

## CURRICULUM VITA

### **John Howard Falk**

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Born: December 6, 1948, Los Angeles, California

#### **Education**

- 1974 Ph.D.; Biology and Education, University of California, Berkeley.  
1972 M.A.; Zoology, Vertebrate Natural History/Ecology, University of California, Berkeley.  
1972 Secondary Teaching Credential; California Life Credential; Biological/Physical Sciences,  
University of California, Berkeley.  
1970 B.A.; Zoology, University of California, Berkeley.

#### **Professional Experiences**

- 2023-present Founder/CEO, Institute for Learning Innovation, Oregon  
2014-2022 Founder/Executive Director, Institute for Learning Innovation, Oregon  
2017-present Emeritus Sea Grant Professor of Free-Choice Science Learning,  
Oregon State University  
2006-2016 Sea Grant Professor of Free-Choice Science Learning, Colleges of Education &  
Science, Oregon State University  
2010-2014 Director/Founder, Center for Research on Lifelong STEM Learning  
Oregon State University  
2013 Visiting Scholar, National Council of Science Centres, Kolkata, India  
2010 W. James Whyte Visiting Honorary Research Professor, School of Tourism,  
University of Queensland, Brisbane, Australia  
2009 Visiting Professor, Department of Science & Mathematics Education,  
Universidad de Antioquia, Medellin, Colombia  
2009 Visiting Professor, School of Tourism, University of Queensland, Brisbane, Australia  
1986-2007 Founder/President/Director, Institute for Learning Innovation, Annapolis, Maryland  
1986-1987 Adjunct Professor, Early Childhood Science Education, University of Maryland,  
College Park  
1984-1986 Special Assistant for Education to Assistant Secretary, Smithsonian Institution,  
Washington, DC  
1982-1984 Director, Smithsonian Office of Educational Research, Smithsonian Institution,  
Washington, DC  
1974-1982 Associate Director, Smithsonian Center for Environmental Research (Chesapeake  
Bay Center for Environmental Studies), Smithsonian Institution, Edgewater, MD

## **Professional Boards and Activities**

Associate Editor: ICOM (International Committee on Museums) *Dictionary of Museology* (2017-2022)

Editorial Board: *Curator: The Museum Journal* (1998-2022)

Co-Editor: Learning in Everyday Life section, *Science Education* (1997-2011)

Editorial Board: *Journal of Museum Education* (1984-1988; 2005-2008)

International Juror, Falling Walls Foundation (2022)

Chair, Future of Education and Work strand, 9<sup>th</sup> Science Centre World Summit (2020)

National Education Advisory Committee, Laser Interferometer Gravitational-Wave Observatory (LIGO) (2019 – 2022)

International Selection Committee, NARST Distinguished Career Research Award, NARST (2019-2022)

National Education Committee, U.S. National Park Service (2011-2016)

National Chair, U.S. National Park Service Summit on Learning (2014-2016)

Co-Director, U.S. Center for the Advancement of Informal Science Education (2007-2018)

Education Committee, Oregon Museum of Science & Industry (2011-2016)

Consensus Study Member, Out of School Time STEM Learning, National Academies of Science, (2014-2015)

Board of Directors, National Association for Research in Science Teaching (2010-2012)

Governor's Task Force on Environmental Education (Oregon) (2009-2013)

International Advisory Board, International Human Dimensions Program on Global Environmental Change (2009-2012)

International Advisor, National Panda Preserve, Chengdu, China (2010)

National Advisory Board, Measuring Social Impact in Museums project (2020-2023)

National Advisory Board, Talking Science: Early STEM identity formation through science talk CAREER Project (2020-present)

National Advisory Board, Winter Worlds Project (2018-present)

National Advisory Board, Revealing Systemic Impacts of a 12-Year Statewide Science Field Trip Program (2018-present)

National Advisory Board, OSU Center for Research on Lifelong STEM Learning (2014-present)

National Advisory Board, Hot Times in Cold Places: The Hidden World of Permafrost Project (2014-2018)

National Advisory Board, STEM Learning in Libraries (2014-2017)

National Advisory Board, Science on the Move Project (2013-2017)

National Advisory Board, Nature-Based Tourism and Behavior Project (2011-2015)

National Advisory Board, Time Team America, II Project (2011-2015)

National Advisory Board, New Directions Project (2009-2010)

National Advisory Board, Citizens, Science, and Conservation Program (2010-2014)

National Advisory Board, Master Science Hobbyists: Characteristics, Motivations, Experiences, and Career Trajectories Project (2012-2016)

National Advisory Board, Advance Placement Science Courses & Exams Project (2010-2011)

National Advisory Board, Intersections Project (2009-2011)

