

DENNIS LEE SCHATZ (see additional information at www.dennisschatz.org)

EDUCATION

B.S. with honors, in Physics and Astronomy, U of Wisconsin, Madison, 1969

M.S. in Astrophysics, U of California, Berkeley, 1972

Graduate Work, Science Education, U of Washington, Seattle, 1977-78

EMPLOYMENT

8/18 to present	Senior Fellow, Institute for Learning Innovation
3/15 – 1/19	Field Editor for <i>Connected Science Learning</i> , a peer reviewed journal of NSTA and ASTC
3/14 to 4/20	Senior Advisor, Pacific Science Center
3/11 to 3/15	On assignment to NSF as Program Director in the Division of Research on Learning in Formal and Informal Environments
11/11 to 3/14	Lifelong Learning Cluster Coordinator at the National Science Foundation (NSF) in the Division of Research on Learning in Formal and Informal Environments
9/09 to 9/17	Adjunct professor in the University of Washington's Museology (Museum Studies) Department (teach courses on translating learning theory into museum practice and advise students on their thesis projects)
6/08 to 11/11	Senior Vice President for Strategic Programs and Co-Director of Washington State LASER (Leadership and Assistance for Science Education Reform), plus Director of Portal to the Public, Pacific Science Center, Seattle, Washington
9/04 – 6/08	Vice President for Education and Co-Director of Washington State LASER, Pacific Science Center
3/02 – 9/04	Vice President for Education and Exhibits and Co-Director of Washington State LASER, Pacific Science Center
12/91 – 3/02	Associate Director for Education, Pacific Science Center
1/85 - 12/91	Associate Director of Program Development, Pacific Science Center
6/80 - 1/85	Director of Science, Pacific Science Center
6/77 - 6/80	Director of Regional Astronomy Education Laboratory, Pacific Science Center
1/74 - 6/77	Associate Director of Astronomy and Physics Education plus Assistant Director, Science Activities for the Visually Impaired (SAVI), Lawrence Hall of Science, University of California, Berkeley

SELECTED PROFESSIONAL ACTIVITIES/RECOGNITIONS

2019	Member of National Academy Science Consensus Study committee to review the effectiveness of the NASA Science Activation Program
2018 – 2021	President-Elect (2018-19), President (2019-2020), Retiring President (2020-2021) of the National Science Teaching Association (NSTA)

2017 – 2018	Member of Smithsonian Science Education Center Board of Advisors
2017	Asteroid 25232 was renamed Asteroid Schatz by the International Astronomical Union (IAU) in recognition of leadership in astronomy and science education.
2016 – 2018	Member of the National Academies Teacher Advisory Council
2016 – 2019	Member of nominating committee of Education Section of AAAS (American Association for the Advancement of Science)
2015 – 2018	Informal Science Director on National Science Teachers Association (NSTA) Board of Directors
2014 – present	Board Member of BSCS Learning Sciences, an organization that develops science curricula and provides professional development for K-12 educators
2014	Presented with the 2014 Robert-Klumpke Award by the Astronomical Society of the Pacific for lifetime achievement in astronomy education and communication to the public
2011 – 2013	Field reviewer of the Next Generation Science Standards
2010	Member of five-person design team to develop the Earth and Space Science Frameworks for the National Research Council – the first step in developing the Next Generation Science Standards
2010	Invited researcher and lecturer at the University of Queensland, Australia
2009	Advisor to National Research Council’s Science Ambassador’s Program, a team of energy experts who work with local and regional communities in the United States to improve the public’s understanding of energy
2009	Presented with the 2009 Faraday Science Communicator award by the National Science Teachers Association (NSTA)
2008 – 2009	Leadership Member of the Washington State Science Standards Revision Team and member of State’s Science Education Strategic Planning Committee
2007 – 2009	Member of National Research Council (NRC) Expert Oversight Panel to assist in the development of a practitioner’s book (<i>Surrounded by Science</i>) based on the NRC study, <i>Learning Science in Informal Environments</i>
2007	Washington State LASER selected to be featured in <i>Exemplary Science in Informal Education Settings</i> , a NSTA publication featuring standards-based success stories
2006	Named an ASTC (Association of Science-Technology Centers) Fellow for lifetime achievement in service to the field and furthering the public’s understanding of science
2006 – 2011	Washington Science Teachers Association Board Member
2005 – present	Member of AAAS’ Science Books and Films (SB&F) expert panel to select the best young adult science book each year
2005 -2007	Member of NSTA Nominations Committee
2005	Awarded Distinguished Service to Science Education award by the National Science Teachers Association (NSTA)

