

APPENDIX ONE.

PUBLICATIONS

While developing planning and design projects I also found time for writing, lecturing and publishing on related topics. These are essential features of the learning-doing-teaching triad. Preparing and delivering publications and lectures embodies all three elements, and the resulting teaching impact on the readership and audience supports their learning and doing adventures.

My first attempt at scientific publishing was the preparation of my master's thesis at the Harvard Graduate School of Design in 1966. For the next decade most of my technical writing was in the form of master plan publications for large Canadian provincial parks. As described earlier, my collaboration with Grant Jones, David Hancocks and Dennis Paulson resulted in the award-winning 1976 Woodland Park Zoo Long-range Plan, now an international zoo book collector's prize. While I was a co-author, most of the text and many of the illustrations were my work.

My most influential paper Design and Perception was published in 1985 in the Journal of Zoo Biology with the support of Founding Editor Dr Terry Maple. It described ways to use human behaviour and psychology to design more arresting and memorable exhibits. Other authors use it as the standard reference explaining "immersion design" and it has received over 160 citations and over 10,500 "reads" on Research Gate as of January 2024.

Others of my papers I consider most influential include:

- "Zoo Animal Rotation: New Opportunities from Home Range to Habitat Theater" 1995.
- "Increasing Affiliative Behavior between Zoo Animals and Zoo Visitors" 1999.
- "The Unzoo Alternative" 2005.
- "Third Generation Conservation" 2009.
- "Embedding Environmental Enrichment into Zoo Animal Facility Design" 2019.
- "Design and Architecture: Third Generation Conservation, Post-Immersion and Beyond" (Future of Zoos) 2012.
- "Confronting Back-of-House Traditions: Primates as a Case Study" 2022.
- "Welfare Through Competence: A Framework for Animal-Centric Technology Design" 2022.
- Jon Coe Design. Susan helped me design and code this zoo design text as an interactive website in 2021.

As of mid-2025, I've published eighty-three papers related to zoo planning, design, and management. Subjects include zoo history, design methods and styles, zoo horticulture, animal welfare, including environmental enrichment, design for aging and infirm animals, primates and great apes, visitor experience and zoo education, use of computer technology in zoos, and zoo management systems. Most have been delivered to zoo conferences, many published in conference proceedings. I've also authored or co-authored twenty-three peer-reviewed papers and published book chapters. At this point the Research Gate website records over 35,000 "reads", 532 citations, and 26 recommendations on my informal and formal papers available there and not copyright protected by original publishers. These scores rank in the top 87% of papers published on Research Gate.

Inventing the Environment published 2003. A year previously, Dr. Joyce Bedi, Senior Historian from the Smithsonian Museum of American History in Washington DC, was organizing historic tours of America's capitol. She invited me to lead a tour of the National Zoological Park from the perspective of the history of zoo movements and trends, rather than the history of specific zoo buildings. I took the train from my office in Philadelphia to Washington DC, had an interesting lunch discussion with Joyce and led her tour. Some months later Joyce again contacted me about a new book they were developing through their Lemulson Center for Studies in Invention and Innovation. This book was to be called "Inventing the Environment" highlighting positive examples of environmental invention and innovation. There would be sections relating to different subjects such as "What Role Does Innovation Play in Urban Landscapes?" and "How Do Innovations in City Planning Shape Environments?" Each section was to have two essays and a profile of someone demonstrating positive innovation in that field. There would be six sections and six practitioners profiled. Dr. Michael Robinson, recently Director of the National Zoo and most outspoken proponent of "Bioparks" combining zoos, botanical gardens, and science museums (what we were attempting with the California Science Center) would write one of the essays in the section on Urban Landscapes. Would I be willing to be the innovator profiled in the first section? Of course I would! Biographer Martha Davidson then interviewed me and wrote a ten-page biography including one of my poems on creativity. "Inventing the Environment" was published in 2003.

LECTURES

I've had the opportunity to present lectures at universities and conferences in twenty-one countries. Venues included not only zoo groups but also the American Association for the Advancement of Science, American Museum of American History, American Museum Association, American Institute of Architects, American Society of Landscape Architects, American Veterinary Medicine Association, Art Institute of Chicago, Australian Primatological Society, and the Smithsonian Institution.

A major benefit of these engagements is the amazing colleagues one meets and friendships gained, some lifelong.

HONORS & AWARDS.

We work to achieve goals and for the joy experienced from well-crafted creation shared with collaborators. If fortunate, we support ourselves and our families while following our passions. Having one's ideas accepted, tested, found worthy, and then spreading based upon their merit is the best reward. Having one such achievement in a professional lifetime is rewarding. I'm especially pleased to have collaborated on four major zoo design innovations:

- Landscape immersion design with David Hancocks, Grant Jones, and Dennis Paulson. 1976. The resulting *Long-Range Master Plan for Woodland Park Zoo* was awarded the American Society of Landscape Architects (ASLA) President's Award (their highest award).
- Activity-based design & management (zoo animal rotation or habitat alternation) with Gary Lee and CLRdesign. 1995.
- Affiliative design. 1999.
- Animal trail systems with Andy Baker and CLRdesign. 2009.

American Zoo and Aquarium Association (AZA) Exhibit Awards (in various categories between 1981-2017). I was lead designer for eleven Awards. I doubt any single designer has won more.

Formal recognition has followed.

- Awarded a Fellow of the American Society of Landscape Architects. 1993. I have been a member of the American Society of Landscape Architects (ASLA) since the 1970s. When I lived in the USA I regularly attended their regional and national conferences. I served on the ASLA Magazine Editorial Board for one year. I am a proud member but didn't serve the society on any committees. To my surprise, I was nominated to become a Fellow by the Pennsylvania State Chapter. I suspect this was thanks to a nomination by colleague Mr. James Pashek with whom I had collaborated on the design of exhibits at Pittsburgh Zoo. About 10% of members achieve this honor. I was recognized for "Mastery of design in significant works of landscape architectural design or planning design, which have advanced the art, stewardship, science, and social responsibility of landscape architecture."
- Awarded to become a Bracken Fellow by Pennsylvania State University. 2000.
- Profiled in *Inventing the Environment*, Lemulson Center for the Study of Invention and Innovation, Smithsonian National Museum of American History. 2003.

Esquire Register Award. In 1988 I was informed by the editors of Esquire Magazine that I was among thirty-eight men and women "...whose vision and determination are reshaping our professions and thus determining the future course of American life..." to be honored on their 5th Annual Esquire Register. This was awarded during a special

dinner Susan and I enjoyed at New York's swanky "21" Club. My photo and accomplishment summary appeared in their December issue that year.

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