://www.hpl.hp.co/research/papers/2002/ubiquitous.html>

FILIPPINI-FANTONI (S.), 2003: Personalisation through IT in museums: does it really work? Proc. ICHIM 2003. <http://www.archimuse.com/publishing/ichim03/070C.pdf>

GAMMON (B.), 1999: Visitors' use of computer exhibits: findings from 5 grueling years of watching visitors getting it wrong. Informal Learning Review 38. <http://www.informallearning.com/archive/1999-0910-a.htm>

GLANCY (M.), 1996: Words are important – writing for interactive exhibits. British Interactive Group Newsletter, Spring 1996. www.big.uk.com/newsletter/96_spr/labels.htm

- GREENLEE-MOORE (M.E.) & SMITH (L.L.), 1996: Interactive computer software. The effects on young children's reading achievement. *Reading Psych.* 17: 43-64.
- GUTWILL (J.), 2006: Labels for open-ended exhibits: using questions and suggestions to motivate physical activity. *Visitor Studies* 1(1): 1, 4-9.
- KAPTELININ (V.) & NARDI (B.), 2006: Acting with technology: activity, theory and interaction design. Boston, MIT Press.
- KORN (R.), 1987: Motivating visitors with interactive labels. *J. Museum Educ.* 12(1): 15-16.
- KORN (R.) & VANDIVER (R.), 1988: Interactive labels: a design solution. *ILVS Review: J. Visitor Behav.* 1(1): 108-09.
- MAIR (V.), 2007: A practical guide to using AV/ICT interactives: summative evaluation at Kelvingrove Art Gallery and Museum. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 14.
- NANDI (A.B.), COBUT (G.), PIZZEY (S.), VELK (P.) & TOPALIAN (R.), 2005: Interactivity: myths & realities. Programme abstract. ECSITE Ann. Conf. 2005, Heureka, The Finnish Science Centre, 10-12 June, Vantaa, Finland. Vantaa/Brussels, Heureka/ECSITE: 7.
- NOSCHKA-ROOS (A.), HAUSER (W.) & SCHEPERS (E.) (Hrsg.), 2005: Mit neuen Medien im Dialog mit den Besuchern? [Using new media towards a dialogue with the visitors?] Berliner Schriften zur Museumskunde. Berlin, G+H Verlag.
- VAN MENSCH (P.), 1985: Is tien minuten ideaal ? Onderzoeken naar de effectiviteit van het gebruik. [Is ten minutes ideal? Investigation into the effectiveness of use.] *Museumvisie* 9(2): 42-43.

- **Language and style**

BRAMLEY (F.), 1993: Laugh a little, learn a lot: making your message stick! Visitor Studies 5(1): 99-104. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4t9-a_5730.pdf

LOUCH (J.), PRICE (E.), ESSON (M.) & FEISTNER (A.), 1999: The effects of sign styles on Visitor Behav. at the Orangutan Enclosure at Jersey Zoo. Dodo 35: 134-50.

MILLIS (K.), 2001: Making meaning brings pleasure: the influence of titles on aesthetic experiences. Emotion 1: 320-29.

WATTS (G.H.) & ANDERSON (R.C.), 1971: Effects of three types of inserted questions on learning from prose. J. Educ. Psych. 66: 40-48.

ON-GOING OR UNPUBLISHED STUDIES :

CLIPMAN (J.-M.), 2000: Using questions as titles on exhibit labels. 12th ann. VSA conf., Aug. 5-9, 2000, Boston/Cambridge. Abstract: <http://www.visitorstudiesarchives.org>

LITWAK (J.M.), 2000: Using questions as titles on exhibit labels. VSA Conf. 2000, Boston.

PLISKIN (J.), s.d.: The effects of copy format on reading behavior and learning. Oklahoma, Oklahoma City Zoo. Unpublished.

BACKGROUND & FURTHER READING: LANGUAGE AND STYLE

ASH (D.), 2004ASH (D.), 2004: How families use questions at dioramas: ideas for exhibit design. Curator 47: 84-100.

COXALL (H.), 1991: How language means: an alternative view of museum text. In: KAVANAGH (G.) (ed.): Museum languages: objects and texts. 2nd edn. Leicester, Leicester UP:

FLESCH (R.), 1946: The art of plain talk. New York, Harper & Brothers.

FLESCH (R.), 1949: The art of readable writing. New York, Harper & Row.

FRUITMAN (M.) & DUBRO (L.), 1979: Writing effective labels. Museum News, Jan/Feb 1979:

HARTLEY (L.) & TRUEMAN (M.), 1983: The effects of headings in text on recall, search and retrieval. British J. Educ. Psych. 53(2): 205-14.

HEINTZMAN (J.), 1988: A guide for nature writers. Univ. of Wisconsin.

HIRSCHI (K.D.) & SCREVEN (C.G.), 1988: Effects of questions on visitor reading behavior. ILVS Review. J. Visitor Behav. 1(1): 50-61.

HOEKEN (H.) & POULSEN (A.), 1991: Aantrekkelijk taalgebruik in voorlichtingsteksten: het effect op waardering, begrip en beïnvloeding. [Appealing language styles in information copy: the effect on appreciation, comprehension and influence.] Ts. taalbeheersing 3.

LITWAK (J.M.), 1996: Visitors learn more from labels that ask questions. Current Trends Audience Res. & Evaluation 10: 40-51.

LYNCH (B.) & CHAPMAN (C.), 1980: Writing for communication in science and medicine. New York, Van Nostrand Reinhold.

PRINCE (J.H.), 1958: Criteria for word formation for maximum legibility. *Signs of the Times* 148 : 42.

RAND (J.), 1986: Anatomy of a fish tale. How to write better labels for your aquarium or zoo. AAZPA 1986 Reg. Proc.: 268-77.

RAVELLI (L.J.), 2006: Museum texts: communication frameworks. London, Routledge. 182 pp.

SCHWARTZ (A.E.), 1993: The well-written label. Washington DC Post, 15 June 1993.

WOHLERS (L.), 2003: Texte. [Texts/copy.] In: WOHLERS (L.) (Hrsg.): Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit. Band 13. [*Methods of informal environmental education. Environmental education, environmental communication and sustainability. Volume 13.*] Frankfurt, Peter Lang: 85-98.

BACKGROUND & FURTHER READING: MUSEUM AND EXHIBITION LABELS

BITGOOD (S.), NICHOLS (G.), PIERCE (M.) & PATTERSON (D.), 1986: The effects of instructional signs on museum visitors. Techn. Report no. 86-70. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

DEVENISH (D.C.), 1990: Labeling in museum display. A survey and practical guide. *Museum Mgmt & Curatorship* 9: 63-72.

MCMANUS (P.), 1989: Oh, yes they do: how museum visitors read labels and interact with exhibit texts. *Curator* 32(3): 174-89.

BACKGROUND & FURTHER READING: LABEL PLACEMENT

BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.), 1990: The importance of label placement: a neglected factor in exhibit design. *Current Trends in Audience Research and Evaluation – 1990*: 49-52

- **Pre-formative evaluation of labels and graphics**

BRAMLEY (F.), 1989: Graphics before evaluation? Even with the cart before the horse, it's possible to finish the race. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 63-64.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5e4-a_5730.pdf

BACKGROUND & FURTHER READING: PRE-FORMATIVE EVALUATION OF LABELS AND GRAPHICS

BITGOOD (S.), 1989: The role of visitor evaluation in the development of exhibit labels. *Visitor Behav.* 4(3): 16.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2e8-a_5730.pdf

CASALINS (D.), 2010: Approaching to design from visitors' expectations. *Abstracts, 2010 IZE Conf., Disney's Animal Kingdom*: 3.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

SAVENYE (W.) & QUINN (M.), 2002: Fast-track formative evaluation of signs. *VSA Ann. Conf.* 2002, Cody, WY.

BACKGROUND & FURTHER READING: READABILITY/LEGIBILITY STUDIES - GENERAL

ALEXANDER (P.A.), KULIKOWICH (J.M.) & JETTON (T.L.), 1994: The role of subject-matter knowledge and interest in the processing of linear and nonlinear texts. *Review Educ. Res.* 64(2): 201-52.

ANON., 1982: Leesbaarheidsonderzoek: een overzichtsartikel van de Werkgroep Begrijpelijkheidsonderzoek. [*Readability research: an overview article from the readability research working group.*] Massacommunicatie 10(3): 115-23.

BITGOOD (S.), DUKES (S.) & ABBY (L.), 2006: Interest and effort as predictors of reading: a test of the general value principle. *Current Trends Audience Res. & Evaluation* 19/20: 5-10.

BITGOOD (S.), NEW (B.) & WHITE (K.), 2007: Mindfulness and the value ratio: predicting the reading of text passages. In: BURTNYK (K.M.) (ed.): *Abstracts, 20th Ann. VSA Conf.*, Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 14. Abstract: <http://www.visitorstudiesarchives.org>

BLOCH (M.), 1968: Labels, legends and legibility. *Museum News* 47(3): 101-06.

BRIDGES (W.), 1963: Signs are for thinking. *Animal Kingdom* 66: 23-35.

CARBO (M.), 1987: Reading style research. What works isn't always phonics. *Phi Delta Kappan* 68(6): 431-35.

CHAMBERS (M.), 1993: After legibility, what? *Curator* 36(3).

CLAUS (J.R.), CLAUS (K.E.) & OLIPHANT (R.M.), 1971: Psychological considerations of lettering for identification. *Cincinnati, Signs of the Times*. 47 pp.

CROUWEL (W.), 1988: Leesbaarheid van teksten. Enkele kanttekeningen. [*Readability of text. Some notes.*] *Museumvisie* 2: 62-63.

DAHN (R.), 1992: Type matters – some typographical guidelines for interpretive texts. In: HAM (S.H.): Environmental interpretation. A practical guide for people with big ideas and small budgets. Golden, North American Press: 294-98.

DE GROOT (J.), 1973: Schrijven – gelezen worden. [*Writing – Being read.*] Groningen, Tjeenk Willink.

FRENZEL (M.A.), 1976: The printed word and research: how to increase readership. *J. Educ. Communication*, Fall 1976: 8.

GILLILAND (J.), 1972: Readability. London, Univ. of London Press.

HALEY (A.), 1991: All caps: a typographical oxymoron. *Upper & Lower Case* 18(3): 14-15.

HENKES (H.E.), BOUMA (H.), VAN DER TWEEL (L.H.) & VERRIEST (G.), 1988: Leesbaarheid van teksten in musea. [Readability of text in museums.] *Museumvisie* 1988(2): 59-62.

KLARE (G.R.) et al, 1957: The relationship of style difficulty, practice, and ability to efficiency of reading and to retention. *J. Appl. Psych.* 41(4): 222-26.

NOORDZIJ (G.), 1976: Leesbaarheid. [Readability.] Compres, nov. 1976.

NOORDZIJ (G.), 1979: Grafische vormgeving als grensverleggend onderzoek. [Graphic design as ground-breaking research.] Compres, mei 1979.

PRICK (L.), 1977: De wenselijkheid van leesbaarheidsformules. [The desirability of readability formulas.] *Onze Taal* 46(11/12): 85-87.

PRINCE (J.H.), 1958: Criteria for word formation for maximum legibility. *Signs of the Times* 148: 42.

REYNOLDS (L.) & HESS (J.), 2008: Legibility of type. Miamisburg, J-Vice.com.
<http://www.j-vice.com/legibility.pdf>

RICHAUDEAU (F.), 1969: La lisibilité. [Readability.] Paris, Denoël-Gonthier.

SAMSON (D.), 1995: Reading strategies used by exhibition visitors. In: BLAIS (A.) (ed.): Text in the exhibition medium. Québec City ; 134-153.

SANDERS (T.J.M.) & NOORDMAN (L.G.M.), 1988: Tekststructuur en begrijpelijkheid: begrijpelijkheidscriteria van ervaren tekstbeoordelaars. [Text structure and comprehension: criteria for comprehension from experienced text reviewers.] Ts. voor taalbeheersing 2.

SORSBY (B.D.) & HORNE (S.D.), 1980: The readability of museum labels. *Museum Journal* 80(3): 157-59.

THOMPSON (D.) & BITGOOD (S.), 1988: The effects of sign length, letter size, and proximity on reading. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design. 101-12.

VAN CALDENBORGH (P.), 1974: Moeilijkheid meten. [Measuring difficulty.] *Onze Taal* 43: 65-68.

VAN DER HEIJDEN (P.), 1988: Van concept-tekst tot definitieve tekst: gedachten over de ergonomie van tekst in het museum. [From concept copy to final copy: thoughts on the ergonomics of copy in the museum.] *Museumvisie* 1988(2): 55-58.

VAN POECKE (L.), 1976: Het trouweloze medium. Een onderzoek naar de correctieve retoriek van het leesbaarheidsonderzoek. [The treacherous medium. An investigation into the corrective rhetoric of readability research.] Werkdocumenten – nr. 6. Leuven, KU Leuven – Centrum voor Communicatiewetenschappen. 127 pp.

WOLF (L.F.) & SMITH (J.K.), 1993: What makes museum labels legible ? *Curator* 36(2) :

BACKGROUND & FURTHER READING: READABILITY/LEGIBILITY STUDIES IN SPECIFIC LANGUAGES

KANDEL (L.) & MOLES (A.), 1958: Application de l'indice de Flesch à la langue française. [Applying the Flesch index to the French language.] *Cahier d'Etudes de Radio-Télévision* 19: 253-74.

VAN HAUWERMEIREN (P.), 1974: Leesbaarheidsformules voor informatieve Nederlandse teksten. [Readability formulas for informative Dutch language texts.] *Spektator* IV(8): 499-520.

BACKGROUND & FURTHER READING: READABILITY TEST METHODOLOGY

BORMUTH (J.R.), 1969: Factor validity of cloze tests as measures of reading comprehension ability. *Reading Res. Quarterly IV(3)*: 358-65.

FLESCH (R.), 1948: A new readability yardstick. *J. Appl. Psych.* 32(3): 221-33.

FLESCH (R.), 1951: How to test readability. New York, Harper & Brothers.

KLARE (G.R.), 1963: The measurement of readability. Ames, Iowa State UP.

KLARE (G.R.), 1974: Assessing readability. *Reading Research Quarterly 10(1)*: 62-102.

KLARE (G.R.) & BUCK (B.), 1954: Know your reader. The scientific approach to readability. New York, Hermitage House.

WOODS (B.), MOSCARDO (G.) & GREENWOOD (T.), 1998: A critical review of readability and comprehensibility tests. London, Reaktion Books.

ZONDERVAN (F.) & VAN CALDENBORGH (P.), 1971: Leesbaarheidsformules, constructie en betrouwbaarheid. [*Readability formulas, construction and reliability.*] *Spektator I(6)*: 341-51.

BACKGROUND & FURTHER READING: LABELS/GRAFICS RESEARCH METHODOLOGY

BITGOOD (S.), 1986a: Evaluating and improving exhibit labels using a standardized system. *Visitor Behav.* 1(3): 8.

BITGOOD (S.), 1986b: SALI (Standardized Assessment of Labels Instrument): a universal evaluation instrument for exhibit labels. Jacksonville, Ctr for Social Design.

BITGOOD (S.), 1987: Knowing when exhibit labels work: A standardized guide for evaluating and improving labels. Techn. Reports no. 86-70. Jacksonville, Ctr for Social Design.

BRYANT (W.L.), 1923: Experiments with museum labels. *Museum Work* 6(4): 115-20.

SERRELL (B.), 1982b: Researching visitor response to museum exhibit labels. *Newsletter IZE* 8: 8-10.

• Specific exhibits

BECKER (B.A.), 1988: Graphics Africa: a graphics evaluation study in Toledo Zoo's African Savanna. *AAZPA 1988 Ann. Proc.*: 192-206.

BIRNEY (B.A.), 1994: The influence of social groups on the use of selected Northern Shores graphics at the Denver Zoo. *Visitor Studies* 5(1): 234-43.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4w3-a_5730.pdf

LOUCH (J.), PRICE (E.C.), ESSON (M.) & FEISTNER (A.), 1999: The effects of sign styles on visitor behavior at the orang-utan enclosure at Jersey Zoo. *Dodo* 35: 134-50.

19. INTERPRETIVE PUBLICATIONS (guidebooks, maps, handouts, self-guided trails etc.)

• Interpretive publications in zoos and aquariums: visitor studies and evaluation

CONGDON (S.) & FRY (R.), 2001: The effects of a laminated bird spotting guide on stay time in two mixed species walk-through aviaries. *Animal Keepers' Forum* 28(10/11): 400.

NORRIS (M.), 2009: Get lost!? Developing self-guided trails for the zoo or aquarium public. *IZE J.* 45: 38-41.

SAUNDERS (C.), APPELBAUM (K.), BAKER (A.), ONDERDONK (V.) & SPAETH (J.), 1989: "Mobile signs" in a tropical exhibit: the development of recyclable guides as interpretive devices. *AAZPA 1989 Ann. Proc.*: 145-50.

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1988: Retention of rain forest conservation messages: visitors' use of Brookfield Zoo's Tropic World brochure. *Brookfield, Chicago Zool. Soc.*

BACKGROUND & FURTHER READING:

INTERPRETIVE PUBLICATIONS (GUIDEBOOKS, MAPS, HANDOUTS, SELF-GUIDED TRAILS ETC.)

BAUMGARTEN (L.), 1987: Aufgaben und Möglichkeiten pädagogischer Zooführer. [Responsibilities and opportunities of educational zoo guidebooks.] In: SCHWARZ (D.) (Hrsg.): *Verhandlungsbericht zur Wissenschaftlichen Konferenz zu Fragen der Zoopädagogik 1987* in Rostock. [Proceedings of the scientific conf. on topics in zoo educ., Rostock, 1987.] Jena, Gustav Fischer: 61-67.

BITGOOD (S.) & PATTERSON (D.), 1992: Using handouts to increase label reading. *Visitor Behav.* 7(1): 15-17.

CONNEY LISBERG (B.V.), 2000: You're not done yet! Creating documents that make your information shine. VSA Conf. 2000, Boston. Abstract: <http://www.visitorstudiesarchives.org>

DREWITT (E.), 2006: Museum family trails: what do families really think about them? Evaluation report. Taunton, MLA Southwest. <http://www.mlasouthwest.org.uk/index.php?ID=313>

FREY TALBOT (J.), KAPLAN (R.), KUO (F.E.) & KAPLAN (S.), 1993: Factors that enhance effectiveness of visitor maps. *Environment & Behavior* 25(6) Special Issue: Environmental design and evaluation in museums: 743-60.

KORN (R.), 1988: Self-guiding brochures: an evaluation. *Curator* 31(1): 9-19.

MARINO (M.), 1996: Using evaluation to improve the design of a hand-held museum map. In: LANKFORD JENS (S.) & BITGOOD (S.) (eds.): *Visitor studies: Theory, research, and practice*. Vol. 8(1). Selected papers, 1995 Visitor Studies Conf. Jacksonville, VSA: 191-204.

SAS (J.) & DERKS (L.), 1984: De kijkroute: onderzoek naar een nieuw museummedium. [The viewing route: research into a new museum medium.] *Museumvisie* 8(3): 75-76.

SHARPE (G.W.), 1982: Self-guided trails. In: SHARPE (G.W.) (ed.): *Intepreting the environment*. New York, Wiley & Sons.

STADIE (G.), 1978: Zur Bedeutung von Informationen und Publikationen für die pädagogische Arbeit in Tiergärten.

[*On the significance of information and publications for the educational work in zoos.*] Milu 4(3): 229-35.

STREHLOW (H.), 2010: Die Führer des Berliner Aquariums. [*The guidebooks of the Berlin Aquarium.*] Bongo 40: 99-100.

TOURTILLOTT (L.) & BRITT (P.), 1994: Evaluating environmental education materials. Dubuque, Kendall/Hurt.

20. INTERACTIVE EXHIBITS, SCIENCE CENTRES

• Interactive exhibits in zoos and aquariums: visitor studies and evaluation

CARLISLE (R.W.) & ELDERTON (V.J.), 1989: An evaluation of interactive environments at Vancouver Public Aquarium: "is that man studying the animals, mommy?". IZE J. 21: 52-55.

HANSEN (J.), 1989: Be a bird: formative evaluation for interactive exhibit development. IZE J. 21: 56-62.

ROSENFELD (S.), 1987: Interactivity in learning: from zoo games to computers. In: Proc. 1st Int'l Children's Zoo Symp., July 1-4, 1987, Philadelphia Children's Zoo. Philadelphia Zoo: 116-24.

WILSON (L.), ROMANO (C.), JENNINGS (H.) & SILVA (R.), 2007: "Fear Factor": best practices, guidelines and evaluations for digital interactives in exhibits. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 1-2.

Abstract: <http://www.visitorstudiesarchives.org>

WOOLLARD (S.P.) & SMART (A.C.), 1996 : "Zoolympics": an evaluation of an interactive education trail at Bristol Zoo. Int. Zoo News 43(6): 411-20.

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1990: A study of visitor behavior on interactive exhibits in Bird Discovery Point, Aquatic Bird House. Brookfield, Chicago Zool. Soc..

BRONNENKANT (K.) & GOLDOWSKY (A.), 1999: Interactive exhibits for aquarium visitors and other animals. 11th ann. VSA conf., Aug. 3-7, 1999, Chicago, IL. Abstract: <http://www.visitorstudiesarchives.org>

FORREST (R.), 2003: Evaluating interactive exhibits: how it should happen, why it often doesn't, and what you can do about it. ECSITE Conf. 2003, Deutsches Museum, München.

ROMEYN (A.) & VERVAECKE (H.), 2010: Bezoekersstudies rond de effectiviteit van educatievormen in dierentuinen en verkennung van de inbreng van technologische innovatie. Eindverslag TETRA-project 080161. [Visitor studies on the effectiveness of education/interpretation techniques in zoos and exploration of the input of technological innovation. TETRA-project 080161 Final report.] Sint-Niklaas, KaHoSL. 30 pp.

VAN DEN ABEELE (Z.), 2009: Interactieve exhibits – Holding power en educatie bij interactieve exhibits. Niet gepubliceerde bachelorthesis. [Interactive exhibits – Holding power and education through interactive exhibits.] Sint-Niklaas, KaHoSL. 42 pp.

BACKGROUND & FURTHER READING: INTERACTIVE EXHIBITS, SCIENCE CENTERS

ADAMS (K.A.) & BORUN (M.), 1992: From hands on to minds on: Labeling interactive exhibits. Visitor Studies 4(1): 115-120. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5b3-a_5730.pdf

ALLEN (S.), 1997: Using scientific inquiry activities in exhibit explanations. Sc. Educ. 81: 715-34.

ALLEN (S.), 2004: Designs for learning: studying science museum exhibits that do more than entertain. Sc. Educ. 88

(Suppl. 1): S17-S33.

ALLEN (S.) & GUTWILL (J.), 2004: Designing with multiple interactives: five common pitfalls. *Curator* 47(2): 199-212.

BEETLESTONE (J.G.), JOHNSON (C.), QUINN (M.) & WHITE (H.), 1998: The science-center movement: context, practice, next challenges. *Public Understanding of Sci.* 7: 5-22.

CARLISLE (R.W.), 1985: What do school children do at a science center? *Curator* 28(1): 27-33.

CAULTON (T.), 1998: Hands-on exhibitions: managing interactive museums and science centres. London, Routledge.

EASON (L.P.) & LINN (M.C.), 1976: Evaluation of the effectiveness of participatory exhibits. *Curator* 19(1): 45-62.

FALK (J.H.), SCOTT (C.), DIERKING (L.), RENNIE (L.) & JONES (M.C.), 2004: Interactives and visitor learning. *Curator* 47(2): 171-98.

GAMMON (B.), 1998: Interactive exhibit development. Making user-friendly exhibits. London, Science Museum, *Public Understanding of Sci. Res. Unit.* 7 pp.

GAMMON (B.), 1999: Everything we currently know about making visitor-friendly mechanical interactive exhibits. *Informal Learning Review* 39: 1-13.

GUTWILL (J.) (s.d.): "Not working" sign study. Exploratorium Visitor Research and Evaluation Report). www.exploratorium.edu/partner/pdf/Not_Working_ivwb_01.pdf

HEATH (C.), VOM LEHN (D.) & OSBORNE (J.), 2005: Interaction and interactives: collaboration and participation with computer-based exhibits. *Public Understanding of Sci.* 14(1): 91-101.

HILKE (D.D.), HENNINGS (E.C.) & SPRINGUEL (M.), 1988: The impact of interactive computer software on visitors' experience: a case study. *ILVS Review: J. of visitor behav.* 1(1): 34-49.

JENKINS (D.), 1985: A survey of interactive technologies. *AAZPA Ann. Conf. Proc.*: 72-83.

KEHLE (M.) & RYMARCEWICZ (A.), 1995: Eine kurze Geschichte der Evaluation interaktiver Bildschirmsysteme. [A short history of the evaluation of interactive screen systems.] Karlsruher Schriften zur Besucherforschung 6: 81-103.

KUNZ KOLLMANN (E.), 2007: The effect of broken exhibits on the experiences of visitors at a science museum. *Visitor Studies* 10(2): 178-191.

PRENSKY (M.), 2001: Digital game-based learning. New York, McGraw Hill.

RAPHLING (B.), 1994: An "ideal" way to evaluate interactive computer programs. *Current Trends in Audience" Research and Evaluation* 8: 44-48.

ROSCHELLE (J.), 1995: Learning in interactive environments: prior knowledge and new experience. In: FALK (J.H.) & DIERKING (L.D.) (eds.): *Public institutions for personal learning*. Washington DC, AAM: 37-51.

SANGER (J.), WILSON (J.), DAVIES (B.) & WHITTAKER (R.), 1997: Young children, videos and computer games: issues for teachers and parents. London, Falmer Press.

SCHWAN (S.), ZAHN (C.), WESSEL (D.), HUFF (M.), HERRMANN (N.) & REUSSNER (E.), 2008: Lernen in Museen und Ausstellungen – die Rolle digitaler Medien. [Learning in museums and exhibitions – the role of digital media.] *Unterrichtswissenschaft Zeitschrift für Lernforschung*. Thema: Lernen im Museum, 36: 117-135.

WAGEMAN (S.B.F.), 2001a: Everything is broken: visitor perceptions and reality – paper. Poster session presented at 2001 AAM Ann. Meeting, St Louis, MO.

www.thetech.org/rmpo2/commentary/_everythingisbro/aam2001everythi/office2k/office2k.htm

WAGEMAN (S.B.F.), 2001b: Everything is broken: visitor perceptions and reality – slides. Poster session presented at

2001 AAM Ann. Meeting, St. Louis, MO.

www.thetech.org/rmpo2/commentary/_everythingisbro/_aam2001everythi-1/office2k/office2k.htm

WALKER (K.) & WINTERS (N.), 200?: Learning with “non-interactive” technology. Paper presented at the Technology and Learning Research Symp., NYU, 1-2 Apr. 2005. 5 pp.

<http://www.lkl.ac.uk/people/kevin/nyc.pdf>

BACKGROUND & FURTHER READING: INTERACTIVES - GENERAL

ALLEN (S.) & GUTWILL (J.), 2004: Designing with multiple interactives: five common pitfalls. *Curator* 47(2): 199-212.

BERNIER (R.), 2003: Usability of interactive computers in exhibitions: designing knowledgeable information for visitors. *J. Educ. Computing Res.*.

BITGOOD (S.), 1991b: Bibliography: Hands-on, participatory, and interactive exhibits. *Visitor Behav.* 6(4): 14-7.

FALK (J.H.), SCOTT (C.), DIERKING (L.), RENNIE (L.) & JONES (M.C.), 2004: Interactives and visitor learning. *Curator* 47(2): 171-98.

FEHER (E.) & RICE (K.), 1985: Development of scientific concepts through the use of interactive exhibits in a museum. *Curator* 28(1): 35-48.

FLAGG (B.N.), 1995: Besucher vor dem kleinen Bildschirm. [Visitors in front of the small screen.] *Karlsruher Schriften zur Besucherforschung* 6: 47-51.

FRANK (G.), 1995: Zur Philosophie des hands on. [On the philosophy of hands on.] In: WORM (N.) (Hrsg.): Kinder- und Jugendmuseum. Kulturort mit Zukunft. [Children's and youth museum. Culture venue with a future.] Unna, LDK Verlag.

GAMMON (B.), 1999: Visitors' use of computer exhibits. *Informal Learning Review* 38: 10-3.

GAMMON (B.), 1999: Everything we currently know about making visitor friendly mechanical interactive exhibits. *Informal Learning Review*. www.informallearning.com/archive/1999-1112-a.htm

GAMMON (B.), 2008: Seven more lessons learnt in interactive exhibit development. Paper presented at the Museum Association Conference Senses working overtime: Optimising Interactive exhibits, Churchill Museum. www.bengammon.com/downloads/MA_presentation_d1.doc

GAMMON (B.) & CUTTING (J.), 2008: So you want some interactive exhibits! What to do next. www.bengammon.com/downloads/SoYouWantInteractiveExhibits.pdf

GUTWILL (J.), 2008: Challenging a common assumption of hands-on exhibits: how counterintuitive phenomena can undermine inquiry. *J. Museum Educ.*..

HENNING (M.), 2005: Making things happen: interactivity in zoos and museums. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 79-86.

HILKE (D.D.), 1988: Computer: beginning to assess how they affect exhibit behavior. *Spectra* 15(4): 1-2.

KELLY (L.), 2000: Use of computer-interactives in museum exhibitions: literature review. AMARC (Australian Museum Audience Research Centre).

KOLLMANN (S.), 2007: Educational effects of hands-on exhibit design. Presentation. ECSITE Conf. 2007, Lisboa. <http://www.ecsite-conference.net/content/user/File/steffi%20kollmann.pps>

KRAKAUER (T.), RUSSELL (R.L.) & WEST (R.M.), 1994: Interactive exhibits in a zoo environment. AZA Ann. Conf. Proc. 1994: 170-5.

MARTINEZ (M.), 2002: Interactive areas – an educational alternative for zoos. IZE J. 1: 21-5.

NOSCHKA-ROOS (A.), 1995: Der Einsatz von Bildschirminformationssystemen im Museum. Eine empirische Untersuchung im Deutschen Museum. [*The use of computer screen information systems in museums. An empirical investigation at the Deutsches Museum.*] In: FAST (K.) (Hrsg.), 1995: Handbuch museumspädagogischer Ansätze. Berliner Schriftenreihe zur Museumskunde, Band 9. Opladen: 375-90.

ROUTMAN (E.), 1994: Considering high-tech exhibits ? Legacy 5(6): 19-22.

SCREVEN (C.G.), 1991: Computers in exhibit settings. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 130-138. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5w3-a_5730.pdf

SERRELL (B.) & RAPHLING (B.), 1992: Computers on the exhibit floor. Curator 35(3): 181-90.

THIER (H.D.) & LINN (M.C.), 1976: The value of interactive learning experiences. Curator 19(3): 233-45.

WHITE (J.), 1986: More than just hands-on! Thoughtfully developing participatory exhibits. AAZPA Ann. Conf. Proc..

21. AUDIOVISUALS AND MULTIMEDIA

• General

OGDEN (J.J.), LINDBURG (D.G.) & MAPLE (T.L.), 1993: The effects of ecologically-relevant sounds on zoo visitors. *Curator* 36(2): 147-56.

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1988c: Visitor use of and response to Discovery Center's orientation and TRAFFIC (USA) shows. Brookfield, Chicago Zool. Soc..

BACKGROUND & FURTHER READING: AUDIOVISUALS AND MULTIMEDIA

BALDWIN (T.) & KURIAKOSE (L.T.), 2009: Cheap, accurate RFID tracking of museum visitors for personalized content delivery. *Museums and the Web 2009 – the int'l conf. for culture and heritage on-line*, Indianapolis, Apr. 15-18, 2009. Abstract: http://www.archimuse.com/mw2009/abstracts/prg_335001936.html

BARTHES (R.), 1981: Camera lucida: reflections on photography. [*Translation by R. Howard.*] New York, Hill and Wang.

BORNEMANN-JESKE (B.), 2003: Den Bildungsauftrag multimedial auch für Menschen mit Behinderungen gestalten. [*Including people with handicaps in multimedia education efforts.*] Museum-Aktuell, Mai 2003:

CALLANAN (M.), JIPSON (J.) & SOENNICHSEN (M.), 2002: Maps, globes and videos: parent-child conversations about representational objects. In: PARIS (S.) (ed.): *Perspectives on object-centered learning in museums*. Mahwah, Erlbaum: 261-83.

CALLANAN COHEN (M.) & ROSCH (T.), 2006: Technology for learning: friend or foe? *Roots* 3(2): 26-30.

DANDRIDGE (F.), 1968: The value of design in visual communication. *Curator* 9(4): 331-36.

DIERKING (L.D.) & FALK (J.H.), 1998: Audience and accessibility. In: MINTZ (A.) & THOMAS (S.) (eds.): *The virtual and the real: uses of multimedia in museums*. Washington DC, AAM.

ECONOMOU (M.), 1996: Evaluation of museum multimedia applications. In: VAN DER STARRE (J.), DAVIS (B.) & TRANT (J.) (eds.): *Introduction to multimedia in museums: a report by the ICOM/CIDOC Multimedia Working Group*. Den Haag. <http://konbib.nl/rkd>

FACER (K.), 2002: What do we mean by the digital divide? Exploring the roles of access, relevance and resource networks. In: *The digital divide*. Coventry, Becta. www.becta.org.uk/page_documents/research/digidvseminar.pdf

GRACK NELSON (A.), GOLDBERG (M.), SCHMIT (B.) & COOKS (R.), 2007: Wow, what is that ? Using evaluation to increase visitors' comprehension of Science on a Sphere Visualizations. In: BURTNYK (K.M.) (ed.): *Abstracts, 20th Ann. VSA Conf.*, Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 12-3.

HALEY GOLDMAN (K.), SCHALLER (D.), SPICKELMIER (G.), ALLISON-BUNNELL (S.), & KOEPFLER (J.), 2009: Learning in the wild: evaluationg WolfQuest's impact on game players. *Museums and the Web 2009 – the int'l conf. for culture and heritage on-line*, Indianapolis, Apr. 15-18, 2009. Abstract: http://www.archimuse.com/mw2009/abstracts/prg_335002012.html

HAUSER (W.), NOSCHKA-ROOS (A.), REUSSNER (E.) & ZAHN (C.), 2009: Design-based research on digital media in a museum environment. *Visitor Studies* 12(2): 182-98.

MAYER (R.E.), 2001: Multimedia learning. Cambridge, Cambridge UP.

MILES (R.S.), 1989: Audiovisuals, a suitable case for treatment. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1989: Visitor studies: Theory, research, and practice. Vol. 2. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 245-51.

PARRY (R.), 2005: Recoding the museum: digital heritage and the technologies of change. London, Routledge.

PETERS (J.M.), 1971: Theorie van de audio-visuele communicatie. [*Theory of audiovisual communication.*] Leuven,

ROBINSON (M.), 1997: Multimedia in living exhibits: now and then. *Museum News* 76(4): 38-67.

SAMIS (P.), 2008: The exploded museum. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 3-17.

SCHRÖDER (H.), 2003: Audiovisuelle Medien. [*Audiovisual media.*] In: WOHLERS (L.) (Hrsg.): Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit. Band 13. [*Methods of informal environmental education. Environmental education, environmental communication and sustainability. Volume 13.*] Frankfurt, Peter Lang: 115-30.

SCHWAN (S.), TRISCHLER (H.) & PRENZEL (M.) (Hrsg.), 2006: Lernen im Museum. Die Rolle von Medien. [*Learning in the museum. The role of media.*] Mitteilungen und Berichte 38. Berlin, Inst. für Museumsforschung.

SCREVEN (C.G.), 1975: The effectiveness of guidance devices on visitor learning. *Curator* 18(3): 219-43.

SERRELL (B.), 2002: Are they watching? Visitors and videos in exhibitions. *Curator* 45(1): 50-64.

SMITH (J.K.) & TINIO (P.P.L.), 2008: Audibly engaged: talking the walk. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 63-78.

SONTAG (S.), 1977: On photography. London, Penguin. 208 pp.

WALKER (K.), 2002: Beware geeks bearing gifts. *Curator* 45(1): <http://www.exhibitresearch.com/forum.html>

WALKER (K.), 2006: Screens in the museum landscape. *Visual Communication* 5(2): 1-9.
http://www.lkl.ac.uk/people/kevin/walker_screens.pdf

WILKINSON (B.), 1997: Multimedia wildlife education and attitudes. MA thesis in Educ. Psychology. Northridge, California State Univ., Northridge. 13 pp. www.csun.edu/~vcpsy00h/students/barbara1.htm

- **Handheld/mobile devices**

ROUILLARD (J.) & LAROUSSI (M.), 2008: PerZoovasive: contextual pervasive QR codes as tool to provide an adaptive learning support. Proc. Int'l Conf. Soft Computing as Transdisciplinary Sci. & Technology, Cergy-Pontoise, France: 542-48.

http://sist-ticer.net/IMG/pdf/rouillard_laroussi_caml08_V70_APRES_REVIEWS.pdf

ON-GOING OR UNPUBLISHED STUDIES :

BAPTISTA (L.), 2005: BBC Collect: Stapler trial at London Zoo. Preliminary findings. Unpublished evaluation report for the Zool. Soc. of London, Nov. 2005.