National Advisor, Institute of Museum & Library Sciences Task Force on museum data systems (2009)  
 National Advisory Board, Portal to the Public (2008-2010)  
 National Advisory Board, [www.informalscience.org](http://www.informalscience.org) (2008-2011)  
 National Advisory Task Force, Visitor Studies Association (2011-2013)  
 National Advisory Board, Archaeology for All (2009-2010)  
 Task Force on Informal Learning, Commission on 21<sup>st</sup> Century STEM Learning, National Academies of Science (2006 – 2007)  
 National Interpretation Definitions Project Task Force, National Association for Interpretation (2006)  
 National Advisory Board, Science Education Research Anthology, National Science Teacher's Association (2006)  
 National Advisor, Research Agenda In Science Education, National Science Teacher's Assoc. (2006)  
 National Advisory Board, Ocean's Project, Smithsonian Institution, NOAA (2005)  
 National Advisory Board, National Ecological Observatory Network (2005, 2009)  
 National Advisory Board, Oregon Sea Grant (2003)  
 National Advisory Board, *21<sup>st</sup> Century Learner Initiative*, Institute of Museum and Library Services (2000 - 2005)  
 National Advisory Board, The Maritime Aquarium at Norwalk, CN (1995-2000)  
 National Advisory Board, National Research Council Subcommittee on Informal Science Education (2005)  
 Advisory Board, Mid-Atlantic Regional Technology in Education Consortium (2000 – 2004)  
 Advisory Board, *International Laboratory for Visitor Studies* (1986-89)  
 Advisory Board, Faculty, Museums Collaborative (1978-1980)  
 American Subcommittee, Nature Experience Research Program (1985-1987)  
 National Chairman, Search for Excellence in Informal Science Education, National Science Teacher's Association, (1983-1984)  
 U.S. Representative, Science for the Citizen, U.S./U.K. Joint Committee (1983)  
 Smithsonian Representative, Federal Interagency Committee on Education (1975-1982)  
 National Council, National Postal Museum, Smithsonian Institution (2003-2008)  
 Board of Directors, Visitor Studies Association (1999 - 2003)  
 Board of Directors, AAM Committee on Audience Research & Evaluation (1992 - 1995)  
  
 Reviewer, National Science Foundation (1978, 1980, 1982, 1984, 1985, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2001, 2002, 2005, 2008, 2010, 2011, 2012, 2013, 2015, 2018)  
 Reviewer, U.S. Office of Education (1977, 1978, 1988, 1991)  
 Reviewer, National Oceanographic and Atmospheric Administration (1981, 1982, 1988, 2003, 2005,  
 Reviewer, National Science Board Indicators (2007, 2009, 2010, 2011, 2012, 2013, 2015; 2019)  
 Reviewer, National Sea Grant Program (2003, 2007, 2010)  
 Reviewer, Social Sciences and Humanities Research Council of Canada (2010, 2011, 2012, 2013)  
 Reviewer, New Dynamics of Aging, United Kingdom (2009)  
 Reviewer, Israel Science Foundation (2009, 2014)  
 Reviewer, *Science Reports* (2023)  
 Reviewer, *Science Advances* (2020)

Reviewer, *World Leisure Journal* (2019, 2020)  
 Reviewer, *Progress in Biophysics and Molecular Biology* (2018)  
 Reviewer, *Environment & Behavior* (2018)  
 Reviewer, *International Journal of Science Education* (2015, 2016)  
 Reviewer, *Research in Science Education* (2016, 2017, 2019)  
 Reviewer, *Instructional Science* (2017)  
 Reviewer, *Science Education* (2011, 2012, 2013, 2014, 2015, 2016, 2017)  
 Reviewer, *Current Issues in Tourism* (2011, 2012)  
 Reviewer, *Studies in Continuing Science Education* (2011)  
 Reviewer, *Sociocultural Theory & Identity* (2012)  
 Reviewer, *Leisure Studies* (2009, 2013)  
 Reviewer, *Curator* (1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2013, 2014, 2015, 2018, 2020, 2022)  
 Reviewer, *Public Understanding of Science* (1999, 2000, 2001, 2003, 2006, 2007, 2008, 2010, 2012, 2016)  
 Reviewer, *Anthrozoös* (2008, 2016, 2021)  
 Reviewer, *Environmental Education Research* (2019)  
 Reviewer, *Journal of Interpretation Research* (2000)  
 Reviewer, *Journal of Research in Science Teaching* (2001, 2004, 2007, 2009, 2010, 2012, 2013, 2015, 2017, 2019, 2020, 2022)  
 Reviewer, *Museum Management & Curatorship* (2021)  
 Reviewer, AltaMira Press (2001, 2002, 2003, 2004, 2008)  
 Reviewer, Routledge Publishers (2005, 2007, 2018, 2019, 2020; 2022)  
 Reviewer, Springer Publishing (2018)

### **Awards and Students Advised**

The Bloolooop 50 – celebrating the work of the fifty key individuals internationally whose creativity, passion, and drive has helped shape and improve the museum industry (2023)  
 Ranking of Top Scientists in the field of Social Sciences and Humanities (2023): 719 U.S., 1454 World  
 Leadership Award for Significant and Lasting Impact, Western Museums Association (2022)  
 Distinguished Career Award, NARST: A worldwide organization for improving science teaching and learning through research (2016)  
 Oregon State University, University Outreach and Engagement Vice Provost Award for Excellence, Innovation-Partnerships Award (2016)  
 Council of Scientific Society Presidents Award for Educational Research (2013)  
 National Science Foundation *Distinguished Lecturer* (2013)  
 John Cotton Dana Award for Leadership, American Association of Museums (2010)  
 Selected to American Association of Museums' *Centennial Honor Roll* -- one of 100 most influential individuals in the museum community, 1906-2006 (2006)  
 Named by News Digest International as one of the "Who's Who" of Academia (2013, 2014, 2016)  
 Marquis Who's Who in America (2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022)

Advisor Masters Theses (41 students)  
Advisor Doctoral Theses (14 students)  
Advisor Post-Doctoral Researchers (4 students)

### **Articles and Chapters**

Falk J.H. (1971) Guarding your thermometer. *American Biology Teacher*, **33**, 295-296.

Falk, J.H. (1973) Life in early California: A new approach to the outdoor field trip. *Science and Children* **11**(13), 18-19.