2004 – 2008	Founding member of Leading Edge Awards Committee for Association of Science-Technology Centers (ASTC) – Chair from 2004 to 2007
2002 – 2005	Member of ReDiscover Advisory Board, an international board of the Wellcome Trust and Millennium Fund to revitalize science centers in the United Kingdom
2002 – 2008	Member of NSRC (National Science Resources Center) Board of Directors – a center jointly run by The Smithsonian and The National Academies
2001 - 2002	Member of Task Force to review NASA Office of Space Science (OSS) Education programs
2000	Member of panel for 10-year review of Hubble Space Telescope’s Education Outreach Program
1997 - 2008	Member of Astronomical Society of the Pacific Board of Directors (President 2005-2007)
1998 - 2004	Member of Association of Science-Technology Centers (ASTC) Professional Development Committee
1997 - 2002	Member of Education and Public Outreach Advisory Committee for NASA’s SOFIA Project
1996	Awarded the 1996 Distinguished Informal Science Educator by the National Science Teachers Association

SELECTED RECENT PROGRAM LEADERSHIP ACTIVITIES

2018 – present	Co-PI of NSF funded On-the-Spot Assessment project to develop assessment strategies for scientist to embed in public presentations to assess how well the audience is understanding them.
2017 – present	PI of NSF funded Broader Impact Design (BID) Partnerships award to develop sustained institutional relationships between universities and ISE institutions regarding the delivery of broader impact activities provided by research scientists.
2015 - present	PI of NSF funded project to develop a Professional Learning Framework for informal science education practitioners.
2015 – present	Member of leadership group for the STEM Ambassador Program, a NSF funded project to have research scientists engage with hard-to-reach public audiences (e.g. prison inmates, members of refugee communities)
2007 – 2011	Director of <i>Portal to the Public</i> , a National Science Foundation funded project to build effective models to convey current science research through face-to-face interactions between research scientists and public audiences.
2002 - 2006	Principal Investigator of <i>The Space Spot</i> , a National Science Foundation funded project to develop an exhibit for display in shopping malls to attract an audience that does not normally attend museums and/or is not highly interested in science.
2002 – 2005	Led development of the Education Outreach materials (funded by NSF and NASA) that accompany the four-part NOVA Television series dealing with Origins – of the universe, the solar system, Earth and life on Earth.

- 1998 – Present Co-Director of *Washington State LASER* (Leadership and Assistance for Science Education Reform), a statewide effort to implement K-12 science education reform in 295 school districts statewide.
- 1994 - 1999 Principle Investigator for *Community Leadership Project*, National Science Foundation funded project to develop science teaching capabilities of community center staff in centers that serve individuals traditionally under-represented in science.
- 1994 - 2000 Principal Investigator for *STAFF Leadership for Rural School Districts* project, a national Science Foundation funded project to bring about long term, district wide improvement in science learning in the districts.