BACKGROUND: HANDHELD DEVICES - GENERAL

ANON., 2006: ASTC & NAME RAP: Personal mobile devices and science centers. June 16-17, Liberty Science Center, Jersey City, NJ. Jersey City, Liberty Science Center. <http://www.exhibitresearch.com/cms/?q=links/refer/45>

BANNASCH (S.), 1999: The electronic curator: using a handheld computer at the Exploratorium. The Concord Consortium Newsletter, Fall 1999. <http://www.concord.org/library/1999fall/electronic-curator.html>

BELLOTTI (F.), BERTA (R.), DE GLORIA (A.) & MARGARONE (M.), 2002: User testing a hypermedia tour guide. Pervasive Computing 1(2): 33-41.

BROWN (B.) & CHALMERS (M.), 2003: Tourism and mobile technology. In: KUUTTI (K.) & KARSTEN (E.H.) (eds.): ECSCW 2003: Proc. 8th Eur. Conf. on Computer Supported Cooperative Work. Dordrecht, Kluwer Acad. Press: 335-55.

COSTABILE (M.F.), DE ANGELI (A.), LANZILOTTI (R.), ARDITO (C.), BUONO (P.) & PEDERSON (T.), 2008: Explore! Possibilities and challenges of mobile learning. Proc. 26th Ann. SIGCHI Conf. on Human Factors in Computing Systems. New York, ACM: 145-54. <http://doi.acm.org/10.1145/1357054.1357080>

FILIPPINI-FANTONI (S.) & BOWEN (J.P.), 2008: Mobile multimedia: reflections from ten years of practice. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 79-96.

GAMMON (B.) & BURCH (A.), 2008: Designing mobile digital experiences. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 35-60.

GIUSTI (E.), 2008: Improving visitor access. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 97-108.

GOTTLIEB (H.), 2008: Interactive adventures. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 167-77.

HSI (S.), 2008: Designing for mobile visitor engagement. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 125-45.

LIBERTY SCIENCE CENTER, 2005: Personal mobile devices and science centers: executive summary. ASTC and NAME Rap, June 16-17, 2005. http://snse.lsc.org/pdf/RAP_ExecSummary.pdf

NAISSMITH (L.), LONSDALE (P.), VAVOULA (G.) & SHARPLES (M.), 2005: Literature review in mobile technologies and learning. Bristol, Futurelab. www.futurelab.org.uk/research/handbooks/05_01.htm

PARRY (R.), 2008: Afterword: The future in our hands? Putting potential into practice. In: TALLON (L.) & WALKER (K.) (eds.): Digital technologies and the museum experience. Handheld guides and other media. Lanham, Altamira: 179-93.

PHIPPS (M.), ROWE (S.) & CONE (J.), 2008: Incorporating handheld computers into a public science center: a design research study. *Visitor Studies* 11(2): 123-38. <http://dx.doi.org/10.1080/10645570802355448>

PROCTOR (N.), 2004: Access in hand: providing deaf and hard-of-hearing visitors with on-demand, independent access to museum information and interpretation through handheld computers. Paper presented at ICHIM, Berlin, 2004. www.ichim.org/ichim04/contenu/PDF/4324_Proctor.pdf

PROCTOR (N.), 2009: Manifesto for a new mobile architecture. MuseumMobile wiki. Media & technology on the go. <http://wiki.museummobile.info/archives/62>

PROCTOR (N.), 2009: Thinking outside the audio tour box. Using front-end and formative evaluations to design new mobile experiences. <http://www.slideshare.net/nancyproctor/thinking-outside-the-audio-tour-box-using-frontend-and-formative-evaluations-to-design-new-mobile-experiences>

PROCTOR (N.) & TELLIS (C.), 2003: State of the art in museum handhelds in 2003. *Museums and the Web* 2003. Selected papers from an int'l conf., Charlotte, NC, Mar. 2003. www.archimuse.com/mw2003/papers/proctor.html

RUDMAN (P.), SHARPLES (M.), LONSDALE (P.), VAVOULA (G.) & MEEK (J.), 2008: Cross-context learning. In: TALLON (L.) & WALKER (K.) (eds.): *Digital technologies and the museum experience. Handheld guides and other media*. Lanham, Altamira: 147-66.

SCHRÖDER (H.M.), 2007: Zur Akzeptanz multimedialer Führungssysteme: Ergebnisse einer Besucherbefragung. [*On the acceptance of multimedia visitor guidance systems: results of a visitor survey.*] Museum-Aktuell, Feb. 2007:

SEMPER (R.) & SPASOJEVIC (M), 2006: The Electronic Guidebook: using portable devices and a wireless web-based network to extend the museum experience. In: TRANT (J.) & BEARMAN (D.) (eds.): *Museums and the Web* 2006. Toronto, Archives & Museum Informatics. <http://www.archimuse.com/mw2006/papers/sempere.html>

SUKUMARAN (B.), 2005: BBC Collect. <http://www.bjyu.net/design-practice/>

TALLON (L.) & WALKER (K.), 2008 (eds.): *Digital technologies and the museum experience. Handheld guides and other media*. Lanham, Altamira Press. 238 pp.

TALLON (L.), 2008: Introduction: mobile, digital, and personal. In: TALLON (L.) & WALKER (K.) (eds.): *Digital technologies and the museum experience. Handheld guides and other media*. Lanham, Altamira Press: xiii-xxv.

TALLON (L.), 2009: The use, challenges and future of handheld guides in museums. An overview of the findings from the 2009 Int'l Handheld Guides Survey. Pocket Proof. <http://www.learningtimes.net/museumhandheldsurvey/contact/>

TELLIS (C.), 2004: Multimedia handhelds: one device, many audiences. In: BEARMAN (D.) & TRANT (J.) (eds.): *Museums and te Web* 2004: Proc.. Toronto, Archives and Museum Informatics. www.archimuse.com/mw2004/papers/tellis/tellis.html

VAHEY (P.), ROSCHELLE (J.) & TATAR (D.), 2007: Using handhelds to link private cognition and public interaction. *Educ. Technology* May-June 2007: 13-6.

VAVOULA (G.), 2005: A study of mobile learning practices. Deliverable 4.4 for the MOBILearn project (EU, IST-2001-37440). www.mobilearn.org/download/results/public_deliverables/MOBILearn_D4.4_Final.pdf

WALKER (K.), 2007: Visitor-constructed personalized learning trails. *Museums & the Web* conf., San Francisco, 11-14 April 2007. <http://www.archimuse.com/mw2007/papers/walker/walker.html>

WALKER (K.), 2008: Structuring visitor participation. In: TALLON (L.) & WALKER (K.) (eds.): *Digital technologies and the museum experience. Handheld guides and other media*. Lanham, Altamira Press: 109-24.

WALKER (K.), 2008: StreetAccess “iGuides”. Summative evaluation. Brighton/London, Center for Excellence in Teaching and Learning through Design. 105 pp. http://www.exhibitresearch.com/iGuides_summative.pdf

WALKER (K.), 2008: Designing experiences inside out. Nodem 08, 3 Dec. 2008, Reykjavik, Iceland. London, London Knowledge Lab. <http://www.lkl.ac.uk/people/kevin/nodem08.pdf>

ZUÑIGA (C.L.), MILLAN (A.F.), ABADIA (J.L.), LORA (M.), NAVARRO (A.), BURGUILLO (J.C.) & RODRIGUEZ (P.S.), 2010: Design of service-oriented pervasive system for urban computing in Cali Zoo (OpenZoo). World Acad. Sci., Engineering & Technology 63: 70-75. <http://www.waset.org/J.s/waset/v63/v63-13.pdf>

BACKGROUND & FURTHER READING: AUDIOGUIDES

BESIC (S.), 2005: Steht die klassische Audioführung vor einer Revolution? [*Is the classical audiotour ready for a revolution?*] Museum-Aktuell, Feb. 2005 :

DIETMAR (U.), 2009: Alles im Griff: Digitales Management von Audioguides – Ausgabe, Rücknahme und Datenauswertung mit einer Software. [*Everything managed hands on: digital management of audioguides – distribution, return and data processing with one software.*] Museum-Aktuell, März 2009 :

PETRELLI (D.), NOT (E.), SARINI (M.), STRAPPARAVA (C.), STOCK (O.) & ZANCANARO (M.), 1999: HyperAudio: location-awareness + adaptivity. In: ACM SIGCHI '99 Extended Abstracts, Pittsburgh, May 1999, 21-22. <http://citeseer.ist.psu.edu/petrelli99hyperaudio.html>

PETRICK (D.), 2005: Die Informationsvermittlung durch Audioguides - museale Medien im Vergleich. [*Interpretation through audioguides – a comparative overview of museum media.*] Museum-Aktuell, Feb. 2005:

PUIG (V.), BOUREL (Y.), L'HOUR (Y.-M.), HAUSZONE (Y.-M.) & JAUNIAU (C.), 2009: Collaborative annotation system using vocal comments recorded on mobile phones and audioguides: the Centre Pompidou exhibition. Museums and the Web 2009 – int'l conf. culture & heritage on-line, Indianapolis, Apr. 15-18, 2009.

Abstract: http://www.archimuse.com/mw2009/abstracts/prg_335001966.html

BACKGROUND & FURTHER READING: ELECTRONIC GUIDEBOOKS

ANON., 2005: Electronic Guidebook Forum Report. Exploratorium Electronic Guidebook Forum, Jan. 13-14, 2005. San Francisco, Exploratorium. <http://www.exploratorium.edu/guidebook/index.html>

HSI (S.), ...?: Evaluation of electronic guidebook mobile web resources.
<http://www.exploratorium.edu/guidebook/research.html>

WOODRUFF (A.), AOKI (P.M.), HURST (A.) & SZYMANSKI (M.H.), 2001: Electronic guidebooks and visitor attention. In: BEARMAN (D.) & TRANT (J.) (eds.): Proc. 6th Int'l Cultural Heritage Informatics Meeting. Philadelphia, Archive & Museum Informatics: 437-54.

WOODRUFF (A.), AOKI (P.M.), GRINTER (R.E.), HURST (A.), SZYMANSKI (M.H.) & THORNTON (J.D.), 2002: Eavesdropping on electronic guidebooks: observing learning resources in shared listening environments. In: BEARMAN (D.) & TRANT (J.) (eds.): Museums and the Web 2002. Selected papers, Int'l Conf.. Pittsburgh, Archives & Museum Informatics: 21-30.

BACKGROUND & FURTHER READING: GAMES

CABRERA (J.S.), FRUTOS (H.M.), STOICA (A.G.), AVOURIS (N.), DIMITRIADIS (Y.), FIOTAKIS (G.) & LIVERI (K.D.), 2005: Mystery in the Museum: collaborative learning activities using handheld devices. In: Proc. MobileHCI 05. New York, ACM: 315-8.

INVERSINI (A.), DI MARIA (A.), BOTTURI (L.), 2009: City Treasure. Mobile games for learning cultural heritage. Museums and the Web 2009 – int'l conf. culture & heritage on-line, Indianapolis, Apr. 15-18, 2009.
Abstract: http://www.archimuse.com/mw2009/abstracts/prg_335001943.html

SCHROYEN (J.), LUYTEN (K.), GABRIËLS (R.K.), TEUNKENS (D.), CONINX (K.), FLEERACKERS (E.) & MANSHOVEN (E.), 2009: The design of context-specific educational mobile games. In: TRANT (J.) & BEARMAN

(D.) (eds.): Museums and the Web 2009: Proc. Toronto, Archives & Museum Informatics.
www.archimuse.com/mw2009/papers/schroyen/schroyen.html

VAN LOON (H.), GABRIËL (K.), LUYTEN (K.), TEUNKENS (D.), ROBERT (K.), CONINX (K.) & MANSHOVEN (E.), 2007: Supporting social interaction: a collaborative trading game on a PDA. In: : TRANT (J.) & BEARMAN (D.) (eds.): Museums and the Web, Apr. 2007: Proc. Toronto, Archives & Museums Informatics.
www.archimuse.com/mw2007/papers/vanLoon/vanLoon.html

BACKGROUND & FURTHER READING: LOCATION-AWARE SYSTEMS

MICHEL (U.), PLASS (C.), TSCHRITTER (C.) & EHLERS (M.), 200.: Webmozis – web-based and mobile zoo information system – a case study for the City of Osnabrueck. ISPRS Congress Beijing 2008, Vol. XXXVII, Commission IV. http://www.isprs.org/proceedings/XXXVII/congress/4_pdf/149.pdf

PETRELLI (D.), NOT (E.), SARINI (M.), STRAPPARAVA (C.), STOCK (O.) & ZANCANARO (M.), 1999: HyperAudio: location-awareness + adaptivity. In: ACM SIGCHI '99 Extended Abstracts, Pittsburgh, May 1999, 21-22. <http://citeseer.ist.psu.edu/petrelli99hyperaudio.html>

• Mobile phones : visitor studies

O'HARA (K.), KINDBERG (T.), GLANCY (M.), BAPTISTA (L.), SUKUMARAN (B.), KAHANA (G.) & ROWBOTHAM (J.), 2007: Collecting and sharing location-based content on mobile phones in a zoo visitor experience. Computer Supported Cooperative Work 16(1-2): 11-44. Abstract: <http://www.springerlink.com/content/x7443m3828417886/>;
Presentation: http://resources.lsrn.nottingham.ac.uk/seminars/Kenton/Collect_Nottingham.ppt

ON-GOING OR UNPUBLISHED STUDIES :

DANIELS (J.), 2010: Can you hear me now?: using cellular phones to foster understanding of the nature of science in zoo settings. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 4.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: MOBILE PHONES

ANON., 2010: Cell Phone Snapshot: results of a 2009 Cell Phone Audio Tour Survey. Museum-Ed.
<http://www.museum-ed.org/content/view/106/53/>

BRESSLER (D.), 2006: Mobile phones: a new way to engage teenagers in informal science learning. In: TRANT (J.) & BEARMAN (D.) (eds.): Museums and the Web 2006: Proc. Toronto, Archives & Museum Informatics.
<http://www.archimuse.com/mw2006/papers/bressler/bressler.html>

MARKOFF (J.) & FACKLER (M.), 2006: With a cellphone as my guide. New York Times, June 28, 2006.

NICKERSON (M.), 2005: 1-800-FOR-TOURS: delivering automated audio information through patron's cell phones. In: TRANT (J.) & BEARMAN (D.) (eds.): Museums and the Web 2005. Mar 31, 2005: Proc.. Toronto, Archives & Museum Informatics. <http://www.archimuse.com/mw2005/papers/nickerson/nickerson.html>

BACKGROUND & FURTHER READING: PDAs

HYDE-MOYER (S.), 2006: The PDA tour: We did it; So can you. In: BEARMAN (D.) & TRANT (J.) (eds.): Museum and the Web 2006: Proc.. Toronto, Archives and Museum Informatics.

www.archimuse.com/mw2006/papers/hyde-moyer/hyde-moyer.html

BACKGROUND & FURTHER READING: INTERNET INTEGRATION IN EXHIBITS

BARRY (A.), 2006: Creating a virtuous circle between a museum's on-line physical spaces. In: TRANT (J.) & BEARMAN (D.) (eds.): Museums and the Web 2004: Proc.. Toronto, Archives and Museum Informatics. www.archimuse.com/mw2006/papers/barry/barry.html

FILIPPINI-FANTONI (S.) & BOWEN (J.), 2007: Bookmarking in museums: extending the museum experience beyond the visit? In: TRANT (J.) & BEARMAN (D.) (eds.): Museums and the Web, Apr. 2007: Proc.. Toronto, Archives and Museums Informatics. www.archimuse.com/mw2007/papers/filippini-fantoni/filippini-fantoni.html

KEEN (A.), 2007: The cult of the amateur: how today's internet is killing our culture and assaulting our economy. London, Nicholas Brealey.

BACKGROUND & FURTHER READING: SOUND DESIGN IN EXHIBITS

DEWEY PLATT (L.), 1998: Sensing exhibits: use of programmed sound in zoos and aquariums. AZA Reg. Conf. Proc.: 531-4.

DEWEY PLATT (L.) & KRAUSE (B.), 2001: Learning and listening in natural history exhibits. IZE J. 7: 16-9.

KRAUSE (B.L.), 1989: Habitat ambient sound as a function of transformation for resident animals and visitors at zoos, aquaria, and theme parks. AAZPA Ann. Conf. Proc.:

KRAUSE (B.L.), 2001: Audio applications and design. In: BELL (C.E.) (ed.): Encyclopedia of the World's Zoos. Volume I A-F. Chicago/London, Fitzroy Dearborn: 69-71.

BACKGROUND & FURTHER READING: VIDEO

LANDAY (J.) & BRIDGE (R.G.), 1982: Video vs. wall-panel display: an experiment in museum learning. Curator 25(1): 41-56.

MORISSEY (K.), 1991: Visitor behavior and interactive video. Curator 34(2): 109-18.

SERRELL (B.), 2002: Are they watching ? Visitors and video in exhibitions. Curator 45(1): 50-

22. ANIMAL BEHAVIOR, ENRICHMENT – VISITOR EFFECTS

- **Animal behavior, enrichment – visitor studies**

BIRNEY (B.), 1993: Research issues associated with visitors' reactions to zoo enrichment programs. Vancouver.

DAVEY (G.), HENZI (P.) & HIGGINS (L.), 2005: The influence of environmental enrichment/animal welfare initiatives on Chinese visitor behavior. *J. Appl. Animal Welfare Sci.* 8(2): 131-40.

DAVEY (G.) & HIGGINS (L.), 2007: Chinese zoo visitor behaviour before and after environmental enrichment. *Int. Zoo News* 54(4): 212-6.

MCPHEE (M.), FOSTER (J.), SEVENICH (M.) & SAUNDERS (C.), 1998: Public perceptions of behavioural enrichment: assumptions gone awry. *Zoo Biology* 17(6): 525-34.

MELFI (V.), MCCORMICK (W.A.) & GIBBS (A.), 2004: A preliminary assessment of how zoo visitors evaluate animal welfare according to enclosure style and the expression of behavior. *Anthrozoös* 17: 98-108.

RUSKA (D.), 2009: Variation in visitor perceptions of a polar bear enclosure based on the presence of natural vs. un-natural enrichment items. *Zoo Biology* 28(4): 292-306.

BACKGROUND & FURTHER READING:

ANIMAL BEHAVIOR, ENRICHMENT – VISITOR EDUCATION/INTERPRETATION ASPECTS

BLOCK (E.), 1996: Verrijking voor mens en dier. [*Enrichment for humans and animals.*] De Harp 15(4): 4-5.

DEALY (H.), 1990: Zoo animal enrichment – educational implications. In: IZE Congress Antwerp '90 – 10-14 Sep. – Abstracts.

ESSON (M.) & TOMLINSON (M.), 1998: Gorilla society: an educational tool to promote the development of group dynamics in teenagers. *Dodo* 33: 126-36.

FEUSTEL (H.), 1978: Kindermund zu verhaltensbiologische Fragen. [*Children's talk about ethological questions.*] Vivarium 4-1978: 2-6.

HUTCHINGS (M.), HANCOCKS (D.) & CALIP (T.), 1978: Behavioural engineering in the zoo: a critique. Part I. *Int. Zoo News* 155 :

HUTCHINGS (M.), HANCOCKS (D.) & CALIP (T.), 1978: Behavioural engineering in the zoo: a critique. Part II. *Int. Zoo News* 156 :

HUTCHINGS (M.), HANCOCKS (D.) & CALIP (T.), 1979: Behavioural engineering in the zoo: a critique. Part III. *Int. Zoo News* 157 :

KNIGHT (S.), VRJI (A.), CHERRYMAN (J.) & NANKOOSING (K.), 2004: Attitudes towards animals and belief in animal mind. *Anthrozoös* 17: 43-62.

MARKOWITZ (H.), 1975: In defence of unnatural acts between consenting animals. *AAZPA* 51th Ann. Conf. Proc.: 103-6.

MELLEN (J.) & MACPHEE (M.S.), 2001: Philosophy of environmental enrichment: past, present and future. *Zoo Biology* 20: 211-26.

MONTAUDON (S.), FREZARD (A.), VIEUILLE (C.) & LE PAPE (G.), 2002: Les parcs et zoos nous montrent-ils des animaux dénaturés? [Do zoos and parks show us de-natured animals?] In: BOISARD (J.-J.) et al: *Zooéthique. Parc des Oiseaux, Villars-les-Dombes, 23, 24 et 25 Oct. 2002. [Zoo ethics. Parc des Oiseaux, Villars-les-Dombes, Oct. 23-25, 2002.]* Lille, SNDPZ: 41-6.

MURRAY (A.J.), 1998: The aesthetics of the environmentally enriched enclosure. *Thylacinus* 22(1): 53-64.

MURRAY (A.J.), WARAN (N.K.) & YOUNG (R.J.), 1998: Environmentally enriched enclosures – their visual impact and educational message? *Ratel* 25(3): 101-3.

SANDFORD (F.), 1985: The zoo's role in animal behaviour education. *Int. Zoo News* 32(2): 26-33.

TARDONA (D.R.), 1997: Animal behavioral enrichment and public perception: an opportunity to inform and educate. *Animal Keepers' Forum* 24(7): 320-1.

23. LIVE ANIMAL SHOWS AND DEMONSTRATIONS (including keeper talks and contact sessions)

ANDERSON (U.S.), KELLING (A.S.), PRESSLEY-KEOUGH (R.), BLOOMSMITH (M.A.) & MAPLE (T.L.), 2003: Enhancing the zoo visitor's experience by public animal training and oral interpretation at an otter exhibit. Env. & Behav. 35(6): 826-41.

HEINRICH (C.J.) & BIRNEY (B.A.), 1992: Effects of live animal demonstrations on zoo visitors' retention of information. Anthrozoös 5: 113-21.

LINDEMANN-MATTHIES (P.) & KAMER (T.), 2001: Evaluation der betreuten Besucherinformation im Tierpark Goldau. [*Evaluation of interactive visitor information at Goldau Animal Park.*] Der Zool. Garten 71(3): 194-208.

LINDEMANN-MATTHIES (P.) & KAMER (T.), 2006: The influence of an interactive approach on visitors' learning in a Swiss zoo. Sci. Educ. 90: 296-315.

MANN-LANG (J.B.) & HARRIS (G.A.), 2009: Can mammal shows really contribute to conservation? Measuring the impact in Africa. Proc., 37th Ann. IMATA Conf., 3-6 Nov. 2009, Georgia Aquarium, Atlanta, GA. Chicago, IMATA: 36.

MORTAN (S.) & YALOWITZ (S.), 2003: Evaluating the Kelp Forest Feeding Program at the Monterey Bay Aquarium. Visitor Studies Today! 6(1): 6-9.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6d4-a_5730.pdf

MUURMANS (M.), 2001: Getting the conservation message across: an evaluation of the animal talks programme at Jersey Zoo. Dodo 37: 103.

VISSCHER (N.C.), SNIDER (R.), & VANDER STOEP (G.), 2009: Comparative analysis of knowledge gain between interpretive and fact-only presentations at an animal training session: an exploratory study. Zoo Biology 28(5): 488-95.

YERKE (R.) & BURNS (A.), 1991: Measuring the impact of animal shows on visitor attitudes. AAZPA Ann. Conf. Proc., San Diego, CA: 532-39.

YERKE (R.) & BURNS (A.), 1993: Evaluation of the educational effectiveness of an animal show outreach program for schools. AAZPA 1993 Ann. Conf. Proc.: 366-68.

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1990a: The impact of a six-week delay on visitors' retention of animal demonstration themes: three Children's Zoo shows. Brookfield, Chicago Zool. Soc..

DIDRIKSEN (U.), 1999: You need to touch an animal. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 Sept., Copenhagen Zoo, Denmark. København, Zoo København: 113-17.

KONDRATJUK (M.), 2003: Frequency of visitors at the free short guided tours and feedings during the action "We love to eat". Goldau, Tierpark Goldau. Contact stephanie.heinzelmann@tierpark.ch

LIDINSKY (K.) & WILSON (L.), 2004: Animal encounters. 17th ann. VSA conf., Aug. 3-7, 2004, Albuquerque, NM.

Abstract: <http://www.visitorstudiesarchives.org>

LI (I.M.Y.), 2010: Education evaluation in zoos & aquariums – sharing of Ocean Park's experience. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 7.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

SWEENEY (D.L.), 2010: Learning in human-dolphin interactions at zoological facilities. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 16.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

WILSON (L.), 2010: Putting the POWER back into presentations with new tools at Zoos Victoria. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 19.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING:

LIVE ANIMAL SHOWS AND DEMONSTRATIONS (INCLUDING KEEPER TALKS AND CONTACT SESSIONS)

ANDERSEN (L.L.), 1992: Informative animal shows. IZE J. 25: 1-4.

BOUSSAC (P.), 1976: Circus and culture: a semiotic approach. Bloomington, Indiana UP.

CUNNINGHAM (M.K.), 2001: Engaging our visitors: the value of conversational interpretation and interpretive training. Public Gdn 16(3).

DE HOON (J.) & LUU (P.), 2006: Bird demonstrations in zoos: challenges and benefits. EAZA News 55: 24-5.

DESMOND (J.C.), 1995: Performing “nature”: Shamu at Sea World. In: CASE (S.-E.), BRETT (P.) & LEIGH FOSTER (S.) (eds.): Cruising the performative: interventions into the representation of ethnicity, nationality and sexuality. Bloomington, Indiana UP: 217-36.

DE SOYE (Y.) (workshop leader), 2001: Do animal shows devalue or strengthen the conservation message? In: Conservation through commerce. 3rd Int'l Zoo Mktg Conf.. Tenerife, Canary Islands, 31 May – 2 June 2001. Bern/Amsterdam, WAZA/EAZA: 98-9.

DUBOIS (C.), 2004: Utilisation de séances d'entraînement médical pour stimuler la communication avec le public (Otaries, Eléphants). [*Use of medical training sessions to stimulate communication with the public (sealions, elephants).*] ZooCom, Zoodysée Chizé, Oct. 2004.

EVANS (C.), 2010: After Tilly – what about zoos? Daily Camera, 7 Mar 2010.

http://www.dailycamera.com/ci_14521051#axzz0hTy8p6ar

GATES (L.J.) & ELLIS (J.A.), 1999 : The role of animal presentations in zoo education. Int. Zoo News 46(6) : 340-42.

GENSCH (W.), 1987: Erfahrungen mit Revierführungen durch Zootierpfleger im Zoo Dresden. [*Experiences with guided tours by keepers at Dresden Zoo.*] In: SCHWARZ (D.) (Hrsg.): Verhandlungsbericht zur Wissensch. Konf. zu Fragen der Zoopädagogik 1987 in Rostock. [*Proc., scientific conf. on topics in zoo educ., Rostock, 1987.*] Jena, Gustav Fischer: 59-60.

GIFFORD (T.) & SEVENICH (M.), 1990: Conservation: can we fit it in our show? Animal Keepers' Forum, May 1990 :

GORDON (D.G.) & YORK (R.K.), 1984: Succesful strategies for narrated underwater programs at the public aquarium. AAZPA 1984 Reg. Proc.: 211-15.

GOULD (N.), 2007: Editorial. Int. Zoo Yb. 54(8): 450.

GOUYGOU (F.), 1992: Manipulation pédagogique des reptiles à Reptiland 46600 Martel. [*Educational handling sessions of reptiles at Reptiland, Martel.*] In: PedagoZoo. Compte-rendu du coll. int'l sur la pédagogie et l'éduc. en

établissement zool., les 5 et 6 nov. 1992. [Proc. int'l symp. on educ. in zool. establishments, 5-6 Nov. 1992.] Lille, SNDPZ: 157-60.

HAASE (P.), 1992: Animal shows: how far can we go? We've gone this far in Copenhagen. IZE J. 25: 27-28.

HOPKINS (C.), 1992: Animal contact: dare we touch? IZE Journaal 25: 40-1.

HOST (B.), 2008: Conservation campaigning through animal training. IZE J. 44: 12-3.

IGNAUT (J.), 2001: Putting our guests "in touch" with the out-of-reach residents of a walk-through aviary. Animal Keepers' Forum 28(5): 190-2.

JOHANN (A.), 1995: Tiervorführungen im Zoo – Belehrung, Belustigung oder Beschäftigung? [Animal presentations at the zoo – education, fun or occupational therapy?] Zs. des Kölner Zoo: 125-37.

KNOTT (C.), 2002: Tierpfleger und Öffentlichkeit. [Animal keepers and public relations.] In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 207-18.

LEHMANN (A.), 1955: Tiere als Artisten. Eine kleine Kulturgeschichte der Tierdressur. [Animals as performers. A concise cultural history of animal training.] Wittenberg,

LOPEZ (S.), 2010: Where captives put on a show. The Los Angeles Times, Mar. 3, 2010.
<http://www.latimes.com/news/local/la-me-lopez3-2010mar03,0,4239226.full.column>

MAAS (K.), 2002: Keepertalk. [Keepers' talks.] In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 203-6.

MARCELLINI (D.), 1987: Contact animals: the medium is the message. IZE J. 18: 13-15.

MARTIN (S.), 1988: "Show" is no longer a four-letter word. AAZPA 1988 Ann. Proc.: 511-15.

MARTIN (S.), 1993: Animal shows: what's the message ? AAZPA Ann. Conf. Proc. 1993: 178-79.

MILLER (L.) & KUCZAJ (S.), 2009: Bottlenose dolphin education programs. Connect, Nov. 2009:

MULRONEY (T.), 1987: Maintaining animal integrity. In: Proc., 1st Int'l Children's Zoo Symp., July 1-4, 1987, Philadelphia Children's Zoo. Philadelphia, Philadelphia Zoo: 22-24.

NEEDHAM (H.), 1995: Using program evaluation to improve live interpretation. Paper, 1995 Visitor Studies Conf., St Paul, MN. Visitor Studies: Theory, Res. & Practice. Vol. 8. Jacksonville, VSA.

O'BRIEN (P.) & WHITE (S.), 1986: Getting a grip. Training volunteers for public animal presentations. AAZPA 1986 Reg. Proc.: 408-13.

PODHORSKA (E.), 2004: Zookeeper's specialist potential in public conservation education. IZE J. 40: 10-1.

RIEKE-MÜLLER (A.), 2002: Das zahme Wildtier – Repräsentant seiner Art und besserer Mensch? Der Zoologischer Garten als Lernort im 19. Jahrhundert. [Tamed (wild) animals – representatives of their species or better Human? Zoological gardens as places of learning in the 19th Century.] In: STIFTUNG DEUTSCHES HYGIENE-MUSEUM (Hrsg.): Mensch und Tier. Eine paradoxe Beziehung. [Human and animal. A paradoxical relationship.] Ostfildern-Ruit,

RISK (P.H.), 1982: The interpretive talk. In: SHARPE (G.W.) (ed.): Interpreting the environment. New York, Wiley & Sons:

ROSENFELD (S.), 1981: Zoo keepers: missing link to the public? IZE Newsletter 7: 16-19.

SEGAL (J.), 1984: Animal show survey results. AAZPA Ann. Conf. Proc.:

SEGER (J.), 1992: How far can we go? Animal shows and zoo education. IZE Newsletter 25: 70-75.

STANDFIELD (M.), 2002: The power of live presentations in comparison to other educational tools used in the zoo environment. *Thylacinus* 26(2): 8-10.

STINSON (J.), 1984: The keeper as an educational resource. *AAZPA 1984 Reg. Proc.*: 224-26.

TAYLOR (L.), 1992: The use of humor in zoological interpretation. In: NICHOLS (S.K.) (ed.): Patterns in practice: Selections, *J. of Museum Educ.*. Washington DC, Museum Educ. Roundtable.

VENANT (H.), 1992: Le spectacle de volerie: initiation à l'écologie pour tous. [*Flight shows: introducing ecology to a wide audience.*] In: PedagoZoo. Compte-rendu du coll. int'l sur la pédagogie et l'éduc. en établissement zool., les 5 et 6 nov. 1992. [*Proc. of the int'l symp. on educ. in zool. establishments, 5-6 Nov. 1992.*] Lille, SNDPZ: 137-43.

WEDL (M.) & KOTRSCHAL (K.), 2009: Social and individual components of animal contact in preschool children. *Anthrozoös* 22(4): 383-96.

WESTERHOF (M.) (workshop leader), 1999: Training animals and public perception. In: Marketing zoos beyond 2000 . 2nd Int'l Zoo Mktg Conf., Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 68.

24. ARTS IN ZOO/AQUARIUM EDUCATION – VISITOR STUDIES

FRANCIS (D.) & ESSON (M.), 2006: Zoo Theatre: the effectiveness of performance art in delivering multi-tiered conservation messages to mixed zoo audiences. IZE J. 42: 16-19.

PENN (L.), 2008: Zoo theater's influence on affect and cognition: a case study from the Central Park Zoo in New York. Zoo Biology 27(5): 412-28.

BACKGROUND & FURTHER READING: ARTS IN ZOO/AQUARIUM EDUCATION

JONES (D.), 2000: Museum theatre and evaluation: what we know and what there is to learn. 12th ann. VSA conf., Aug. 5-9, 2000, Boston/Cambridge. Abstract: <http://www.visitorstudiesarchives.org>

MINK (L.), 1992: Puppets are an interpretive resource. Case study. In : HAM (S.H.): Environmental interpretation. A practical guide for people with big ideas and small budgets. Golden, North American Press: 179-82.

NEEDHAM (H.), 1999: Evaluation of theatre: evaluation is a must. In: MALONEY (L.) & HUGHES (C.) (eds.), 1999: Case studies in museum, zoo and aquarium theatre. Washington DC, AAM: 87-99.

RENSEN (A.), 1996: Educatie met een theatraal tintje. [*Education with a theatrical tinge.*] De Harp 15(2): 14-17.

SEIFERT (S.), 1975: Zur musischen Bildung und Erziehung im Zoo. Tagungsbericht "Tiergärten und Jugend". [*On arts education at the Zoo. „Zoos and youth“ conference report.*] Milu 3: 646-47.

WINTER (R.), 2000: The evolution of living graphics: creating an informative, engaging visitor experience through theatrical interpretation. VSA Conf. 2000, Boston.

25. INTERPERSONAL COMMUNICATION, VISITOR CONVERSATIONS

CLAYTON (S.), FRASER (J.) & SAUNDERS (C.D.), 2009: Zoo experiences: conversations, connections, and concern for animals. *Zoo Biology* 28(5): 377-97.

HAGE (S.R.), 1990: An analysis of the verbal and postural communication of family visitors at the zoo. Summary of masters' thesis at the Univ. of Minnesota. *Visitor Behav.* 5(1): 7.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2d7-a_5730.pdf

PEACOCK (A.), 2006: What children talk about with their parents when visiting the Eden Project. In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-16.
http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

TUNNICLIFFE (S.D.), 1995: Zoo talk: the content of conversations of family visitor groups whilst looking at live animals. *AZA Ann. Conf. Proc.*, Chicago: 645-47.

TUNNICLIFFE (S.D.), 1995: The content of the conversations of primary school groups at London Zoo. *Int. Zoo News* 42(5): 272-79.

BACKGROUND & FURTHER READING: INTERPERSONAL COMMUNICATION, VISITOR CONVERSATIONS

ADAMS (G.D.), 1988: Understanding and influencing word-of-mouth. *Visitor Studies* 1(1): 51-9.

ALLEN (S.), 2002: Looking for learning in visitor talk: a methodological explanation. In: LEINHARDT (G.), CROWLEY (K.) & KNUTSON (K.) (eds.), 2002: Learning conversations in museums. New York, Erlbaum: 259-303.

ASH (D.), 2002: Negotiations of thematic conversations about biology. In: LEINHARDT (G.), CROWLEY (K.) & KNUTSON (K.) (eds.), 2002: Learning conversations in museums. New York, Erlbaum:

ASH (D.), CRAIN (R.), BRANDT (C.), LOOMIS (M.), WHEATON (M.) & BENNETT (C.), 2007: Talk, tools, and tensions: observing biological talk over time. *Int'l J. Sc. Educ.* 29: 1581-1602.

DIERKING (L.D.) & HOLLAND (D.), 1996: Getting inside visitors' heads: utilizing interpretive carts as a mechanism for analyzing visitor conversations. In: BITGOOD (S.C.), 1996: *Visitor Studies: Theory, Research, and Practice*. Selected papers, 1994 Visitor Studies Conf.. Vol. 7, Issue 1. Jacksonville, VSA: 19-25.

EMOND (A.-M.), 2007: A research methodology: the silent listener approach. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 2.
Abstract: <http://www.visitorstudiesarchives.org>

GAMMON (B.) & BURCH (A.), 2003: Indicators of dialogue. London, Science Museum.
http://www.danacentre.org.uk/documents/pdf/indicators_of_dialogue.pdf

GAMMON (B.), 2007: Learning to generate dialogue: theory, practice and evaluation. *Museums & Social Issues*, Fall 2007.

HENSEL (K.), 1987: Discourse at displays: group interaction at museum exhibits. *AAZPA Ann. Conf. Proc.*

LEINHARDT (G.), CROWLEY (K.) & KNUTSON (K.) (eds.), 2002: Learning conversations in museums. New York, Erlbaum. 480 pp.

LEINHARDT (G.) & KNUTSON (K.), 2004: Listening in on museum conversations. Walnut Creek, Altamira. 224 pp.

PSATHAS (G.), 1994: Conversation analysis. The study of talk in interaction. Thousand Oaks, Sage. 75 pp.