Falk, J.H. (1974) Estimating experimenter-induced bias in field studies: A cautionary tale. *Oikos* **25**, 374-378.

Falk, J.H. (1974). Wheeling your way through the outdoors. *Science and Children* **12**, 10-11.

Falk, J.H., Malone, L. & Linn, M. (1975) Outdoor Biology Instructional Strategies: Development and evaluation. *The American Biology Teacher* **37**, 162-165.

Falk, J.H. (1976). Energetics of a suburban lawn ecosystem. *Ecology*, 57(1), 141-150.

Falk, J.H. (1976) Outdoor education: A technique for assessing student behaviors. *School Science and Mathematics* **75**, 226-230.

Falk, J.H. (1977). A partnership in outdoor science education. *Science and Children* **15**(1), 24-25.

Falk, J.H., W.W. Martin, & Balling, J.D. (1978). The novel field trip phenomenon: Adjustment to novel settings interferes with task learning. *Journal of Research in Science Teaching* **15**, 127-134.

Falk, J.H. (1980). The primary productivity of a temperate zone lawn. *Journal of Applied Ecology* **17**, 689-696.

Falk, J.H. (1980) Taking advantage of local resources: Lawns, a case in point. The American Biology Teacher **42**(6), 351-352.

Falk, J.H. & Balling, J.D. (1980). The school field trip: Where you go makes the difference. Science and Children **18**(3), 6-8.

Balling, J.D. & Falk, J.H. (1981). A perspective on field trips: Environmental Effects on Learning. *Curator*, 23, 229-240.

Falk, J.H. (1981). Learning through teaching. University of the District of Columbia Graduate Journal **1**(1), 143-146. (reprinted in Alf, H. (ed) Education for Tomorrow's Environment p. 143-146. Center for

Environmental Education, Washington, D.C. 1981.)

Martin, W.W., J.H. Falk, & Balling, J.D. (1981) Environmental effects on learning: The outdoor field trip. Science Education **65**, 301-309.

Falk, J.H. (1982) Children in museums: The role of research. In: Glaser, J. (ed.) Proceedings of Children in Museums: An International Symposium. p. 201-206. Washington, DC: Smithsonian Institution Press.

Falk, J.H. (1982) Environmental education: Informal vs. formal learning. Environmental Education and Information **2**(3), 137-142.

Falk, J.H. (1982) Using evaluation to improve exhibits. In: S.M. Nair (ed.) Proceedings of Indo-U.S. Natural History Workshop on Exhibition Techniques and Communication Strategies. New Delhi: National Museum of Natural History.

Falk, J.H. & Balling, J.D. (1982) The field trip milieu: Learning and behavior as a function of contextual events. *Journal of Educational Research*, 76(1), 22-28.

Balling, J.D. & Falk, J.H. (1982) Development of visual preference for natural landscapes: The savanna hypothesis. Environment and Behavior **14**(1), 5-28.

Falk, J.H. (1982) The response of two turf insects, Endiria inimica (Homoptera: Cicadellidae) and Oscinella frit (Diptera: Chloropidae) to mowing. Environmental Entomology **11**(1), 29-31.

Falk, J.H. (1982) The use of time as a measure of visitor behavior and exhibit effectiveness. *Roundtable Reports: The Journal of Museum Education*. **7**(4), 10-13. (reprinted in: Nichols, S. (ed.) (1984). *Museum Education Anthology: 1973-1983*. p. 183-189 Washington, DC: Museum Education Roundtable.

Falk, J.H. (1982) Science education for the citizen: Perspectives on informal learning. In: J. Head (ed.) Proceedings of the U.S./U.K. Science Education Seminar. p. 81-87. London: British Council.

Falk, J.H. (1983) Time and behavior as predictors of learning. Science Education. **67**(2), 267-276.

Falk, J.H. (1983) Field trips: A look at environmental effects on learning. Journal of Biological Education. **17**(2), 134-142.

Falk, J.H. (1983) A cross-cultural investigation of the novel field trip phenomenon: National Museum of Natural History, New Delhi, India. Curator **26**(4), 315-325.

Falk, J.H. (1984) Search for excellence in science education: The informal sector. In: R. Yager (ed.) Proceedings of the Curriculum Update Conference. Iowa City: University of Iowa.

Falk, J.H. (1984) Public institutions for personal learning. The Museologist. **46**(168), 24-27.

Falk, J.H. (1985) Defining excellence in informal education. In: Yager and Penick (eds.) Focus on Excellence. Vol. 2(3), p. 4- 10, Washington, DC: National Science Teacher's Association.

Yager, R. & Falk, J.H. (1985) Science in non-school settings: Discussion and analysis. In: Yager and Penick (eds.) Focus on Excellence. Vol2(3). p. 105-109. Washington, DC: National Science Teacher's Association.

Falk, J. (1985) The impact of novelty on learning in museums and other informal learning settings. In: Proceedings of the Centenary Meeting of the Bombay Natural History Society, Bombay, India.

Falk, J.H., Koran, J.J., Dierking, L.D & Dreblow, L. (1985) Predicting visitor behavior. *Curator*, 28(4), 326-332.

Falk, J.H., Koran, J.J. & Dierking, L.D. (1986) The things of science: Assessing the learning potential of science museums. Science Education. **70**, 75-89.

Falk, J.H. & L.D. Dierking. (eds.) (1986) Museum Research and Evaluation: Future Directions. Journal of Museum Education. **11**(1), 1-24.

