

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 Astronomy, 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 *Connected Science Learning*, a journal of NSTA and
ASTC

3/14 to present 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), 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

- 2018 – 2021 President-Elect (2018-19), President (2019-2020), Retiring President (2020-
2021) of the National Science Teachers 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 Designated a Fellow of the Sydney University International House
– one of only three non-Australians to receive the award in the 44 year
history of the House
- 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

- 2011 – present Contributing Editor for Classroom Fieldtrips curriculum units for elementary and middle schools produced by becker & mayer, ltd.
- 2010 – 2011 Co-chair of Seattle City Club Education Taskforce
- 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 – present Seminar leader at museums and conferences internationally regarding translating learning theory into museum practice
- 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 Resolutions passed in both houses of the Washington State Legislature honoring his selection as the 2009 NSTA Faraday Science Communicator
- 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 – present Create and publish *PacSci-Doku*, a bi-weekly science-based word puzzle based on Sudoku. It is published in the Pacific Science Center eNewsletter (click [here](#) to find the current edition)
- 2007 – 2011 Member of Seattle City Club Program Committee
- 2007 – 2009 Member of National Research Council (NRC) Expert Oversight Panel to assist in the development of a practitioner’s book (*Surrounded by Science*) based on the NRC study, *Learning Science in Informal Environments*

- 2007 Washington State LASER selected to be featured in *Exemplary Science in Informal Education Settings*, 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 Resolutions passed in both houses of the Washington State Legislature honoring his outstanding achievements in science education reform
- 2006 *Fossil Detective Woolly Mammoth* received iParenting Media award.
- 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
- 2004 Profiled in feature article, Seattle Child, Spring 2004
- 2003 -- 2004 Program Chair for NSTA Regional Conference, Seattle, Washington November 18 – 20, 2004
- 2004 – Present Invited lecturer and directed studies presenter at the National Youth Science Camp
- 2004 Member of National Review Committee of the National Youth Science Camp
- 2003 *Uncover A T.rex* received 2003 Parents Choice Award

- 2003 - 2008 Advisor for Assessing Science Knowledge (ASK), a curriculum assessment research project funded by NSF and led by FOSS staff at the Lawrence Hall of Science
- 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
- 1998 General Chair of Regional National Science Teachers Association Area Conference. October 29 - 31, 1998
- 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
- 1995 - 1996 Member of NASA Office of Space Science (OSS) Education Task Force
- 1994 - 1997 Representative for science centers on the Institute of Museum Services (IMS) Problem Review Panel
- 1994 - 1998 Chair of Association of Science-Technology Centers (ASTC) Education Committee
- 1994 Program Chair for NSTA Regional Conference, Portland, Oregon, October 13 - 15, 1994

1990 - 1995	Member of ASTC Program Committee
1987	General Chair of ASTC National Conference, Seattle, Washington
1983 - 1986	Member of the NSTA Special Education Advisory Board (Chairman in 1985/86)
1981 - 1982	Member of NSTA Awards and Recognition Committee (Chairman in 1982)
1980 - 2002	Chair, V. M. Slipher Committee of the National Academy of Sciences
1980 - 1983	Member of organizing committee and charter board member for Association of Astronomy Educators (President in 1982/83)
1980	Presented with a Ohaus Exemplary Science Education Program award from the National Science Teachers Association

SELECTED 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.

- 2004 - 2009 Program developer and workshop presenter for *Astronomy from the Ground Up* (AFGU), a NSF funded project at the Astronomical Society of the Pacific, which develops a professional learning community at small nature centers and science centers around the topic of astronomy.
- 2002 - 2006 Principal Investigator of *The Space Spot*, 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.
- 1999 - 2003 Program developer for *Family ASTRO*, a NSF funded extension of the *Project ASTRO* national network, which developed family-based astronomy activities for use by *Project ASTRO* partnerships.
- 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.
- 1996 - 2000 Creator of *Other Worlds! Other Beings?* exhibit concept, a NSF funded, nationally touring exhibit.
- 1995 Organized international review session concerning science centers roles in supporting the formal school setting - for the First World Science Center Congress, Helsinki, Finland
- 1995 Featured presenter at Astronomical Society of the Pacific Astronomy Education Symposium - Topic: Implications of the National Science Education Standards on the Teaching of Astronomy.
- 1995 Prepared "Program Bible" for *Magic School Bus* segment concerning lunar phases.
- 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.