26. LONG-TERM IMPACT STUDIES

- **Long-term impact studies with zoo and aquarium visitors**

DAVEY (G.), 2007: An analysis of country, socio-economic and time factors on worldwide zoo attendance during a 40 year period. Int. Zoo Yb. 41: 217-25.

HOLZER (D.) & SCOTT (D.), 1997: The long-lasting effects of early zoo visits. Curator 40: 255-57.

ON-GOING OR UNPUBLISHED STUDIES :

FRASER (J.), 2003: Designing longitudinal learning to inform an entire institution. 16th ann. VSA conf., July 15-19, 2003, Columbus, OH. Abstract: <http://www.visitorstudiesarchives.org>

POLLOCK (W.), 2009: Impacts or contributions? Measuring impact: new lessons from around the world. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 28.
<http://www.ecsite-conference.net/content/user/File/programma.pdf>

POLLOCK (W.), CAVELL (S.), VALENTA (C.) & HONEYMAN (B.), 2009: Long-term educational impact. Abstracts. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 38.
<http://www.ecsite-conference.net/content/user/File/programma.pdf>

BACKGROUND & FURTHER READING: LONG-TERM IMPACT STUDIES

ANDERSON (D.), 2003: Visitors' long-term memories of World Expositions. Curator 46(4): 401-20.

ANDERSON (D.), STORKSDIECK (M.) & SPOCK (M.), 2007: Understanding the long-term impacts of museum experiences. In: FALK (J.), DIERKING (L.) & FOUTZ (S.) (eds.), 2007: In principle – in practice: museums as learning institutions. Langham, AltaMira: 197-215.

CHASTAIN (B.), 2005: The defining moment. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 61-5.

CHAWLA (L.), 1998: Significant life experiences revisited: a review of research on sources of environmental sensitivity. Env. Educ. Res. 4: 369-82.

GARNETT (?), 2002: The impact of science centers/museums on their surrounding communities. Summary report. Washington DC, ASTC. http://www.astc.org/resource/casde/imlpact_study02.pdf

KNAPP (D.) & YANG (L.), 2002: A phenomenological analysis of long-term recollections of an interpretive program. J. Interpretation Res. 7(2): 7-17.

SMITH (E.K.) & HAMILTON (S.L.), 2006: Brooklyn Botanic Garden's children's gardening program: a survey of alumni. In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-5.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

STEVENSON (J.), 1991: The long-term impact of interactive exhibits. Int'l J. Sci. Educ. 13: 521-31.

TANNER (T.), 1980: Significant life experiences: a new research area in environmental education. J. Env. Educ. 4(4): 399-417.

WELLS (N.M.) & LEKIES (K.S.), 2006: Nature and the life course: pathways from childhood nature experiences to adult environmentalism. *Child, Youth & Env.* 16: 1-24.

27. NON-COMPLIANT BEHAVIOR IN ZOOS AND AQUARIUMS

- **General : studies of non-compliant visitor behavior in zoos and aquariums**

BITGOOD (S.), BENEFIELD (D.) & LANDERS (A.), 1985: Zoo visitors: Can we make them behave ? Proc. of 1985 Meeting, Nashville, TN. Wheeling, AAZPA.

BITGOOD (S.), CARNES (J.) & THOMPSON (D.), 1988: Control of littering: a comparison of three approaches. *Visitor Behav.* 2(4): 7-8.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2j5-a_5730.pdf

CLARK (G.K.), 1960: Museum of Human Stupidity – a psychological document to vandalism in the zoo. *Int. Zoo Yb.* 1: 146-7.

FISCHVOIGT (G.), 1982: Beobachtungen über das Fehlverhalten von Besuchern des Frankfurter Zoologischen Gartens. [*Observations on non-compliant behaviour of visitors of Frankfurt Zoological Gardens.*] Mitteilungen aus dem Frankfurter Zoo 41-42: 17-24.

KRATOCHVIL (H.) & SCHWAMMER (H.), 1997: Reducing acoustic disturbances by aquarium visitors. *Zoo Biology* 16(4): 349-53.

KRUMBIEGEL (I.), 1960: Straftaten in Zoologischen Gärten. [*Criminal acts in zoological gardens.*] Archiven der Kriminologie 126: 61-69.

KRUMBIEGEL (I.), 1966: Straftaten in Zoologischen Gärten. Zweite Folge. [*Criminal acts in zoological gardens. Part two.*] Archiv f. Kriminologie 138(1/2): 25-35.

KRUMBIEGEL (I.), 1980: Zoo-Kriminalität. [*Zoo crime.*] Archiv f. Kriminologie 166: 65-82.

KUMARAGURUBARAN (M.), 1994: Engineering good behaviour in zoos. *Zoos' Print* 9(5): 36.

SIMON (E.), 1980: Visitors pose most danger, zoos say. *Business Insurance* 14(12), Mar. 24, 1980: 26-28.

THOMPSON (V.D.), 1984: Noncompliant behavior in zoo visitors. *Der Zool. Garten* (N.F.) 54(3): 177-90.

ON-GOING OR UNPUBLISHED STUDIES :

THOMPSON (V.D.), 1977: Negative behavior in the Zoo's visiting primate: *Homo sapiens*. Unpublished manuscript. San Diego, San Diego Zool. Soc..

BACKGROUND & FURTHER READING: NON-COMPLIANT BEHAVIOR

HARRISON (A.), 1982: Problems: vandalism and deprecative behavior. In: SHARPE (G.W.) (ed.): *Interpreting the environment*. New York, Wiley & Sons.

- **Feeding by visitors**

BALLANTYNE (R.) & HUGHES (K.), 2006: Using front-end evaluation to design and test persuasive bird feeding warning signs. *Tourism Mgmt* 27(2): 235-46.

BITGOOD (S.), 1991: The misconceptions of do-not-feed signs. *Visitor Behav.* 6(1): 12.

BITGOOD (S.), CARNES (G.), NABORS (A.) & PATTERSON (D.), 1988b: Control public feeding of zoo animals. *Visitor Behav.* 2(4): 6.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2j4-a_5730.pdf

WILSON (C.G.), 1988: Public feeding of animals. Results of a zoo survey. *Visitor Behav.* 2(4): 8.

ON-GOING OR UNPUBLISHED STUDIES :

SMITH (J.P.) et al, 1979: Report on visitor feeding: orang-utan study team. Unpublished manuscript. Tucson, Arizona State Univ..

BACKGROUND & FURTHER READING: FEEDING BY VISITORS

ORAMS (M.B.), 2002: Feeding wildlife as a tourism attraction: a review of issues and impacts. *Tourism Mgmt* 23(3): 281-93.

- **Prohibition signage: visitor studies**

BALLANTYNE (R.), 2004: Designing warning signs to prevent visitors feeding birds in picnic areas. 17th ann. VSA conf., Aug. 3-7, 2004, Albuquerque, NM.

Abstract: <http://www.visitorstudiesarchives.org>

BRAMLEY (F.), 1994: A lighter approach to warning labels: creating cooperation through humor. *Visitor Studies* 4: 60-65.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4n7-a_5730.pdf

BACKGROUND & FURTHER READING: PROHIBITION SIGNAGE

BRAMLEY (F.), 1990: Prohibition graphics: is there a better way to say “NO”? *AAZPA Reg. Conf. Proc.* :

WILLIAMS (T.), 1988: Why Johnny shoots stop signs. *Audubon* 90(5): 112-21.

- **Teasing, animal abuse**

KUMARAGURUBARAN (M.), 1992: A comparative study of teasing and teasers. Zoos' Print 7(9): 1-13.

KUMARAGURUBARAN (M.) & MARIMUTHU (R.), 1993: Controlling teasing behaviour with methods suggested by a recent study of visitor behaviour in two Tamil Nadu zoos. IZE J. 29: 92-96.

RAJENDRAN (S.), SASEENDRAN (P.C.) & CHITRA (R.), 2003: Ethology of teasing by visitors in the Zoological Garden, Thrissur. Zoos' Print 18(6): 15-16.

RAJU (R.) & VENUGOPAL (B.), 1994: Visitor behaviour (teasing at the Asiatic lion enclosure) in Mysore. Zoos' Print 9(1&2): 67-70.

SHANKAR (M.S.), VENKATESAN (P.), SANTHI (D.), SUCHITRA, JOHN (M.C.) & MANIMOZHI (A.), 1996: Provocation of animals by visitors at Arignar Anna Zoological Park. Zoos' Print 11(7): 21-22.

ON-GOING OR UNPUBLISHED STUDIES :

SHINDELL (S.) et al, 1981: Animal abuse at the zoo. Unpublished report. Tucson, Reid Park Zoo.

28. ETHICAL ASPECTS AND CRITICISM OF ZOOS AND AQUARIUMS (with reference to impact on visitors)

- **Ethical aspects: visitor studies**

COTTLE (L.), TAMIR (D.), HYSONI (M.), BÜHLER (D.) & LINDEMANN-MATTHIES (P.), 2010: Feeding live prey to zoo animals: response of zoo visitors in Switzerland. Zoo Biology 29(3): 344-350.

HEINE (J.): 1998: Visitor response to live food. AAZPA Proc. 1998: 44-45.

INGS (R.), WARAN (N.K.) & YOUNG (R.J.), 1997: Attitude of zoo visitors to the idea of feeding live prey to zoo animals. Zoo Biology 16(4): 343-47.

LEMMEN (W.), VAN DER HARST (T.), OPHORST (S.) & HUISMAN (T.), 2008: Attitude of the general public towards feeding live prey. In: FIDGETT (A.L.) & NOBLE (J.E.): 5th European Zoo Nutrition Conference, 24-27th Jan. 2008, Chester, UK. Abstract book. Chester, Chester Zoo/EAZA Nutrition Group: 33.

LEMMEN (W.), VAN DER HARST (T.), OPHORST (S.) & HUISMAN (T.), 2008: Chasing away visitors ? The attitude of the general public towards feeding vertebrate live prey. EAZA News Zoo Nutrition Issue 4: 24-25.

MENCH (J.A.) & KREGER (M.D.), 1995: Animal welfare and public perceptions associated with keeping wild animals in captivity. 1995 AZA Ann. Conf. Proc. : 376-83.

ON-GOING AND UNPUBLISHED STUDIES :

COLLATZ CHRISTENSEN (N.), 2009: Should we or shouldn't we? Evaluation: an overview. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 71.
<http://www.ecsite-conference.net/content/user/File/programma.pdf>

VAN DIEREN (W.), 1997: Binnen welke marges kunnen of moeten dierentuinen functioneren en kunnen die marges aansluiten bij het perspectief dat een bezoeker heeft van een dierentuin? [Within what margins can or should zoos function – and how do these margins relate to the visitor's perspective of zoos?] Abstract. 10de Harprij Congres, thema "Welzijn", Ouwehands Dierenpark Rhenen, 5 nov. 1997.

BACKGROUND & FURTHER READING: ETHICAL ASPECTS AND CRITICISM OF ZOOS AND AQUARIUMS (WITH REFERENCE TO IMPACT ON VISITORS) - GENERAL

ACAMPORA (R.R.), 1998: Extinction by exhibition: looking at and in the zoo. Human Ecology Review 5: 1-4.

ACAMPORA (R.), 2005: Zoos and eyes: contesting captivity and seeking successor practices. Society & Animals 13: 69-88.

http://webcache.googleusercontent.com/search?q=cache:http://www.animalsandsociety.org/assets/library/551_s1315.pdf

ACAMPORA (R.R.), 2006: Corporal compassion: animal ethics and philosophy of body. Pittsburgh, Univ. of Pittsburgh.

- ACAMPORA (R.R.) (ed.), 2010: Metamorphoses of the zoo: animal encounter after Noah. Plymouth, Lexington Books. 242 pp.
- ACAMPORA (R.R.), 2010: Off the Ark: restoring Biophilia. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo: animal encounter after Noah. Plymouth, Lexington Books: 1-9.
- AUSTERMÜHLE (S.), 1996: "Und hinter tausend Stäben keine Welt". Die Wahrheit über Tierhaltung im Zoo. ["No world behind a thousand bars." *The truth about keeping animals in zoos.*] Hamburg, Rasch & Röhrling. 372 pp.
- BARZDO (J.), 1982: The trouble with zoos. In: BARZDO (J.), BERGER (J.), RAWLENCE (C.) & ROBERTS (J.): Zoos. Four exhibitions at the Institute of Contemporary Arts. London, ICA: 19-23.
- BATTEN (P.), 1976: Living trophies. A shocking look at the conditions in America's zoos. New York, Thomas Crowell. 246 pp.
- BEKOFF (M.), 2007: Animals matter. A biologist explains why we should treat animals with compassion and respect. Boston/London, Shambhala. 202 pp.
- BEKOFF (M.), 2010: Compassionate conservation finally comes of age: killing in the name of conservation doesn't work. Ethics must be firmly implanted in conservation biology. Psychology Today, August 20, 2010.
<http://www.psychologytoday.com/blog/animal-emotions/201008/compassionate-conservation-finally-comes-age-killing-in-the-name-conserv>
- BIRCH (T.H.), 1990: The incarceration of wildness: wilderness areas as prisons. Env. Ethics 12: 3-26.
- BLAKELY (R.L.), 1983: The alternatives and public relations: surplus animal management: problems and options. AAZPA 1983 Ann. Conf. Proc.: 292-93.
- BLASZKIEWITZ (B.) & BUHRE (J.) (interview), 2008: Ein Zoo präsentiert seine Tiere – und keine Weltbilder. [A zoo presents its animals – not its world views.] Planet Interview, 12 September 2008. <http://www.planet-interview.de/bernhard-blaszkiewitz-12092008.html>
- BOSTOCK (S.), 1981: Zoo education and the ethics of keeping animals in captivity. IZE J. 6: 19-20.
- BOSTOCK (S.), 1992: Zoos and animal rights. IZE J. 25: 11-12.
- BOSTOCK (S.S.C.), 1993: Zoos and animal rights. The ethics of keeping animals in captivity. London, Routledge. 227 pp.
- BOUMA (H.), 1988: Ze zitten daar uitsluitend voor ons. [They are there for our benefit only.] Bull. Onderwijs Biologie 19(113): 83.
- BRADSHAW (G.A.), SMUTS (B.) & DURHAM (D.), 2010: Open door policy: Humanity's relinquishment of "Right to sight" and the emergence of feral culture. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounters after Noah. Plymouth, Lexington Books: 151-70.
- BRUYNINCKX (E.) & SCHRAM (H.), 1995: Dieren in gevangenschap: ethische aspecten. [Animals in captivity: ethical aspects.] Vrije Woord, juli 1995: 20-21.
- BURGHARDT (G.M.) & HERZOG (H.A.), 1989: Animals, evolution and ethics. In: HOAGE (R.) (ed.): Perceptions of animals in American culture. Washington DC, Smithsonian UP: 129-51.
- CHISZAR (D.), MURPHY (J.B.) & ILIFF (W.), 1990: For zoos. Psychol. Record 40(1): 3-13.
- DOL (M.), FENTENER VAN VLissingen (M.), KASANMOENTALIB (S.), VISSER (T.) & ZWART (H.), 1999 (eds.): Recognizing the intrinsic value of animals beyond animal welfare. Assen, Van Gorcum. 141 pp.
- DOLINS (F.L.), 1999: Attitudes to animals: views in animal welfare. Cambridge, Cambridge UP. 262 pp.
- DONAHUE (J.) & TRUMP (E.), 2006: The politics of zoos: exotic animals and their protectors. DeKalb, Northern

Illinois UP. 224 pp.

DUNAYER (J.), 2001: Animal equality: language and liberation. Derwood, Ryce.

DUNLAP (J.) & KELLERT (S.T.), 1995: Zoos and zoological parks. In: REICH (W.T.) (ed.): Encyclopedia of Bioethics. Rev. ed. Vol. 1. New York, Simon & Schuster: 184-87.

FRANKLIN (A.S.), TRANTER (B.K.) & WHITE (R.D.), 2001: Explaining support for animal rights: a comparison of two recent approaches to humans, nonhuman animals, and postmodernity. *Society & Animals* 9: 127-44.

HARAWAY (D.), 2008: When species meet. Minneapolis, Univ. of Minn. Press.

HEALEY (K.), 1992: Animal rights: issues for the Nineties. Wentworth Falls Healey, Spinney Press.

HENSON (N.), 1981: Getting educated at the zoo. *Int'l J. Study Animal Problems* 2(6): 282-91.

HILLENIUS (D.), 1976: Mens, dier, ethiek. [Human, animal, ethics.] In: VAN DOBBEN (W.H.) e.a.: Relaties tussen mens, dier en maatschappij. [Relationships between humans, animals and society.] Centrum voor Landbouwpublicaties en Landbouwdocumentatie: 124-37.

HUTCHINS (M.), SMITH (B.) & ALLARD (R.), 2003: In defense of zoos and aquariums: the ethical basis for keeping wild animals in captivity. *J. American Vet. Medical Assn.* 223(7): 958-66.

JAMIESON (D.), 1985: Against zoos. In: SINGER (P.) (ed.): In defense of animals. New York, Blackwell. 108-17. www.animal-rights-library.com/texts-m/jamieson01.htm.

JAMIESON (D.), 1995: Zoos revisited. In: NORTON (B.), HUTCHINS (M.), STEVENS (E.) & MAPLE (T.) (eds.): Ethics of the ark: Zoos, animal welfare, and wildlife conservation. Washington DC, Smithsonian Inst. Press: 52-66.

JORDAN (B.) & ORMROD (S.), 1978: The last great wild beast show: a discussion on the failure of British animal collections. London, Constable. 272 pp.

JUNIPER (P.), 1998 : Keepers versus the animal rights – how can we get the right message across to ensure that the public perceive us well? *Ratel* 25(6) : 224-26.

KING (F.W.), 1988: Animal rights: a growing moral dilemma. Which should take precedence – concern for an individual animal or for a species? *Animal Kingdom* Jan./Feb. 1988: 33-35.

LEE (K.), 2005: Zoos: a philosophical tour. Basingstoke/New York, Palgrave Macmillan. 174 pp.

LINK (T.), 1883: Zoological gardens, a critical essay. *American Naturalist* 17: 1225-29.

LUKE (B.), 1995: Taming ourselves or going feral? Toward a nonpatriarchal metaethic of animal liberation. In: ADAMS (C.J.) & DONOVAN (J.) (eds.): Animals and women: feminist theoretical explorations. Durham, Duke UP:

MALAMUD (R.), 1998: Reading zoos. Representations of animals and captivity. New York, New York UP. 378 pp.

MARGODT (K.), 2000: The welfare ark: suggestions for a renewed policy in zoos. Brussels, VUB UP. 158 pp.

MARGODT (K.), 2010: Zoos as welfare arks? Reflections on an ethical course for zoos. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington: 11-36.

MARGODT (K.) & BRAECKMAN (J.), 2001: Ethische beschouwingen bij de toekomst van dierentuinen. [Ethical reflections on the future of zoos.] In: CAZAUX (G.) (red.): Mensen en andere dieren: hun onderlinge relaties meervoudig bekijken. [Humans and other animals: a multi-faceted look at their mutual relationships.] Leuven, Garant: 181-98.

MCKENNA (V.), TRAVERS (W.) & WRAY (J.) (eds.), 1987: Beyond the bars. The zoo dilemma. Wellingborough/Rochester, Thorsons. 208 pp.

MIDGLEY (M.), 1999: Should we let them go? In: DOLINS (F.) (ed.): Attitudes to animals: views in animal welfare.

Cambridge, Cambridge UP: 152-63.

MILLS (B.), 2010: Television wildlife documentaries and animals' right to privacy. *Continuum: J. Media Cult. Studies* 24(2): 193. Abstract: <http://www.informaworld.com/smp/content~db=all?content=10.1080/10304310903362726>

NEYRINCK (R.), 1982: Natuureducatie, natuurbeleving, recreatie: zijn we wel op het goede pad? [*Nature education, experiencing nature, recreation: are we on the right track?*] *Mens & Vogel* 20(I): 55-7.

NIGHTINGALE (J.), 2010: The case for captive animals. *CNN Opinion*.

http://www.cnn.com/2010/OPINION/03/02/Nightingale.vancouver.whale/index.html?section=cnn_latest

PEDERSEN (H.), 2004: Schools, speciesism, and hidden curricula: the role of critical pedagogy for humane education futures. *J. of Futures Studies* 8(4): 1-13.

PETRINOVICH (L.), 1999: Darwinian dominion: animal welfare and human interests. Cambridge, MIT Press. 441 pp.

PETTO (A.J.) & RUSSELL (K.D.), 1999: Humane education: the role of animal-based learning. In: DOLINS (F.) (ed.): *Attitudes to animals: views in animal welfare*. Cambridge, Cambridge UP. 167-85.

PHILIPS (L.), s.d.: Umgang mit zookritischen Besucheräußerungen. [*Dealing with zoo criticism in visitor comments.*] In: Tagungsband, Zusammenkunft der Zoopädagogen und Zootierpfleger in Hagenbecks Tierpark. [*Conference abstracts, Meeting of zoo educators and animal keepers at Hagenbecks Tierpark.*] ..., VZP/BdZ:

PLUHAR (E.B.), 1995: Beyond prejudice: the moral significance of human and non-human animals. Durham, Duke UP.

RACHELS (J.), 1989: Why animals have a right to liberty. In: REGAN (T.) & SINGER (P.) (eds.): *Animal rights and human obligations*. Englewood Cliffs, Prentice-Hall: 128-29.

REGAN (T.), 1995: Are zoos morally defensible ? In: NORTON (B.G.), HUTCHINS (M.), STEVENS (E.F.) & MAPLE (T.L.) (eds.), 1995: *Ethics on the ark*. Washington DC, Smithsonian Inst.. 38-51.

REGAN (T.), 2004: Empty cages: facing the challenge of animal rights. Lanham, Rowman & Littlefield.

ROSEVEAR (M.) (workshop leader), 1999: Animal rights, welfare and lobbyist issues. In: *Marketing zoos beyond 2000 . 2nd Int'l Zoo Mktg Conf.*, Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 67.

RSPCA, 2006: Evaluation of the effectiveness of zoos in meeting conservation and education objectives. In: RSPCA: *The Welfare State: measuring animal welfare in the UK 2006*. Horsham, RSPCA: 95-98.

RUYSLINCK (W.), 1975: In naam van de beesten. [*In the name of animals.*] Brussel/Den Haag, Manteau. 224 pp.

SANNA (E.), 1976: Cet animal est fou. [*This animal is crazy.*] [*Transl. from Italian by M. Gauthier*]. Paris, Fayard. 230 pp.

SEGER (J.), 1993: Zoo signs and the protection of animals: provocation and reflection through actions. *IZE J.* 27: 31-35.

SCHÜRRER (M.), 1997: Zoogegner, eine Gefahr für die Zoopädagogik? [*Anti-zoo activists, a threat to zoo education?*] Begegnung Zoo, Sonderheft 1:

SIGNAL (T.D.) & TAYLOR (N.), 2006: Attitudes to animals in the animal protection community compared to a normative community sample. *Society & Animals* 14: 265-74.

SINGER (P.), 1976: Animal liberation. Towards an end to Man's inhumanity to animals. London, Cape. 285 pp.

VICTOR (S.), 2010: What should animal rights people think of zoos? www.opposingviews.com/users/animal-blawg

WEARING (S.) & JOBBERS (C.), 2010: Ecotourism and the commodification of wildlife: animal welfare and the ethics of zoos. In: In: FROST (W.) (ed.): *Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism*. Clevedon, Channel View Publications: 47-58.

29. GENERAL ZOO AND AQUARIUM INSTITUTIONAL IMPACT STUDIES

- **General**

BITGOOD (S.) & BENEFIELD (A.), 1987: Visitor behaviour: a comparison across zoos. Techn. report 8620. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

CHURCHMAN (D.), 1987: The educational impact of zoos on recreational visitors. AAZPA Ann. Conf. Proc., 1987.

OLUKOLE (T.O.) & GBADEBO (O.S.), 2008: Patterns of visits and impacts of zoo animals on visitors. Anatolia 19(2): 237-49. Abstract: <http://www.cabdirect.org/abstracts/20093060631.html>

VERNON (C.) & BOYLE (P.), 2008: Understanding the impact of a zoo or aquarium visit. Connect, April 2008: 6-9.

ON-GOING OR UNPUBLISHED STUDIES :

BRONNENKANT (K.), CHESSLER (M.), REINHARD (E.), WAGNER (K.F.) & YORK (P.), 2005: Understanding audiences, assesing impact: measuring mission success and learning outcomes at zoos and aquariums. 18th ann. VSA conf., Aug. 2-6, 2005, Philadelphia, PA. Abstract: <http://www.visitorstudiesarchives.org>

COSTA (C.B.), VALETTINI (B.), PALUMBO (M.) & TORRIGIANI (C.), 2009: The educational effectiveness of living museums. Genova, Acquario di Genova. Contact: Bruna Valettini, bvalettini@acquariodigenova.it

REIDL (L.), SIERRA (G.) & MENDIETA (R.) (ed.), 1998: El Zoológico de Chapultepec desde el punto de vista psicosocial. [*Chapultepec Zoo from a psycho-social viewpoint.*] Mexico City, Gobierno del Distrito Fed. y Univ. Nacional Autónoma de México.

BACKGROUND & FURTHER READING: INSTITUTIONAL IMPACT STUDIES

ANON., 2002: The impact of science centres on their visitors and communities. Foord for thought and discussion. ECSITE Newsletter 51: 10-11.

GUSSET (M.) & DICK (G.), 2010: The global reach of zoos and aquariums in visitor numbers and conservation expenditures. Zoo Biology 29: 1-4.

- **Asia**

ANON., 2000: Central Zoo Authority studies of social and educational impact of mini zoos and deer parks throughout India. Zoos' Print xv(2)

DAVEY (G.), 2006: Relationships between exhibit naturalism, animal visibility and visitor interest in a Chinese zoo. J. of Appl. Animal Behaviour Science 96: 93-102. Abstract: <http://www.journals.elsevierhealth.com/periodicals/applan/article/S0168-1591%2805%2900125-5/abstract>

DAVEY (G.) & HIGGINS (L.), 2005: Western visitor behaviour principles are applicable in Chinese zoos. Int. Zoo News 52(6): 340-345.

ISHIDA (O.), 1984: The results of a survey of Ueno Zoo visitors. Animals & Zoos 1984(3): 84-86.

NAMIKI (M.), 1999: Visitor's behavior, relation to exhibits. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 133-38.

ON-GOING OR UNPUBLISHED STUDIES :

DAVEY (G.), 2005: The influence of demographic, behavioural, socio-economic, and environmental design factors on visitor behaviour in Britain and China. PhD thesis. Bolton, Univ. of Bolton.

GRAETZ (M.) & CORDER (S.), 1998: The Night Safari four years after – a post occupancy review. Unpublished paper presented at the Paignton Zool. Gdns' Symp. on Zoo Design, 1998.

VENKATRAMAN (C.), 1988: A case study of Arignar Anna Zoological Park, Madras. MSc Diss.. Trichy, Bharathidasan Univ.

- Europe

- General

ANGELINI (S.), 2009: The educational impact of living museums. Presentation, 2009 EAZA Zoo Educators' Conf., Cologne, Mar. 2009. http://www.vzp.de/vortraege_EZE2009.html

BICKERT (I.) & MEIER (J.), 2005: Zooselbstverständnis und Kundenerwartungen – Resultate einer Besucherumfrage im Zoo Basel. [Zoo self-consciousness and customer expectations – results of a visitor survey at Basel Zoo.] Der Zool. Garten 75(3): 202-08.

ON-GOING OR UNPUBLISHED STUDIES :

BONNE (S.), 2004: Survey 2004. Bettembourg, Parc Merveilleux.
Contact Sylvie Bonne, zooschoul@parc-merveilleux.lu

BONNE (S.), 2004: Many W – questions for zoo education groups. Bettembourg, Parc Merveilleux.
Contact see above.

BONNE (S.), 2008 (research in progress): Your opinion is important. Bettembourg, Parc Merveilleux.
Contact see above.

BOSQ (M.-F.), 2004: The impact of La Cité des Sciences et de l'Industrie on its surroundings. TILE 2004 Maastricht.

HEMERT (T.), 2006: Effectiveness of informal education in Apenheul. Apeldoorn, Apenheul.
Contact Constanze Melicharek, c.melicharek@apenheul.nl

LANGE (J.), 1986: Ergebnisse einer Publikumsumfrage im Aquarium. [Results of a visitor survey in the aquarium.] Bongo 11: 109-14.

MÜLLER (P.), 1976: Eine aufschlußreiche Befragung unserer Zoobesucher. [A revealing survey of our zoo visitors.] Panthera 1976: 16-18.

PALS (R.), 2007: Kijken wordt beleven: belevingswaarde van attracties in Dierenpark Emmen. Onderzoeksopzet. [Watching becomes experiencing: experience value of attractions in Emmen Zoo. Research set-up.] Groningen, RU Groningen.

REICHLER (S.) & KAMELA (M.), 1998: Image der Zoo Duisburg AG – Besucherbefragung 1998. [Image of Duisburg zoo – 1998 visitor survey.]

ROUSS (N.), 2004: Research about current education and possibilities in Plaswijckpark. Rotterdam, Plaswijckpark.

SCHOCH (P.), 1997: Besucherbefragung 1997. [Visitor survey 1997.] Basel, Zolli Basel.

ŠKORPÍK (M.), 2003: Analysis of the attendance of Ohrada Zoo Hluboká nad Vltavou. Graduation thesis. České Budějovice, Univ. of South Bohemia, Pedagogical Faculty. Contact: Roman Koss, koss@zoo-ohrada.cz

SZABON (M.), 2008: Survey of visitor satisfaction in Budapest Zoo and Botanical Garden. Budapest, Budapest Zoo. Contact: M. Szabon, szabon@zoobudapest.com

TIERGARTEN NÜRNBERG, 2004-2006: Interview. Nürnberg, Tiergarten Nürnberg.
Contact Lorenzo von Fersen, lvfersen@odn.de

WIEGERS (E.), 2005: Research about effectiveness of education in Apenheul. Apeldoorn, Apenheul. Contact Constanze Melicharek, c.melicharek@apenheul.nl

WIES (H.), 1993: Besucherstudien im Tierpark Rheine. [Visitor studies at Rheine Zoo.] Münster, Univ. Münster.

BACKGROUND & FURTHER READING: INSTITUTIONAL IMPACT - EUROPE

BOUMA (H.), 1982: In Artis beleefde ik niets. [At Artis zoo I experienced nothing.] Trouw, 20 feb. 1982.

VAN DEN BRINK (J.), 1982: Dierentuin niet uit machtswellust. [Zoo not out of perverted exercise.] Trouw, 5 maart 1982.

o United Kingdom

BALMFORD (A.), LEADER-WILLIAMS (N.), MACE (G.M.), MANICA (A.), WALTER (O.), WEST (C.) & ZIMMERMANN (A.), 2007: Message received ? Quantifying the impact of informal conservation education on adults visiting UK zoos. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.A.) & WEST (C.) (eds.): Zoos in the 21st Century. Catalysts for conservation ? Cambridge, Cambridge UP: 120-36.

BROAD (G.), 1996: Visitor profile and evaluation of informal education at Jersey Zoo. *Dodo* 32: 166-92.

BROAD (G.), 1999: Visitor observations at Jersey Zoo. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 59-63.

MATTHEWS (G.V.T.), 1971: A visitor survey at Slimbridge. *Wildfowl* 22: 126-32.

ON-GOING OR UNPUBLISHED STUDIES :

BARNETT (L.), KNIGHT (R.) & DAY (G.), 2007: Isle of Wight Zoo questionnaire results and feedback. Sandown, Isle of Wight Zoo. Contact education@isleofwightzoo.com

BRACROFT (L.), 2006: Investigating the educational impact of Newquay Zoo. Newquay, Newquay Zoo. Contact amy.plowman@paigntonzoo.org.uk

BRAINE (K.), 1998: Visitor studies at Paignton Zoo: effectiveness of various zoo interpretation material. Paignton, Paignton Zoo. Contact see above.

CALDERGLEN COUNTRY PARK, 1987: Visitor survey 1986-1987. Glasgow, East Kilbride District Council/Centre for Land Mgmt Systems, Strathclyde Univ..

DOWNHAM (D.), 2008: A study to investigate which media is most effective at conveying information about zoo animal welfare topics to zoo visitors and the general public. Paignton, Paignton Zoo. Contact see above.

HALL (C.), 1999: An appraisal of the visitor profiles and behavioural characteristics at Paignton Zoo, South Devon. Paignton, Paignton Zoo. Contact see above.

KNOWSLEY SAFARI PARK, 2004: Education visits survey 2004. Knowsley, Knowsley Safari Park. Contact education@knowsley.com

KNOWSLEY SAFARI PARK, 2006: Education visits survey 2006. Knowsley, Knowsley Safari Park. Contact see above.

KNOWSLEY SAFARI PARK, 2008: Education visits survey 2008. Knowsley, Knowsley Safari Park. Contact see above.

PLOWMAN (A.), EDWARDS (W.) & CHAVNER (M.), 2009: Evaluation of new exhibits at Living Coasts: visitor enjoyment, learning and perceptions. Paignton, Living Coasts. Contact amy.plowman@paigntonzoo.org.uk

SHOBROOK (H.), 2001: A preliminary study into the effectiveness of informal education material at Paignton Zoo. Paignton, Paignton Zoo. Contact see above.

- **North America**

ADELMAN (L.M.), FALK (J.H.) & JAMES (S.), 2000: Assessing the National Aquarium in Baltimore's impact on visitors' conservation knowledge, attitudes and behaviors. *Curator* 43: 33-61.

AMERICAN ASSOCIATION OF ZOOS AND AQUARIUMS, 1999: The collective impact of America's zoos and aquariums. Silver Springs, AZA.

BRENNAN (T.), 1979: Reaching the Brookfield Zoo visitor. *Brookfield Bison* 2(3): 1-8.

BUTLER (S.), 2000: AZA Collective Impact Study. www.aza.org/dept/dmd/tourism/report.htm

FALK (J.H.), REINHARD (E.M.), VERNON (C.L.), BRONNENKANT (K.), HEIMLICH (J.E.) & DEANS (N.L.), 2007: Why zoos & aquariums matter: assessing the impact of a visit to zoo or aquarium. Silver Spring, AZA. 24 pp. http://www.aza.org/ConEd/Documents/Why_Zoos_Matter.pdf

FALK (J.), 2008: Impact sightings. Impact of a visit to a zoo or aquarium. BriefCAISE, May 2008

FRASER (J.) & SICKLER (J.), 2009: Measuring the cultural impact of zoos and aquariums. *Int. Zoo Yb.* 43: 103-12.

FRERKING (D.), 1982: Observations of non-technical nomenclature and information as demonstrated by *Homo sapiens ssp. zoo visitori*. *Kansas City Zoo News*, Summer 1982: 16.

KELLERT (S.R.), 1979: Zoological parks in American society. *AAZPA Ann. Conf. Proc.* 1979: 88-126.

MARINO (L.), LILIENFELD (S.O.), MALAMUD (R.), NOBIS (N.) & BROGLIO (R.), 2010: Do zoos and aquariums promote attitude change in visitors? A critical evaluation of the American Zoo and Aquarium study. *Society & Animals* 18: 126-38.

MARTIN (J.) & O'REILLY (J.), 1987: Research and design at the Reid Park Zoo. Technical report no. 87-15. Jacksonville, Psychology Inst., Jacksonville State Univ. & Visitor Behav. 2(1): 7. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2m6-a_5730.pdf

MOTT (B.) & BOYLE (P.), 2000: Aquariums, zoos and science museums to explore new ways to increase understanding of the oceans: a report on the Ocean Project and its recent national survey. *Endangered Species Update* 17: 59-62.

SERRELL (B.), 1977: Survey of visitor attitude and awareness at an aquarium. *Curator* 20(1): 48-52.

WAGNER (R.), 1988: Highlights of the Hill and Knowlton surveys. *AAZPA Newsletter* 29(1): 4-7.

WHITE (J.), 2009: California Academy of Sciences. Review of an exhibition.
http://www.exhibitfiles.org/california_academy_of_sciences

WOLF (R.L.) & TYMITZ (B.L.), 1979: "Do giraffes ever sit ?" A study of visitor perceptions at

the National Zoological Park, Smithsonian Institution. Washington DC, Smithsonian Inst. Office of Museum Programs. 56 pp.

ON-GOING OR UNPUBLISHED STUDIES :

BARLOW SURVEY, 1976: Awareness and attitude survey among visitors to the John G. Shedd Aquarium. Unpublished report.

BIRNEY (B.A.) & HEINRICH (C.), 1990: What zoos have to offer: our visitors' perspective. Brookfield, Chicago Zool. Soc..

DERWIN (C.), 1987a: The preliminary report of the monorail queue area. Unpublished. San Diego, San Diego Zoo.

DERWIN (C.), 1987b: The preliminary report of the monorail tour survey. Unpublished. San Diego, San Diego Zoo.

FIEDLER (F.E.) & WHEELER (W.A.), 1985: A survey of visitors to the Woodland Park Zoological Gardens. Seattle, Zool. Foundation of Woodland Park.

HEIMLICH (J.), BRONNENKANT (K.), WITGERT (N.) & FALK (J.H.), 2004: Measuring the learning outcomes of adult visitors to zoos and aquariums: confirmatory study. Techn. report. Bethesda, AZA.