Dierking, L.D. & J.H. Falk (1987) A community-based model for educational innovation. In: Blair, D.J. (ed.) Proceedings of 3<sup>rd</sup> International Conference of the Nature and Teaching of Environmental Studies and Sciences in Higher Education. Institution of Environmental Studies.

Falk, J.H. (1987) Research on science learning outside the classroom setting. In: Fraser-Abder (ed.) First Regional Consultation on Science Education Research in Latin America and the Caribbean. Port-O-Spain, Trinidad.

Falk, J.H. & L.D. Dierking (1987) Community Learning Exchange: A model program for the utilization of community resources. In: Riquarts, K. (ed.) Science and Technology Education and the Quality of Life. p. 156-161. Kiel, Federal Republic of Germany: Institute for Science Education at Kiel University.

Falk, J.H. (1988) Museum Recollections. In: Bitgood, S. et al. (ed.). Proceedings of First Annual Visitor Studies Meeting. p. 60-65. Psychology Institute. Jacksonville, AL: Jacksonville State University.

Falk, J.H. (1988) Is it cool to worry? Evidence for an environmental ethic in children. EPA Journal **14**(6), 41-42.

Falk, J.H. (1991) Analysis of Family Visitors in Natural History Museums: The National Museum of Natural History, Washington, D.C. Curator **34**(1), 44-50.

Naqvi, A., B. Venugopal, J. Falk & L. Dierking (1991) Analysis of Family Visitors in Natural History Museums: New Delhi National Museum of Natural History. Curator **34**(1), 51-57.

Falk, J.H. & L.D. Dierking (1991) The effect of visitation frequency on long-term recollection. In: Bitgood (ed.) Proceedings of 1990 Annual Visitor Studies Conference. Jacksonville, AL: Center for Social Design.

Dierking, L.D. & J.H. Falk (1992) Redefining the museum experience: The Interactive Experience Model. Bitgood and Benefield (ed.). Proceedings of 1991 Annual Visitor Studies Conference. Jacksonville, AL: Center for Social Design.

Falk, J.H. & L.D. Dierking (1992) Global Warming: Understanding the Forecast; A Review. Museum Anthropology **16**(3), 72-78.

Falk, J.H. (1993) Assessing the impact of exhibit arrangement on visitor behavior and learning. *Curator*, 36(2), 1-15.

Falk, J.H., K. Phillips & J. Mohr-Johnson. (1993) Utilizing formative evaluation as a tool in facilitating public understanding of science: The Electricity and Magnetism Exhibit as case study. In: Bitgood (ed.) Proceedings of 1992 Annual Visitor Studies Conference. Jacksonville, AL: Center for Social Design.

Dierking, L.D. & J.H. Falk (1994) Family behavior and learning in informal science settings: A review of the research. Science Education **78**(1), 57-72.

Falk, J.H. & M. Weiss. (1994) Utilizing museums to promote public understanding of science: Early adolescent misconceptions about AIDS prevention. In: S. Bitgood (ed.) *Proceedings of 1992 Annual Visitor Studies Conference*. Jacksonville, AL: Center for Social Design.

Falk, J.H. (1995) Factors influencing African American leisure time utilization of museums. *Journal of Leisure Research*, 27(1), 41-60.

Falk, J.H. & D. Holland. (1995) Content planning research "Africa Hall": National Museum of Natural History. In: Bitgood (ed.). *Proceedings of 1994 Annual Visitor Studies Conference*. Jacksonville, AL: Center for Social Design.

Falk, J.H. & L.D. Dierking. (1995) Establishing a long-term learning research agenda for museums. in J. Falk & L. Dierking. (eds) *Public Institutions for Personal Learning: Establishing a Research Agenda*. Washington, DC: American Association for Museums.

Falk, J.H., L.D. Dierking & D. Holland. (1995) What do we think people learn in museums? in J. Falk & L. Dierking (eds.) *Public Institutions for Personal Learning: Establishing a Research Agenda* (pp. 17-22). Washington, DC: American Association for Museums.



Falk, J.H., L.D. Dierking & D. Holland. (1995) How should we investigate learning in museums? in J. Falk & L. Dierking (eds.). Public Institutions for Personal Learning: Establishing a Research Agenda. Washington, DC: American Association for Museums.

Falk, J.H. & L.D. Dierking. (1995) Recalling the Museum Experience. *Journal of Museum Education* 20(2), 10-13.

Falk, J.H. & L.D. Dierking. (1996) Recollections of elementary school field trips. In: D. Herrmann & M. Johnson (eds.) *The Third Practical Aspects of Memory Conference*, (pp., 512-26). University of Maryland: College Park.

Falk, J.H. (1997) Recent advances in the neurosciences: Implications for visitor studies. In: M. Wells & R. Loomis (eds.), 227-238. *Visitor Studies: Theory, Research and Practice, Volume 9*. Jacksonville, AL: Visitor Studies Association.

Falk, J.H. (1997) Recollections of Visits to Museums In: M. Borun & A. Cleghorn (eds.) *Research on Families in Museums* (pp. 156-63). Washington, DC: American Association of Museums.

Falk, J.H. (1997) Testing a museum exhibition design assumption: Effect of explicit labeling of exhibit clusters on visitor concept development. *Science Education*. 81(6), 679-688.

Falk, J.H. & L.D. Dierking. (1997) The role of physical context in museum learning. *Journal of Education in Museums*, 18, 12-17.