- 1992 - Present Workshop Leader and member of advisory board for *Project ASTRO*, a National Science Foundation funded project at the Astronomical Society of the Pacific that develops ongoing partnerships between astronomers and classroom teachers.
- 1992 - 1993 Astronomy and education expert reviewer of the television version of *The Magic School Bus* tour of the Solar System.
- 1990 - 1993 Co-developer of astronomy curriculum (Astro-Adventures) for Space Grant program at the University of Washington. Revised in 2002.
- 1989 - 1997 Principal Investigator of *Science Carnival* and *Science Carnival Consortium*, two National Science Foundation funded projects. *Science Carnival* project designed and toured a science center in tents to shopping malls, parks and county fairs in Washington, Idaho and Montana. Second project provided copies of *Science Carnival* exhibits and education programs, plus staff development for 15 museums across the country.
- 1989 - 1991 Co-developer of astronomy education materials for *Mission to Mars* exhibit, a National Science Foundation funded exhibit and space travel simulation.
- 1988 United States representative at the International Seminar on Science Education and Science Centres, Helsinki, Finland.
- 1987 - 2001 Project Leader for development and travel of robotic dinosaur exhibit (*Dinosaurs: A Journey Through Time*) and robotic whale exhibit (*Whales; Giants of the Deep*).
- 1987 Leader of Indo-U.S. workshop on "New Approaches to Planetarium Education," Calcutta, India.
- 1977 - Present Leader of teacher workshops for the Astronomical Society of the Pacific.

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

Uncover History: Dinosaurs, Schatz, D. Quarto Publishing, 2018

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

Custom Creatures, Inc. (A K-8 Science Curriculum Unit), Schatz, D., Contributing Author, becker & mayer Educational Initiatives, 2011

Crimes and Clues (A K-8 Science Curriculum Unit), Schatz, D., Contributing Author, becker & mayer Educational Initiatives, 2011

Dinosaur Hunters (A K-8 Science Curriculum Unit), Schatz, D., Contributing Author, becker & mayer Educational Initiatives, 2011

Amazing Squishy T.rex, Schatz, D, SmartLab, 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

Look Inside A T.rex, Schatz, D, Scholastic, 2010

Dinosaur Stereobook, Schatz, D, Chronicle Books, 2009

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

Fossil Detective: Neanderthal, Schatz, D, several foreign publishers, 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, Schatz, D, Silver Dolphin, 2005

Fossil Detective: Triceratops, Schatz, D, Silver Dolphin, 2005

Fossil Detective: Woolly Mammoth, Schatz, D, Silver Dolphin, 2005

Walking T.rex Skeleton, Schatz, D, Scholastic, 2005

Stars and Planets, Schatz, D. SmartLab, 2004

Totally Sea Creatures, Schatz, D, Silver Dolphin, 2003

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

Totally Prehistoric Beasts, Schatz, D, Silver Dolphin, 2002

Totally Reptiles, Schatz, D, Silver Dolphin, 2001

Totally Aliens, Schatz, D, Silver Dolphin, 2001

Totally Dinosaurs, Schatz, D., Silver Dolphin, 2000

Totally Bugs, Schatz, D., Silver Dolphin, 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

Science Center Know-How, Schatz, D. et al, Association of Science-Technology Centers, 1996

Build Your Own Bugs, Schatz, D., Andrews and McMeel, 1995

Making A Comet, Odyssey, February 1995 (This article provides a recipe for creating a comet in the classroom or home, a recipe I created in 1985 and is now featured in hundreds of documents and on electronic bulletin boards on the internet)

Build Your Own Dinosaurs, Schatz, D., Andrews and McMeel, 1994

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

The Return of the Comet, Science and Children, November 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).