HEIMLICH (J.E.), FALK (J.H.), BRONNENKANT (K.) & BARLAGE (J.), 2005: Measuring the learning outcomes of adult visitors to zoos and aquariums: Phase I techn. report. Annapolis/Bethesda, Inst. for Learning Innovation/AZA.

KING (J.), 1985: Studies and observations of zoo visitors'. Unpublished manuscript. Washington DC, Nat'l Zool. Park Office of Educ..

KUEHL (P.G.), 1976: An analysis of visitor socioeconomic, behavioral, and attitudinal characteristics at the National Zoological Park. Washington DC/Rockville, Nat'l Zool. Park/Westat. 34 pp. Unpublished.

LAPORTE (C.), 1972: Étude sur la clientele du Jardin zoologique de Québec, 1971. [*Customers' study of Quebec Zoo, 1971.*] Québec, Service de la Recherche, Min. du Tourisme, de la Chasse et de la Pêche, Gouv't du Québec. 305 pp.

PEOPLE, PLACES AND DESIGN RESEARCH, 1992: The educational value of a family visit to Marine World Africa USA. Northampton, People, Places & Design Research.

BACKGROUND & FURTHER READING: INSTITUTIONAL IMPACT – NORTH AMERICA

DAVIS (S.G.), 1997: Spectacular nature: corporate culture and the Sea World experience. Berkeley, Univ. of California Press.

TURNER (W.R.), 1986: A view of the American zoo visitor. IZE J. 15: 25-28.

- **Oceania**

BERI (V.), TRANENT (A.) & ABELSON (P.), 2010: The economical and social contribution of the zoological industry in Australia. Int. Zoo Yb. 44: 192-200.

CHURCHMAN (D.), 1987: Visitor behavior at Melbourne Zoo. AAZPA 1987 Ann. Proc..

ON-GOING OR UNPUBLISHED STUDIES :

HYDE (G.) & KING (B.) (eds.), 1987: A survey of visitor and community attitudes to the Melbourne Zoo. Tourism and Mktg Studies. Footscray, Footscray Inst. of Technology.

MOAR (K.), 1987: Determination of visitors' perceptions of the Adelaide Zoo. Honours thesis submitted for BSc, Dept of Psychology, Univ. of Adelaide. Univ. of Adelaide.

TOWNSEND (A.), 1988: Attitudes, perceptions and behaviour among visitors at the Adelaide Zoo. Honours thesis submitted for Bachelor of Arts. Adelaide, Dept of Psychology, Univ. of Adelaide.

30. HUMAN-ANIMAL INTERACTION IN ZOOS AND AQUARIUMS

- **Human-animal interaction: visitor studies**

ALTMAN (J.D.), 1998: Animal activity and visitor learning at the zoo. *Anthrozoös* 11: 12-21.

DAVEY (G.), 2005: The “visitor effect”. *Zoos’ Print J.* 20(6): 1900-1902.

<http://www.zoospriint.org/viewPDFFile.asp?fname=1900-1903.pdf&typ=jnl&Imonth=6&Iyear=2005>

DAVEY (G.) & HENZI (P.), 2004: Visitor circulation and animal welfare: an overlooked variable? *J. Appl. Animal Welfare Sci.* 7(4): 243-51.

FERNANDEZ (E.J.), TAMBORSKI (M.A.), PICKENS (S.R.) & TIMBERLAKE (W.), 2009: Animal-visitor interactions in the modern zoo: Conflicts and interventions. *Appl. Animal Behav. Sci.* 120: 1-8. <http://faculty.washington.edu/eduferna/Fernandezetal2009.pdf>

HOSEY (G.R.), 2000: Zoo animals and their human audiences: what is the visitor effect ? *Animal Welfare* 9: 343-57.

HOSEY (G.R.), 2008: A preliminary model of human-animal relationships in the zoo. *Appl. Animal Behav. Sci.* 109: 105-27.

JACKSON (D.M.), 1994: Animal activity and presence of docent interaction: visitor behavior at Zoo Atlanta. *Visitor Behav.* 9(1): 16.

KEANE (C.) & MARPLES (N.), 2003: The effects of zoo visitors on gorilla behaviour. In: GILBERT (T.C.) (ed.): *Proc. 5th Ann. Symp. Zoo Res.*, 7-8 July. Winchester, BIAZA: 144-54.

KREGER (M.) & MENCH (J.), 1995: Visitor-animal interactions at the zoo. *Anthrozoos* 18(3): 143-58.

KREGER (M.) & MENCH (J.), 1995: Visitor-animal interactions at the zoo: animal welfare. 1995 AZA Ann. Conf. Proc. : 310-15.

KUHAR (C.W.), 2008: Group differences in captive gorillas’ reaction to large crowds. *Appl. Animal Behav. Sci.* 110: 377-85.

LOTT (D.F.), 1988: Feeding wild animals: the urge, the interaction, and the consequences. *Anthrozoos* 2(4): 255-57.

MITCHELL (H.) & HOSEY (G.), 2005: Zoo Research Guidelines: Studies of the effects of human visitors on zoo animal behaviour. London, BIAZA. www.biaza.org.uk

POVEY (K.D.) & RIOS (J.), 2002: Using interpretive animals to deliver affective messages in zoos. *J. Interpretation Res.* 7: 19-28.

SHANKAR (M.S.), VENKATESAN (P.), SANTHI (D.), SUCHITRA (D.), JOHN (M.C.) & MANIMozhi (A.), 1996: Provocation of animals by visitors at Arignar Anna Zoological Park.

Zoos'Print 11(4): 21-22.

TEMBROCK (G.), 1982: Verhaltensbeziehungen zwischen Mensch und Tieren in Zoologischen Gärten. [*Behavioural relations between human and animals in zoological gardens.*] Der Zool. Garten N.F., 52, Sonderband: 48-58.

ON-GOING OR UNPUBLISHED STUDIES :

ALTMAN (J.D.), 1990: The effect of zoo animal activity on animal well-being, human learning and zoo animal-visitor interaction. Unpublished doctoral diss.. Philadelphia, Temple Univ.

BAZANT (C.) & TEUSCHL (Y.), 1992: The behaviour of petting zoo visitors. www.zoovienna.at/e_streichelz.html

BACKGROUND & FURTHER READING : HUMAN-ANIMAL INTERACTION

ACAMPORA (R.R.), 2010: Inventionist ethology: sustainable designs for reawakening human-animal interactivity. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 245-56.

ANDERSON (U.S.), BENNE (M.), BLOOMSMITH (M.) & MAPLE (T.), 2002: Retreat space and human visitor density moderate undesirable behaviour in petting zoo animals. J. of Appl. Animal Welfare Sc. 5: 125-37.

DORFMAN (L.), 2002: Interaction with wild animals: good or bad? Animal Keepers' Forum 29(12): 514-17.

EVANS (R.), 2010: Visitor-cued gorilla "tree climb behavior". Animal Keepers' Forum 37(2): 70-72.

- **Specific taxa**

- **General**

O'DONOVAN (D.), HINDLE (J.E.), MCKEOWN (S.) & O'DONOVAN (S.), 1993: Effects of visitors on the behaviour of female cheetahs *Acinonyx jubatus*. Int. Zoo Yb. 32: 238-44.

OWEN (C.), 2004: Do visitors affect the Asian short-clawed otter *Aonyx cinerea* in a captive environment ? In: Proc. 6th Ann. Symp. Zoo Res.: 202-11.

SELLINGER (R.L.) & HA (J.C.), 2005: The effects of visitor density and intensity on the behaviour of two captive jaguars (*Panthera onca*). J. Appl. Animal Welfare Sci. 8: 233-44.

ON-GOING OR UNPUBLISHED STUDIES :

DENS (I.), 2009: Observatiestudie bij Okapia johnstoni – invloed van bezoekers op het gedrag van de okapi. Niet gepubliceerde bachelorthesis. Sint-Niklaas, KaHoSL. 82 pp.

PIETERCIL (L.), VAN DER VELDEN (R.), STEVENS (J.) & VERVAECKE (H.), 2007: Behavioural observation of captive cheetah Group (*Acinonyx jubatus*): food and visitor effect. BIAZA Congress, 23-24 July 2007, Whipsnade UK.

○ **Primates**

BIRKE (L.), 2002: Effects of browse, human visitors and noise on the behaviour of captive orang utans. *Animal Welfare* 11: 189-202.

CHAMOVE (A.S), HOSEY (G.) & SCHAETZEL (P.), 1988: Visitors excite primates in zoos. *Zoo Biology* 7: 359-69.

COOK (S.) & HOSEY (G.), 1995: Interaction sequences between chimpanzees and human visitors at the zoo. *Zoo Biology* 14: 431-40.

DAVIS (N.), SCHAFFNER (C.M.) & SMITH (T.E.), 2005: Evidence that zoo visitors influence HPA activity in spider monkeys. *Appl. Animal Behav. Sci.* 90: 131-41.

HOSEY (G.R.) & DRUCK (P.L.), 1987: The influence of zoo visitors on the behaviour of captive primates. *Appl. Animal Behav. Sci.* 18: 19-29.

JONES (R.) & WEHNELT (S.), 2003: Two approaches to measure the effect of visitor numbers on orangutan welfare. In: JONES (R.), WEHNELT (S.) et al: Proc. 5th Ann. Symp. Zoo Res. Winchester, Marwell Zool. Park: 7-8.

LAMBETH (S.P.), BLOOMSMITH (M.A.) & ALFORD (P.L.), 1997: Effects of human activity on chimpanzee wounding. *Zoo Biology* 16(4): 327-33.

MALLAPUR (A.), SINHA (A.) & WARAN (N.), 2005: Influence of visitor presence on the behaviour of captive lion-tailed macaques (*Macaca silenus*) housed in Indian zoos. *Appl. Animal Behav. Sci.* 94: 341-52.

MITCHELL (G.), HERRING (F.) & OBRADOVICH (S.), 1992: Like threaten like in mangabeys and people. *Anthrozoös* 5: 106-12.

MITCHELL (G.), HERRING (F.), OBRADOVICH (S.), TROMBORG (C.), DOWD (B.), NEVILLE (L.) & FIELD (L.), 1991: Effects of visitors and cage changes on the behaviours of mangabeys. *Zoo Biology* 10: 417-23.

MITCHELL (G.), OBRADOVICH (S.D.), HERRING (F.H.), DOWD (B.) & TROMBORG (C.), 1991: Threats to observers, keepers, visitors, and others by zoo mangabeys (*Cercocebus galeritus chrysogaster*). *Primates* 32: 515-22.

MITCHELL (G.), TROMBORG (C.T.), KAUFMAN (J.), BARGABUS (S.), SIMONI (R.), GEISSLER (V.), 1992: More on the “influence” of zoo visitors on the behaviour of captive primates. *Appl. Animal Behav. Sci.* 35: 189-98.

PERRET (K.), PREUSCHOFT (H.) & PREUSCHOFT (S.), 1995: Einfluß von Zoobesuchern auf das Verhalten von Schimpansen (*Pan troglodytes*). [Influence of zoo visitors on the behaviour of chimpanzees (*Pan troglodytes*).] *Der Zool. Garten*:

SERVAIS (V.), 2010: Dialogues avec les singes: l’anthropomorphisme comme mode de relation dans les rencontres entre visiteurs et primates en zoo. In: JOULIAN (F.) (réd.): *Hommes et Primates en perspective*.

TODD (P.A.), MACDONALD (C.) & COLEMAN (D.), 2006: Visitor-associated variation in captive Diana monkey (*Cercopithecus diana diana*) behaviour. *Appl. Animal Behav. Sci.* 2006.

WELLS (D.L.), 2005: A note on the influence of visitors on the behaviour and welfare of zoo-housed gorillas. *Appl. Animal Behav. Sci.* 93: 13-17.

WOOD (W.), 1998: Interactions among environmental enrichment, viewing crowds, and zoo chimpanzees (*Pan troglodytes*). *Zoo Biology* 17(3): 211.

ON-GOING OR UNPUBLISHED STUDIES :

KENNIS (M.), VERBELEN (D.), STEVENS (J.) & VERVAECKE (H.), 2007: Behavioural observation of a captive chimpanzee group (*Pan troglodytes*): number of cages and visitor effect. BIAZA Congress, 23-24 July 2007, Whipsnade, UK.

FERNANDES (Â.), 2006: Interacção entre os primatas não humanas em cativeiro e os visitantes do Zoo Quinta de Santo Inácio. [Interaction between captive non-human primates and visitors of Quinta de Santo Inácio Zoo.] Relatório final de estagio. Dactiloescrito. Vila Real, Univ. de Trás-o-Montes e Alto Douro.

31. BIODIVERSITY AND CONSERVATION EDUCATION

- **Biodiversity and conservation education in zoos and aquariums - general: visitor studies**

BALLANTYNE (R.), PACKER (J.), HUGHES (K.) & DIERKING (L.), 2007: Conservation learning in wildlife tourism settings: lessons from research in zoos and aquariums. Env. Educ. Res. 13: 367-83.

BREISE (A.), 1999: Using evaluations and research to plan for conservation education. Ann. Conf. Proc., AZA.

HUGHES (L.) & WOOLLARD (S.), 2002: Fish 'n chimps: conservation education in action. Int. Zoo News 49(2): 67-72.

MILLER (B.), CONWAY (W.), READING (R.), WEMMER (C.), WILDT (D.), KLEIMAN (D.), MONFORT (S.), RABINOWITZ (A.), ARMSTRONG (B.) & HUTCHINS (M.), 2004: Evaluating the conservation mission of zoos, aquariums, botanical gardens, and natural history museums. Conservation Biology 18(1): 86-93.

OGDEN (J.), ROUTMAN (E.), VERNON (C.), WAGNER (K.), WINSTEIN (K.), FALK (J.), SAUNDERS (C.) & REINHARD (E.), 2004: Inspiring understanding, caring, and conservation action: do we or don't we? AZA Communiqué Dec 2004: 10-13.

READING (R.P.) & MILLER (B.J.), 2007: Attitudes and attitude change among zoo visitors. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.A.) & WEST (C.) (eds.): Zoos in the 21st century. Catalysts for conservation ? Cambridge, Cambridge UP: 63-91.

RHOADS (D.L.) & GOLDSWORTHY (R.J.), 1979: The effects of zoo environments on public attitudes towards endangered wildlife. Int'l J. Env. Studies 13: 283-87.

SMITH (L.) & BROAD (S.), 2008: Do zoo visitors attend to conservation messages? A case study of an elephant exhibit. Tourism Review Int'l 11(3): 225-35.

SMITH (L.) & BROAD (S.), 2008: Comparing zoos and the media as conservation educators. Visitor Studies 11(1): 16-25.

SMITH (L.D.G.), CURTIS (J.) & VAN DIJK (P.), 2010: What the zoo should ask: the visitor perspective on pro-wildlife behaviour attributes. Curator 53(3): 339-57.

SWANAGAN (J.S.), 2000: Factors influencing zoo visitors' conservation attitudes and behavior. J. Env. Educ. 31: 26-31.

TUNNICLIFFE (S.D.), 1994: Are zoo visitors interested in conservation? In: BOERSMA (K.K.K.) & VAN TROMMEL (J.) (eds.): 7th Int'l Symp. World Trends Sci. & Technology Educ.. Veldhoven, IOSTE: 869-80.

TURNER (W.R.), 1987: Observations on conservation and the zoo visitor. IZE J. 17: 29-32.

WAGNER (K.), CHESSLER (M.), YORK (P.) & RAYNOR (J.), 2009: Development and implementation of an evaluation strategy for measuring conservation outcomes. *Zoo Biology* 28(5): 473-87.

ON-GOING OR UNPUBLISHED STUDIES :

GLANVILLE (G.), 2007: Social geographies of conservation. An investigation into the human constructed spaces of zoos, visitor perceptions of conservation and human-nature relations. Paignton, Paignton Zoo.
Contact amy.plowman@paigntonzoo.org.uk

GREEN (S.), 2007: How do zoos educate? An evaluation of the communication methods used by zoos to educate their visitors about international conservation issues. Paignton, Paignton Zoo. Contact see above.

HUNT (G.), 1999: Out and about – *in situ* education for conservation. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 Sept., Copenhagen Zoo, Denmark. København, Zoo København: 31-36.

KERR (C.), 2004: Towards a framework for understanding conservation communications in zoos. ARAZPA Conf., Christchurch, New Zealand.

PEOPLE, PLACES AND DESIGN RESEARCH, 2000: Use and perceptions of the conservation choices computers. Amherst, People, Places & Design Res..

SAUNDERS (C.), BIRJULIN (A.), BACON (L.) & GIESEKE (T.), 1999: Can an exhibit affect visitor conservation behaviors? A study conducted at Brookfield Zoo. Poster, ann. conf. VSA, Chicago.
Abstract: <http://www.visitorstudiesarchives.org>

VERBEKE (M.), 2010: EUZoos-XXI: engaging the public in nature conservation. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 17.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: BIODIVERSITY AND CONSERVATION EDUCATION - GENERAL

ANON., 2010: Branding biodiversity. The new nature message. London, Futerra. 15 pp.
http://www.futerra.co.uk/downloads/Branding_Biodiversity.pdf

BAKER (A.), 2007: Animal ambassadors: an analysis of the effectiveness and conservation impact of *ex situ* breeding efforts. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.A.) & WEST (C.) (eds.): *Zoos in the 21st Century. Catalysts for conservation?* Cambridge, Cambridge UP: 139-154.

BARRY (S.L.), 1989: Conservation education: the struggle of Sisyphus. *IZE Newsletter* 21: 20-22.

BEEVER (E.), 2000: The roles of optimism. *Conservation Biology*, 14(3): 907-09.

BRAMLEY (F.), 1988: Graphics and the rainforest: the challenge of presenting a global message. AAZPA 1988 Ann. Proc.: 402-06.

BREWER (C.), 2001: Cultivating conservation literacy: “trickle-down” education is not enough. *Cons. Biol.* 15: 1203-05.

BUIJS (A.E.), FISCHER (A.), RINK (D.) & YOUNG (J.C.), 2008: Looking beyond superficial knowledge gaps: understanding public representations of biodiversity. *Int'l J. Biodiversity Sci. & Mgmt* 4(2): 65-80.

DAY (B.A.), 2002: Environmental communication takes on new tools: the case of biodiversity. *Appl. Env. Educ. & Communication* 1(2): 69-70.

- DEMROESE (M.C.) & STERLING (E.J.), 1999: Interpreting biodiversity – a manual for environmental educators in the tropics. New York, Center for Biodiversity and Conservation, AMNH.
- DICK (G.) & GUSSET (M.) (eds.), 2010: Building a future for wildlife: zoos and aquariums committed to biodiversity conservation. Gland, WAZA Executive Office. 215 pp.
- DONAHOE (S.), 1986: Developing the conservation ethic in zoo visitors. IZE J. 15: 43-45.
- DREYFUS (A.), WALS (A.E.J.) & VAN WEELIE (D.), 1999: Biodiversity as a postmodern theme for environmental education. Canadian J. Env. Educ. 4: 155-75.
- DURRELL (L.) & MALLINSON (J.), 1987: Reintroduction as a political and educational tool for conservation. Dodo 24: 6-19.
- EHRENFIELD (D.), 1988: Why put a value on biodiversity? In: WILSON (E.O.) (ed.): Biodiversity. Washington DC, Nat'l Acad. Press:
- FORD (T.), 1988: Motivating people for conservation. AAZPA 1988 Ann. Conf. Proc.: 11-13.
- GESER (S.), FOX (U.) & DICK (G.) (eds.), 2010: Biodiversity is life. Education manual. A guide for zoo and aquarium educators, teachers and environmentalists. A resource about biodiversity, in support of the International Year for Biodiversity, 2010 and beyond. Bern, WAZA/IZE. 20 pp.
<http://www.izea.net/education/yob-WAZA.IZE%20Biodiversity%20Manual.pdf>
- HAMILTON (G.) & PHELPS (G.R.), 1992: Zoos and conservation education. Int. Zoo Yb. 31: 97-98.
- HARCOURT (S.H.), PENNINGTON (H.) & WEBER (A.W.), 1986: Third World attitudes toward wildlife and conservation. IZE J. 16: 6-8.
- HATLEY (J.), 1989: Conservation education on the move. IZE Newsletter 21: 4-6.
- HATLEY (J.), 1990: Making conservation education relevant. In: SEGER (J.) & WITTE (G.R.) (eds.): Zoos towards the Year 2000. Proc. 2nd Eur. Zoo Educators' Conf.. Kassel: 106-14.
- HESSELINK (F.), GOLDSTEIN (W.), VAN KEMPEN (P.P.), GARNETT (T.) & DELA (J.), 2007: Communication, education and public awareness (CEPA). A toolkit for National Focal Points and NBSAP coordinators. Montreal, Secretariat of the Convention on Biological Diversity/IUCN. 308 pp.
- HOPPER (C.N.), 1996: Choosing your words: toward a language of respect in conservation education. AZA Ann. Conf. Proc. 1999: 126-139.
- JACOBSON (S.), 1999: Communications skills for conservation professionals. Washington DC, Island Press. 461 pp.
- JACOBSON (S.K.), MCDUFF (M.D.) & MONROE (M.C.), 2006: Conservation education and outreach techniques. Oxford, Oxford/New York, Oxford UP. 504 pp.
- KELLERT (S.), 1979: Public attitudes toward critical wildlife and natural habitat issues: Phase 1. Prepared for the US Dept of Commerce, Nat'l Techn. Information Service, Fish & Wildlife Service. Washington DC, Govt Printing Office.
- KLEIMAN (D.G.), READING (R.P.), MILLER (B.J.), CLARK (T.W.), SCOTT (J.M.), ROBINSON (J.), WALLACE (R.), CABIN (R.) & FELLMAN (F.), 2000: The importance of evaluation in conservation. Conservation Biology 14(2): 1-11.
- LOWRY (R.), 2009: Visitor based conservation campaigns at Zoos Victoria. IZE J. 45: 11-14.
- MARCELLINI (D.L.), 1986: The broader issues of conservation: can zoos meet the challenge? Introduction. IZE J. 15: 8-9.
- MAZUR (N.) & CLARK (T.), 2001: Zoos and conservation. Policy making and organizational challenges. Bull. Series Yale School of Forestry and Env. Studies 105: 185-201.

- OGDEN (J.) & REVARD (B.), 2004: Trends in conservation education. AZA Communiqué, Aug.: 18-20.
- PIES-SCHULZ-HOFEN (R.), 1997: Needs and possibilities for zoo-education in relation to conservation strategies. 5th EZE-Meeting, Prague 1995, Proc.: 44-50.
- PRESCOTT (J.), 1993: Zoological gardens and biodiversity: from animal displays to environmental action. Int. Zoo News 40(6): 21-26.
- RABB (G.B.), 1986: Facing up to conservation education. IZE Newsletter 15: 16-17.
- RABB (G.B.), 2004: The evolution of zoos from menageries to centres of conservation and caring. Curator 47(3): 237-46.
- RENSENBRINK (H.), 1981: Education and conservation in zoos: how to create hope in a bad situation. IZE J. 6: 8-13.
- RHOADES (D.), 1989: Piglet's higher purpose: protecting the Global Commons. IZE J. 21: 7-12.
- SILVOVSKY (K.), 2004: Avoiding ecophobia: redefining conservation messages for kids. IZE J. 40: 28-30.
- STEINER (A.), 2002: Zoos and aquariums of tomorrow: partners in communicating conservation. Scientific session. In: DOLLINGER (P.) (ed.): Proc. 57th Ann. Conf. 13-17 Aug. 2002, Tiergarten Schönbrunn, Vienna, Austria. Berne, WAZA: 118-20.
- TOMPSON (C.G.), 1989: Hope for the future: strategies for effective conservation education. Zoo Biology 8 (Supplement 1): 171-75.
- VICENTE (E.), THOMAS (J.), RYDIN (S.), AMUNDIN (M.), PILENGA (C.) & TERRY (A.), 2009: EuZooS-XXI. Engaging the public in nature conservation. Poster. EAZA 2009 Conf., Copenhagen.
- WALKER (S.), 1988: Conservation education in cultural context. IZE J. 19: 3-7.
- WALKER (S.), 1989: Communicating conservation in zoos with multilingual and largely illiterate populations in some Asian countries. IZE J. 21: 13-18.
- WALS (A.E.J.), 2001: Biodiversity as a bridge between nature conservation education and education for sustainability. Roots 23: 25-30.
- WALS (A.E.J.) & VAN WEELIE (D.), 1997: Environmental education and the learning of ill-defined concepts: the case of biodiversity. Southern African J. Env. Educ. 17: 4-12.
- WEMMER (C.) & KARANTH (U.), 2001: Attitudes and latitudes: observations and platitudes. In: CONWAY (W.G.), HUTCHINS (M.), SOUZA (M.), KAPETANAKOS (Y.) & PAUL (E.) (eds.): AZA field conservation resource guide. Atlanta, Zoo Atlanta: 208-18.
- WHITEHEAD (M.), 1990: Twelve things you probably did know about communicating conservation to zoo visitors – but we're going to tell you anyway. In: BLACKWELL (S.) (ed.): Zoos: future considerations. Bristol, ABWAK: 16-20.
- WHITEHEAD (M.), 1995: Saying it with genes, species and habitats: biodiversity education and the role of zoos. Biodiversity & Conservation 4: 664-70.
- WOOLLARD (S.P.), 2006: Tiger Tales – what story should we tell ? Ratel 33(2): 25-27.
- WHITE-MARCELLINI (J.), 1984: Conservation and the zoo visitor: a report on a workshop at the National Zoo. In: KING (J.) (ed.), 1984: Proc., 1984 Biennial Conf.. Newsletter IZE 13: 16-19.
- WORLD ASSOCIATION OF ZOOS AND AQUARIUMS, 2005: Building a future for wildlife – The World Zoo and Aquarium Conservation Strategy. Bern, WAZA. 72 pp.
- WORLD ASSOCIATION OF ZOOS AND AQUARIUMS, 2009: Turning the tide: a global aquarium strategy for conservation and sustainability. Bern, WAZA. 78 pp.

- **Biodiversity and conservation education in zoos and aquariums – institutional impact: visitor studies**

BIRNEY (B.A.), 1986: A comparative study of children's perceptions and knowledge of wildlife and conservation as they relate to field trip experiences at the Los Angeles County Museum of Natural History and the Los Angeles Zoo. Summary. AAZPA 1986 Ann. Conf. Proc..

KRAMER (T.), 1998: Naturschutzbildung im Tierpark – Einstellungen und Erwartungen der Besucher. [*Conservation education at the Animal Park – visitor attitudes and expectations.*] Begegnung Zoo 6: 18-19.

LEHNHARDT (K.), HAUCK (D.), WILSON (S.), SELLIN (R.), KUHAR (C.) & MILLER (L.), 2004: Assessment of the bushmeat message at Disney's Animal Kingdom. IZE J. 40: 22-25.

MAZUR (N.), 1993: Attitudes towards the role of city zoos in conservation: an Adelaide case study. IZE Newsletter 29: 26-29.

VERNON (C.), 2009: Mission accomplished? Measuring Monterey Bay Aquarium's role in inspiring ocean conservation. IZE J. 45: 42-46.

YALOWITZ (S.S.), 2004: Evaluating visitor conservation research at the Monterey Bay Aquarium. Curator 47: 283-98.

ON-GOING OR UNPUBLISHED STUDIES :

ADELMAN (L.), DIERKING (L.D.), LEHNHARDT (K.), MELLEN (J.), MILLER (L.) & OGDEN (J.), 2001: Studying visitors' perceptions and understanding of conservation at Disney's Animal Kingdom. 13th ann. VSA conf., July 31-Aug. 4, 2001, Orlando, FL. Abstract: <http://www.visitorstudiesarchives.org>

BULBECK (C.), 2010: Respectful stewardship of a hybrid nature: the role of concrete encounters. In: ACAMPORA (R.R.) (ed.): *Metamorphoses of the zoo. Animal encounters after Noah*. Plymouth, Lexington Books: 83-102.

CHICAGO ZOOLOGICAL SOCIETY & LINCOLN PARK ZOOLOGICAL SOCIETY, 1993: Conservation related perceptions, attitudes, and behavior of adult visitors and nonvisitors to Brookfield Zoo and Lincoln Park Zoo. Unpublished manuscript. Brookfield/Chicago, Chicago Zool. Soc./Lincoln Park Zool. Soc.

FERGUSON (A.), SAYRE RAMBERG (J.), KEVIN (S.) & BREISE (A.), 1999: Examining visitors' perceptions of conservation at the Monterey Bay Aquarium. VSA 1999 Ann. Conf. Abstract: <http://www.visitorstudiesarchives.org>

HAYWARD (J.), 1995: Conservation baseline: visitor research for the Monterey Bay Aquarium. Northampton, People, Places & Design Research.

MAZUR (N.), 1997: Contextualising the role of zoos in conservation: an Australian experience. Unpublished doctoral diss.. Adelaide, Univ. of Adelaide.

MELLEN (J.), 2003: U.S. perceptions about animal welfare, conservation, zoos, aquariums and AZA: a survey. Preliminary results. 2003 AZA Annual Conf., Columbus.

- **Biodiversity and conservation education in zoos and aquariums – target groups: visitor studies**

AIELLO (J.F.), 1987: Conservation education: just who is our audience? IZE Newsletter 17: 25-28.

BIRNEY (B.A.), 1986: A comparative study of children's perceptions and knowledge of wildlife and conservation as they relate to field trip experiences at the Los Angeles County Museum of Natural History and the Los Angeles Zoo. Summary. AAZPA 1986 Ann. Conf. Proc..

LINKE (S.) & WINTER (C.), 2010: Conservation, education or entertainment: what really matters to zoo visitors? In: In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 69-84.

MITTENTHAL (S.), 1986: High school students' ratings of the zoo's conservation role: zoo, school, and other influences. IZE J. 15: 46-47.

ON-GOING OR UNPUBLISHED STUDIES :

KRISTENSEN (J.), 2008: A perspective to children's informal learning about conservation in a zoo. Colchester, Colchester Zoo. Contact juliekristensen@colchester-zoo.co.uk

BACKGROUND & FURTHER READING: CONSERVATION PSYCHOLOGY - GENERAL

ADAMS (W.), AVELING (R.), BROCKINGTON (D.), DICKSON (B.), ELLIOTT (J.), HUTTON (J.) et al, 2004: Biodiversity conservation and the eradication of poverty. Science 306: 1146-48.

AGRbewAL (A.) & GIBSON (C.), 1999: Enchantment and disenchantment : the role of community in natural resource management. World Development 27: 629-49.

ASCH (J.) & SHORE (B.M.), 1975: Conservation behavior as the outcome to environmental education. J. Env. Educ. 6: 25-33.

BALMFORD (A.), 1999: (Less and less) great expectations. Oryx 33: 87-88.

BALMFORD (A.), CLEGG (L.), COULSON (T.) & TAYLOR (J.), 2002: Why conservationists should head Poke'mon. Science 295: 2367.

BEEVER (E.), 2000: The roles of optimism in conservation biology. Conservation Biology, 14(3): 907-09.

BEKOFF (M.), 2009: Expanding our compassion footprint: minding animals as we redecorate nature. Psychology Today 2009(6): www.psychologytoday.com/blog/animal-emotions/200906/expanding-our-compassion-footprint-minding-animals-we-redecorate-nature

BERGMAN (C.), 1999: In the absence of animals: power and impotence in our dealings with endangered animals. In: DOLINS (F.L.) (ed.): Attitudes to animals: views in animal welfare. Cambridge, Cambridge UP: 244-57.

BEXELL (S.M.), FENG (R.X.), ZHANG (Z.H.) & ESSON (M.), 2008: Conservation education and community pride. IZE J. 44: 8-11.

BROOK (A.T.), 2001: What is "conservation psychology"? Population & Env. Psych. Bull. 27(2): 1-2.

BROWNE (S.) & FOGES (R.), 2008: Is nothing sacred? Fauna & Flora 11: 25-27.

- CLAYTON (S.) & BROOKE (A.), 2005: Can psychology help save the world? A model for conservation psychology. *Analysis Social Issues & Public Policy* 5(1): 87-102.
- CLAYTON (S.) & MYERS (G.), 2009: Conservation psychology: understanding and promoting human care for nature. Oxford, Blackwell.
- COOPER (D.E.), 1999: Human sentiment and the future of wildlife. In: DOLINS (F.L.) (ed.): Attitudes to animals: views in animal welfare. Cambridge, Cambridge UP: 231-43.
- DINGFELDER (S.F.), 2009: Wild encounters. A central mission of zoos and aquariums is to educate visitors about conservation. Is the message getting through? *Monitor on Psychology* 40(10): 32.
<http://www.apa.org/monitor/2009/11/conservation.aspx>
- FAZIO (J.R.) & GILBERT (D.L.), 1981: Public relations and communications for natural resource managers. Dubuque, Kendall/Hunt. 436 pp.
- FORD (T.), 1988: Motivating people for conservation. *AAZPA Ann. Conf. Proc.*:
- FRICK (J.), KAISER (F.G.) & WILSON (M.), 2004: Environmental knowledge and conservation behaviour: exploring prevalence and structure in a representative sample. *Personal & Individual Differences* 37: 1597-1613.
- GALLUP ORGANIZATION HUNGARY, 2007: Attitudes of Europeans towards the issue of biodiversity. Analytical report. Flash Eurobarometer 219. Budapest/Brussels, Gallup Organization Hungary/DG Environment, Eur. Commission. 71 pp.
- GROFF (A.), LOCKHART (D.), OGDEN (J.) & DIERKING (L.D.), 2005: An exploratory investigation of the effect of working in an environmentally-themed facility on the conservation-related knowledge, attitudes and behavior of staff. *Env. Educ. Res.* 11(3): 371-87.
- GWYNNE (J.), 2007: Inspiration for conservation: moving audiences to care. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.A.) & WEST (C.) (eds.): Zoos in the 21st century. Catalysts for conservation ? Cambridge, Cambridge UP: 51-62.
- HANCE (J.), 2009: Language and conservation: why words matter. Mongabay.com, Oct. 28, 2009.
http://news.mongabay.com/2009/1028-hance_language.html
- HOLTORF (C.) & ORTMAN (O.), 2008: Endangerment and conservation ethos in natural and cultural heritage: the case of zoos and archaeological sites. *Int'l J. Heritage Studies* 14(1): 74-90.
Abstract: <http://www.informaworld.com/smpp/content~content=a787690275~db=all~order=page>
- KAISER (F.G.), HUBNER (G.) & BOGNER (F.X.), 2005: Contrasting the theory of planned behavior with the value-belief-norm model of explaining conservation behavior. *J. Appl. Soc. Psych.* 35(10): 3-12.
- KALS (E.), SCHUMACHER (D.) & MONTADA (L.), 1999: Emotional affinity toward nature as a motivational basis to protect nature. *Env. & Behav.* 31: 178-202.
- LITCHFIELD (C.) & FOSTER (W.), 2009: Conservation psychology & zoos. *IZE J.* 45: 6-10.
- MCKEOWN (S.), 2001: Communicating the conservation message through educational interpretation. In: Conservation through commerce. 3rd Int'l Zoo Mktg Conf.. Tenerife, Canary Islands, 31 May – 2 June 2001. Bern/Amsterdam, WAZA/EAZA: 61-63.
- MACKLIN (D.), 1990: Who's hijacking conservation? *New Scientist*, 8 Sep 1990.
- MCNEELY (J.), 2002: Threatened and threatening: our love-hate relationship with nature and its conservation. In: GLEICH (M.D.), MAXEINER (D.), MIERSCH (M.) & NICLAY (F.) (eds.): Life counts: cataloguing life on Earth. New York, Atlantic Monthly Press: 116-27.
- MONROE (M.C.), 2003: Two avenues for encouraging conservation behaviors. *Human Ecology Review* 10(2): 113-25.