Falk, J.H. & L.D. Dierking. (1997) School field trips: Assessing their long-term impact. *Curator*. 40(3), 211-218.

Falk, J.H. & Dierking, L.D. (1998). Free-choice learning: An alternative term to informal learning? *Informal Learning Environments Research Newsletter*. May/June 1998 Washington, DC: American Educational Research Association.

Falk, J.H. (1998) Visitors: Who does, who doesn't, and why. *Museum News*, 77(2), 38-43.

Falk, J.H. (1998) A framework for diversifying museum audiences: Putting heart and head in the right place. *Museum News*. 77(5), 35-43.

Dierking, L.D. & J.H. Falk. (1998) Audiences and accessibility. In: S. Thomas & A. Mintz (Eds.) The Virtual and Real: Uses of Multimedia in Museum, pp. 57-70. Washington, DC: American Association of Museums.

Falk, J.H. (1998). Pushing the boundaries: Assessing the long-term impact of museum experiences. Current Trends, Vol. 11, pp. 1-6. Washington, D.C.: Committee on Audience Research and Development.

Falk, J.H., Moussouri, T. & Coulson, D. (1998) The effect of visitors' agendas on museum learning. Curator. 41(2), 106-120.

Falk, J.H. (1999) Museums as institutions for personal learning. Daedalus. 128(3), 259-275.

Falk, J.H. (1999) Assessing learning in a learning society. Informal Learning. 38, 18-20; also In: E. Koster (Ed.) (2000) Giant Screen Films and Lifelong Learning: Complete Symposium Proceedings, pp. 60-65, Liberty City, NJ: Giant Screen Theater Association.

Chadwick, J., Falk, J.H. & O'Ryan, B. (2000) Assessing institutional web sites: Summary of report. In: Council on Library and Information Resources (Ed.). Collections, Content and the Web. Washington, DC: Council on Library and Information Resources.

Falk, J.H. (2000). Assessing the impact of museums. Curator. 43(1), 5-7.

Adelman, L.M., Falk, J.H., & James, S. (2000). Assessing the National Aquarium in Baltimore's impact on visitor's conservation knowledge, attitudes and behaviors. Curator. 43(1), 33-62.

Falk, J.H. (2001) Free-Choice Science Learning: Framing the issues. In: J. Falk (Ed.) Free-Choice Science Education: How We Learn Science Outside of School. New York, NY: Teacher's College Press, Columbia University.

Falk, J.H., Brooks, P., & Amin, R. (2001) Investigating the long-term impact of a science center on its community: The California Science Center L.A.S.E.R. Project. In: J. Falk (Ed.) Free-Choice Science Education: How We Learn Science Outside of School. pp. 115-132. New York, NY: Teacher's College Press, Columbia University.

Falk, J.H. (2002). The contribution of free-choice learning to public understanding of science. Interciencia, 27(2), 62-65.

Dierking, L.D. & Falk, J.H. (2002). The role of informal science education and learning (with museums as a model). In: Phyllis Katz (Ed.). Community Connections for Science Education, Volume II. History and Theory you Can Use. pp. 5-11. Arlington, VA: National Science Teachers Association.

Falk, J.H. (2002) Forward. In: S. Paris (Ed.) Perspectives on Object-Centered Learning. pp. iii-v. New York: Erlbaum.

Dierking, L.D., Burtnyk, K., Buchner, K.S., & Falk, J.H. (2002). Visitor Learning in Zoos and Aquariums: A literature review. Silver Spring, MD: American Zoo and Aquarium Association.

Dierking, L.D.; Cohen Jones, M.; Wadman, M.; Falk, J.H.; Storksdieck, M. & Ellenbogen, K. (2002). Broadening our notions of the impact of free-choice learning experiences. *Informal Learning Review* 55: 1, 4-7.

Falk, J.H. & Adelman, L.M. (2003) Investigating the impact of prior knowledge, experience and interest on aquarium visitor learning. Journal of Research in Science Teaching, 40(2), 163-176.

Dierking, L.D., Falk, J.H., Rennie, L., Anderson, D., & Ellenbogen, K. (2003). Policy statement of the “Informal Science Education” Ad Hoc Committee. Journal of Research in Science Teaching, 40(2), 108-111.

Adams, M., Falk, J.H. & Dierking, L.D. (2003) Things Change: Museums, Learning, & Research. In: M. Xanthoudaki, L. Tickle & V. Sekules (Eds) Researching Visual Arts Education in Museums and Galleries: An International Reader. Amsterdam: Kluwer Academic Publishers.

Falk, J.H. (2003). Personal Meaning Mapping. In: G. Caban, C. Scott, J. Falk & L. Dierking, (Eds.) *Museums and Creativity: A study into the role of museums in design education*, pp. 10-18. Sydney, AU: Powerhouse Publishing.

Falk, J.H. (2003). The museums and creativity pilot study. In: G. Caban, C. Scott, J. Falk & L. Dierking, Museums and Creativity: A study into the role of museums in design education. Sydney, AU: Powerhouse Publishing.

Dierking, L.D. & Falk, J.H. (2003) Optimizing out-of-school time: The role of free-choice learning. New Directions for Youth Development. 97 (Spring), 75-88.

Falk, J.H., Scott, C., Dierking, L.D., Rennie, L.J. & Cohen Jones, M. (2004). Interactives and visitor learning. *Curator*, 47(2), 171-198.

Storksdieck, M. & Falk, J.H. (2004). Evaluating public understanding of research projects and initiatives. In: D. Chittenden, G. Farmelo & B. Lewenstein (eds.) Creating Connections, pp. 87-108, Walnut Creek, CA: AltaMira Press.

