

RANDALL H. LANDSBERG

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Development, implementation and management of successful, innovative, science education and outreach (E&O) programs with an emphasis on diversity, substantive partnerships, and active researcher engagement. Examples: the *Space Explorers*; collaborations with: Chicago Public Schools and Libraries, the Fisk-Vanderbilt Masters-to-PhD Bridge Program, the Adler Planetarium, and Microsoft Research; professional development for K-12, college and museum educators; workshops on: science communication, astrophysical visualization, forensics, analytic chemistry, and health physics.

Professional History

Director of Education & Outreach

8/01 – present

Kavli Institute for Cosmological Physics (KICP), The University of Chicago

Created KICP's outreach culture and suite of education and outreach programs. Responsible for all aspects of program management and implementation including: strategy, planning, coordination, recruitment, staffing, budgeting, dissemination, web documentation, evaluation, and reporting. See signature program descriptions at - <http://kicp.uchicago.edu/education>

Director of Public Outreach

2/00 – present

Department of Astronomy & Astrophysics, The University of Chicago

Coordination, leadership and guidance for outreach efforts including crafting Broader Impacts for NSF proposals, public relations, and mentoring.

Outreach Director

9/02 – present

South Pole Telescope (SPT), The University of Chicago

Developed, managed, and reported on the SPT collaboration outreach efforts including: Google Trekker, American Museum of Natural History Science Bulletin, and Exploratorium Ice Stories.

Education Outreach & Diversity Coordinator

7/09 – 8/14

Combined Array for Research in Millimeter Astronomy (CARMA), The University of Chicago

Oversight, organization, reporting on and implementation of CARMA-wide efforts including: multimedia, Paiute Tribe outreach, summer school, and on-site observatory activities.

Director of Education & Outreach

4/97 – 12/02

Center for Astrophysical Research in Antarctica (CARA), The University of Chicago

Managed and expanded E&O portfolio e.g., REU program for underrepresented groups, and >\$1M supplemental E&O funding (e.g., ATE grant, R. Landsberg, NSF DUE-9850273 \$574K).

Interim Associate Director of Education & Outreach

4/99-4/01

Center for Adaptive Optics, University of California Santa Cruz

Oversaw start-up of NSF Science and Technology Center. Crafted E&O strategy, managed remotely, coordinated multi-node efforts, and fostered collaborations.

Program Coordinator

3/92-4/97

Division of Educational Programs, Argonne National Laboratory, Argonne, IL

Development and implementation of science enrichment programs. Responsibilities included: curriculum development, budgeting, instructor supervision, instrumentation, evaluation, reporting, chemical hygiene, radiation safety, environmental compliance and laser safety.

Exhibit Developer

7/91-2/92

Museum of Science & Industry, Chicago, IL

Design, concept framing, feasibility studies, and proto-typing. Imaging Science Gallery and Illustrated AIDS Glossary

Education

June 1991

MS, Chemistry

The University of Chicago, Chicago, IL

May 1989

AB, College Scholar and Chemistry - Cum Laude

Cornell University, College of Arts and Sciences, Ithaca, N.Y.

9/86 - 6/87

Matriculated student concentrating in history

Universidad de Granada, Granada, Spain

Honors

The U.C. Office of Civic Engagement Larry Hawkins Faculty Initiative Award (2014)

Fellow of the Great Lakes Planetarium Association (2014)

Exploratorium Ten Cool Sites and ENC Digital Dozen – Interactive South Pole Website (1998)

Argonne National Laboratory Pacesetter Award – Van Program (1995)

Advisory Roles

1998-present	The University of Chicago Office of Special Programs-College Prep Advisory Committee
1998-present	National Science Foundation Reviewer
2011-2014	Center for Elementary Mathematics & Science Education Advisory Committee
2007	Festival of Maps –Web Review & Cosmic Cartography Program Committees
2004	Aspen Center for Physics Education & Outreach Workshop Organizing Committee

Selected Presentations, Public Events and Workshops:

R.H. Landsberg “25 Years of Inner-city Students Out of School Time Explorations” National Science Teachers Association Meeting, 2017

D. McKee, R.H. Landsberg, J. Brittan “S.T.E.M. Partnership in Process: Collaborating Across Organizations Identifying Science, Technology, Engineering and Math Resources to Support TRIO Programs” Council for Opportunities in Education (COE), 2015

SAIC Conversations on Art and Science: “The Multiverse: Facts, Fictions & Fantasies”, 2014

Education & Outreach Summer School for Graduate Students, 2014 <https://kicp-workshops.uchicago.edu/eo2014/>

“Communicating Science: A Kavli Workshop for Scientists” in collaboration with the Alan Alda Center for Communicating Science, 2013 <https://kicp-workshops.uchicago.edu/SciComms2013/>

R.H. Landsberg, M. SubbaRao, “Science Visualized The Art of Science” National Science Teachers Association Meeting, 2012

R.H. Landsberg, “Connections: Science, Museums & People” Academia Sinica Institute of Astronomy and Astrophysics (ASIAA), Taiwan, invited talk, 2011

R. Landsberg and L. Ciupik, “Astronomy Conversations: A Partnership Between the University of Chicago and Adler Planetarium”, National Science Teachers Association Meeting, 2010

R.H. Landsberg, “Cosmological Outreach via Visualizations” Franke Institute for Humanities, invited talk, 2007

R.H. Landsberg, “3D Visualizations for Public Explorations of Current Astrophysical Research”, High Energy Physics Seminar, Michigan State University, invited talk, 2004

R.H. Landsberg and P. Tuss, “Follow-Up Evaluation Of Argonne National Laboratory’s Teacher Enhancement Program and Educational Outreach Vehicle”, National Association for Research in Science Teaching (NARST), 1995

Selected Publications:

R. H. Landsberg, B. Benson, L. Bleem, “Unmasking the Universe with the CMB, Nature’s Ultimate Backlight” Proceedings of the Great Lakes Planetarium Association, 2013

R.H. Landsberg, M. SubbaRao and L. Dettloff, “WorldWide Telescope & Google Sky New Technologies to Engage Students and the Public”, *Science Education and Outreach: Forging a Path to the Future*, Eds. J. Barnes, D. A. Smith, M. G. Gibbs, and J. G. Manning, Astronomical Society of the Pacific Vol. 431, 2010

R.H. Landsberg, M. Ratcliffe and M. Murray, “Professional Development for Planetarium Staff: Is it needed? What is wanted?”, Proceedings of the International Planetarium Society, 2008

P. J. Sakimoto, V. Luckey, R. H. Landsberg, L. Hawkins and I. Porro, “Building an International Year of Astronomy Legacy for Underserved Communities”, Bulletin of the American Astronomical Society Vol. 40, 2008

R. H. Landsberg, D. Pancoast, J. A. Frieman, A. V. Kravtsov and J. Manning, “SKYZOME: Public Art to Promote Science”, Bulletin of the American Astronomical Society Vol. 39, 2007

R.H. Landsberg, “The Successful Integration of Current Research into the Planetarium: Evaluating the Impact of a Cosmology Short Course”, Proceedings of the Great Lakes Planetarium Association, 2005

G. Novak and R. H. Landsberg (eds), *Astrophysics from Antarctica*, Proceedings of the Astronomical Society of the Pacific Vol. 141, 1998

Hobby Sailing - Providence 6649 Chicago-Mackinac Race 3rd overall 2015, 2nd overall 2016, and 1st overall 2012, 2013, & 2014