- MYERS JR (O.E.), SAUNDERS (C.D.) & BEXELL (S.M.), 2009: Fostering empathy with wildlife: factors affecting free-choice learning for conservation concern and behavior. In: FALK (J.), HEIMLICH (J.) & FOUTZ (S.) (eds.): Free-choice learning for conservation concern and behavior. Lanham, AltaMira: 39-56.
- OPINION LEADER RESEARCH, 1997: Animals make the world go round: a national survey of young people's attitudes to animals and conservation. London, ZSL.
- PAPWORTH (S.K.), RIST (J.), COAD (L.) & MILNER-GULLAND (E.J.), 2009: Evidence for shifting baseline syndrome in conservation. Conservation Letters 2: 93-100.
- PERSANYI (M.), 2002: Good guys, bad guys and the conservation image of the zoo world. Scientific session. In: DOLLINGER (P.) (ed.): Proc. 56th Ann. Conf. 22-25 Oct. 2001 hosted by Perth Zoo. Berne, WAZA: 128-33.
- POSEY (D.A.) (ed.), 1999: Cultural and spiritual values of biodiversity. London, UNEP/Intermediate Technology Publications. 750 pp.
- RABB (G.B.), 2001: Caring – the essence of conservation. Biota 2001: 1.
- READING (R.P.), 2005: Is knowledge-provision enough? The relationship between values, attitudes and knowledge with respect to wildlife conservation. Living Forests 1: 19-22.
- REID (G.M.), 1999: Can zoos “sell” conservation? In: Marketing zoos beyond 2000 . 2nd Int'l Zoo Mktg Conf., Amsterdam, The Netherlands, 3-6 June 1999. Berne/Amsterdam, WAZA/EAZA: 11-19.
- ROE (D.), 2008: The origins and evolution of the conservation-poverty debate: a review of key literature, events and policy processes. Oryx 42(4): 491-503. Abstract:
<http://journals.cambridge.org/action/displayIssue?jid=ORX&decade=2000&volumeId=42&issueId=04&iid=2450644#>
- SAUNDERS (C.D.), 2003: The emerging field of conservation psychology. Human Ecology Review, 10(2): 137-53.
- SAUNDERS (C.D.), BROOK (A.T.) & MYERS (O.E.), 2006: Using psychology to save biodiversity and human well-being. Conservation Biology 20(3): 702-05.
- SAUNDERS (C.D.) & MYERS (G.), 2001: Using conservation biology as a model for thinking about conservation psychology. Population & Env. Psych. 27(2): 7-8.
- SEIDMAN (M.), 1992: Zoos and the psychology of extinction. Wild Earth, Winter 1992/93: 64-69.
- SMITH (C.), 1987: Trends of conservation – public perception and opportunites. AAZPA Ann. Conf. Proc.
- TARDONA (D.R.), 2002: Evolutionary anthropology and psychology of animal conservation. Animal Keeper's Forum 29(5): 214-19.
- TAYLOR (R.), 1994: The influence of a visit to a botanical garden on attitude and behavior towards nature conservation. Visitor Studies 4: 163-71.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4q1-a_5730.pdf
- TURVEY (S.), 2010: Biodiversity: out of sight, out of mind. <http://news.bbc.co.uk/2/hi/science/nature/8530965.stm>
- VINING (J.) & EBREO (A.), 2002: Emerging theoretical and methodological perspectives on conservation behavior. In: (R.O.) & CHURCHMAN (A.) (eds.): Handbook of environmental psychology. New York, Wiley & Sons: 541-58..
- WAYLEN (K.A.), MCGOWAN (P.J.K.), PAWI STUDY GROUP & MILNER-GULLAND (E.J.), 2009: Ecotourism positively affects awareness and attitudes but not conservation behaviours: a case study at Grande Riviere, Trinidad. Oryx 43(3): 343-51.
- WEILER (B.) & RICHINS (H.), 1995: Extreme, extravagant and elite: a profile of ecotourists on Earthwatch expeditions. Tourism Recreation Res. 20: 29-36.
- WILDER (L.) & WALPOLE (M.), 2008: Measuring social impacts in conservation: experience of using the Most Significant Change method. Oryx 42(4): 529-38. Abstract:

<http://journals.cambridge.org/action/displayIssue?jid=ORX&decade=2000&volumeId=42&issueId=04&iid=2450644#>

ZARADIC (P.), PERGAMS (O.) & KAREIVA (P.), 2009: The impact of nature experience on willingness to support conservation. PLoS ONE 4(10): <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fpone.0007367>

- **Behaviour change: visitor studies**

KRISHNAKUMAR (N.) & BASKAR (N.), 2000: Creating attitudinal and behavioural changes in zoo visitors. Zoos' Print 15(4): 23-24.

ON-GOING OR UNPUBLISHED STUDIES :

LOWRY (R.), 2010: Community conservation at Zoos Victoria – behavior change in practice. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 8.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: BEHAVIOUR CHANGE

AERTSEN (C.) et al, 2009: Designing change. Social marketing voor duurzaamheidstransities. Brussel, Change Designers. <http://www.designingchange.be/files/DesigningChange09.pdf>

AJZEN (I.), 1985: From intentions to actions: a theory of planned behaviour. In: KULHL (J.) & BECKMAN (J.) (eds.): Action-control: from cognitions to behaviour. Heidelberg, Springer: 11-39.

BETTINGHAUS (E.P.) & CODY (M.J.), 1994: Persuasive communication. 5th edn. New York, Wadsworth. 432 pp.

CHIN (R.) & BENNE (K.D.), 1985: General strategies for effective change in human systems. In: BENNIS (W.G.), BENNE (K.D.) & CHIN (R.) (eds.) : The planning of change. 4th ed. New York, Holt, Rinehart & Winston: 22-45.

DAY (B.), 2002: Time to focus on behavior change. Appl. Env. Educ. & Communication 1(4): 211-12.

DIERKING (L.D.), ADELMAN (M.), OGDEN (J.), LEHNHARDT (K.), MILLER (L.) & MELLEN (J.D.), 2004: Using a behavior change model to document the impact of visits to Disney's Animal Kingdom: a study investigating intended conservation action. Curator 47(3): 33-61.

IRVINE (K.), SAUNDERS (C.) & FOSTER (J.S.), 1996: Using evaluation to guide the development of behavior change programs. Visitor Studies 7: 47-56.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4h0-a_5730.pdf

MAIBACH (E.), 1993: Social marketing for the environment: using information campaigns to promote environmental awareness and behaviour change. Health Promotion Int'l 8: 209-24.

PARSONS (C.), 1991: An exhibit's goal is to change visitor behavior. True or false ? In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 17-20.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5v0-a_5730.pdf

STERLING (E.), LEE (J.) & WOOD (T.), 2007: Conservation education in zoos: an emphasis on behavioral change. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.A.) & WEST (C.) (eds.): Zoos in the 21st century. Catalysts for conservation ? Cambridge, Cambridge UP: 37-50.

WHIPPLE (K.), 2005: From intention to action: inspiring behavior change. The Interpreter 1(6) :

- **Ex-situ conservation programs**

READING (R.P.) & KELLERT (S.R.), 1993: Attitudes toward a proposed black-footed ferret (*Mustela nigripes*) reintroduction. *Conservation Biology* 7: 569-80.

ON-GOING AND UNPUBLISHED STUDIES:

MONKAU (M.) & SCHERMER (A.), 1989: De educatieve presentatie van fokprogramma's aan dierentuinbezoekers. [*The educational presentation of breeding programmes to zoo visitors.*] Verslag van een drie-maands doctoraalbijvak, vakgroep Didactiek van de Biologie, Vrije Univ. Amsterdam/Stichting Nat. Onderzoek Dierentuinen. Amsterdam, niet gepubliceerd. 39 pp.

- **In-situ and habitat conservation programs**

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1988: Retention of rain forest conservation messages: visitors' use of Brookfield Zoo's Tropic World brochure. Brookfield, Chicago Zool. Soc.

BACKGROUND & FURTHER READING: IN-SITU CONSERVATION PROGRAMS

BULBECK (C.), 2005: Facing the wild: ecotourism, conservation and animal encounters. London/Sterling, Earthscan. 312 pp.

HUTCHINS (M.), 1995: Zoos, ecotourism and conservation: a panel discussion. AZA Ann. Conf. Proc. 1995: 229-55.

JACOBSON (S.K.), 1991: Evaluation model for developing, implementing and assessing conservation education programs: examples from Belize and Costa Rica. Env. Mgmt 15(2): 143-50.

KUHAR (C.W.), BETTINGER (T.L.), LEHNHARDT (K.), TOWNSEND (S.) & COX (D.), 2007: Evaluating the impact of a conservation education program in the Kalinzu Forest Reserve, Uganda. IZE J. 43: 12-15.

MATOLA (S.), 1987: What do you mean, we shouldn't eat it anymore? AAZPA Ann. Conf. Proc., 1987.

- **Species conservation issues**

BITGOOD (S.), FORMWALT (D.), ZIMMERMAN (C.) & PATTERSON (D.), 1993: The Noah's Ark dilemma: zoo visitor's ratings of how much animals are worth saving. IZE J. 27: 41-43.

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1988b: A survey of visitors' attitudes towards conservation issues related to birds. Brookfield, Chicago Zool. Soc..

BIRNEY (B.A.) & HEINRICH (C.), 1991: The impact of Bird Discovery Point on visitors' attitudes toward bird conservation issues. Brookfield, Chicago Zool. Soc..

- **Zoo and aquarium conservation education programs: evaluation and visitor studies**

ANGULO (E.), DEVES (A.-L.), SAINT JALMES (M.) & COURCHAMP (F.), 2009: Fatal attraction: rare species in the spotlight. Proc. Royal Soc. <http://journals.royalsociety.org/content/17255g6758wl4602/>

BRIESE (A.), 1999: Using evaluations and research to plan for conservation education. AZA Ann. Conf. Proc. 1999: 91-95.

GUTIERREZ DE WHITE (T.) & JACOBSON (S.K.), 1994: Evaluating conservation education programs in a South American zoo. J. Env. Educ. 25(4): 18-22.

GUTIERREZ DE WHITE (T.) & JACOBSON (S.K.), 1994: Evaluating conservation education programs in a South American zoo. Visitor Studies 4: 207-10.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4q6-a_5730.pdf

KRUSE (C.K.) & CARD (J.A.), 2004: Effects of a conservation education camp on campers' self-reported knowledge, attitude, and behavior. J. Env. Educ. 35(4): 33-45.

MONROE (M.) & DEYOUNG (R.), 1993: Designing programs for changing behavior. AAZPA Ann. Conf. Proc. 1993: 180-87.

WINEMAN (J.), PIPER (C.) & MAPLE (T.L.), 1996: Zoos in transition: enriching conservation education for a new generation. Curator 39(2): 94-107.

ON-GOING OR UNPUBLISHED STUDIES :

AZA CONSERVATION EDUCATION COMMITTEE, 1998: AZA Conservation Education Committee Strategic Plan, 1998-2001. Unpublished. Silver Spring, AZA.

BINAZZI (R.), 2005: The CITES: a tool for biodiversity conservation. Pistoia, Zoo di Pistoia.
Contact francesca.bandoli@zoodipistoia.it

BACKGROUND & FURTHER READING: ZOO AND AQUARIUM CONSERVATION EDUCATION PROGRAMS

MONROE (M.) & DEYOUNG (R.), 1993: Designing programs for changing behavior. AAZPA Ann. Conf. Proc. 1993: 180-87.

WINEMAN (J.), PIPER (C.) & MAPLE (T.L.), 1996: Zoos in transition: enriching conservation education for a new generation. Curator 39(2): 94-107.

32. ZOO AND AQUARIUM EDUCATION PROGRAMMES

- **Zoo and aquarium education programmes: visitor studies and evaluation**

GRAYSON (P.), 1986: The importance/performance evaluation. IZE Newsletter 15: 29-32.

MITTENTHAL (S.), 1986: More effective science teaching using observational research at the zoo. IZE J. 16: 35-36.

MORTAN (S.), 2001: An interpretive program about sea otters at Monterey Bay Aquarium. Visitor Studies Today! '(1): 16-18.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6t6-a_5730.pdf

PIPER (J.B.), 1986: Mind-reading made easy: needs assessment evaluation. IZE Newsletter 15: 38-42.

TOTFIELD (S.), COLL (R.), VYLE (B.) & BOLSTAD (R.), 2003: Zoos as a source of free choice learning. Res. Sci. & Technolog. Educ. 21: 67-99.

WOOLLARD (S.P.), 1997: Getting the message across – time to evaluate “education” in zoos. Ratel 24(5): 165-68.

ON-GOING OR UNPUBLISHED STUDIES :

BETTINGER (T.), 2010: The power of partnerships: integrating science and education. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 2.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BYE (A.) & FOX (C.), 2010: Ten pain-free ways to evaluate your education programme. Poster. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 21.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

COLUMBUS ZOO BOARD OF TRUSTEES EDUCATION COMMITTEE, 1991: A study of the evolving perceptions of the Columbus Zoo visitors and the implications for zoo educators. Columbus, Columbus Zoo.

FOK (C.T.), 2010: Workplace visits to Ocean Park program. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 2.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

FRICKE (R.), OWENS (K.) & PARSONS (C.), 2005: ZATPAC: measuring the impact of teen programs in zoos and aquariums. 18th ann. VSA conf., Aug. 2-6, 2005, Philadelphia, PA. Abstract: <http://www.visitorstudiesarchives.org>

JACKSON (A.), 2006: Do children learn from the educational material provided at Newquay Zoo, Cornwall. Newquay, Newquay Zoo. Contact amy.plowman@paigntonzoo.org.uk

KAKULE MBONZO (P.), 2010: The Lola ya Bonobo education program. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 9.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

LIDINSKY (K.) & WILSON (L.), 2005: Large-scale public programs: what can they do for you? 18th ann. VSA conf., Aug. 2-6, 2005, Philadelphia, PA. Abstract: <http://www.visitorstudiesarchives.org>

LIPPI-HAUTIER (N.), 1977: La pédagogie dans les parcs zoologiques. [*Education in zoological gardens.*] Thèse pour le Doctorat Vétérinaire. Maisons-Alfort, Univ. de Paris-Val de Marne, Ecole Nat. Vét. d'Alfort/Fac. de Méd. de

Créteil. 59 pp.

MARSEILLE (M.), 2010: Screening education at the Dutch Zoo Association. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 8.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

NACZYK (G.) & KUSSOWSKA (E.), 2009: Research about effectiveness of toolkit using during zoo-lessons for primary schools children. Gdansk, Zoo Gdansk-Oliwa. Contact Maria Sarnecka, msarnecka@zoo.gd.pl

NAGAKURA (K.), 2010: Wildlife on your doorstep: open the door to the nature in front of you at the zoo! Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 9.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

PICKERING (A.), 1993 : Evaluation of the Zoo Education Service. Unpublished report to the Zool. Board of Victoria Education Service. Melbourne, Zool. Board of Victoria.

TRIEGLAFF (M.), 1991: Evaluation of on-site and outreach programs. Report to the Chicago Zool. Soc.. Brookfield, Chicago Zool. Soc..

VERBELEN (D.), 2008: Educatie in dierentuinen. Eindwerk tot het behalen van het diploma Bachelor Agro- en Biotechnologie. [Education in zoos. Bachelor's thesis in Agricultural and Biotechnology.] St-Niklaas, KaHoSL. 96 pp.

VERBELEN (D.), DE WOLF (E.), STEVENS (J.M.G.), VAN DER VELDE (R.) & VERVAECKE (H.), 2008: Education in zoos: perceptions of Belgian zoo visitors. Poster. 10th BIAZA Research Symp., 15-16 July 2009, The Deep, Hull, UK.

BACKGROUND & FURTHER READING: ZOO AND AQUARIUM EDUCATION - GENERAL

ANDERSEN (L.L.) et al, 1999: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 Sept., Copenhagen Zoo, Denmark. København, Zoo København. 203 pp.

BERKOVITS (A.), 1984: Evaluation: a WIZE investment. Wildlife Inquiry through Zoo Education – a retrospective on thorny issues. IZE J. 13: 62-65.

BOISARD (J.-J.), 1992: Les établissements zoologiques: de l'éducation "alibi" à la démarche pédagogique. [Zoological establishments: from education as an "alibi" to an educational approach.] In: PedagoZoo. Compte-rendu du coll. Internat. sur la pédagogie et l'éducation en établissement zoologique, les 5 et 6 nov. 1992. [Proc. of the int'l symp. on educ. in zool. establishments, 5-6 Nov. 1992.] Lille, SNDPZ: 33-61.

CHEEK (N.), 1976b: Some socio-psychological aspects of going to the zoo: implications for educational programming. AAZPA Reg. Proc. 1975-'76: 147-57.

FRIEDMAN (A.) (ed.), 2008: Framework for evaluating impacts of informal science education projects. Washington DC, CAISE. http://caise.insci.org/uploads/docs/Eval_Framework.pdf

GANSLOßER (U.), 2002: Zoopädagogik im 21. Jahrhundert – mehr als Schulklassen und Kindergruppen. [Zoo education in the 21st Century – more than school classes and children's groups.] In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 5-6..

GANSLOßER (U.), 2002 (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag. 264 pp.

HATLEY (J.), 1980: The educational role of zoos. Int. Zoo News 169 :

HATLEY (J.), 1992: Towards worldwide zoo education. IZE J. 25: 36-39.

HOVETTE (C.), 1982: Un parc zoologique peut-il être éducatif? [Can a zoo be educational?] Interzoo 4: 4-5.

MAGER (E.), 2001: Educatie, vandaag de dag. [Education today.] Zoomaar 38: 28-30.

McAULEY (S.), 1999: Changing time need changing ways. In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 Sept., Copenhagen Zoo, Denmark. København, Zoo København: 11-14.

MOHR (H.), 1975: Wie kann die pädagogische Arbeit im Zoo die Entwicklung und Aktivierung von Fähigkeiten unterstützen? [How can educational work in the zoo support the development and activation of skills?] Milu 3(6): 656-58.

MONROE (M.) & DE YOUNG (R.), 1993: Designing programs for changing behavior. AAZPA Ann. Conf. Proc. 1993: 180-87.

MORGAN (J.M.), 1992: A theoretical basis for evaluating wildlife-related education programs. American Biology Teacher 54: 153-57.

NOGGE (G.), 1989: Was ist Zoopädagogik? Ansichten und Absichten eines Zoodirektors. [What is zoo education? Views and intentions of a zoo director.] Zs. Kölner Zoo 32: 79-85.

NORRIS (K.) & JACOBSON (S.), 1998: Content analysis of tropical education programs: elements of success. J. Env. Educ. 30: 38-44.

PANDYA (M.), NARESHWAR (M.) & CHOUDHARY (M.), 2008: Master Education Plan for Indian zoos. New Delhi/Thaltej Tekra, Central Zoo Authority/Centre for Env. Educ.. 324 pp.

PANDYA (M.), NARESHWAR (M.) & CHOUDHARY (M.), 2008: Adding value to zoo visits. An ideas sourcebook for Master Education Plan. New Delhi/Thaltej Tekra, Central Zoo Authority/Centre for Env. Educ.. 107 pp.

PARSONS (C.), 2004: Let's evaluate programs. Visitor Studies Today! 7(2): 2.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6b0-a_5730.pdf

PUSCHMANN (W.), 1996: Zoopädagogik heißt Bildung und Aufklärung. [Zoo education means education and information.] Felis 15: 62-66.

ROBEYN (G.) & SCHRAM (H.), 1984: Educatief werk in dierentuinen. [Educational work in zoos.] CVN-krant 14(2): 1-32.

SALZERT (W.), 1997: Was wünscht sich der Zoodirektor von der Zoopädagogik? [What does a zoo director expect from zoo education?] Begegnung Zoo, Sonderheft 1: 38-40.

SCHWARZ (D.), 1987: Zoopädagogik – Teil der Kulturpädagogik. [Zoo education – part of cultural education.] In: SCHWARZ (D.) (Hrsg.): Verhandlungsbericht zur Wissenschaftlichen Konferenz zu Fragen der Zoopädagogik 1987 in Rostock. [Proc. of the scientific conf. on topics in zoo educ., Rostock, 1987.] Jena, Gustav Fischer: 5-8.

SEGER (J.), 1991: Was ist Zoopädagogik? Versuch einer Begriffsbestimmung durch funktionale Zielsetzungen. [What is zoo education? Attempt at a definition through functional objectives.] In: WITTE (G.) (Hrsg.): Zoo. Pädagogik. Unterricht 1. [Zoo. Education. Education 1.] Kassel: 8-21.

THOMSON (B.S.) & DIEM (J.J.), 1994: Fruit bats, cats, and naked mole rats: lifelong learning at the zoo. ERIC/CSMEE Digest, Sept. 94. 5 pp.
http://www.eric.ed.gov/ERICWebPortal/search/detailmini.jsp?_nfpb=true&_&ERICExtSearch_SearchValue_0=ED372966&ERICExtSearch_SearchType_0=no&accno=ED372966

TUNNICLIFFE (S.D.), 1992: Zoo education. Int. Zoo News 39(3): 15-22.

VAN DEN BERGH (W.), 1966: Zoos and education. Int. Zoo Yb. 6: 234-39.

WHITEHEAD (M.), 1995: Considering education. Ratel 22(2): 59-63.

WHOLEY (J.S.), HATRY (H.P.), NEWCOMER (K.E.), 2004: Handbook of practical program evaluation. 2nd edn.. San Francisco, Jossey-Bass.

WOOLLARD (S.), 1998a: Getting the message across – zoo education is not just for schools. Ratel 25(4): 125-28.

- WOOLLARD (S.), 1998b: The development of zoo education. *Int. Zoo News* 45: 422-26.
- WOOLLARD (S.), 1999: A review of zoo education in the United Kingdom and Ireland. *Int. Zoo News* 46(1): 20-24.
- ZYSKOWSKI (G.), 1983: A review of literature on the evaluation of museum programs. *Curator* 26(2): 121-28.

- **Docents/guides/explainers in zoos and aquariums: evaluation and visitor studies**

FLANDERS (M.P.) & FLANDERS (N.A.), 1976: Evaluating docent performance. Curator 19(3): 198-225.

BIRNEY (B.A.), 1982: Dosage versus distribution: The impact of docents on zoo visitors' acquisition of knowledge. AAZPA Conf. Proc..

HEIMLICH (J.E.) & MONY (P.R.S.), 2007: Talking to visitors: the role of docents in communicating conservation messages at zoos. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 13.

Abstract: <http://www.visitorstudiesarchives.org>

JACKSON (D.M.), 1994: Animal activity and presence of docent interaction: visitor behavior at Zoo Atlanta. Visitor Behav. 9(1): 16.

MONY (P.), 2008: Message communication through docent-visitor interactions at zoos: intentions, perceptions, and observations. VSA e-Newsletter, March 2008.

<http://www.visitorstudies.org/enewsletter,%20March%202008.htm#research>

ON-GOING OR UNPUBLISHED STUDIES :

DINGWALL (B.) & CULKIN (C.), 2009: Gorilla touch tables. Internship project. Toronto, Fleming College/Univ. of Toronto. Contact bonnie.dingwall@gmail.com

MONY (R.S.P.), 2007: An exploratory study of docents as a channel for institutional messages at freechoice conservation education settings. Unpublished doctoral diss.. Columbus, Ohio State Univ.

BACKGROUND & FURTHER READING: DOCENTS/GUIDES/EXPLAINERS

ALFONSINI (L.), 2001: All you need is... a "guide". Food for thought and discussion. ECSITE Newsletter 49: 10-11.

BARON (N.), 1989: Teaching docents to teach. Excerpts from a case study at the Vancouver Aquarium. AAZPA 1989 Reg. Proc.: 448-57.

FERTIG (B.), 1984: Evaluating docents and measuring the immeasurable. In: NICHOLS (S. (ed.): Museum education anthology: perspectives on informal learning, a decade of Roundtable reports. Washington DC, Museum Educ. Roundtable: 195-200.

HAM (S.H.) & WEILER (B.), 2006: Development of a research-based tool for evaluating interpretation. STCRC Technical Report. Brisbane, Sustainable Tourism Cooperative Research Centre.

HENSEL (K.A.) & KAFKA (M.), 1992: Student interpreters: narrowing the gap between visitor and exhibit. In: NICHOLS (S.K.) (ed.): Patterns in practice: Selections from the J. of Museum Educ.. Washington DC, Museum Educ. Roundtable : 8-11.

HOLMES (K.) & SMITH (K.A.), 2010: The value of zoo volunteer programmes. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View: 154-66.

REICHLER (S.), 2002: Der Einsatz von Volontären als effective Art der Kommunikation im Zoo. [Volunteers as effective communicators in the zoo.] In: GANSLOËR (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 183-93.

BACKGROUND & FURTHER READING : GUIDED TOURS

BALLOU (D.C.), 1988: Improving the Monorail Tour: an interpretive experience. AAZPA 1988 Ann. Proc.: 45-50.

MAAS (K.), 2002: Sonderführungen. [Special guided tours.] In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 195-202.

MENSCHING (A.) & STEEGHS (M.), 2003: Gästeführungen. [Guided tours for guests.] In: WOHLERS (L.) (Hrsg.): Methoden informeller Umweltbildung. Umweltbildung, Umweltkommunikation und Nachhaltigkeit. Band 13. [Methods of informal environmental education. Environmental education, environmental communication and sustainability. Volume 13.] Frankfurt, Peter Lang: 49-72.

33. ZOO AND AQUARIUM EXHIBIT OBSERVATION AND EVALUATION STUDIES

- **General**

ABRAHAMSON (D.), GENNARO (E.), HELLER (P.), 1983: Animal exhibits: a naturalistic study. *Museum Educ. Roundtable Reports* 8(2)

BITGOOD (S.C.), 1999: Zoo exhibit design: impact of setting factors on visitors. *Visitor Studies Today* 2(2): 1-5. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6x8-a_5730.pdf

BITGOOD (S.) & BENEFIELD (A.), 1986: Visitor reactions to similar exhibits across zoos. Technical report No. 86-20. Jacksonville, Psychology Inst., Jacksonville State Univ..

BITGOOD (S.), LEA (S.), ETHRIDGE (K.) & VAN GELDER (S.), 1999: What's good for the polar bear is also good for the visitor. In: *Current trends in audience research* 12: 1-7.

CHURCHMAN (D.) & MARCOULIDES (G.), 1993: Affective response to zoo exhibits. *IZE J.* 27: 36-40.

FERGUSON (S.) & GRIFFIN (D.R.), 2001: Evaluating exhibit impacts on visitors. *Proc. AAZPA:* 385-88.

MATTHES (C.), 2008: Das Besuchserlebnis im Zoo in Abhängigkeit von der Gestaltung der Anlagen. [*The visitor experience in the zoo in relation to exhibit design.*] Diplomarbeit. Dresden, Techn. Uni., Fak. Mathematik u. Naturwissenschaften, Fachrichtung Psychologie – Inst. f. Arbeits-, Organisations- u. Sozialpsychologie. 173 pp.

http://www.architekturpsychologie-dresden.de/ddarbeiten/matthes_zoo.pdf

RÖTTGER (H.), 2001: Mitten drin, Informationsvermittlung in begehbarer Tiergehegen. [*Right in the middle of it – interpretation in walk-through animal enclosures.*] *Begegnung Zoo* 12: 18.

ROSENFELD (S.) & TERKEL (A.S.), 1982: A naturalistic study of visitors at an interactive mini-zoo. *Curator* 25(3): 187-212.

ROUTMAN (E.) & KORN (R.), 1993: The Living World revisited: evaluation of high-tech exhibits at the Saint Louis Zoo. *Museumedia* 3(4): 2-5.

SHETTEL-NEUBER (J.), 1988: Second- and third-generation zoo exhibits: a comparison of visitor, staff and animal responses. *Env. & Behav.* 20(4): 452-73.

STOLBA (A.) & MÜLLERS (B.), 1990: Die Bedeutung von Tierart, Gehege und Verhalten für den Schauwert im Zoo. [*The importance of animal species, enclosure and behaviour for the show value at the zoo.*] *Der Zool. Garten N.F.* 60(6): 349-68.

ON-GOING OR UNPUBLISHED STUDIES :

BITGOOD (S.), ENGLAND (R.), LEWIS (D.), BENEFIELD (A.), PATTERSON (D.) & LANDERS (A.), 1985:

Visual satiation at the zoo: enough is enough ! Presented at the Ann. Meeting of the Southeastern Assn. for Behavior Analysis, Charleston, SC.

BITGOOD (S.), LEA (S.), ETHRIDGE (K.) & VAN GELDER (S.), 1999: What's good for the bear is also good for the visitor. 11th ann. Visitor Studies Conf., Aug. 3-7, 1999, Chicago, IL.

Abstract on <http://www.visitorstudiesarchives.org>

FINLAY (T.W.), 1986: The influence of zoo environments on perceptions of animals. Masters' thesis. Atlanta, Georgia Inst. of Technology. Summary in Visitor Behav. 5(1): 12.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2d5-a_5730.pdf

FRANCIS (D.), 2007: Visitor behaviour across a variety of exhibits at Chester Zoo, UK. Chester, Chester Zoo. Contact Andrew Moss, a.moss@chesterzoo.org

HUGHES (A.), 2010: The Nest Te Kōhangā: turning the work of the Zoo inside out. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 6.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

LI (I.), 2009: Visitors' experience to Ocean Park's new exhibit. 2009 SEAZA Ann. Conf., Seoul.

NAMIKI (M.), 2002: Understanding visitors' viewing experiences of zoo animal exhibits. Unpublished doctoral thesis. Tokyo, Ochanomizu Univ..

- **Aquarium exhibits**

BALLANTYNE (R.), 2004: Young students' conceptions of the marine environment and their role in the development of aquaria exhibits. *GeoJournal* 60: 159-63.

CALVERT (W.K.), 1996: Summative evaluation of the Shark Encounter exhibit, Sea World of California. *Visitor Studies* 8(2): 67-79.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4h2-a_5730.pdf

LIPSCOMB (F.), 1978: A method using visitor behavior to evaluate exhibits in an aquarium. Northwest Reg. AAZPA Conf., 1978.

SPOTTE (S.) & CLARK (P.), 2004: A knowledge-based survey of adult aquarium visitors. *Human Dimensions of Wildlife* 8: 65-74.

YALOWITZ (S.S.) & FERGUSON (A.), 2006: Sharks: Myth and Mystery Summative Evaluation. Monterey, Monterey Bay Aquarium. www.informalscience.org/evaluation/show/93

ZWINKELS (J.), OUDEGEEST (T.) & LATEVEER (M.), 2009: Using visitor observation to evaluate exhibits at the Rotterdam Zoo aquarium. *Visitor Studies* 12(1): 65-77.

ZWINKEL (J.), OUDEGEEST (T.) & LATEVEER (M.), 2009: Watching and counting. Visitor observations in Rotterdam Zoo's public aquarium have revealed intriguing insights into exhibit design. *EAZA News* 67: 10-11.

ON-GOING OR UNPUBLISHED STUDIES :

ANON., 2004: Sea Star Quest Summative report. Chicago, Shedd Aquarium.

ANON., 2005: Crabs Summative evaluation. Chicago, Shedd Aquarium.

AREITIO (P.), 2007: Preferences of visitors at L'Oceanogràfic: results and implications. Abstract. In: 25th meeting of the Eur. Union of Aquarium Curators. Sep. 29th-Oct. 3rd, 2007. Hosted by Haus der Natur – Salzburg, Austria. Salzburg, EUAC/Haus der Natur: 26.

BEAUMONT (L.), 2005: Summative evaluation of Wild Reef-Sharks at Shedd. Unpublished report for the John G. Shedd Aquarium, Chicago. Chicago, Shedd Aquarium.

BRISEÑO-GARZÓN (A.), 2006: Adult experiences from an aquarium visit: the on-site and longitudinal role of personal agendas and social interactions in family groups. 19th ann. VSA conf., July 25-29, 2006, Grand Rapids, MI. Abstract: <http://www.visitorstudiesarchives.org>

GOOS (R.), 2009: Bezoekersstudie Aquatopia. Hoe gedragen bezoekers zich in een publiek aquarium? Niet gepubliceerde bachelorthesis. [Aquatopia visitors' study. How do visitors behave in a public aquarium? Unpublished bachelor thesis.] Sint-Niklaas, KaHoSL. 104 pp.

HAYWARD (J.), SAYRE RAMBERG (J.) & YALOWITZ (S.S.), 2002: The family experience of Splash Zone, an aquarium exhibiton for kids. 14th ann. VSA conf., Aug. 13-17, 2002, Cody, WY.
Abstract: <http://www.visitorstudiesarchives.org>

JEFFERY (K.R.) & WANDERSEE (J.H.), 1996: Visitor understanding of interactive exhibits: a study of family groups in a public aquarium. Paper presented at the Ann. Meeting, Nat'l Assn. Res. Sci. Teaching, St. Louis. 14 pp.

KORN (R.) et al, 2003: Vanishing wildlife. A summative exhibition evaluation with an aquarium. Monterey/Alexandria, Monterey Bay Aquarium/Randi Korn & Associates. Unpublished.

LIDINSKY (K.), 2007: Comprehensive summative evaluation of Shedd Aquarium's special exhibits. In: BURTNYK (K.M.) (ed.): Abstracts, 20th Ann. VSA Conf., Ottawa, Ontario, Canada, July 17-21, 2007. Columbus, VSA: 13. Abstract: <http://www.visitorstudiesarchives.org>

TAYLOR (S.M.), 1996: Understanding processes of informal education: a naturalistic study of visitors to a public aquarium. Unpublished PhD thesis. Berkeley, Univ. of California, Berkeley.

THOMAS (K.), 2004: Visitor awareness of native species within Paignton Zoo, England. Paignton, Paignton Zoo. Contact amy.plowman@paigntonzoo.org.uk

WOLF (R.L.) & TYMITZ (B.), 1981: "Hey mom, that exhibit's alive". A study of visitor perceptions of the coral reef exhibit, Nat'l Museum of Natural History, Washington DC DC. Washington DC, Smithsonian Inst..

YALOWITZ (S.S.), 2002: Nearshore exhibits front-end study. Monterey, Monterey Bay Aquarium.

YALOWITZ (S.S.), 2003: Front-end evaluation in renovating an aquarium wing: multiple methods for multiple questions. 16th ann. VSA conf., July 15-19, 2003, Columbus, OH. Abstract: <http://www.visitorstudiesarchives.org>

YALOWITZ (S.S.), in process: Ocean's Edge summative evaluation. Monterey, Monterey Bay Aquarium.

BACKGROUND & FURTHER READING: AQUARIUM EXHIBITS

DOBSON (J.), 2010: Fun, fascination and fear: exploring the construction and consumption of aquarium shark exhibits. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 85-99

MAIGRET (J.), 1992: Les aquariums publics, outils pour l'éducation. [*Public aquariums as tools for education.*] In: PedagoZoo. Compte-rendu du colloque international sur la pédagogie et l'éducation en établissement zoologique, les 5 et 6 novembre 1992. [*Proc. of the int'l symp. on educ. in zool. establishments, 5-6 Nov. 1992.*] Lille, SNDPZ: 67-74.

• Aquatic exhibits

RIDGWAY (S.), LINGSTON & SMITH (E.), 2005: Visitor behavior in zoo exhibits with underwater viewing. *Visitor Studies Today* 8(3): 1-9.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5v8-a_5730.pdf; http://ag.arizona.edu/research/azalfalf/pdf_pubs/zoo_visitor_behavior.pdf

• Bird exhibits

BIRNEY (B.A.), 1992: The benefits of long-term evaluations of an interactive exhibit area at Brookfield Zoo. *Visitor Studies* 4(1): 234-39.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5c5-a_5730.pdf

DE AZEVEDO (C.S.), LIMA (M.B.), FAGGIOLI (A.B.) & MENEGAZZI (C.S.), 2003: Analysing visitor behaviour in the bird area of Belo Horizonte Zoo, Brazil. *Int. Zoo News* 50: 27-37.

MILAN (L.) & WOURMS (M.K.), 1993: The World of Birds at the Bronx Zoo/Wildlife Conservation Park: visitor expectations and experiences. *Int. Zoo Yb.* 32: 204-12.

O'REILLY (J.), SHETTEL-NEUBER (J.) & Vining (J.), 1981: The use of post-occupancy evaluations in an aviary: implications for a continuing assessment program in museums. Proc. 12th Env. Design Res. Assn. Conf., 1981: 318-25 & *Visitor Behav.* 2(1): 7.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2m6-a_5730.pdf

ON-GOING OR UNPUBLISHED STUDIES :

BIRNEY (B.A.), 1990c: The impact of Bird Discovery Point on visitors' knowledge of bird biology and behavior. Brookfield, Chicago Zool. Soc..

BIRNEY (B.A.) & HEINRICH (C.), 1991: The impact of Bird Discovery Point on visitors' attitudes toward bird conservation issues. Brookfield, Chicago Zool. Soc..

GREN (M.), 1999: Besucherverhalten im neuen Vogelhaus. [*Visitor behaviour in the new bird house.*] Praktikumsarbeit aus Ethologie am Inst. für Physiologie der Veterinärmed. Univ. Wien, Aug. 1999. Wien, Inst. für Physiologie der Veterinärmed. Univ. Wien. www.zoovienna.at/vogelbesuch.html

KWONG (D.), 1977: Crowned crane trail study. Washington DC, National Zoo, Office of Educ.-Information.. Unpublished manuscript.

O'REILLY (J.) & SHETTEL-NEUBER (J.), 1980: The Aviary: an evaluation of visitor usage. Unpublished report. Tucson, Arizona-Sonora Desert Museum.

WIRTH (A.), 2004: Visitors' behaviour: holding time and didactic (at penguin exhibit). Nr 183/89. Wien, Tiergarten Schönbrunn. Contact Claudia Kment, ckment@zoovienna.at

BACKGROUND & FURTHER READING: BIRD EXHIBITS

JOHANN (A.), 1991: Großvolieren und Tropenhallen – einige Bemerkungen über begehbarer Volieren. [*Large aviaries and tropical halls – some remarks on walk-through aviaries.*] Zeitschrift des Kölner Zoos 34(3): 105-15.

MULLER (K.A.), 1975: The thematic display as applied to bird exhibits. *Int. Zoo Yb.* 15:

SHAPLAND (A.) & VAN REYBROUCK (D.), 2008: Competing natural and historical heritage: the Penguin Pool at London Zoo. *Int'l J. Heritage Studies* 14(1): 10-29.

Abstract: <http://www.informaworld.com/smp/content~content=a787690510~db=all~order=page>

- **Children's zoos**

APEL (B.), 1977: Observations of children in the contact area (Streichelwiese) of the Zoological Gardens, Hannover. Newsletter IZE 1: 21-25.

NORMANDIA (S.), 1983: Exhibit effectiveness in the Children's Zoo. AAZPA Reg. Proc., 1983: 46-51.

NORMANDIA (S.), 1986: Children's zoo evaluation and design. AAZPA Ann. Conf. Proc..

TUNNICLIFFE (S.D.), 2002: Children's zoos – whose visit is it, anyway? Does it matter? Int. Zoo News 50(2): 97-100.