Falk, J.H. (2004). The director’s cut: Towards an improved understanding of learning from museums. Science Education, 88, S83-S96.

Dierking, L.D.; Cohen Jones, M.; Wadman, M.; Falk, J.H.; Storksdieck, M. & Ellenbogen, K. (2004). Broadening our notions of the impact of free-choice learning experiences. *Informal Learning Review*, 55(1), 4-7.

Falk, J.H. & Storksdieck, M. (2005). Learning science from museums. História, Ciências, Saúde – Manguinhos, Vol 12, pp. 117-144. Rio de Janeiro: Casa de Oswaldo Cruz.

Falk, J.H. (2005). Museums and free-choice learning. In: K. Kaudelka (Ed.) Learning – Experience – Knowledge: Proceedings of Symposium, November 6-7, 2003, pp. 26-37. Dortmund, Germany: DASA.

Falk, J.H. (2005). Free-choice environmental learning: Framing the discussion. Environmental Education Research, 11(3), 265-80.

Dierking, L.D., Falk, J.H. & Ellenbogen, K. (2005). In Principle, In Practice. Curator, 48(3), 246-48.

Falk, J.H., Dierking, L.D. & Storksdieck, M. (2005). Lifelong science learning research. In J. Moon, (ed.). Informal Science Research. Washington, DC: Board on Science Education, National Academy of Science. [http://www7.nationalacademies.org/bose/Informal\\_Science\\_John\\_Falk\\_Think\\_Piece.pdf](http://www7.nationalacademies.org/bose/Informal_Science_John_Falk_Think_Piece.pdf)

Falk, J.H., Heimlich, J.E., Bronnenkant, K., & Barlage, J. (2005). Assessing the Impact of a Visit to a Zoo or Aquarium: A Multi-Institutional Research Project. Proceedings of 6<sup>th</sup> International Aquarium Conference, Monterey, CA. December 2004.

Falk, J.H., Dierking, L.D., Rennie, L. & Scott, C. (2005). In praise of “both-and” rather than “either-or” thinking: A reply to “Interacting with Interactives”. Curator, 48(4), 475-477.

Falk, J.H. & Storksdieck, M. (2005). Using the *Contextual Model of Learning* to understand visitor learning from a science center exhibition. *Science Education*, 89, 744-778.

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Penuel, W.R., Harrison, J.D., Falk, J.H., Hendry, M., Staus, N. & Dierking, L.D. (in review). Using Agent-Based Modeling to gain insight into adolescents' interest development. *Journal of the Learning Sciences*.

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### Books and Monographs

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*education*. Lanham, MD: AltaMira Press.

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[http://www.ilinet.org/ipip/In Principle In Practice Insights - A Museum Learning Resource.pdf](http://www.ilinet.org/ipip/In_Principle_In_Practice_Insights_-_A_Museum_Learning_Resource.pdf)

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Yager, R. & Falk, J.H. (eds.) (2007). *Exemplary Science Program: Informal Science Education*. Washington, DC: National Science Teachers Association.

Falk, J.H., Bronnenkant, Vernon, C.L., & Heimlich, J.E., (2007). *Visitor Evaluation Toolbox for Zoos and Aquariums*. Silver Spring, MD: Association of Zoos & Aquariums.

Falk, J.H., Heimlich, J.E., & Foutz, S. (eds.) (2009). *Free-Choice Learning and the Environment*. Lanham, MD: AltaMira Press.

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Falk, J.H. (2019). *Born to Choose: Evolution, Self and Well-Being*. London: Routledge.

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Falk, J.H. (in press). *Museum Futures: Leaning into Value, Leaning into Well-Being*. Lanham, MD: Rowman & Littlefield.



### Curriculum Materials

Selected activities, Outdoor Biology Instructional Strategies, Delta Publishing, Nashua, N.H. 1974-1977.

Director, Smithsonian Estuarine Activities, Smithsonian Institution, Washington, D.C. 1976-1979.

Director, Parent Ecology Activities Project, Smithsonian Institution, Washington, D.C. 1978-1980.

Director, Smithsonian Family Learning Project, Smithsonian Institution, Washington, D.C. 1979-1983.

Director, Science Activities for Informal Learning, Smithsonian Institution, Washington, D.C. 1981-1983.

Director, Science Calender 1985, GMG Publishing, New York. 1984.

Director, Science Calender 1986, GMG Publishing, New York. 1985.

Director, Science Calender 1987, GMG Publishing, New York. 1986.

Director, Science Calender 1988, GMG Publishing, New York. 1987.

Selected activities, Science Learning, inc., Annapolis, Maryland. 1986-1989.

Selected activities, MindVentures, Inc, Columbia, Maryland. 1989- 1990.

Director, ScienceMinders, Annapolis, Maryland. 1993-2000.

