

**American Astronomical Society**

*LSST: The Widest, Fastest, Deepest Eye of the New Digital Age*  
Sidney Wolff and Don Sweeney  
Large Synoptic Survey Telescope

**American Educational Research Association**

*Changing the Game: Curriculum, Teachers and  
Parents Working Together*  
William H. Schmidt  
Michigan State University

**American Geological Institute/Geological Society of America**

**American Geophysical Union**  
*Geosciences Research: Helping the Global Community  
Understand and Deal with Climate Change*  
Peter Kelemen  
Columbia University

**American Mathematical Society**

*Modeling Outbreaks in Agricultural Systems, Human  
Communities and Computer Networks*  
David Hiebeler, Ph.D.  
University of Maine

**American Physical Society**

*Long Range Dipolar Fields as a Tool for Nuclear Magnetic  
Resonance Microscopy*  
Dr. Carlos Meriles  
City College of New York

**American Psychological Association**

*The Psychology of Financial Risk-Taking: Results  
from fMRI Studies*  
Brian Knutson, Ph.D.  
Stanford University

**American Society for Biochemistry & Molecular Biology**

*Cell-to-Cell Communication in Bacteria*  
Lee Swem, Ph.D.  
Princeton University

**American Society for Microbiology**

*Microbial Contributions and Solutions for a Changing World*  
Gary M. King, Ph.D.  
Louisiana State University

**American Society of Agronomy/Crop Science Society of  
America/Soil Science Society of America**

*Reproductive Hormones in the Environment*  
Francis X. M. Casey  
North Dakota State University

**American Society of Plant Biologists**

*Improving Drought Tolerance in Plants*  
Sarah M. Assmann  
Pennsylvania State University

**American Sociological Association**

*Developing the Science of Science & Innovation Policy*  
Jonathan Mote and Jerry Hage  
University of Maryland

**Association of Science-Technology Centers**

*Current Science in Museums*  
Margaret Glass

**Coalition for Academic Scientific Computation**

*HPC Goes Green*  
Sue Fratkin

**Computing Research Association**

*Computing Aids for Autistic Children*  
Prof. Greg Abowd  
Georgia Institute of Technology

**Consortium for Ocean Leadership**

*Ocean Observatories & Scientific Ocean Drilling*  
Tim Cowles, Jim Channell and Roy Wilkens  
Ocean Leadership's Ocean Observing Program, University of  
Florida and Hawaii Institute of Geophysics and Planetology  
at the University of Hawaii, Manoa

**Consortium of Universities for the Advancement of Hydrologic  
Science Inc. (CUAHSI)**

*Water Data Services for Education, Research and Decision Support*  
David Kirschtel

**DOSECC**

*Climate Change, Extinctions and Solar System Chaos*  
Paul Olsen  
Columbia University

**Ecological Society of America**

*Climate Change Consequences in Natural Ecosystems*  
Dr. Travis Huxman  
University of Arizona

**Incorporated Research Institutions for Seismology (IRIS)**

*Cornerstone Facilities for Seismology*  
Bob Woodward and David Simpson

**Michigan State University**

*Harmful Algal Blooms and Water Quality in  
the Changing Climate*  
Elena Litchman

**Museum of Science, Boston**

*Advancing Technological Literacy & Skills (ATLAS)  
for Elementary Educators*  
Christine Cunningham  
National Center for Technological Literacy at  
Museum of Science, Boston

**Northwestern University**

*Diagnostics of the 21<sup>st</sup> Century*  
Prof. Thomas J. Meade

**Population Association of America and Association of  
Population Centers**

*The Panel Study of Income Dynamics: Study Overview  
and Research Topics*  
Dr. Narayan Sastry  
University of Michigan

**Princeton University**

*Mapping the Earth's Interior*  
Jeroen Tromp

**Society for Industrial and Applied Mathematics**

*Applications of Dynamical Systems*  
Prof. Konstantin Mischaikow  
Rutgers, The State University of New York

**Society for Research in Child Development**

*How and Why Does Parenting Change when Children  
Turn into Teenagers*  
Robert D. Laird, Ph.D.  
University of New Orleans

**University Corporation for Atmospheric Research (UCAR)**

*High Flying HIPPO: Pole-to-Pole Climate Missions*  
Cindy Schmidt and Laura Curtis

**University of California**

*Photons for Life, UC Davis Center for Biophotonics Science & Technology*  
Prof. Dennis L. Matthews  
UC Davis, School of Medicine

**UC Irvine Center for Solar Energy**

Dr. Lori Greene  
UC Irvine, Office of Research

**UC Center for Environmental Implications of NanoTechnology (UC CEIN)**

Prof. Yoram Cohen and Dr. David Avery  
UC Los Angeles, UC CEIN

**University of Michigan**

*Bendable Concrete*  
Prof. Victor Li

**University of Pittsburgh**

*The Brain and Education*  
Dr. Julie Fiez

**The City as Learning Lab**

Dr. Kevin Crowley

**University of Wisconsin – Madison**

*Synchrotron Radiation Center – Wisconsin Free-Electron Laser (WIFEL)*  
Prof. Joseph Bisognano