ON-GOING OR UNPUBLISHED STUDIES :

BAZANT (C.) & TEUSCHL (Y.), 1992: Untersuchung zum Verhalten der Besucher im Streichelzoo. [Research project into the behaviour of visitors at the petting zoo.] www.zoovienna.at/streichelz.html

HODGES (S.) & SCHULMAN (A.H.), 1978: Analysis of behavioral interactions in a children's zoo. Paper, Southern Psych. Assn., Atlanta, 1978.

MORRISON (L.), 2010: San Antonio Zoo's Tiny Tot Nature Spot. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 9.

Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

BACKGROUND & FURTHER READING: CHILDREN'S ZOOS

ACREDOLO (L.P.), 1976: Frames of reference used by children for orientation in unfamiliar spaces. In: MOORE (G.) & GOLLEDGE (R.) (eds.): Environmental knowing. Stroudsburg, Dowden, Hutchinson & Ross :

BROWN (R.A.), 1973: Why children's zoos? Int. Zoo Yb. 13: 258-61.

EVERLY (R.E.), 1975: Fun, fantasy and function in children's zoos. 1st Int'l Symp. Zoo Design & Construction. Paignton, Paignton Zoo :

HANSON (B.) & ALDRICH (P.), 1999: Growing together with nature: new approaches to meeting the needs of young children in zoos. In: PLOWMAN (A.B.) & STEVENS (P.M.C.) (eds.): Conservation centres for the new millennium: proceedings 5th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 97-100.

LATTIS (R.L.), 1987: New thoughts and new frontiers in children's zoo design and educational programs. In: Proceedings, 1st Int'l Children's Zoo Symp., July 1-4, 1987, The Philadelphia Children's Zoo. Philadelphia, Philadelphia Zoo: 143-51.

PAWLEY (R.), 1968: Children's zoos: whom are they reaching? Parks & Recreation III(11):

SCHIPPERS (H.L.) & MARGADANT-VAN ARCKEN (M.), 1987: Het grote kinderboerderijenboek. Relatie mens en dier. [The great book of children's farms. The human-animal relationship.] Lisse, Zuid Boekprodukties. 192 pp.

- **Education centres**

WAGNER (K.F.) & MASSEY (C.), 1991: Treehouse visitor research project. In: BITGOOD (S.), BENEFIELD (A.) & PATTERSON (D.) (eds.), 1991: Visitor studies: Theory, research, and practice. Vol. 3. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 270-77.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a5x7-a_5730.pdf

ON-GOING OR UNPUBLISHED STUDIES :

ANG (M.), 2010: Learning through play at Rainforest Kidzworld, Singapore Zoo. Abstracts, 2010 IZE Conf., Disney's Animal Kingdom: 1.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

HODGES (S.), 1978: A behavioral evaluation of Zoolab visitors. Unpublished report. Washington DC, Nat'l Zool. Park.

- **Immersion exhibits**

BITGOOD (S.), 1990: The role of simulated immersion in exhibition. Techn. report no. 90-20. Jacksonville, Jacksonville State Univ. Ctr for Social Design.

BITGOOD (S.), ELLINGSEN (E.) & PATTERSON (D.), 1990: Toward an objective description of the visitor immersion experience. *Visitor Behav.* 5(2): 11-14.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a2c4-a_5730.pdf

GILBERT (H.), 2002: Immersion exhibitions: what's the big deal? *Visitor Studies Today!* 5(3): 10-13. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6e0-a_5730.pdf

GYLLENHAAL (E.D.), 2002: Immersive exhibitions: a bibliography. *Visitor Studies Today!* 5(3): 13. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6e0-a_5730.pdf

JONES (J.) & WAGEMAN (S.), 2000: The promise of immersion environments. *Current Trends in Audience Res.* 13: 103-12.

MOSS (A.), FRANCIS (D.) & ESSON (M.), 2008: The relationship between viewing area size and visitor behavior in an immersive Asian elephant exhibit. *Visitor Studies* 11(1): 26-40.

OGDEN (J.), CAPANZANO (C.) & MAPLE (T.L.), 1994: Immersion exhibits: how are they proving as educational exhibits? 1994 AZA Ann. Conf. Proc.: 224-28.

OGDEN (J.), LINDBURG (D.) & MAPLE (T.), 1993: The effects of ecologically relevant sounds on zoo visitors. *Curator* 36(2): 147-56.

ROSS (S.R.) & GILLESPIE (K.L.), 2009: Influences on visitor behavior at a modern immersive zoo exhibit. *Zoo Biology* 28(5): 462-72.

BACKGROUND & FURTHER READING: IMMERSION EXHIBITS

ANDERSON (L.), 2002: Up-close & personal in an open range zoo – an immersing experience for zoo visitors. Scientific session. In: DOLLINGER (P.) (ed.): Proc. 56th Ann. Conf. 22-25 Oct. 2001, Perth Zoo. Berne, WAZA: 106-09.

COE (J.), 1994: Landscape immersion – origins and concepts in landscape immersion exhibits: how are they proving as educational settings ? AZA 1994 Conv. Proc..

HARVEY (M.), LOOMIS (R.), BELL (P.) & MARINO (M.), 1998: The influence of museum exhibit design on immersion and psychological flow. *Env. & Behav.* 30(5): 601-27.

JONES (G.), 1989: Beyond landscape immersion to cultural resonance: in the Thai Elephant Forest at Woodland Park Zoological Gardens. AAZPA 1989 Ann. Proc.: 408-13.

KORAN JR (J.J.), LEHMAN (J.R.), SHAFFER (L.D.) & KORAN (M.L.), 1983: The relative effects of pre- and postattention directing devices on learning from a “walk-through” museum exhibit. *J. Res. Sci. Teaching* 20(4): 341-46.

ROTHFELS (N.), 2002: Immersed with animals. In: ROTHFELS (N.) (ed.): *Representing animals*. Bloomington/Indianapolis, Indiana UP: 199-222.

ROTHFELS (N.), 2008: Die Revolution des Herrn Hagenbeck. [Mr Hagenbeck's revolution.] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [Man, animal and zoo. Schönbrunn zoo in international perspective from the 18th century to the present.]

Wien/Köln/Weimar, Böhlau: 203-24.

SCHROEDER (H.W.) & BROWN (T.C.), 1983: Alternative functional forms for an inventory-based landscape perception model. *J. Leisure Res.* 15(2): 156-63.

- **Horticulture, plants, botanical gardens**

ON-GOING OR UNPUBLISHED STUDIES

TURNER (R.G.), 1974: Plants in the zoo: their use and interpretation. Master's thesis. Ann Arbor, Univ. of Michigan.

BACKGROUND & FURTHER READING: HORTICULTURE, PLANTS, BOTANICAL GARDENS

ARNOTT (J.) & HAYES (D.), 2000: In search of the cute charismatic angiosperm. *AZA Communiqué* Oct. 2000: 10-55.

BALLANTYNE (R.), PACKER (J.) & HUGHES (K.), 2007: Environmental awareness, interests and motives of botanic gardens visitors: implications for interpretive practice. *Tourism Mgmt* 29: 439-44.

BRÄGGER (K.), 1974: Gedanken zur Gartengestaltung. [*Ideas on the landscaping of the gardens.*] In: GEIGY (R.), LANG (E.M.), WACKERNAGEL (H.), STUDER (P.) & BRÄGGER (K.): 100 Jahre Zoologischer Garten Basel 1874-1974. [*100 years of Basle Zoological Gardens 1874-1974.*] Basel, Helbing & Lichtenhahn: 83-93.

CONNELL (J.), 2004: The purest of human pleasures: the characteristics and motivations of garden visitors in Great Britain. *Tourism Mgmt* 25: 229-47.

EVANGELISTA (L.), 2004: Building an interest in plants and animals. *Roots* 1(2) (Botanic gardens and zoos: synergies for the future):

FURRY (L.), 2004: The REAL reason to visit the zoo. *Roots* 1(2) (Botanic gardens and zoos: synergies for the future):

HANCOCKS (D.), 1994: Zoological gardens, arboreta and botanical gardens: a trilogy of failure? *Proc. American Assn. of Botanical Gdns & Arboreta*. Washington DC, AABGA.

JACKSON (D.W.), 1996: Horticultural philosophies in zoo exhibit design. In: KLEIMAN (D.G.), ALLEN (M.E.), THOMPSON (K.V.) & LUMPKIN (S.) (eds.): *Wild mammals in captivity*. Chicago, Chicago UP. 175-79.

KLEMUN (M.), 2000: Botanische Gärten und Pflanzengeographie als Herrschaftsrepräsentation. [*Botanical gardens and plant geography as representation of domination.*] *Berichte zur Wissenschaftsgeschichte* 23: 330-46.

KNEEBONE (S.), 2005: A vital role for zoo educators in plant conservation. *IZE J.* 41: 22-25.

LASH (N.), 2001: Landscaping. In: BELL (C.E.) (ed.): *Encyclopedia of the world's zoos*. Vol. 3 G-P. Chicago/London, Fitroy Dearborn: 703-07.

MAUNDER (M.), 1990: Ecological displays: do botanic gardens need to bother? *Int. Zoo Yb.* 29: 22-27.

NEUGEBAUER (W.), 1983: Einige Bemerkungen über Botanik und Gartenbau in Zoologischen Gärten. [*Some remarks on botanical aspects and horticulture in zoological gardens.*] *Der Zool. Garten N.F.* 53(3/5): 265-68.

PRICE (S.F.), 1987: The case for one evaluation technique. *Public Garden* 2(3): 19-20.

SCHROEDER (H.W.), 1993: Preference for and meaning of arboretum landscapes. *Visitor Behav.* 8(1): 13-14.

TAYLOR (R.), 1994: The influence of a visit to a botanical garden on attitude and behavior towards nature conservation. *Visitor Studies* 4: 163-171.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4q1-a_5730.pdf

TUNNICLIFFE (S.D.), 2006: What do primary children say about plants as exhibits? In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-5.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

WAGNER (L.K.), 2006: Connecting people to plants: botanical messages that make a difference. In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gdns Conservation Int'l: 1-3.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

WANDERSEE (J.H.) & CLARY (R.M.), 2006: Advances in research towards a theory of plant blindness. In: The nature of success: Success for nature. Proc. 6th Int'l Congress Educ. Botanic Gdns, Oxford, UK. Richmond, Botanic Gardens Conservation Int'l: 1-5.

http://www.bgci.org/files/Worldwide/Education/Edu_congress_proceedings/success_for_nature_proceedings_part_1_v2.pdf

WESTHOFF (V.), 1983 : Man's attitude towards vegetation. In : HOLZNER (W.), WERGER (M.J.A.) & IKUSIMA (I.) (eds.) : Man's impact on vegetation. The Hague/Boston/London, W. Junk : 7-24.

WESTPHAL (L.M.), 1993: Plant communities/people communities. Visitor Behav. 8(1): 16.

WOURMS (M.K.), 1990: Zoo exhibits and the role of zoo horticulture. Int. Zoo Yb. 29: 3-5.

BACKGROUND & FURTHER READING: INSECT/INVERTEBRATE EXHIBITS

ANON., 2008: Research in a virtual butterfly garden. RU Groningen, Donald Smits Centrum voor Informatie Technologie. <http://www.rug.nl/cit/hpcv/nieuws/vlindertuin/?lang=en>

COLLINS (N.M.), 1991: Invertebrate displays in the zoos of the future. Int. Zoo News 230 :

ROSS (J.), 1981: The Insect World at the Cincinnati Zoo. Int. Zoo Yb. 21: 36-41.

WOOLLARD (S.P.), 1997: "Bug World" at Bristol Zoo. Int. Zoo News 44(6): 338-42.

YAJIMA (M.), 1996: The development of insectariums and their future. Int. Zoo News 43(7): 484-91.

- **Mammal exhibits**
 - **General**

BRIGHTON (J.), 2005: Trail of the Elephant: education, entertainment and enrichment at the Melbourne Zoo. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. oo Design. Paignton, Whitley Wildlife Conservation Trust: 1-5.

DA SILVA (M.A.M.) & DA SILVA (J.M.C.), 2007: A note on the relationships between visitor interest and characteristics of the mammal exhibits in Recife Zoo, Brazil. *Appl. Animal Behav. Sci.* 105: 223-26.

DAYRELL (E.) & PULLEN (K.), 2003: Post occupancy evaluation of a red river hog (*Potamochoerus porcus*) enclosure. In: GILBERT (T.C.) (ed.): Proc. 5th ann. symp. zoo res.. London, Fed. of Zool. Gdns of Great Britain & Ireland.

LESSOW (D.E.) & COLLINS (A.), 1996: Public experiences with elephants at zoos and wild animal parks: a collaborative study. *J. Elephant Managers Assn.* 7(2): 19-20.

MOSS (A.), FRANCIS (D.) & ESSON (M.), 2008: The relationship between viewing area size and visitor behavior in an immersive Asian elephant exhibit. *Visitor Studies* 11(1): 26-40.

SEITZ (S.), 1998: Tapirs in zoos: their behavior, and the interest they generate in visitors. *Tapir Conservation* 8: 18-19.

SMITH (L.) & BROAD (S.), 2008: Do visitors attend to conservation messages? A case study of an elephant exhibit. *Tourism Review Int'l* 11(3): 225-35.

ON-GOING OR UNPUBLISHED STUDIES :

DOERING (Z.D.), PAWLUKLEWICZ (J.D.) & BOHLING (K.), 1989: The Caribou Connection: will people stop, look, and question ? Washington DC, Smithsonian Inst..

BACKGROUND & FURTHER READING: MAMMAL EXHIBITS

ANDERSEN (L.L.), 2005: New elephant house in Copenhagen Zoo. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 17-23.

DESMOND (J.C.), 1995: Performing "nature": Shamu at Sea World. In: CASE (S.-E.), BRETT (P.) & LEIGH FOSTER (S.) (eds.): Cruising the performative: interventions into the the representation of ethnicity, nationality and sexuality. Bloomington, Indiana UP: 217-36.

GRISHAM (J.), 2001: Mammal exhibits. In: BELL (C.E.) (ed.): Encyclopedia of the world's zoos. Vol. 2 G-P. Chicago/London, Fitroy Dearborn: 780-84.

JORDAN (M.), 1999: The potential for exhibition and interpretation of small mammal displays. In: PLOWMAN (A.B.) & STEVENS (P.M.C.) (eds.): Conservation centres for the new millennium: proc. 5th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 118-26.

- **Carnivore exhibits: visitor studies**

BITGOOD (S.C.) & PATTERSON (D.) et al, 1986: Post-occupancy evaluation of the Predator House at the Birmingham Zoo. Techn. Report no. 86-40. Jacksonville, Ctr for Social Design.

BROAD (S.) & WEILER (B.), 1998: Captive animals and interpretation – a tale of two tiger exhibits. J. Tourism Studies 9: 14-27.

MARGULIS (S.W.), HOYOS (C.) & ANDERSON (M.), 2003: Effect of felid activity on zoo visitor interest. Zoo Biology 22: 587-99.

ROPER (J.), BITGOOD (S.), PATTERSON (D.) & BENEFIELD (A.), 1986: Post-occupancy evaluation of the “Predator House” at the Birmingham Zoo. Visitor Behav. 1(2): 4-5.

RUSKA (D.), 2009: Variation in visitor perceptions of a polar bear enclosure based on the presence of natural vs. un-natural enrichment items. Zoo Biology 28(4): 292-306.

WILSON (M.), KELLING (A.), POLINE (L.), BLOOMSMITH (M.) & MAPLE (T.), 2003: Post-occupancy evaluation of Zoo Atlanta’s Giant Panda Conservation Center: staff and visitor reactions. Zoo Biology 22: 365-82.

ON-GOING OR UNPUBLISHED STUDIES :

KWONG (D.), 1977: Lion/tiger area observation study. Washington DC, Nat'l Zoo, Office of Educ.-Information. Unpublished manuscript.

MCGRAW (A.) & WEAVER (S.), 2001: Evaluating the San Diego Zoo’s Panda Discovery Center. 13th ann. VSA conf., July 31-Aug. 4, 2001, Orlando, FL. Abstract: <http://www.visitorstudiesarchives.org>

MEDIA TRANSFORMATIONS, 2003: Tiger Mountain exhibit summative evaluation. Teaneck, Media Transformations.

RONDEAUX (G.), 1995: Les relations de l’homme à l’ours captif. Lieux, langage et representations – analyse comparative des interactions dans deux parcs animaliers. [*Human relations to captive bears. Places, language and representations – a comparative analysis of interactions in two animal parks.*] Thèse. Liège, Univ. de Liège, Arts et Sciences de la Communication.

TRUANT (C.), 2006: Evaluation de l’interet pédagogique de 3 meutes de loups au parc animalier de Sainte Croix (Moselle). [*Evaluation of the educational importance of 3 packs of wolves at the Sainte Croix wildlife park (Moselle).*] Mémoire. Master II Pro d’Ethologie appliquée. Paris, Univ. Paris 13.

BACKGROUND & FURTHER READING: CARNIVORE EXHIBITS

VAN REYBROUCK (D.), 2004: New tiger exhibit at Bronx Zoo imbued with post-9/11 rhetoric. Int. Zoo News 51(4): 198-99.

YOUNGMAN (J.), 2010: Free our polar bears. Winnipeg Free Press, 17 July 2010.
<http://www.winnipegfreepress.com/opinion/fyi/free-our-polar-bears-98658014.html>

○ Primate exhibits: visitor studies

BLANEY (E.C.) & WELLS (D.L.), 2004: The influence of a camouflage net barrier on the behaviour, welfare and public perceptions of zoo-housed gorillas. Animal Welfare 13: 111-18.

BODAMER (M.D.) SANKOVIC (J.M.), 2001: "We're all cousins!" A sampling of public comments at a zoo, reflecting people's sibling relationship with chimpanzees. In: The Apes, challenges of the 21st Century. May 10-13, 2000. Conf. proc.. Brookfield, Chicago Zool. Soc.: 199-206. <http://www.brookfieldzoo.org/pagegen/inc/ACBodamer.pdf>

CLARKE (G.K.), 1986: The inside story. Visitor Behav. 1(1): 5.
http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a0u0-a_5730.pdf

MAPLE (T.) & FINLAY (T.), 1986: Evaluating the environments of captive nonhuman primates. In: BENIRSCHKE (K.) (ed.): Primates: The road to self-sustaining populations. New York, Springer: 479-88.

MITCHELL (G.), OBRADOVICH (S.), SUMNER (D.), DEMORRIS (K.), LOFTON (L.), MINOR (J.), COTTON (L.) & FOSTER (T.), 1990: Cage location effects on visitor attendance at three Sacramento Zoo mangabey enclosures. Zoo Biology 9(1)

NAKAMICHI (M.), 2007: Assessing the effects of new primate exhibits on zoo visitors' attitudes and perceptions by using three different assessment methods. Anthrozoos 20: 155-65.

NOTÓ (M.J.), TOMAS (G.N.), ALONSO (C.S.) & FUENTES (F.N.), 1993: Captive lowland gorillas and visitors at Barcelona Zoo. IZE J. 28: 38-40.

PLOWMAN (A.), 2007: Effect of old and new enclosures on visitor attitudes to monkeys and their conservation. Zoo Res. News – BIAZA Res. Newsletter 7(1) :

RAJENDRAN (S.), SASEENDRAN (P.C.) & CHITRA (R.), 2003: Visitors' behaviour at primate cages in the Zoological Gardens, Thrissur. Zoos' Print 18(6): 14.

ROSS (S.) & LUKAS (K.), 2001: Conducting a post-occupancy evaluation as part of the design process for a new great ape facility. In: The Apes, challenges of the 21st Century. May 10-13, 2000. Conf. proc.. Brookfield, Chicago Zool. Soc.: 140-41.

<http://www.brookfieldzoo.org/pagegen/inc/ACross.pdf>

ROSS (S.) & LUKAS (K.), 2005: Zoo visitor behavior at an African ape exhibit. Visitor Studies Today 8(1): 4-12. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a6a4-a_5730.pdf

VENUGOPAL (B.) & SHA (A.), 1993: Visitor behaviour at Lion-tailed macaque in the Mysore Zoo. Zoo's Print 8(12): 45-48.

WORSTELL (C.) & FIBY (M.) (eds.), 2003: Reconciling user needs in animal exhibit design. Gorilla exhibits as a case study. Vienna, ZooLex.
<http://www.zoolex.org/publication/worstell/gorilla/content.html>

ON-GOING OR UNPUBLISHED STUDIES :

DINGWALL (B.) & CULKIN (C.), 2009: Gorilla touch tables. Internship project. Toronto, Fleming College/Univ. of

Toronto. Contact bonnie.dingwall@gmail.com

ESSON (M.) & MOSS (A.), 2005: Conservation, canopies and kinship: the use of zoo exhibit design in engendering visitors' empathy for orangutans. 18th ann. VSA conf., Aug. 2-6, 2005, Philadelphia, PA.
Abstract: <http://www.visitorstudiesarchives.org>

ESSON (M.), FRANCIS (D.) & MOSS (A.), 2007: Summative evaluation for visitor use of the Realm of the Red Ape exhibit at Chester Zoo (UK). Chester, Chester Zoo. Contact Maggie Esson, m.esson@chesterzoo.org

GONÇALVES (A.F.), 2007: Os primatas do ZooLagos e a sua interacção com os visitantes – Parque Zoológico de Lagos. [*The primates of ZooLagos and their interaction with the visitors.*] Relatório final de estágio – Licenciatura em Biologia. Vila Real, Univ. de Trás-o-Montes e Alto Douro. 55 pp.

JACOBS (L.), 2008: Visitor study in Apenheul – squirrel monkey area. Apeldoorn, Apenheul.
Contact Constanze Melicharek, c.melicharek@apenheul.nl

OGDEN (J.), 1992: A comparative evaluation of naturalistic habitats for captive lowland gorillas (*Gorilla gorilla gorilla*). Unpublished doctoral diss.. Atlanta, Inst. of Technology.

VANDEMOORTELE (H.), 2009: Bezoekersstudie bij de mensapen. Niet gepubliceerd projectwerk. [*Visitors study at the apes. Unpublished project paper.*] Sint-Niklaas, KaHoSL. 32 pp.

BACKGROUND & FURTHER READING: PRIMATE EXHIBITS

BRUNER (G.) & MELLER (L.), 1992: Convergent evolution in design philosophy of gorilla habitats. Int. Zoo Yb. 31 :

COE (J.) & MAPLE (T.), 1984: Approaching Eden: a behavioral basis for great ape exhibits. Proc. 1984 AAZPA.

GIPPOLITTI (S.), 2009: Primate zoo exhibits: what is their ecological message? Int. Zoo News 56(1): 12-16.

○ Mixed zoogeographical or habitat exhibits: visitor studies

AGNEW (J.), 1985: Visitor expectations and the Alaskan Tundra exhibit. AAZPA 1985 Ann. Proc.: 588-90.

FOSTER (J.S.), KORAN (J.J.), KORAN (M.L.), STARK (S.), BLACKWOOD (A.) & LANDERS (H.), 1988: The effect of multi-species exhibits on visitor attention at the Jacksonville Zoological Park. In: BENEFIELD (A.), ROPER (J.T.) & BITGOOD (S.) (eds.): Visitor studies: Theory, research, and practice. Vol. 1. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 113-19. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a1o1-a_5730.pdf

NELSON (K.), 1997: Evaluation of a naturalistic exhibit: the Northern Trail at Woodland Park Zoological Gardens. In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers from the 1996 Visitor Studies Conf.. Jacksonville, VSA: 95-102. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a0y7-a_5730.pdf

RUSSELL (R.L.) & WEST (R.M.), 1997 : Rainforest exhibits. HMS Beagle Log 1(2) and Int. Zoo News 44(4) : 208-10.

SAUNDERS (C.D.), STUART-PERRY (H.E.), 1997: Summative evaluation of The Swamp: a conservation exhibit with a big idea. Visitor Behav. 12(1/2), 4-7.

SHETTEL-NEUBER (J.), 1985: The Whittier Southeast Asian exhibits: a post-occupancy evaluation and comparison with older exhibits. Techn. report No. 86-70. Jacksonville, Psychology Inst., Jacksonville Univ..

VERNON (C.), 1999: What good is “in The Swamp”? In: ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. IZE Congress 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 49-53.

VERNON (C.) & SAUNDERS (C.D.), 1999: What good is “The Swamp”? Motivating visitors for conservation through an exhibit. In: PLOWMAN (A.B.) & STEVENS (P.M.C.) (eds.): Conservation centres for the new millennium: proc. 5th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 108-11.

ON-GOING OR UNPUBLISHED STUDIES :

BAUSKE (F.), FRITZ (M.) & RENKEN (O.), 2002: Evaluation of a new educational concept of the Rainforest House of Cologne Zoo. Köln, Kölner Zoo. Contact Ruth Dieckmann, dieckmann@koelnerzoo.de

BULTINCK (K.), 2007: Evaluatie van aantrekkelijkheid van educatievevormen van Vriesland. [Evaluation of the attractiveness of interpretive methods in Vriesland (Antwerp Zoo).] Bachelorproef Agro- en Biotechnologie. St-Niklaas, KaHoSL.

HARPLEY (P.J.), 1992: Western perceptions of savannas: perspectives from visitors to the Toronto Zoo. Masters thesis. Toronto, York Univ..

LI (I.M.Y.), 2010: Education evaluation in zoos & aquariums – sharing of Ocean Park’s experience. Abstracts, 2010 IZE Conf, Disney’s Animal Kingdom: 7.
Abstract: <http://www.izea.net/resources/IZE%20Conf%202010-Compiled%20Abstracts%20for%20website.pdf>

PÖPPL (R.), SCHNEIDER (C.) & NIRSCHL (P.), 2006: Observation of visitors’ reaction on some animals and interview on species knowledge in the rainforest house. Nr 78. Wien, Tiergarten Schönbrunn.

Contact Claudia Kment, ckment@zoovienna.at

VAN DEN ABEELE (Z.), 2009: Bezoekersstudie in de Aziatische serre van Planckendael. Eindwerk Bachelor Agro-en Biotechnologie. [Visitors' study in the Asian tropical house at Planckendael. Agricultural and biotechnology bachelor thesis.] St-Niklaas, KaHoSL.

BACKGROUND & FURTHER READING: MIXED ZOOGEOGRAPHICAL OR HABITAT EXHIBITS

DOW (S.) & BERTRAM (B.), 2005: Innovation and learning: how Bristol Zoo Gardens' Seal and Penguin Coasts exhibit works. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 99-109.

HANNON (B.); 1994: Sense of place: geographic discounting by people, animals and plants. *Ecol. Economics* 10: 157-74.

HOUSEMAN (W.J.), 2001: Interpretation issues involved in exhibiting animals in a drive-through safari park. *IZE J.* 37: 24-26.

JUVIK (J.), 1977: Mountain ecozone exhibits: design concepts and educational potential. *Int. Zoo Yb.* 17 :

STEELE (K.), 1981: Special problems of education in safari parks as opposed to zoos. *Newsletter IZE* 6: 38-42.

○ **African exhibits**

BAUERT (M.R.), FURRER (S.C.), ZINGG (R.) & STEINMETZ (H.W.), 2007: Three years of experience running the Masoala Rainforest ecosystem at Zurich Zoo, Switzerland. Int. Zoo Yb. 41: 203-16.

CONWAY (W.G.), 1999: Congo: a zoo experiment in participatory conservation. AZA Ann. Conf. Proc. 1999: 101-04.

DERWIN (C.W.) & PIPER (J.B.), 1988: The African Rock Kopje exhibit. Evaluation and interpretive elements. Env. & Behav. 20(4): 435-51.

HARPLEY (P.J.) & SIMPSON-HOUSLEY (P.), 1998: Response to a zoo creation of an African savanna landscape. Great Lakes Geographer 5: 1-2.

HAYWARD (J.) & ROTHENBERG (M.), 2004: Measuring success in the “Congo Gorilla Forest” conservation exhibition. Curator 47(3): 261-82.

MASK (D.L.) & BURNS (A.L.), 1993: The formative and preliminary summative evaluation of the Kongo Ranger Station. In: THOMPSON (D.), BITGOOD (S.) et al: Visitor Studies: Theory, research, and practice. Vol. 6. Jacksonville, Jacksonville State Univ. Ctr for Social Design: 205-11. http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a4w0-a_5730.pdf

ROSS (S.R.) & GILLESPIE (K.L.), 2010: Influences on visitor behavior at a modern immersive zoo exhibit. Zoo Biology 28: 462-72.

ON-GOING OR UNPUBLISHED STUDIES :

GREEN (E.) & OLSEN (D.), 2001: Using focus groups to evaluate Africa Plaza at the NC Zoological Park. 13th ann. VSA conf., July 31-Aug. 4, 2001, Orlando, FL. Abstract: <http://www.visitorstudiesarchives.org>

HARLEY (P.J.), 1999: People and passion: the African Savanna Project. In: People, power, passion: Museum performance in the 21st century. Canadian Museums Assn. Ann. Conf., Toronto, Ontario.

MELUCH (W.), 2006: African Savannah Exhibit. In-house report. San Francisco, San Francisco Zoo.

PEOPLE, PLACES AND DESIGN RESEARCH, 1996: Visitors’ interests, knowledge and perceptions about Congo Gorilla Forest. Amherst, People, Places & Design Research.

WEAVER (S.), 2000: Evaluating “Ituri Forest” at the San Diego Zoo. VSA Conf. 2000, Boston. Abstract: <http://www.visitorstudiesarchives.org>

WELLS (L.), 2007: Evaluation of the Heart of Africa. Winchester, Marwell Zool. Park.
Contact geoffm@marwell.org.uk

BACKGROUND AND FURTHER READING: AFRICAN EXHIBITS :

PEFFER (P.G.), SCHAAF (C.D.) & COE (J.C.), 1987: Simulation of a West Africa rainforest: the role of zoo design in conservation education. AAZPA 1987 Reg. Proc.: 757-60.

- **Reptile exhibits**

BARRY (S.), 1984: HERPlab evaluation. In: KING (J.) (ed.), 1984: Proceedings, 1984 Biennial Conference. Newsletter IZE 13: 55-58.

MARCELLINI (D.L.) & JENSSSEN (T.A.), 1988: Visitor behavior in the National Zoo's reptile house. *Zoo Biology* 7: 329-38.

PHILLPOT (P.), 1996: Visitor viewing behavior in the Gaherty Reptile Breeding Centre, Jersey Wildlife Preservation Trust: a preliminary study. *Dodo* 32: 193-202.

ON-GOING OR UNPUBLISHED STUDIES :

ANON., 2006: Summary of Lizards exhibit evaluation reports. Chicago, Shedd Aquarium.

DOERING (Z.D.) et al, 1994: From reptile houses to reptiles discovery centers. Institutional Studies, Report 944. Washington DC, Smithsonian Inst..

SOHIER (E.), 2007: Visitor studie: evaluatie van aantrekkelijkheid van educatievevormen van reptielengebouw. [*Visitor study: evaluation of attractiveness of interpretive methods of the reptile house (Antwerp Zoo).*] Bachelorproef Agro- en Biotechnologie. Sint-Niklaas, KaHoSL. 40 pp.

BACKGROUND & FURTHER READING: REPTILE EXHIBITS

BACON (J.P.) & HALLETT (M.), 1981: Exhibit systems for reptiles and amphibians at the San Diego Zoo: dioramas and graphics. *Int. Zoo Yb.* 21: 14-21.

GANS (C.) & VANDEN SANDE (A.P.), 1976: The exhibition of reptiles: concepts and possibilities. *Acta Zool. & Path. Antverpiensis* 66: 3-51.

GANS (C.), 1979: On exhibiting reptiles. *Int. Zoo Yb.* 19: 1-14.

- **Thematic and temporary exhibits; museum exhibits in zoos and aquariums: visitor studies**

PEKARIK (A.J.), DOERING (Z.D.), BICKFORD (A.) & YALOWITZ (S.S.), 1997: Ocean views: a study of visitors to the Ocean Planet exhibition. In: WELLS (M.) & LOOMIS (R.) (eds.): Visitor Studies: Theory, research and practice. Vol. 9. Selected papers from the 1996 Visitor Studies Conf.. Jacksonville, VSA: 103-11.

http://historicalvoices.org/pbuilder/pbfiles/Project38/Scheme325/VSA-a0a0y8-a_5730.pdf

ON-GOING OR UNPUBLISHED STUDIES :

ADELMAN (L.), DIERKING (L.), HALEY GOLDMAN (K.), COULSON (D.), FALK (J.) & ADAMS (M.), 2001: Baseline Impact Study: Disney's Animal Kingdom Conservation Station. Techn. Report. Annapolis, Inst. for Learning Innovation.

BIELICK (S.) & DOERING (Z.D.), 1997: An assessment of the "Think Tank" exhibition at the National Zoological Park. Report no. 97-1. Washington DC, Smithsonian Inst..

BIELICK (S.) & KARNS (D.), 1998: Still thinking about thinking. A 1997 telephone follow-up study of visitors to the Think Tank Exhibition at the National Zoological Park. Washington DC, Institutional Studies Office, Smithsonian Inst..

DOUMA (W.) et al, 1995: Publieksonderzoek Geologisch Museum in Artis. [*Artis Geological Museum audience survey.*] Amsterdam, Reinwardt Acad..

MOSS (A.), 2009: Hard Rain. Can zoos risk delivering bad news? Presentation at the 2009 EAZA Zoo Educators' Conf., Cologne, March 2009. http://www.vzp.de/vortraege_EZE2009.html

RENSEN (D.), 1992: Tentoonstellingen in dierentuinen: een comparatief onderzoek. [*Exhibitions in zoos: a comparative study.*] Groningen, RU Groningen.

BACKGROUND & FURTHER READING: THEMATIC AND TEMPORARY EXHIBITS; MUSEUM EXHIBITS IN ZOOS AND AQUARIUMS

BALIS (J.-M.), 1999: Creating exhibitions for learning. In: MOFFAT (H.) & WOOLLARD (V.) (eds.): Museum and gallery education: a manual of good practice. Walnut Creek, AltaMira.

DESMOND (J.), 2002: Displaying death, animating life: changing fictions of "liveness" from taxidermy to animatronics. In: ROTHFELS (N.) (ed.): Representing animals. Bloomington/Indianapolis, Indiana UP: 159-79.

SCHÄRER (M.), 2004: Die Ausstellung als Bedeutungssystem. [*The exhibition as a system of meaning.*] Museum-Aktuell, April 2004:

SHARPE (G.W.), 1982: Exhibits. In: SHARPE (G.W.) (ed): Interpreting the environment. New York, Wiley & Sons.

STAMM (K.), 1997: Traveling exhibits: undiscovered treasures for zoos and aquariums. HMS Beagle Log 2(4): 20.

VAN MENSCH (P.), 2003: The characteristics of exhibitions. Museum-Aktuell, Mai 2003 :

- **Zoo architecture**

ON-GOING OR UNPUBLISHED STUDIES

GRAETZ (M.J.), 1995: The role of architectural design in promoting the social objectives of zoos. Masters' thesis. Singapore, Nat'l Univ. of Singapore.

HEINSDORF (H.), 1968: Bauten und Anlagen Zoologischer Gärten. [*Building and exhibits in zoological gardens.*] Diss.. München, TH München.

RAMBOW (R.) & BENZ (I.), 2007: The perception of visual concrete as a building material. Env. Psych. Conf. 2007, Univ. of Bayreuth.

BACKGROUND & FURTHER READING: ZOO ARCHITECTURE

ACKING (D.A.) & KULLER (R.), 1972: The perception of an interior as a function of its color. Ergonomics 15: 645-54.

ADAMS (L.) & ZUCKERMAN (D.), 1991: The effect of lighting conditions on personal space requirements. J. Gen. Psych. 118: 335-40.

CUNEO (P.), 1984: L'architettura dello zoo di Roma e il gusto dell'esotico. [*Rome zoo architecture and the taste for the exotic.*] In: FLORIO (P.L.) & MORETTI (V.) (ed.): La nostra Arca di Noè. Storia e prospettive dello Zoo di Roma. Roma Capitale 1870-1911. [*Our Noah's Ark. History and perspective of Rome Zoo. Rome Capital 1870-1911.*] Venezia, Marsilio: 39-44.

DITTRICH (L.), 1998: Zoobauten als Ausdruck geistiger Zeitströmungen. Bemerkungen zum Verständnis der historischen Bausubstanz deutscher Zoos. [*Zoo buildings as expressions of intellectual eras. Interpretations of the historical constructed heritage of German zoos.*] Der Zool. Garten (N.F.) 68(6): 325- 31.

GRUFFUDD (P.), 2000: Biological cultivation: Lubetkin's modernism at London Zoo in the 1930s. In: PHILO (C.) & WILBERT (C.) (eds.): Animal spaces, beastly places: new geographies of human-animal relations. London, Routledge: 222-42.

HANCOCKS (D.), 1971: Animals and architecture. London/New York, Hugh Evelyn/Praeger. 200 pp.

KIRSTEN (F.), 1997: Architektur im Zoo – ein Dialog. [*Architecture in the zoo – a dialogue.*] Jahresbericht Zool. Garten Schwerin 1996: 33-37.

LAMBTON (L.), 1985: Beastly buildings. The National Trust book of architecture for animals. London, Jonathan Cape.

MARLING (K.A.) (ed.), 1997: Designing Disney's theme parks. The architecture of reassurance. Montreal,

SOMMER (R.), 1974: Tight spaces: Hard architecture and how to humanize it. Englewood Cliffs, Prentice Hall.