### Consultations (partial listing):

Aquarium of the Pacific, Long Beach, California

Arizona Science Center, Phoenix, Arizona

Astronomical Society of the Pacific, San Francisco

Baltimore City Life Museums, Baltimore

Bermuda Aquarium, Museum & Zoo, Bermuda

California Science Center/California Museum of Science and Industry, Los Angeles

Carnegie Science Center, Pittsburgh

Central Park Zoo, New York

Cincinnati Zoo, Cincinnati

Chengdu Panda Research & Breeding Center, China

The Children's Museum, Indianapolis

Cincinnati Zoo, Cincinnati

Dallas Museum of Art, Dallas

Den Gamle By, Aarhus, Denmark  
 Des Moines Art Center, Des Moines, Iowa  
 Disney's Animal Kingdom, Orlando  
 Flandrau Science Center, University of Arizona, Tucson  
 The Franklin Institute Science Museum, Philadelphia  
 George Washington University Museum Education Program, Washington, D.C.  
 Hartford Children's Museum, Hartford, Connecticut  
 The Health Museum, Cleveland  
 Henry Ford Museum and Greenfield Village, Dearborn, Michigan  
 Heureka, The Finnish Science Center, Helsinki  
 Howard Hughes Medical Institute, Chevy Chase, Maryland  
 The Glenbow Museum, Calgary, Canada  
 The Gold Museum, San Jose, Costa Rica  
 Las Vegas Springs Preserve, Las Vegas, Nevada  
 Liberty Science Center, Liberty Island, New Jersey  
 Los Angeles County Museum of Art, California  
 Luxembourg Science Center, Luxembourg  
 Maloka, Bogata, Colombia  
 Maryland Science Center, Baltimore  
 Museum of Life, Rio de Janeiro, Brazil  
 Museum of Modern Art, New York  
 Museum of Science and Industry, Chicago  
 Mystic Seaport, Mystic, Connecticut  
 National Air & Space Museum, Washington, D.C.  
 National Aquarium in Baltimore, Baltimore  
 National Health Museum, Washington, D.C.  
 National Museum American History, Washington, D.C.  
 National Museum Health and Medicine, Washington, D.C.  
 National Gallery of Art, Washington, D.C.  
 National Museum of Natural History, Washington, D.C.  
 National Museum of Natural History, New Delhi, India  
 National Museum of Qatar, Doha, Qatar  
 National Park Service, Washington, DC  
 National Science and Technology Museum, Kaohsiung, Taiwan  
 National Wildlife Association, Reston, VA  
 National Zoological Park, Washington, D.C.  
 Natural History Museum, London  
 New York Hall of Science, New York  
 North American Association for Environmental Education, Washington, DC  
 Odyssey Contemporary Marine Museum, Seattle  
 Ontario Science Centre, Toronto  
 Oregon Museum of Science & Industry, Portland  
 Orlando Science Center, Orlando

Pacific Science Center, Seattle  
Papalote Museo de Nino, Mexico City  
Petrosains – The Discovery Center, Kuala Lumpur, Malaysia  
Presidio National Park, San Francisco  
Science Museum of Minnesota, St. Paul  
Trapiche, Children’s Science Museum, Los Mochis, Mexico  
United States Memorial Holocaust Museum, Washington, D.C.  
Virginia Air & Space Center, Hampton, Virginia  
Virginia Museum of Fine Arts, Richmond  
World Wildlife Fund, Washington, DC

Grants Received (Principal Investigator on the following):

NSF #PES75-02236 Utilization of Outdoor Biology Instructional Strategies Materials. 1975. \$50,000.\*

USOE, HEW #300-760-281 A Model Career Education Program in Science and Education. 1976. \$49,950.\*

Engelhard Foundation Development of Educational Materials Describing the Ecological Properties of Estuaries. 1976-1977. \$20,000.\*

NSF #SED77-18913 An Investigation of the Effect of Field Trips on Science Learning. 1976-1978. \$100,000.\*

USDA #DEB79-11563 An Analysis of Ecology and Aesthetic Desirability of Turfgrass as a Function of Management Intensity. 1979-1981. \$75,000.\*

NSF #DEB79-11563 Nutrient Dynamics of the Rhode River Ecosystem. 1979-1983. \$988,677.

Smithsonian Outreach #123ES1-05 Smithsonian Family Learning Project. 1979-1983. \$50,000.\*

Indo-U.S. Subcommission Research Project. Understanding the impact of setting novelty on Indian school children at the National Museum of Natural History, New Delhi, India. 1979-1981. \$35,000.\*

Smithsonian Scholarly Studies #123ES1-01 Improving the Quality of Single-Visit Field Trips to the National Zoological Park: Development of Pre-Trip Materials and an Assessment of Learning and Behavior. 1980-1981. \$50,000.\*

NSF #SED80-12307 Science Activities for Informal Learning. 1981-1983. \$256,788.\*

NSF #SED81-12927 The Role of the Family in the Promotion of Science Literacy. 1981-1983. \$320,000.

Indo-U.S. Subcommission Research Project. Investigating Student Learning and Behavior at the National Museum of Natural History, New Delhi, India. 1982-1983. \$35,000.\*

Smithsonian Outreach #1231E4-13 Science Activities for Informal Learning: Maryland Public School Dissemination. 1983-1984. \$20,000.\*

Atari Education Foundation #0623-83-005 Home Learning: The Development of Individual and Family Group Science Software. 1983-1984. \$25,000.\*

NSF #SPE83-18224 Community-Based Science Education. 1983-1985. \$655,300.\*

Smithsonian Scholarly Studies #1231S4-01 Information and Agenda: Strategies for Enhancing the Educational Value of Family Visits to a Zoological Exhibit. 1983-1985. \$50,000.\*

NSF #PEI85-50580 Community Science Project. 1986-1988. \$849,650\*

Indo-U.S. Subcommission Research Project. An Investigation of the Long-Term Impact of Museum Visitation on Student Learning and Behavior at the National Museum of Natural History, New Delhi, India. 1988-1991. \$50,000.\*

Montgomery County Commission on the Humanities. New Horizons for Older Adults: Linking Art, Science and Technology. 1989. \$30,000.