MEMBERSHIPS

National Science Teachers Association
 Washington Science Teachers Association
 Society of Children's Book Writers and Illustrators (National and State Chapters)
 National Association of Science Writers (plus the Northwest chapter)
 American Association for the Advancement of Science
 Astronomical Society of the Pacific

SELECTED PUBLICATIONS

Redefining Professionalism for the Informal STEM Learning Field, Accepted for publication in the journal *Curator*, Kris Morrissey, Joe E. Heimlich, and Dennis Schatz, To published in 2020

Beyond the Deficit Model: the Ambassador Approach to Public Engagement, Nalini M Nadkarni, Caitlin Q Weber, Shelley V Goldman, Dennis L Schatz, Sue Allen, Rebecca Menlove, *Bioscience*, Volume 69, Issue 4, page 1–9, April 2019

When the Sun Goes Dark, Fraknoi A., Schatz, D. NSTA Press, 2017

Solar Science, Schatz, D., Fraknoi, A., NSTA Press, 2015

Portal to the Public Implementation Manual, Schatz, D., Russell, L, Leigh, K. (primary authors), Pacific Science Center, 2011

The Path Forward: Lessons Learned and Recommendations from the Portal to the Public Second Synthesis Meeting, Schatz, D. and Russell, L, Pacific Science Center 2010

Face to Face with Scientists: Exploring the Features of Face-to-Face Interactions between Scientists and Public Audiences, Schatz, D. and Russell, L, Pacific Science Center 2008

World of Inventors: Thomas Edison, Schatz, D, Silver Dolphin, 2008

Can an Informal Science Institution Really Play the Key Role in K–12 Science Education Reform?, Schatz, D, Exemplary Science in Informal Education Settings, NSTA Press, 2007

Handbook for Small Science Centers, Editors: Yao, Cynthia; Dierking, Lynn; Anderson, Peter; Schatz, Dennis; Wolf, Sarah, AltaMira Press, 2006 (Book also includes article by me: *The Why and How of Doing Outreach Programming: Fulfilling My Fantasy*)

My Essential Booklist for Museum Educators Wearing Many Hats, Schatz, D, Journal of Museum Education: The Professional Relevance of Museum Educators, Fall 2006

Fossil Detective: T.rex, Fossil Detective: Triceratops and Fossil Detective: Woolly Mammoth, Schatz, D, Silver Dolphin, 2005

Stars and Planets, Schatz, D. SmartLab, 2004

Astro-Adventures II, Schatz, D. and Allan, P., Pacific Science Center 2003

Astro-Adventures: An Upper Elementary Curriculum, Allan, P. and Schatz, D., Pacific Science Center 2002

Uncover T. rex, Schatz, D, Silver Dolphin, 2002 – Awarded 2003 Parent’s Choice Award. Now available in 21 languages

The Totally Series of Science Trade Books – Totally Sea Creatures (2003), Totally Prehistoric Beasts (2002), Totally Reptiles (2001), Totally Aliens (2001), Totally Dinosaurs (2000), Totally Bugs, Schatz, D. (2000)

More Universe At Your Fingertips, Edited: Andrew Fraknoi and Dennis Schatz, Astronomical Society of the Pacific, 2000

Collaboration: Critical Criteria for Success, Schatz, D. et al, Association of Science-Technology Centers, 1997

Astro Adventures, Schatz, D. and D. Cooper, Pacific Science Center, 1994

Astronomy Activity Book, Schatz, Dennis, Simon & Schuster, 1991

Planetarium Educators Workshop Guide, Lowery, L., A. Friedman, C. Sneider, D. Schatz, S. Pulos, International Planetarium Publications, 1989 (First Edition, 1979)

Dinosaurs: A Journey Through Time, A Children's Activity Book with Adult Teaching Guide, Schatz, Dennis, Pacific Science Center, 1987

The Return of the Comet, An Activity Book for Skywatchers from 9-14 with Parent/Teacher Guide, Schatz, Dennis, Pacific Science Center, 1985

Effective Astronomy Teaching and Student Reasoning Ability, Schatz, Dennis, A. Fraknoi, R. Robbins, C. Smith, University of California, Lawrence Hall of Science, 1978. (Outcome of a grant from the National Science Foundation)

Effective Astronomy Teaching: Intellectual Development and Its Implications, Mercury, Vol. 5, No. 4, pp. 6 - 13, July/August 1976 (with A. Lawson).