STACH (G.), 1974: Stilepochen zoologischer Gebäude. Deutsches Architektenblatt 23: 1585-88.

ULRICH (R.S.), 1991: Effects of interior design on wellness. J. of Health Care Interior Design, Spring 1991.

WALLING BLACKBURN (M.), 2000: Saigon Zoo: Beauty and the Beast: the subtropical adventure of possession. Loud Paper 3(2).

<http://www.loudpapermag.com/articles/saigon-zoo-beauty-and-the-beast-the-subtropical-architecture-of-possession>

- **Zoo and aquarium exhibit philosophies**

ON-GOING OR UNPUBLISHED STUDIES

MAIER (G.), 2003: The zoo as a place for experiences: a communication science-based research of staging principles in international zoos and in the Schönbrunn Zoo. Thesis. Wien, Univ. Wien.

BACKGROUND & FURTHER READING: ZOO AND AQUARIUM EXHIBIT PHILOSOPHIES – GENERAL

AXELSSON (T.) & MAY (S.), 2008: Constructed landscapes in zoos and heritage. Int'l J. Heritage Studies 14(1): 43-59. Abstract: <http://www.informaworld.com/smpp/content~content=a787690134~db=all~order=page>

BERGER (J.), 1980: Why look at animals? In: BERGER (J.): About looking. New York, Pantheon.

BERGER (J.), 1982: Why look at animals ? In: BARZDO (J.), BERGER (J.), RAWLENCE (C.) & ROBERTS (J.): Zoos. Four exhibitions at the Institute of Contemporary Arts. London, ICA: 7-9.

BIERLEIN (J.), 2003: Exhibit design and the aesthetic of nature. AZA Communiqué, March 2003.
http://www.zoolex.org/publication/bierlein/design_wpz.html

BITGOOD (S.) & PATTERSON (D.), 1987b: Principles of exhibit design. Visitor Behav. 2(1)

BLAKELY (R.L.), 1981: Formulating an exhibit philosophy. Int. Zoo Yb. 21: 1-5.

BURT (J.), 2005: John Berger's "Why look at animals?": a close reading. Worldviews 9(2)

CHERFAS (J.), 1984: Zoo 2000: a look beyond the bars. London, BBC Publications. 244 pp.

COBURN (C.), 1985: Exhibit philosophy and process. AAZPA 1985 Ann. Proc.: 191-93.

COE (J.C.), 1985: Design and perception: making the zoo experience real. Zoo Biology 4(2): 197-208.

COE (J.), 1987: History of exhibit design. Visitor Behav. II(2): 9.

COE (J.C.), 1995: The evolution of zoo animal exhibits. In: WEMMER (C.) (ed.): The ark evolving. Washington DC, Smithsonian Inst..

COE (J.), 1997: Entertaining zoo visitors and zoo animals: an integrated approach. Proc. AZA Ann. Conf.: 156-62.

COE (J.), 1999: Increasing affiliative behavior between zoo animals and zoo visitors. 1999 AZA Conv. Proc.: 216-20.

CONWAY (W.G.), 1982: Zoo and aquarium philosophy. In: SAUSMAN (K.) (ed.), 1982: Zoological park and aquarium fundamentals. Wheeling, AAZPA. 3-12.

DENNING (K.), 2008: Regarding the zoo: on the deployment of a metaphor. Int'l J. Heritage Studies 14(1): 60-73. Abstract: <http://www.informaworld.com/smpp/content~content=a787690039~db=all~order=page>

DESMOND (J.), 1999: Staging tourism. Bodies on display from Waikiki to Sea World. London/Chicago.

DICKINSON (P.), 2009: The perfect zoo enclosure. <http://hubpages.com/hub/The-Perfect-Zoo-Enclosure>

DITTRICH (L.), 2008: Warum ein Regenwaldhaus und keine Bärenburg? [Why a rainforest house and not a bear castle?] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [Man, animal and zoo. Schönbrunn Zoo in international perspective from the 18th century to the present.] Wien/Köln/Weimar, Böhlau: 335-44.

FIBY (M.), 2002: Grundlagen der Lernpsychologie für die Zooplanung. [Educational psychology basics for zoo planning.] In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.]

Fürth, Filander Verlag: 219-28.

FIBY (M.), 2008: Trends in zoo design – changing needs in keeping wild animals for a visiting audience. Topos 62: http://www.zoolex.org/publication/fiby/zootrends08/fiby_topos62.html

FRANK (G.), 2002: Zoodramaturgie oder die Kunst, Menschen zu begeistern. [Zoo dramaturgy or the art of inspiring people.] In: In: GANSLOßER (U.) (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [Zoo education. Zoo biology III.] Fürth, Filander Verlag: 229-48.

HALLMAN (B.) & BENBOW (M.), 2006: Naturally cultural: the zoo as cultural landscape. Canadian Geographer 50(2): 256-64.

HANCOCK (C.) & STASZAK (J.-F.), 2002: L'animal au zoo, enjeu de géographie politique. Le zoo de Mexico, de Moctezuma à l'écologie. [The zoo animal, contested object in political geography. The zoo of Mexico, from Moctezuma to ecology.] In: STASZAK (J.-F.) (ed.): La place de l'animal. [The place of the animal.] Espaces et Sociétés 110/111: 87-110. Abstract: <http://www.espacestetsocietes.msh-paris.fr/110111/resumes.html#r2>

HANCOCKS (D.), 1982: A matter of presentation. Proc. AAZPA: 170-76.

HANCOCKS (D.), 1991: So long, old zoo. BBC Wildlife, June 1991: 424.

HANCOCKS (D.), 1995: Lions and tigers and bears, oh no! In: NORTON (B.G.), HUTCHINS (M.), STEVENS (E.F.) & MAPLE (T.L.) (eds.), 1995: Ethics on the ark. Washington DC, Smithsonian Inst.: 31-37.

HANCOCKS (D.), 1996: The design and use of moats and barriers. In: KLEIMAN (D.G.), ELLEN (M.E.), THOMPSON (K.V.) & LUMPKIN (S.) (eds.): Wild mammals in captivity. Chicago, Univ. of Chicago Press: 191-203.

HANCOCKS (D.), 2001: A different nature. The paradoxical world of zoos and their uncertain future. Berkeley, Univ. of California Press. 280 pp.

HANCOCKS (D.), 2007: Zoo animals as entertainment exhibitions. In: MALAMUD (R.) (ed.): A cultural history of animals in the modern age. A cultural history of animals, Vol. 6. Oxford, Berg.

HANSON (E.), 2002: Animal attractions. Nature on display in American zoos. Princeton, Princeton UP, 244 pp.

HARRISON (B.), 1999: The living animal and its exhibit as interpreter: exhibition techniques in modern zoos. Presentation for Indian Zoo Directors Meeting, Veermata Jijibhai Bhosle Udyan Mumbai. Zoo's Print 14(1): 23-27.

HEDIGER (H.), 1970: The development of the presentation and the viewing of animals in zoological gardens. In: ARONSON (L.P.), TOBACH (E.), LEHRMAN (D.S.), ROSENBLATT (J.S.) (eds.): Development and evolution of behaviour. San Francisco, W.H. Freeman: 519-28.

HEDIGER (H.), 1971: Changes in zoological gardens. Anthos: Landscape Architecture Quarterly 3: 2-4.

HOHN (T.C.), 1981: Landscapes to supplement exhibit themes. AAZPA Reg. Conf. Proc. 1981 :

KAPLAN (R.), KAPLAN (S.) & RYAN (R.L.), 1998: With people in mind: design and management of everyday nature. Washington DC, Island Press.

KING (P.), 2002: Book review : A different nature – The paradoxical world of zoos and their uncertain future. Animal Keepers' Forum 29(3): 129-30.

LARSSON (H.-O.) & HOLM (S.), 1983: Tiere in ihrem Milieu zeigen – Wunsch oder Möglichkeit? [Displaying animals in their environment – wishful thinking or possibility?] Zeitschrift des Kölner Zoos 26(3): 105-08.

LINDBURG (D.G.), 1998: Coming out of the cold: animal keeping in temperate zone zoos. Zoo Biology 17(2): 51-53.

LULKA (D.), 2010: Boring a wormhole in the zoological ark. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounters after Noah. Plymouth, Lexington Books: 123-49.

MAIER (G.), 2005: Brad Pitt is a monkey: how a zoo works like a movie. In: PLOWMAN (A.B.) & TONGE (S.J.)

(eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 43-47.

MAPLE (T.), ANDERSEN (L.L.), LINDAHL-ELLIOT (N.), LINDSAY (N.), SIMMONS (L.), FISCHER (J.), HANSON (B.), FREDIANI (K.), TONGE (S.), FIBY (M.) et al, 2005 ; Symposium discussion and conclusions. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 161-64.

MCKENZIE (R.C.), 1986: American zoological gardens: elements of metropolitan landscapes. *J. Cult. Geography* 6(1): 1-18.

MICHELMORE (A.P.G.) (ed.), 1975: Zoo Design I. Proc. Int'l Symp. Zoo Design & Construction, Paignton Zool. & Bot. Gardens and Oldway Mansion, Paignton (May 1975). Paignton, Whitley Trust.

MICHELMORE (A.P.G.) (ed.), 1976: Zoo Design II. Proc. Int'l Symp. Zoo Design & Construction, Paignton Zool. & Bot. Gardens and Oldway Mansion, Paignton (May 1976). Paignton, Whitley Trust.

PHILO (C.) & WILBERT (C.) (eds.), 2000: Animal spaces, beastly places: new geographies of human-animal relations. London/New York, Routledge.

PLOWMAN (A.B.) & STEVENS (P.M.C.) (eds.), 1999: Conservation centres for the new millennium: proc. 5th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust. 181 pp.

PLOWMAN (A.B.) & TONGE (S.J.) (eds.), 2005: Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust. 164 pp.

POLAKOWSKI (K.J.), 1988: Increasing design consciousness: a prerequisite for the improvement of zoological exhibits. AAZPA 1988 Ann. Proc.: 122-33.

POLAKOWSKI (K.J.), 1989: Design trends for educational zoo exhibits. AAZPA 1989 Reg. Proc.: 836-42.

ROBINSON (M.H.), 1985: Tropical forests, informational complexity, conservation and the modern zoo. In: KRUYFHOOFT (C.) (ed.): Zoom op Zoo. [Zoom on Zoo.] Antwerp Zoo focusing on arts and sciences. 50 jaar tijdschrift "Zoo Antwerpen". [50 years of "Zoo Antwerpen" magazine.] Antwerpen, KMDA: 55-69.

ROLLIN (B.E.), 2010: Throught a frame darkly: a phenomenological critique of zoos. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 57-66.

SALZERT (W.), 2008: Zwölf Grundregeln für die Gestaltung attractive Zoogehege. ZooKunft 2008 – Bauen für Tiere. Karlsruhe, 23. Februar 2008. [Twelve basic rules for the design of attractive zoo enclosures. ZooKunft 2008 – Building for animals. Karlsruhe, 23 Feb. 2008.]

SALZERT (W.), 2010: Was macht Tiergärten attraktiv? Ein kleines Einmaleins der Zoogehegegestaltung. [What makes zoos attractive? A short basic introduction to zoo exhibit design.] Münster, Schüling. 112 pp.

SCHWAMMER (G.), 1999: Succesful enclosure design – a product of an inter-disciplinary teamwork. In: HIRSCH (S.) & OBERAUER (E.) (eds.): EZE Innsbruck 1997: 95-98.

SHANI (A.) & PIZAM (A.), 2010: A typology of animal displays in captive settings. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 33-46.

SERRELL (B.), 1993: Awards for exhibits – what are they based on ? Curator 36(1): 6-7.

STASZAK (J.-F.), 2000: À quoi servent les zoos? [What use are zoos?] Sciences Humaines 108: 42-45.

STREHLOW (H.), 1994: Von der Menagerie zum Ökozoo – Revolutionen in der Zooentwicklung. [From menagerie to eco-zoo – revolutions in zoo development.] Milu 8: 5-24.

TUDGE (C.), 2001: Animal experiences. (Book review of A different nature: the paradoxical world of zoos and their uncertain future by David Hancocks) London Review of Books, 21 June 2001.

TUSON (J.), 2001: "A different nature: the paradoxical world of zoos and their uncertain future" by David Hancocks. Book review. Int. Zoo News 48(4): 250-53.

VAN VLIET (E.), 2005: An ambience for the visitor's own story. In: In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 67-69.

VAN VLIET (E.), 2008: Let's abolish the education department. Guest editorial. Int. Zoo News 55(4): 194-95.

VEASEY (J.), 2005: Whose zoo is it anyway? Integrating animal, human and institutional requirements in exhibit design. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 7-16.

WILCOCK (C.), 1964: Get those bars off our zoos. The Observer, 8 Nov. 1964.

WINEMAN (J.) & CHOI (Y.K.), 1991: Spatial/visual properties of zoo exhibition. Curator 34: 304-15.

WIRTZ (P.), 1997: Zoo city: bourgeois values and scientific culture in the industrial landscape. J. Urban Design 2: 61-82.

WOOLLARD (S.P.), 1996: Environmental enrichment for visitors: new developments in exhibit design at Bristol Zoo Gardens. Ratel 23(5): 156-60.

ZICKGRAF (P.) & WERNER (M.), 2010: Die Zähmung des exotischen. Dr. Marcus Werner und sein Zoo-Projekt, Teil 1. [*Taming the exotic. Dr Marcus Werner and his zoo project, part 1.*] Peer trifft. Platzanweiser.
<http://www.einseitig.info/html/content.php?txid=801>

ZICKGRAF (P.) & WERNER (M.), 2010: Zoo und Züchtung. Dr. Marcus Werner zum Komplex Zoo und Züchtung, Teil 2. [*Zoo and breeding. Dr Marcus Werner on the zoo and breeding complex, part 2.*] Peer trifft. Platzanweiser.
<http://www.einseitig.info/html/content.php?txid=804>

ZICKGRAFF (P.) & WERNER (M.), 2010: Zootiere sind auch Krieger, aber sanfte Krieger de Biodiverzität. [*Zoo animals are fighters too, but soft fighters for biodiversity.*] Peer trifft. Platzanweiser.
<http://www.einseitig.info/html/content.php?txid=809>

ZICKGRAF (P.) & WERNER (M.), 2010: Zoo und Züchtung. Das Tier als das Andere in uns selbst. [*Zoo and breeding. The animal as the other in ourselves.*] Peer trifft. Platzanweiser.
<http://www.einseitig.info/html/content.php?txid=816>

- Content, context and meaning in zoo and aquarium exhibits

ON-GOING OR UNPUBLISHED STUDIES

ESCUTIA (D.), VAN DEN BERG (R.), VERHEYDEN (P.) & BOUGÉ (S.), 2006: Personalisation in exhibitions (visitor identification with a figure, tailored content...) – a recipe for success? Abstract. ECSITE Conf. 2006, Technopolis, the Flemish Science Centre, Mechelen, Belgium. 8-10 June 2006. Programme book. Mechelen/Brussels, Technopolis/ECSITE: 18.

BACKGROUND & FURTHER READING: CONTENT, CONTEXT AND MEANING IN ZOO AND AQUARIUM EXHIBITS

BAL (M.), 1990: De theorie van vertellen en verhalen. Inleiding in de narratologie. [*Theory of stories and storytelling. Introduction to narratology.*] Muiderberg, Coutinho. 151 pp.

BEARDSWORTH (A.) & BRYMAN (A.), 2001: The wild animal in late modernity: the case of the Disneyization of zoos. *Tourist Studies* 1: 83-104.

CHASTAIN (B.), 2005: The defining moment. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 61-65.

COE (J.), 1982: Bringing it all together: integration of context, content and message in zoo exhibit design. *AAZPA 1982 Ann. Proc.*: 268-74.

COE (J.C.), 1985: Design and perception: making the zoo experience real. *Zoo Biology* 4(2): 197-208.

COE (J.C.), 1996: What's the message? Education through exhibit design. In: KLEIMAN (D.G.), ALLEN (M.E.), THOMPSON (K.V.) & LUMPKIN (S.) (eds.): *Wild mammals in captivity*. Chicago, Chicago UP. 167-74.

CONWAY (W.G.), 1973: How to exhibit a bullfrog: a bed-time story of zoo men. *Int. Zoo Yb.* 13: 221-26.

CRANG (M.), 2003: On display: the poetics, politics and interpretation of exhibitions.
http://eprints.dur.ac.uk/archive/0000062/01/Crang_on_display.pdf.

ECO (U.), 1987: Travels in hyperreality. Essays. [*Translated by William Weaver.*] London, Pan Books. 308 pp.

GRACZYK (A.), 2008: Der Zoo als Tableau. [*The zoo as a „tableau“.*] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [*Man, animal and zoo. Schönbrunn Zoo in international perspective from the 18th century to the present.*] Wien/Köln/Weimar, Böhlau: 97-110.

HONEGGER (R.), 1997: Ansichten – Einsichten. Gedanken zur Gestaltung von Großterrarien für Großecken und Riesenschlangen. [*Views – insights. Thoughts on the design of large terraria for large lizards and giant snakes.*] Zeitschrift des Kölner Zoo 40(2): 71-75.

KRÖGER (U.), 1998: Was bewirken wir eigentlich mit unserer pädagogischen Arbeit? [*What are we achieving with our educational work?*] Begegnung Zoo 5: 9-10.

LATTIS (R.L.), 1989: An educational exhibit is more than a children's zoo and a biology text. *IZE J.* 22: 13-15.

MYERS (G.), 1990: Making a discovery: narratives of split genes. In: NASH (C.) (ed.): *Narrative in culture: the uses of storytelling in sciences, philosophy and literature*. New York, Routledge.

PECHLANER (H.), 1987: "Themenzoo" – Verlegenheit oder Notwendigkeit? [*The themed zoo - quandary or necessity?*] Bongo 13 (Sonderband 100 Jahre Verband Deutscher Zoodirektoren): 157-60.

PIES-SCHULZ-HOFEN (R.), 1992: Gedanken zur Informations- und Präsentationspraxis Zoologischer Gärten aus der Sicht eines Zoopädagogen. [*Thoughts on the practice of zoo interpretation and exhibit design through they eyes of a zoo educator.*] and In: BUCHEN (S.) (Hrsg.): *Kommunikation im Zoo*, 10. Tagung deutschsprachiger Zoopädagogen,

Düsseldorf 1991: 63-96.

PIES-SCHULZ-HOFEN (R.), 1998: Der Anteil der Zoopädagogik an der Gehegegestaltung. [*The role of zoo education in animal exhibit design.*] Begegnung Zoo 6: 9-14.

PIES-SCHULZ-HOFEN (R.), 2002: Zoopädagogische Überlegungen zur Gehegegestaltung. [*Zoo education considerations in exhibit design.*] In: GANSLOßER (U.), (Hrsg.): Zoopädagogik. Tiergartenbiologie III. [*Zoo education. Zoo biology III.*] Fürth, Filander Verlag. 264 pp.

ROUNDS (J.), 1999: Meaning making: a new paradigm for museum exhibits. *Exhibitionist* 18, Spring 1999:

ROUNDS (J.), 2002: Storytelling in science exhibits. *Exhibitionist* 21(2): 40-3.

SHETTEL (H.), 1973: Exhibits: art form or educational medium? *Museum News* 52(1):

SILVERMAN (L.H.), 1999: Meaning making matters: communication, consequences and exhibit design. *Exhibitionist* 18(2): 9-14.

VAN GALEN (S.), 2006: Verhaal of voorwerp? Authenticiteit van contextualisering tegenover een objectgerichte benadering. Masterscriptie Cultureel Erfgoed. [*Story or object? Authenticity of contextualization as opposed to an object-oriented approach. Master's thesis in Cultural Heritage.*] Utrecht, Univ. Utrecht.

<http://igitur-archive.library.uu.nl/student-theses/2006-1109-200330/UUindex.html>

VAN MENSCH (P.), 2004: Musea van de toekomst: beleving met of zonder voorwerpen? [*Museums of the future: experience with or without objects?*] Antwerpen, Cult. Biografie Vlaanderen.

http://www.culturelebiografie.be/library/cbv/documents/musea_van_de_toekomst.pdf

WAGENSBERG (J.), 2009: Object, phenomena, metaphors and the mutual combinations. Museums and science centres in the space of flows. Abstract. ECSITE 2.0 R/evolutions. ECSITE Ann. Conf. Milan 4-6 June 2009: 29.

<http://www.ecsite-conference.net/content/user/File/programma.pdf>

- **Ethnic theming and ethnographical/cultural exhibits in zoos**

ON-GOING OR UNPUBLISHED STUDIES

SZELL (T.), 2008: Caged: pedagogical and theoretical implications of Ota Benga's 1906 exhibition in the Bronx Zoo of New York City. Ann. Conf. Int'l Soc. Anthrozoology, Human Animal Bond: Theory, research and practice, Aug. 13-15, 2008, Univ. of Toronto, Toronto, Canada.

BACKGROUND & FURTHER READING: ETHNIC THEMING AND ETHNOGRAPHICAL/CULTURAL EXHIBITS IN ZOOS

COMAROFF (J.L.) & COMAROFF (J.), 2009: Ethnicity, Inc. Chicago, University of Chicago Press.

CORBET (R.), 1993: Ethnographic showcases 1870-1930. Cult. Anthropology 8(3): 338-69.

DREESBACH (A.), 2005: Gezähmte Wilde. Die Zurschaustellung "exotischer" Menschen in Deutschland 1870-1940. [Tamed wild ones. Exhibiting "exotic" people in Germany 1870-1940.] Frankfurt/M., Campus. 371 pp.

EIBENBERGER (G.), 1994: Die Wilden sind unter uns. Völkerschauen während des 19. und 20. Jahrhunderts in Deutschland. [The savages are among us. Ethnographic showcases in 19th and 20th Century Germany.] Infoblatt Ges. f. Ethnographie e.V. 9: 43-72.

EIBENBERGER (G.) & SCHMIDT-GROSS (C.), 1999: Tropenzauber um die Ecke. Völkerschauen bei Hagenbeck. [Tropical magic round the corner.] In: MÖHLE (H.) (Hrsg.): Branntwein, Bibeln und Bananen. Der deutsche Kolonialismus in Afrika – Eine Spurensuche. [Brandy, bibles and bananas. Tracing German colonialism in Africa.] Hamburg: 81-86.

JONES (G.), 1989: Beyond landscape immersion to cultural resonance: in the Thai Elephant Forest at Woodland Park Zoological Gardens. AAZPA 1989 Ann. Proc.: 408-13.

KAMAU-RUTENBERG (W.), 2010: Africans as zoo exhibits in Germany?! Can? We? Save? Africa?
<http://savingafrica.wordpress.com/2010/07/03/africans-as-zoo-exhibits-in-germany/>

KLÖS (U.), 2000: Völkerschauen im Zoo Berlin zwischen 1878 und 1952. [Ethnological shows at Berlin Zoo, 1878-1952.] Bongo 30: 33-82.

MÖSCH (T.), 2005: Colonial clichés in a German zoo? DW-World.de. 09.06.2005.
<http://www.dw-world.de/dw/article/0,,1608969,00.html>

PRINCE (S.), 2010: Is the Houston zoo's exhibit racist? African-American News & Issues, 19 July 2010.
<http://www.aframnews.com/websitemanager/articles/is-the-houston-zoos-exhibit-racist.html>

PÜTZSTÜCK (L.), 1997: "Exotenzauber vor Stadtmauer und Haustür". Völkerschauen im Kölner Zoo 1878-1932. [Exotic wonders on our own doorstep. Ethnological displays at Cologne Zoo 1878-1932.] Zeitschrift des Kölner Zoo 40(4): 151-57.

SCHILLER (N.), DEA (D.) & HÖHNE (M.), 2005: African culture and the zoo in the 21st Century: the "African village" in the Augsburg Zoo and its wider implications. Report to the Max Planck Inst. for Soc. Anthropology. Halle, MPI for Soc. Anthropology. 48 pp. <http://www.eth.mpg.de/events/current/pdf/1120750934-01.pdf>

SCHÜRER (U.), 2002: Völkerschauen im Zoologischen Garten Elberfeld. [Ethnic displays at Elberfeld Zoological Gardens.] Der Zool. Garten 72(5): 274-87.

THODE-ARORA (H.), 1989: Für fünfzig Pfennig um die Welt: Die Hagenbeckschen Völkerschauen. [Around the world for fifty pennies: Hagenbeck's ethnological displays.] Frankfurt, Campus. 204 pp.

VERNER BRADFORD (P.) & BLUME (H.), 1992: Ota Benga: the Pygmy in the Zoo. New York, St. Martin's. 281 pp.

WILLIAMS (E.) & PETRIDIS (L.), 2005: "African Village" in a zoo insults Germany's black community. New York Amsterdam News, June 16-22, 2005. http://findarticles.com/p/news-articles/new-york-amsterdam-news/mi_8153/is_20050616/african-village-zoo-insults-germanys/ai_n50529485/

BACKGROUND & FURTHER READING: HAGENBECK

AMES (E.), 2000: Wilde Tiere. Carl Hagenbecks Inszenierung des Fremden. [*Wild animals. Carl Hagenbeck's staging of the foreign.*] In: HONOLD (A.) & SCHERP (K.R.) (Hrsg.): Das Fremde. Reiseerfahrungen, Schreibformen und kulturelles Wissen. [*The foreign. Travel experiences, forms of writing and cultural knowledge.*] Zeitschrift für Germanistik, Beiheft 2 : 123-48.

CATALANO (M.), 1984: I primi giardini zoologici in Europa: contenuti e criteri espositivi. Le novità di Hagenbeck. [*The first zoological gardens in Europe: content and display philosophies. Hagenbeck's novelty.*] In: FLORIO (P.L.) & MORETTI (V.) (ed.): La nostra Arca di Noè. Storia e prospettive dello Zoo di Roma. Roma Capitale 1870-1911. [*Our Noah's Ark. History and perspective of Rome Zoo. Rome Capital 1870-1911.*] Venezia, Marsilio: 13-19.

EHRLINGER (D.), 1990: The Hagenbeck legacy. Int. Zoo Yb. 29: 6-9.

GRETZSCHEL (M.), GILLE (K.) & ZAPF (M.), 2007: Hagenbeck: ein zoologisches Paradies. [*Hagenbeck: a zoological paradise.*] Bremen, Temmen. 192 pp.

GRETZSCHEL (M.) & PELC (O.), 1998: Hagenbeck: Tiere, Menschen, Illusionen. [*Hagenbeck: animals, people, illusions.*] Hamburg, Hamburger Abendblatt/Hamburg Museum.

HAGENBECK (C.), 1909: Beasts and men: being Carl Hagenbeck's experiences for half a century among wild animals. [*Transl. by H.S.R. Elliot & A.G. Thacker of Von Tiere und Menschen..*] London, Longmans, Green and Co.

REICHENBACH (H.), 1980: Carl Hagenbeck's Tierpark and modern zoological gardens. J. Soc. Bibl. Natural Hist. 9: 573.

ROTHFELS (N.), 2008: Die Revolution des Herrn Hagenbeck. [*Mr Hagenbeck's revolution.*] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. [*Man, animal and zoo. Schönbrunn zoo in international perspective from the 18th century to the present.*] Wien/Köln/Weimar, Böhlau: 203-24.

SOKOLOWSKY (A.), 1928: Carl Hagenbeck und sein Werk. [*Carl Hagenbeck and his work.*] Leipzig, Haberland. 176 pp.

STEINERT (A.): Illusionen statt Belehrung – Hagenbecks Zookonzept setzt sich durch. [*Illusions in stead of education – Hagenbeck's zoo concept persists.*] In: BREDLICH (R.W.), SCHNEIDER (A.) & WERNER (U.) (Hrsg.): Natur-Kultur. Volkskundliche Perspektiven auf Mensch und Umwelt. 32. Kongreß der Deutschen Ges. f. Volkskunde in Halle vom 27.9 bis 1.10.1999. [*Nature-Culture. Folklore perspectives on humans and the environment. 32nd Conf. German soc. for folklore in Halle, 27 Sept. to 1 Oct. 1999.*] Münster, Waxmann: 305-16.

VON KUENHEIM (H.), 2007: Carl Hagenbeck. Hamburg, Ellert & Richter. 216 pp.

- **History of zoos and aquariums (selective bibliography, with special reference to visitor experiences)**

BACKGROUND & FURTHER READING: HISTORY OF ZOOS AND AQUARIUMS – GENERAL

ANHALT (U.), s.d.: Darwin, zoos and the natural understanding of modern bourgeois society.
http://utzanhalt.de/?page_id=136

ANHALT (U.), s.d.: Sozialgeschichtliche Hintergründe der Entwicklung von Zoos. [Social history backgrounds of the development of zoos.] http://utzanhalt.de/?page_id=169

ANHALT (U.), 2006: Tiere und Menschen als Exoten – Exotisierende Sichtweisen auf das ‘Andere’ in der Gründungs- und Entwicklungsphase der Zoos. [Animals and humans as exotics – Exoticising views of the “other” in the early development phase of zoos.] Der Philosophischen Fakultät der Gottfried Wilhelm Leibniz Universität Hannover zur Erlangung eines Doktors der Philosophie (Dr.phil.) vorgelegte Dissertation. Hannover/Saarbrücken, Philosophischen Fakultät der Gottfried Wilhelm Leibniz Universität Hannover/VDM-Verlag. 404 pp.
Summary: <http://utzanhalt.de/wp-content/uploads/2008/11/kurzfassung.pdf>

BARATAY (E.) & HARDOUIN-FUGIER (E.), 2002: Zoo. A history of zoological gardens in the West. Transl. by Oliver Welsh. London, Reaktion Books. 400 pp.

BELOZERSKAYA (M.), 2006: The Medici giraffe – and other tales of exotic animals and power. New York/Boston/London, Little, Brown and Co. 416 pp.

BURHENNE (V.), 2010: ZooGeschichte(n) – Wilde Tiere für Europa. Begleitbuch zur gleichnamigen Wanderausstellung des Westfälischen Pferdemuseums und des LWL Museumsamtes für Westfalen in Kooperation mit dem Allwetterzoo Münster. [Zoo history (histories) – Wild animals for Europe. Book accompanying the travelling exhibition of the Westfalian Horse Museum and the LWL Museum Department for Westfalia in cooperation with Allwetterzoo Münster.] Münster, LWL Museumsamt für Westfalen.

DHÉNIN (P.), 2004: Histoire de la communication: évolution de la communication des établissements zoologiques de 1902 à 2002. [History of communication: evolution of communication by zoological institutions from 1902 until 2002.] ZooCom, Zoodyssée Chizé, Octobre 2004.

DITTRICH (L.), VON ENGELHARDT (D.) & RIEKE-MÜLLER (A.) (Hrsg.), 2001: Kulturgeschichte des Zoos. [A cultural history of the zoo.] Ernst-Haeckel-Haus-Studien. Monographien zur Geschichte der Biowissenschaften und Medizin. Band 3. Berlin, Verlag f. Wissenschaft & Bildung. 216 pp.

GENSCH (W.), 1972: Geschichte, Bedeutung und Aufgaben Zoologischer Gärten. [History, significance and tasks of zoological gardens.] In: BÜRGER (M.) et al (Hrsg.): Wildtiere in Menschenhand. Grundlagen. [Wild animals in human care.] Berlin, VEB Deutscher Landwirtschaftsverlag:

GRZIMEK (B.), 1972: Was Zoologische Gärten waren und sind. [Zoological gardens: past and present.] Minutes & proc. Int'l Conf. Educ. in Zool. Gdns, Frankfurt Zoo, Sept. 13-16, 1972. Frankfurt, Zool. Garten der Stadt Frankfurt/M.: 8-19.

HILL (A.W.), 1915: The history and functions of botanic gardens. Annals Missouri Bot. Garden 2:

HOLTHOF (M.), 2007: Natura Artis Magistra. In: DE KUYPER (E.), FRANCK (S.), HOLTHOF (M.), DE BONT (R.), ODDING (A.) & NESPOLI (T.): Animalomania. Images of animals and people in some films from the 1910s and some 19th century art and culture. Antwerpen. Imagination in context 5. Koninklijk Museum voor Schone Kunsten Antwerpen: 15-39.

HOLTORF (C.), 2000: Sculptures in captivity and monkeys on megaliths: observations in zoo archaeology. Public Archaeology 1: 195-210.

HOLTORF (C.), 2008: Zoos as heritage: an archaeological perspective. Int'l J. Heritage Studies 14(1): 3-9.

HOLTORF (C.) & VAN REYBROUCK (D.), 2003: Towards an archaeology of zoos. Int. Zoo News 50(4): 207-15.

- HYAMS (E.), 1971: A history of gardens and gardening. London, Dent.
- KAWATA (K.), 2000: From Regent's Park to the Bronx: a history of zoos. Interpretation 5(3): 3-5.
- KISLING Jr (V.N.) (ed.), 2001: Zoo and aquarium history. Ancient animal collections to zoological gardens. Boca Raton/London, CRC. 416 pp.
- KOURIST (W.), 1978: Zur Geschichte der Zoologischen Gärten. [*On the history of zoological gardens.*] Unterricht Biologie 24/25 (Unterricht im Museum): 85-88.
- LOISEL (G.), 1912: Histoire des menageries de l'antiquité à nos jours. [*History of menageries from antiquity to our times.*] 3 vols. Paris, O. Doin et Fils/Henri Laurens.
- MURPHY (J.B.), 2007: Herpetological history of the zoo and aquarium world. Melbourne (FL), Krieger.
- POLEY (D.), 1993: Wie der Mensch zum Zoo kam: eine kurze Geschichte der Wildtierhaltung. [*How man came to the zoo: a short history of wild animal keeping.*] In: POLEY (D.) (Hrsg.): Berichte aus der Arche. Nachzucht statt Wildfang; Natur- und Artenschutz im Zoo; Menschen und Tiere; Die Zukunft der Zoos. [*Messages from the ark. Captive bred vs wild caught; Nature and species conservation at the zoo; Humans and animals; The future of zoos.*] Stuttgart, Trias Thieme Hippocrates Enke: 9-23.
- PREST (J.), 1981: The Garden of Eden: the botanic garden and the re-creation of Paradise. New Haven, Yale UP. 122 pp.
- PYENSON (L.) & SHEETS-PYENSON (S.), 1999: Servants of nature. A history of scientific institutions, enterprises and sensibilities. London, HarperCollins. 496 pp.
- ROTHFELS (N.), 2002: Savages and beasts. The birth of the modern zoo. Baltimore, Johns Hopkins UP. 268 pp.
- STREHLOW (H.), 2000: Ein Blick zurück – Zoohistorie ist kein Luxus. [*A glance back – zoo history is no luxury.*] Milu 10(2): 173-83.

BACKGROUND & FURTHER READING: ZOO HISTORY OF SPECIFIC REGIONS/COUNTRIES AND INDIVIDUAL INSTITUTIONS (WITH REFERENCE TO VISITOR EXPERIENCES) - GENERAL

- GAEKWAD (F.R.), 1988: Why did the Maharajas start the zoos? Zoos' Print 10(1):
- HYAMS (E.), 1969: Great botanical gardens of the world. London, Thomas Nelson & Sons.
- ZUCKERMAN (S.) (ed.), 1980: Great zoos of the world: their origins and significance. Boulder, Westview Press.

- **Zoo history of specific regions/countries and individual institutions (with reference to visitor experiences)**
– Europe – General

ON-GOING OR UNPUBLISHED STUDIES

ÅKERBERG (S.), 2001: Knowledge and pleasure at Regent's Park: the gardens of the Zoological Society of London during the Nineteenth Century. PhD diss.. Umeå, Dept of Historical Studies, Umeå Univ.

BACKGROUND & FURTHER READING: ZOO HISTORY OF SPECIFIC REGIONS/COUNTRIES AND INDIVIDUAL INSTITUTIONS (WITH REFERENCE TO VISITOR EXPERIENCES) - EUROPE - GENERAL

AERTS (R.), 2002: Burgerlijke scientisme? Over wetenschappelijke en burgerlijke cultuur 1840-1880. [*Middle-class scientism? On scientific and middle-class culture 1840-1880.*] In: Geleerden en leken: de wereld van de Hollandse Maatschappij der Wetenschappen 1840-1880. [*Scientists and laymen: the world of the Hollandse Maatschappij der Wetenschappen (Dutch Society of Sciences) 1840-1880.*] Haarlem/Rotterdam, Hollandsche Maatschappij der Wetenschappen/Werkgroep 19^e Eeuw: 17-31.

ALLEN (D.E.), 1976: The naturalist in Britain: a social history. London, Allen Lane.

ALLIN (M.), 1998: Zarafa: a giraffe's true story, from deep in Africa to the heart of Paris. New York, Walker.

ALTICK (R.D.), 1978: The shows of London. Cambridge, Harvard UP.

BAETENS (R.), 1993: The chant of paradise: the Antwerp Zoo: 150 years of history. [*Transl. A. Belien-Colen of De roep van het paradijs: 150 jaar Antwerpse Zoo.*] Tielt, Lannoo. 264 pp.

BARBER (L.), 1980: The heyday of natural history. London, Jonathan Cape.

BLUNT (W.), 1976: The ark in the park: the Zoo in the Nineteenth Century. London, Hamish Hamilton. 256 pp.

BRAUMAN (A.) & DEMANET (M.), 1985: Le Parc Leopold 1850-1950. Le zoo, la cité scientifique et la ville. [*Leopold Park 1850-1950. The zoo, the scientific centre and the city.*] Bruxelles, Archives d'Arch. Moderne. 180 pp.