NSF #MDR-9153972 The Utilization of Science Museums by African Americans: Factors Influencing Free-Choice Visitation. 1991-1992. \$50,000.\*

NSF #ISE 92-159c Public Institutions for Personal Learning: Understanding the Long-Term Impact of Museums. 1993-1995. \$150,848\*

NSF #ISE 9254696 ScienceMinders Project. 1993-1998. \$1,257,000.\*

NSF #ESI-9803102 Free Choice Learning: Assessing the Informal Science Education Infrastructure. 1998-2000. \$200,000.\*

NSF #ESI-0000527 A Multi-Factor Investigation of Variables Affecting Informal Science Learning. 2000-2001. \$225,000.\*

NSF #ESI-0125545 Investigating the Long Term Impact of a Science Center on Its Community. 2002-2003. \$100,000.\*

NSF #ESI-0318868 In Principle, In Practice: The Second Annapolis Conference on Museum Learning. 2003-2005. \$200,000.\*

NSF #ESI-0205843 Assessing the Impact of a Visit to a Zoo or Aquarium: A Multi-Institutional Research Project. 2003-2007. \$735,000.

Australian Research Council #DP0556543. Investigating the educational impact of wildlife-based leisure experiences in supporting visitors' adoption of environmentally sustainable practices. 2005-2007, \$(Australian)153,000.

NSF #DRL-0636124 The Role of Media in Supporting Free-Choice Science Learning. 2007-2009. \$250,000.\*

NSF #DRL-0638981 Informal Science Education Resource Center. 2007-2016. \$9,750,000.

NSF #DRL-0637992 Portal to the Public. 2006-2009. \$1,995,356.

NSF #DRL-0610253 Maya Skies. 2006-2009. \$2,637,114.

The Noyce Foundation Measuring the Impact of a Science Center on its Community. 2008-2010. \$101,870.\*

NSF #DRL-0813252 Towards the Next Generation of Research on STEM Learning. 2008-2010. \$100,000.\*

The Noyce Foundation SYNERGIES Planning Grant: Understanding and Connecting STEM Learning in the Community. 2010-2011. \$94,481.\*

NSF #DRL-1010577 Pushing the Limits: Building Capacity to Enhance the Understanding of Science and Math through Rural Libraries, 2010-2014. \$2,508,018.

NSF #DRL-1020386 Metropolitan Denver Urban Advantage Denver Efficacy Study, 2010-2015. \$3,414,037.

The Noyce Foundation SYNERGIES: Understanding and Connecting STEM Learning in the Community. 2011-2015. \$1,216,177.\*

NSF #DRL-1114255 Collaborative Research: Zoo and Aquarium Action Research Collaborative (ZAARC). 2011-2014. \$83,077.\*

Wellcome Trust: Modeling the Contributions Informal Education Resources Make to UK Science Learning. 2011-2012. \$117,552.

Australian Research Council #LP120100120. Translating zoo visitors' behavioural intentions into conservation actions using evidence-based post-visit experiences. 2012-2015. \$157,271.

(Participant Funded) International Science Centre Impact Study. 2012-2013. \$275,000.\*

The Lemelson Foundation Advancing SCILS (STEM, Creativity & Innovation Learning through Synergies). 2013-2015. \$209,993.\*

The Noyce Foundation Multi-Institution Science Center Effects Study. 2014-2016. \$359,873.\*

NSF #DRL-1451053 Engaging the Science Center Community in Defining and Utilizing Impact Metrics. 2014-2016. \$49,985.\*

NSF #DRL-1515550 Using Big Data and Visual Analytics to Investigate the Long-term, Cascading Effects of Informal STEM Learning. 2015- 2018. \$299,987.\*

NSF #DRL-1516718 Synergies: Customizing Interventions to Sustain Youth STEM Interest and Participation Pathways. 2015-2021. \$1,999,857.

NSF #DRL-1515241 Rural Gateways: Fostering the Development of Rural Librarians as Informal Science Facilitators. 2015-2023. \$1,999,778.

Turkish Science Foundation #215K042 - Determining Turkish Public Understanding of Scientific Literacy. 2016-2018.

Mott Foundation/STEM Next. National State of STEM. 2016-2017. \$10,000.\*

NSF #DRL-1615209 Chief Science Officers: A Strategy for Student Awareness and Industry Engagement. 2016-2019. \$1,196,261.

NSF # DRL-1656124 Reconceptualizing STEM+C Literacy through a Free-Choice Learning Lens. 2016-2018. \$300,000.

NSF # DRL-1746089 International Travel Grant: Connected Audiences. 2017-2018. \$25,000.

NSF # DRL-1724213 International Conference: The Integration of Science Centres with Natural History Museums for Imparting Informal Education. 2017-2018. \$100,000.\*

NSF #OISE-1937849 International Conference: Public Awareness of STEM & Advancing the Role of Women in STEM. 2019-2022. \$99,985.\*

NSF #DRL-2041474 Conference: Science Museum Futures. 2020-2021. \$90,000.\*

NSF #DRL-2011424 Learning Solutions: Investigating Fundamental Tools, Resources & Strategies to Support Professionals Addressing Persistent Issues in STEM. 2020-2023. \$244,407.\*

IMLS #RE-250085-OLS-21 STEM Equity Framework: Building Equitable, Inclusive Library Services That Address Community Needs. 2021-2023. \$249,899.

\* Project Director on these grants.