BURKHARDT JR (R.W.), 2002: Constructing the zoo: science, society, and animal nature at the Paris Ménagerie, 1794-1838. In: HENNINGER-VOSS (M.) (ed.): Animals in human histories: the mirror of nature and culture. Rochester, Univ. of Rochester Press: 231-57.

BURT (J.), 2002: Violent health and the moving image. London Zoo and Monkey Hill. In: HENNINGER-VOSS (M.) (ed.): Animals in human histories: the mirror of nature and culture. Rochester, Univ. of Rochester Press: 258-92.

CASE (D.), 2000: Glam rock, punk rock & VPL. London Zoo on the 1970s. Bartlett Soc. J. 11: 21-29; 40.

DE VRIES (L.), 1981: Het boek van Artis. [*The Artis book.*] Utrecht, Bruna. 162 pp.

EGOROVA (L.V.) (ed.), 2004: Moskovskii Zoologicheskii Park, k 140-letyu so dnya osnovanya, stranitsi istorii. [*Moscow Zoological Park, 140th anniversary, historical pages.*] Moskwa, Izdatelstvo Ellis Lak 2000. 297 pp.

FIEDLER (W.) (Hrsg.), 1976: Tiergarten Schönbrunn – Geschichte und Aufgabe. [*Schönbrunn Zoo – history and purpose.*] Wien, Verband der wissensch. Gesellschaften.

GERRITSEN (A.) (red.), 2007: Iets grootsch & buitengewoont. 150 jaar Rotterdamse Diergaarde. [*Something magnificent and extraordinary. 150 years of Rotterdam Zoo.*] 857/2007. Rotterdam, Diergaarde Blijdorp. 304 pp.

GIPPOLITI (S.), 2010: La giungla di Villa Borghese: I cento anni del Giardino Zoologico di Roma. [*The jungle of Villa Borghese: a hundred years of Rome zoological garden.*] Latina, Belvedere. 206 pp.

HEINDL (G.), 2006: Start in die Moderne: die Kaiserliche Menagerie unter Alois Kraus. [*Starting into modern times: the Imperial Menagerie under Alois Kraus.*] Wien, Braumüller-Verlag. 206 pp.

- KEELING (C.H.), 1984: Where the lion trod: a study of forgotten zoological gardens. Guildford, Clam Publications.
- KOURIST (W.), 1989: Kultur, Zivilisation und Wildtierhaltung (WTH) in Europa. [Culture, civilization and wild-animal keeping in Europe.] Linz am Rhein, privately published. 62 pp.
- LAMBRECHTS (W.), 2007: De geschiedenis van de Belgische dierentuinen. Een verhaal van wedijver, vermaak en exotische dieren in de stad. [The history of Belgian zoos. A story of competition, entertainment and exotic animals in the city.] In: BROUCKE (K.) (samenst.): O dierbaar Antwerpen. Over olifanten, mensen en andere stadse dieren. [Antwerp animalized. On elephants, humans and other urban animals.] Tielt/Antwerpen, Lannoo/Antwerpen Open: 118-23.
- LOISEL (G.), 1907: Rapport sur une mission scientifique dans les jardins et établissements zoologiques publics et privés du Royaume-Uni, de la Belgique et des Pays-Bas. [Report on a scientific mission to the public and private zoological gardens and establishments of the United Kingdom, Belgium and The Netherlands.] Nouvelles Archives de Missions Scientifiques 14(3): 1-124.
- MEHOS (D.C.), 2006: Science and culture for members only. The Amsterdam Zoo Artis in the Nineteenth Century. Amsterdam, Amsterdam UP. 208 pp.
- NIEUWENDIJK (J.G.), 1963: 125 jaar Natura Artis Magistra. [125 years of Natura Artis Magistra.] Ons Amsterdam 15: 97-129.
- NIEUWENDIJK (J.G.), 1970: Zoo was Artis – zo is Artis. [Artis as it was – Artis as it is.] Amsterdam, J.H. de Bussy. 176 pp.
- OSBORNE (M.A.), 1994: Nature, the exotic, and the science of French colonialism. Bloomington, Indiana UP.
- PECHLANER (H.), 1987: Alpenzoo Innsbruck-Tirol-Austria. 25 Jahre Forschung und Naturschutz, Erholung und Bildung. [Alpenzoo Innsbruck-Tirol-Austria. 25 years of research and nature conservation, recreation and education.] Innsbruck, Alpenzoo Innsbruck.
- REDEKER (G.) & NIEUWENDIJK (J.G.), 1988: Artis en de wereld. [Artis and the world.] Dieren 5: 3-17.
- RITVO (H.), 1987: The animal estate: the English and other creatures in the Victorian Age. Cambridge/Harmondsworth, Harvard UP/Penguin. 348 pp.
- SMIT (P.), 1988: Artis. Een Amsterdamse tuin. Nieuwe Nederlandse Bijdragen tot de Geschiedenis der Geneeskunde en der Natuurwetenschappen. No. 28. [Artis. An Amsterdam garden. New Dutch Contributions to the History of Medicine and of Natural Sciences. No. 28.] Amsterdam, Rodopi. 392 pp.
- VEVERS (G.) (ed.), 1976: London's Zoo: an anthology to celebrate 150 years of the Zoological Society of London. London, Bodley Head.
- ZUCKERMAN (Lord S.), 1976 (ed.): The Zoological Society of London, 1826-1976 and beyond. Symposia of the Zoological Society of London no. 40. London, Academic Press.

BACKGROUND & FURTHER READING: ZOO HISTORY OF SPECIFIC REGIONS/COUNTRIES AND INDIVIDUAL INSTITUTIONS (WITH REFERENCE TO VISITOR EXPERIENCES) - GERMANY

ALBRECHT (U.), 2000: Vergnügen und Belehrungen: Die Geschichte bürgerlicher Stuttgarter Tiergärten im 19. Jahrhundert. 1. Teil: G. Werners "Zoologischer Garten" 1840-1874. [Entertainment and education – zoos in 19th-century Stuttgart. 1st part: G. Werners "Zoological Gardens" 1840-1874.] Der Zool. Garten 70(3): 171-93.

ALBRECHT (U.), 2001: Vergnügen und Belehrungen: Die Geschichte bürgerlicher Stuttgarter Tiergärten im 19. Jahrhundert. 2. Teil: Nills Tiergarten (1871-1906). [Entertainment and education – zoos in 19th- century Stuttgart. 2nd part: Nills Zoo (1871-1906)] Der Zool. Garten 71(1): 15-56.

GORGAS (M.) & SCHWEINBERGER (W.), 1986: Tiere – Kaiser – Anekdoten. Von Fuggers Menagerie zum

Großstadtzoo. [Animals – emperors – anecdotes. From Fugger's menagerie to urban zoo.] Gersthofen, Vindelica. 194 pp.

GRETZSCHEL (M.), GILLE (K.) & ZAPF (M.), 2007: Hagenbeck: ein zoologisches Paradies. [Hagenbeck: a zoological paradise.] Bremen, Temmen. 192 pp.

GRETZSCHEL (M.) & PELC (O.), 1998: Hagenbeck: Tiere, Menschen, Illusionen. [Hagenbeck: animals, people, illusions.] Hamburg, Hamburger Abendblatt/Hamburg Museum.

HAGENBECK (C.), 1909: Beasts and men: being Carl Hagenbeck's experiences for half a century among wild animals. [Transl. by H.S.R. Elliot & A.G. Thacker of Von Tiere und Menschen..] London, Longmans, Green and Co.

HÄSSLIN (J.J.) & NOGGE (G.), 1985: Der Kölner Zoo. [Cologne Zoo.] Köln, Greven. 218 pp.

KLÖS (H.-G.), 1969: Von Menagerie zum Tierparadies: 125 Jahre Zoo Berlin. [From menagerie to animal paradise: 125 years of Berlin Zoo.] Berlin, Haude und Spener.

KLÖS (H.-G.), FRÄDRICH (H.) & KLÖS (U.), 1994: Die Arche Noah an der Spree. [Noah's Ark on the River Spree.] Berlin, FAB Verlag.

KLÖS (H.-G.) & KLÖS (U.), 1990: Der Berliner Zoo im Spiegel seiner Bauten, 1841-1989: eine baugeschichtliche und denkmalpflegerische Dokumentation über den Zoologischen Garten Berlin. [Berlin Zoo as reflected by its buildings, 1841-1989: an architectural history and heritage record on the Berlin zoological gardens.] Berlin, Heenemann.

KLÖS (U.), 1977: Der Berliner Zoo. Über seine Geschichte, seine Tiere und Besucher. [The Berlin Zoo. On its history, its animals and visitors.] Berliner Forum 2/77. Berlin, Presse- und Informationsamt des Landes Berlin.

REICHENBACH (H.), 1980: Carl Hagenbeck's Tierpark and modern zoological gardens. J. Soc. Bibliography of Natural History 9: 573-85.

RIEKE-MÜLLER (A.) & DITTRICH (L.), 1998: Der Löwe brüllt nebenan: die Gründung zoologischer Gärten im deutschsprachigen Raum 1833-1869. [The lion roars nextdoor: the foundation of zoological gardens in the German-speaking world 1833-1869.] Köln, Böhlau.

SCHERPNER (C.), 1983: Von Bürger für Bürger: 125 Jahre Zoologischer Garten Frankfurt am Main. [By citizens for citizens: 125 years of Frankfurt Zoological Gardens.] Frankfurt, Zool. Garten der Stadt Frankfurt/M.. 214 pp.

- **Zoo history of specific regions/countries and individual institutions (with reference to visitor experiences)**
 - North America

ON-GOING OR UNPUBLISHED STUDIES

HANSON (E.A.), 1996: Nature civilized: a cultural history of American zoos 1870-1940. PhD diss.. Philadelphia, Univ. of Philadelphia.

STOTT (R.J.), 1981: The American idea of a zoological park: an intellectual history. PhD diss.. Santa Barbara, Univ. of California.

BACKGROUND & FURTHER READING: ZOO HISTORY OF SPECIFIC REGIONS/COUNTRIES AND INDIVIDUAL INSTITUTIONS (WITH REFERENCE TO VISITOR EXPERIENCES) – NORTH AMERICA

BRIDGES (W.), 1974: Gathering of animals: an unconventional history of the New York Zoological Society. New York, Harper & Row. 518 pp.

DESIDERIO (F.), 2000: Raising the bars: the transformation of Atlanta's Zoo, 1889-2000. Atlanta History XLIII: 7-51.

FRIEDERICI ROSS (A.), 1997: Let the lions roar! The evolution of Brookfield Zoo. Brookfield, Chicago Zool. Soc.. 273 pp.

GODDARD (D.) (ed.), 1995: Saving wildlife: a century of conservation. New York, WCS.

HOROWITZ (H.L.), 1975: Animal and man in the New York Zoological Park. New York History 56: 426-55.

HOROWITZ (H.L.), 1981: Seeing ourselves through the bars: a historical tour of American zoos. Landscape 25: 12-19.

KISLING Jr (V.N.), 1996: The origin and development of American zoological parks to 1899. In: HOAGE (R.) & DEISS (W.) (eds.): New worlds, new animals: from menagerie to zoological park in the Nineteenth Century. Baltimore/London, Johns Hopkins Press:

WEGEFORTH (H.M.) & MORGAN (N.), 1990: It began with a roar: the beginning of the world-famous San Diego Zoo. Rev. ed.. San Diego, Zool. Soc. of San Diego.

BACKGROUND & FURTHER READING: ZOO AND AQUARIUM HISTORY - SPECIFIC PERIODS

- BLUNT (W.), 1976: The ark in the park: the zoo in the Nineteenth Century. London, Hamish Hamilton. 258 pp.
- BODSON (L.), 1998: Contribution à l'étude des critères d'appréciation de l'animal exotique dans la tradition grecque ancienne. [*Contribution to the study of criteria for appreciation of exotic animals in ancient Greek tradition.*] In: BODSON (L.) (ed.): Les animaux exotiques dans les relations internationales. [*Exotic animals in international relations.*] Liège, Univ. de Liège: 139-212.
- BUCHNER-FUHS (J.), : Gebändigte Wildheit im Stadtraum. Zur Geschichte der zoologischen Gärten im 19. Jahrhundert. In: BREDLICH (R.W.), SCHNEIDER (A.) & WERNER (U.) (Hrsg.): Natur-Kultur. Volkskundliche Perspektiven auf Mensch und Umwelt. 32. Kongreß der Deutschen Ges. f. Volkskunde in Halle vom 27.9 bis 1.10.1999. [*Nature-Culture. Folklore perspectives on humans and the environment. 32nd Conf. of the German soc. for folklore in Halle, 27 September to 1 October 1999.*] Münster, Waxmann: 291-304.
- CROSBY (A.W.), 1986: Ecological imperialism: the biological expansion of Europe, 900-1900. New York, Cambridge UP.
- DAUM (A.), 1998: Wissenschaftspopularisierung im 19. Jahrhundert: Bürgerliche Kultur, Naturwissenschaftliche Bildung und die Deutsche Öffentlichkeit, 1848-1914. [*Popularization of science in the 19th century: middle-class culture, natural sciences education and German public life, 1848-1914.*] München, Oldenbourg.
- DIETRICH (L.) & RIEKE-MÜLLER (A.), 1998: Carl Hagenbeck (1844-1913). Frankfurt am Main, Peter Lang.
- DITTRICH (L.), 1994: Zur Geschichte der Tierhaltung. [*On the history of animal keeping.*] Der Zool. Garten N.F., 64(2): 110-12.
- GRANT (T.), 2007: Entertaining animals 1558-1625. In: BOEHRER (B.) (ed.): A cultural history of animals in the Renaissance. A cultural history of animals. Vol. 3. Oxford, Berg.
- GROVE (R.H.), 1995: Green imperialism: colonial expansion, tropical island edens and the origins of environmentalism, 1600-1860. Cambridge, Cambridge UP.
- HOAGE (R.J.) & DEISS (W.) (eds.), 1996: New worlds, new animals: from menagerie to zoological park in the Nineteenth Century. Johns Hopkins UP, Baltimore/London. 200 pp.
- HUGHES (J.D.), 1975: Ecology in ancient civilizations. Albuquerque, Univ. of New Mexico Press.
- JAHN (I.), 1992: Zoologische Gärten in Stadtkultur und Wissenschaft im 19. Jahrhundert. [*Zoological gardens in urban culture and science in the 19th century.*] Berichte zur Wissenschaftsgeschichte 15: 213-25.
- JENNISON (G.), 2005: Animals for show and pleasure in ancient Rome. Philadelphia, Univ. of Philadelphia Press.
- KISER (L.), 2007: Animals in medieval sports, entertainments, and menageries. In: RESL (B.) (ed.): A cultural history of animals in the Medieval age. A cultural history of animals. Vol. 2. Oxford, Berg.
- KISLING Jr (V.N.), 2001: Ancient collections and menageries. In: KISLING Jr (V.N.) (ed.): Zoo and aquarium history. Ancient animal collections to zoological gardens. Boca Raton/London, CRC: 1-48.
- MALAISE (M.), 1987: La perception du monde animal dans l'Egypte ancienne. [*Perception of the animal world in ancient Egypt.*] Anthropozoologica VII: 28-48.
- PEREZ (C.), 1995: La symbolique de l'animal comme lieu et moyen d'expression de l'idéologie gentilice, personnelle et impérialiste de la Rome républicaine. [*Animal symbolism as a means of expression of the pagan, personal and imperialist ideology of the Roman republic.*] In: Homme et animal dans l'antiquité romaine. [*Man and animal in Roman antiquity.*] Tours: 259-75.
- RIEKE-MÜLLER (A.), 1995: Angewandte Zoologie und die Wahrnehmung exotischer Natur in der zweiten Hälfte des 18. und im 19. Jahrhundert. [*Applied zoology and the observation of exotic wildlife in the second half of the 18th and in the 19th century.*] History Philosophy Life Sciences 17: 461-84.

- RIEKE-MÜLLER (A.), 2002: Das zahme Wildtier – Représentant seiner Art und besserer Mensch? Der Zool. Garten als Lernort im 19. Jahrhundert. [*Tamed (wild) animals – representatives of their species or better Human? Zoological gardens as places of learning in the 19th Century.*] In: STIFTUNG DEUTSCHES HYGIENE-MUSEUM (Hrsg.): Mensch und Tier. Eine paradoxe Beziehung. [*Human and animal. A paradoxical relationship.*] Ostfildern-Ruit,
- RIEKE-MÜLLER (A.) & DITTRICH (L.), 1998: Der Löwe brüllt nebenan: die Gründung zoologischer Gärten im deutschsprachigen Raum 1833-1869. [*The lion roars nextdoor: the foundation of zoological gardens in the German-speaking world 1833-1869.*] Köln, Böhlau.
- RIEKE-MÜLLER (A.) & DITTRICH (L.), 1999: Unterwegs mit wilden Tieren: Wandermenagerien zwischen Belehrung und Kommerz 1750-1850. [*On the road with wild animals: travelling menageries between education and commerce 1750-1850.*] Marburg/Lahn, Basiliken-Presse.
- RITVO (H.), 1987: The animal estate: the English and other creatures in the Victorian Age. Cambridge, Harvard UP.
- ROBBINS (L.E.), 2002: Elephant slaves and pampered parrots. Exotic animals in eighteenth-century Paris. Baltimore, Johns Hopkins UP.
- ROTHFELS (N.), 2007: How the cages bird sings: entertainment and the exhibition of animals. In: KETE (K.) (ed.): A cultural history of animals in the Age of Empire. A cultural history of animals. Vol. 5. Oxford, Berg.
- STINN (K.), 2009: Von der Antike bis heute: ein museologischer Blick auf das ausgestellte lebende Tier. [*From Antiquity to the present: a museological view on live animal exhibits.*] Museum-Aktuell, Jan. 2009 :
- THOMAS (K.), 1983: Man and the natural world: changing attitudes in England, 1500-1800. London, Allen Lane.

BACKGROUND & FURTHER READING: INSTITUTIONAL EXHIBIT PHILOSOPHIES

- BOESE (G.K.), 1978: Forging a link to the visitor. Brookfield Bison 1978(2/3): 6-8.
- HARPLEY (P.), 2005: New exhibiry in a changing world. In: In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 49-60.
- HYSON (J.), 2000: Jungles of Eden. The design of American zoos. In: CONAN (M.) (ed.): Environmentalism in landscape architecture. Washington DC, Dumbarton Oaks Research Library & Collection: 23-44.
- POST (H.) & VAN HERK (R.), 2002: Education and exhibit design. The Rotterdam Zoo approach and Dutch zoo design in historical perspective. EAZA News 37: 14-16.
http://www.zoolex.org/publication/post/vanherk/design_rotterdam.html
- RAMBERG (J.S.), RAND (J.) & TOMULONIS (J.), 2002: Mission, message and visitors: how exhibit philosophy has evolved at the Monterey Bay Aquarium. Curator 45(4): 302-20.
- STROUD (P.), 1988: The exhibit philosophy of the Adelaide Zoo bird department. ASZK Conf. Proc..
- VAN VLIET (E.), 1999: The art of telling a different story. In: PLOWMAN (A.B.) & STEVENS (P.M.C.) (eds.): Conservation centres for the new millennium: proc. 5th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 138-40.

- **Naturalism: visitor studies**

ABRAHMSOM (D.), GENNARO (E.) & HELLER (P.), 1983: Animal exhibits: a naturalistic study. Roundtable Reports 8(2). Museum Educ. Roundtable.

ON-GOING OR UNPUBLISHED STUDIES :

ANON., 1979: Visitor responses to natural exhibits. Unpublished class paper, presented to Reid Park Zoo.

LESSOW (D.), 1990: Visitor perceptions of natural habitat zoo exhibits. Unpublished doctoral diss.. Bloomington, Indiana Univ.

SIIPI (H.), 2005: Naturalness, unnaturalness, and artifactuality in bioethical argumentation. Turku, Dept of Philosophy, Univ. of Turku.

BACKGROUND & FURTHER READING: NATURALISM

ÅKERBERG (S.), 1999: Nature simplified: the illusion of nature in zoos. In: MÅRALD (E.), NORDLUND (C.), PITKÄ-KANGAS (L.) & ÅKERBERG (S.) (eds.): Nature improved? Interdisciplinary essays on humanity's relationship with nature. Umeå, Kungl. Skytteanska Samfundet: 39-50.

BECK (U.), 1994: The naturalistic fallacy in the ecological movement. In: The Polity Reader in Social Theory. Cambrigde, Polity Press: 342-46.

FIEDELDEY (A.), 1994: Wild animals in a wilderness setting: an ecosystemic experience? Anthrozoös 7: 113-23.

HANCOCKS (D.), 1980: Bringing nature into the zoo. Int'l J. Study Animal Problems 1.

HANCOCKS (D.), 1981: Naturalistic solutions to zoo design problems. In: STEVENS (P.) (ed.): 3rd int'l symp. zoo design & construction. Paignton, Whitley Wildlife Trust.

HANCOCKS (D.), 1989 & 1990: Seeking to create illusions of wild places. Landscape Australia 2(3): 258-67; 2(4): 421-28 and 3(1): 62-69.

LINDAHL-ELLIOT (N.), 2005: The natures of naturalistic enclosures. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 89-97.

MCCLINTOCK (K.), 2005: Constructed realism: incorporating the principles of art and perception to communicate realistic natural habitat. In: PLOWMAN (A.B.) & TONGE (S.J.) (eds.): Innovation or replication? Proc. 6th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 37-42.

NYHART (L.), 2004: Science, art, and authenticity in natural history displays. In: DE CHADAREVIAN (S.) & HOPWOOD (N.) (eds.): Models: the third dimension of science. Stanford, Stanford UP:

POLAKOWSKY (K.J.), 1987: Zoo design: The reality of wild illusions. Ann Arbor, Univ. of Michigan School of Natural Resources. 194 pp.

SWIFT (J.), 1986: How natural is "naturalistic"? Visitor Behav. 1(1): 3.

TAYLOR (A.), 1987: Synthesizing nature. A history of naturalistic display in museums, zoos and theme parks. AAZPA Ann. Conf. Proc.:

WESSELY (C.), 2007: Lesarten des Natürlichen. Tiergärten und urbaner Raum. [Readings of the natural. Zoos and urban space.] In: ASH (M.G.) (Hrsg.): Mensch, Tier und Zoo. Der Tiergarten Schönbrunn im internationalen Vergleich vom 18. Jahrhundert bis heute. Wien/Köln/Weimar, Böhlau: 133-50.

ZOGLAUER (T.), 1997: Das Natürliche und das Künstliche. [The natural and the artificial.] In: BAUMÜLLER (B.),

KUDER (U.) & ZOGLAUER (T.) (Hrsg.): Inszenierte Natur. Landschaftskunst im 19. und 20. Jahrhundert. [*Staged nature. Landscape art in the 19th and 20th Century.*] Stuttgart, DVA: 145.

BACKGROUND & FURTHER READING: VIRTUAL ZOOS

DAVIES (G.), 2000: Virtual animals in electronic zoos: the changing geographies of animal capture and display. In: PHILO (C.) & WILBERT (C.) (eds.): Animal spaces, beastly places: new geographies of human-animal relations. London/New York, Routledge: 243-67.

GIPPOLITI (S.), 1999: Is there a place for virtual reality in zoos? Guest editorial. Int. Zoo News 46(7) : 390-91.

ORR (D.W.), 1996: Virtual nature. Conservation Biology 10: 8-9.

PARSONS (C.), 1988: The electronic zoo. IZE J. 20: 13-14.

34. FUTURE CHALLENGES

ON-GOING OR UNPUBLISHED STUDIES :

DE BOER (L.E.M.), 1985: Taken en problemen van de hedendaagse grote, culturele dierentuinen. [*Tasks and problems of contemporary major cultural zoos.*] Deel I en II. Rotterdam/Amsterdam, Stichting Kon. R'damse Diergaarde/Stichting tot instandhouding van de diergaarde van het Kon. Zoöl. Genootschap Natura Artis Magistra.

TONGE (S.), 2010: Is commercialism jeopardizing the zoo ideal? EAZA Directors' Day 2010, ZooParc de Beauval, 7-9 May 2010.

VAN ASSENDELFT DE CONINGH (R.), 2003: The contemporary zoo: theme parks with a vision! TILE 2003 Berlin.

BACKGROUND & FURTHER READING: FUTURE CHALLENGES

ACAMPORA (R.R.), 2010: Inventionist ethology: sustainable designs for reawakening human-animal interactivity. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 245-56.

AZA (1999): 2020 trend report: key trends for 1999 to 2020, their implications for the American Zoo and Aquarium Association and its members, and possible strategies to respond to those trends. Silver Springs, AZA.

BLACKWELL (S.) (ed.), 1990: Zoos: future considerations. Bristol, ABWAK. 60 pp.

BLASZKIEWITZ (B.), 1992: "Der Zoo der Zukunft" – wie wird er sein? ["*The zoo of the future*" – how will it be?] Milu 7(4): 241-47.

BLASZKIEWITZ (B.), 1994: Komm' mit durch den Bottleneck – Anmerkungen zu allerlei Modernismen in der Tiergartenbiologie. [Join me through the bottleneck – Remarks about various modernisms in zoo biology.] Milu 8: 2-4.

BRAMBELL (M.), 1993: The evolution of the modern zoo. Int. Zoo News 248: 27-34.

BRODEY (P.), 1981: The Links-Zoo: a recreational/educational facility for the future. Int. Zoo Yb. 21: 63-68.

BUTCHER (A.D.), 1990: The future of zoos. Thylacinus 15(2):

CATS (J.J.) & HARMSEN (C.N.), 1990: Toekomst in de dierentuin, een vergelijkend onderzoek tussen de Nederlandse en internationale dierentuinen. Sociaal Geografische Reeks, Onderzoeksverslagen 31. [*The future of the zoo, a comparative research project into Dutch and international zoos. Social Geographical Series, Research reports 31.*] Groningen, Fac. Ruimtelijke Wetenschappen, RU Groningen.

CHRULEW (M.), 2010: From zoo to Zoopolis: effectively enacting Eden. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 193-220.

COE (J.) & MENDEZ (R.), 2005: The Unzoo alternative. Originally prepared for the 2005 ARAZPA/SEAZA Joint Conf.. <http://www.zoolex.org/publication/coe/Unzoo150805.pdf>

CONWAY (W.), 1969: Zoos: their changing roles. Science 163 :

CONWAY (W.), 1989: A new kind of institution. AAZPA 1989 Ann. Proc.: 316-22.

CONWAY (W.G.), 1995: The conservation park: a new zoo synthesis for a changed world. In: WEMMER (C.M.) (ed.): The ark evolving: zoos and aquariums in transition. Washington DC, Smithsonian Inst.-Nat'l Zool. Park:

CONWAY (W.), 2003: The role of zoos in the 21st century. Int. Zoo Yb. 38: 7-13.

CONWAY (W.), 2007: Entering the 21st century. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.A.) & WEST (C.) (eds.): Zoos in the 21st century. Catalysts for conservation? Cambridge, Cambridge UP: 12-21.

CROWCROFT (P.), 1969: A zoo manifesto. Brookfield Bandarlog 36 :

DE BOER (L.E.M.), 2009: Taking up the challenge. Leobert E.M. de Boer reflects on what has been achieved under his chairmanship of EAZA, and what still lies ahead to be tackled. EAZA News 67: 28-29.

DUNBAVIN BUTCHER (A.), 1990: The future of zoos. Thylacinus 15(2) :

DUNBAVIN BUTCHER (A.), 1990: The future of zoos. In: BLACKWELL (S.) (ed.): Zoos: future considerations. Bristol, ABWAK: 9-15.

EMBURY (A.), 1999: Super-Model, Super-Zoo – putting conservation up on the catwalk. Guest editorial. Int. Zoo News 46(3): 130-33.

FRASER (J.) & WHARTON (D.), 2007: The future of zoos: a new model for cultural institutions. Curator 50: 41-54.

FROST (W.), 2010: Zoos and tourism in a changing world. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 227-35.

FROST (W.) & LAING (J.), 2010: Up close and personal: rethinking zoos and the experience economy. In: FROST (W.) (ed.): Zoos and tourism. Conservation, education, entertainment? Aspects of Tourism. Clevedon, Channel View Publications: 133-42.

GALEY (B.-P.), 2010 : Le zoo du XXIe siècle. [*The 21st Century zoo.*]

<http://www.zoonaute.net/vincennes-presentationprojet.html>

GENOWAYS (H.H.) (ed.), 2006: Museum philosophy for the Twenty-first Century. Lanham, Altamira. 310 pp.

GRANT (J.), 1993: The post-modern zoo. IZE J. 29: 148-

HATCHWELL (M.), RÜBEL (A.), DICKIE (L.), WEST (C.) & ZIMMERMANN (A.), 2007: Conclusion: the future of zoos. In: ZIMMERMANN (A.), HATCHWELL (M.), DICKIE (L.) & WEST (C.) (eds.): Zoos in the 21st Century: catalysts for conservation? Cambridge, Cambridge UP: 352.

HATLEY (J.), 1990: The crystal gazer's guide to zoo education. In: IZE Congress Antwerp '90 – 10-14 Sept. – Abstracts.

HEDIGER (H.), 1977: Zoologische Gärten. Gesteren – heute – morgen. [*Zoological gardens. Yesterday – today – tomorrow.*] Hallwag, Bern/Stuttgart. 110 pp.

HUTCHINS (M.), 2003: Zoo and aquarium animal management and conservation: current trends and future challenges. Int. Zoo Yb. 38: 14-28.

HUTCHINS (M.) & SMITH (B.), 2003: Characteristics of a world-class zoo or aquarium in the 21st century. Int. Zoo Yb. 38: 130-41.

JENSEN (R.), 1999: The dream society: how the coming shift from information to imagination will transform your business. New York, McGraw Hill.

JOY (J.), 1997 : BioParks : today and tomorrow. Guest editorial. Int. Zoo News 44(2) : 66-67.

KARSTEN (P.) & SHENG (Y.S.) (eds.), 1995: Zoo Future 2005. Formulated at the 1995 Future Search Workshop of the World Zoo Organization – IUDZG. Portland, WZO. 31 pp.

KAWATA (K.), 2002: Cultural icons, paychecks and litter: returning to the roots of zoos. Int. Zoo News 49(8): 452-64.

KEMMERER (L.), 2010: Nooz: ending zoo exploitation. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo.

- Animal encounter after Noah. Plymouth, Lexington Books: 37-56.
- KRAAK (T.), 2008: Zoos in transition. Research about the future of zoos. *Topos* 18(3): 52-55.
<http://www.tvkzoodesign.nl/sites/default/files/Zoos%20in%20Transition%20TOPOS.pdf>
- MALLINSON (J.C.), 1998: Zoos in a changing world. *Int. Zoo News* 45(3): 140-45.
- MAPLE (T.L.) & ARCHIBALD (E.F.), 1993: Zoo man. Inside the zoo revolution. Atlanta, Longstreet Press. 196 pp.
- MAZUR (N.), 2010: Afterword: Following zootopian visions. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 257-62.
- MCKENNA (V.), 1987: Past, present – future indicative. In: MCKENNA (V.), TRAVERS (W.) & WRAY (J.) (eds.): Behind the bars: the zoo dilemma.
- MOORE (L.), 1987: A new zoo view – changing the public perception. *AAZPA* 1987 Reg. Proc.: 343-47.
- MORRIS (D.), 1968: Must we have zoos? *Life Magazine* 65: 78.
- NIJS (D.) & PETERS (F.), 2002: Imagineering. Het creëren van belevingswerelden. [*Imagineering. Creating worlds of experience.*] Amsterdam, Boom. 288 pp.
- NOGGE (G.), 1996: Was wird von einem Zoo im 21. Jahrhundert gefordert? [*What will be expected of the 21st Century zoo?*] In: *ZooKunft* 1996. Zoos im Einklang mit der Welt-Zoo-Naturschutzstrategie. Eisenmetall-Halle, Gelsenkirchen, 24.-25. Feb. 1996. [*Zoos in harmony with the World Zoo Conservation Strategy.*] Münster, Schüling: 12-20.
- NOGGE (G.), 1998: "Quo vadis Zoo?" Gedanken zum Selbstverständnis Zoologischer Gärten. Festvortrag anlässlich der Einweihung des Regenwaldhauses im Krefelder Zoo am 15. Aug. 1998. [*"Quo vadis zoo?" Ideas on the self awareness of zoological gardens. Opening speech on the occasion of the inauguration of the rainforest house at Krefeld Zoo on 15 Aug. 1998.*]
- NORTON (B.), 1985: Learning from nature: zoos in a technological age. *AAZPA* 1985 Reg. Proc.: 8-17.
- O'BRIEN (K.), 2009: Goodbye Jumbo. The identity crisis of the modern zoo. *The Boston Globe*, 26 July 2009.
http://www.boston.com/bostonglobe/ideas/articles/2009/07/26/the_identity_crisis_of_the_modern_zoo/?page=4
- OLLASON (R.J.), 1999: Potential paths. In: P ANDERSEN (L.L.) et al: Education/interpretation – a vehicle for change. *IZE Congress* 1996, 1-7 September, Copenhagen Zoo, Denmark. København, Zoo København: 151-54.
- PEDERSEN (H.) & DIAN (N.), 2010: Earth Trusts: a quality vision for animals? In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 171-92.
- PIES-SCHULZ-HOFEN (R.), 1994: Der Zoo der Zukunft – wie lässt er sich pädagogisch gestalten? [*The zoo of the future – how will it be designed from an educational point of view?*] In: BÜCHLER (A.) (Hrsg.): Tagungsbericht 11. Tagung deutschsprachiger Zoopädagogen. [*Conf. proc. 11th Conf. of German-speaking zoo educators.*] Bern, VZP/Tierpark Dählhölzli: 19-35.
- PIES-SCHULZ-HOFEN (R.), 1996: Gedanken zur Rolle der Zoopädagogik in Gegenwart und Zukunft. [*Thoughts on the past and future role of zoo education.*] *ZooKunft* 2, 1996: 64-78.
- RABB (G.), 1980: The animals and zoos of 2001. *Brookfield Bison*, April/May 1980: C1-C4.
- RABB (G.B.), 2004: The evolution of zoos from menageries to centers for conservation and caring. *Curator* 47(3): 237-46.
- RABB (G.B.) & SAUNDERS (C.D.), 2005: The future of zoos and aquariums: conservation and caring. *Int. Zoo Yb.* 39: 1-26.
- REGAN (J.), 2005: The Manifesto for Zoos. Manchester, John Regan Associates.

- ROBINSON (M.H.), 1986: Zoos today and tomorrow. AAZPA 1986 Reg. Proc.: 527-31.
- ROBINSON (M.H.), 1987: Towards the BioPark: the zoo that is not. AAZPA Ann. Proc. 1987: 678-82.
- ROBINSON (M.H.), 1989: The zoo that is not: education for conservation. Conservation Biology 3: 213-15.
- SCHMIDT (C.R.), 1978: Der Zoo der Zukunft. [*The zoo of the future.*] In: SCHNIEPER (R.) (Red.): Das Buch vom Zoo. [*The zoo book.*] Luzern/Frankfurt, C.J. Bucher: 176-92.
- SHENG (Y.S.), 1989: The key to our future. AAZPA 1989 Ann. Proc.: 310-13.
- SPOTTE (S.), 2006: Zoos in Postmodernism: signs and simulation. Madison/Teaneck, Fairleigh Dickinson UP.
- STEVENS (P.), 1999: Zoos for the 21st century. In: PLOWMAN (A.B.) & STEVENS (P.M.C.) (eds.): Conservation centres for the new millennium: proc. 5th Int'l Symp. Zoo Design. Paignton, Whitley Wildlife Conservation Trust: 3-6.
- VAN DER STRAETEN (E.), 1991: De rol van de dierentuin in de moderne maatschappij. [*The role of zoos in modern society.*] Jaarboek 1991 VOB – Vereniging voor het Onderwijs in de Biologie, de Milieuleer en de Gezondheidseducatie. Antwerpen, De Sikkel: 65-74.
- VAN HERK (R.) & PETERS (C.), 1998: Attractieparken en dierentuinen horen bij elkaar. [*Attraction parks and zoos belong together.*] De Harp 17(4): 6-11.
- VEVERKA (J.A.), s.d.: Interpretive planning for the next millennium – the “product of the product” – “outcome based planning” and the “experience economy”.
http://portal.uni-freiburg.de/interpreteurope/service/publications/recommended-publications/veverka-interpretive_planning.pdf
- WEAVER (S.), 2007: Creating great visitor experiences: a guide for museums, parks, zoos, gardens, & libraries. Walnut Creek, Left Coast Press. 208 pp.
- WETZEL (J.A.) & O'BRIEN (M.), 1995: Aquariums: a look into the future. Int. Zoo Yb. 34: 1-6.
- WHEATER (R.J.), 1985: Zoos of the future. Symp. Zool. Soc. London 54: 111-19.
- WOLCH (J.), 1998: Zoopolis. In: WOLCH (J.) & EMEL (J.) (eds.): Animal geographies: place, politics and identity in the nature-culture borderlands. London/New York, Verso.
- WOLCH (J.), 2010: Zoopolis. In: ACAMPORA (R.R.) (ed.): Metamorphoses of the zoo. Animal encounter after Noah. Plymouth, Lexington Books: 221-44.

