

20th Annual CNSF Exhibition & Reception
Wednesday, May 7, 2014

American Economic Association/Population Association of America

Continuity and Change in American Economic and Social Life

Prof. Charles Brown

University of Michigan

American Educational Research Association

Integrating Quality Talk Professional Development to Enhance Professional Vision and Leadership for STEM Teachers in High-Need Schools

P. Karen Murphy

The Pennsylvania State University

**American Geosciences Institute/American Geophysical Union/
Geological Society of America**

25,000 Feet under the Sea: Studying Japan's 2011 Tohoku Earthquake

Dr. Patrick Fulton and Dr. James Sample

University of California, Santa Cruz and Northern Arizona University

American Mathematical Society

Topological Sensor Networks

Prof. Robert Ghrist

University of Pennsylvania

American Psychological Association/Vanderbilt University

Russell the Robot: Engaging Children with Autism through Psychological and Engineering Research

Zachary Warren, PhD and Nilanjan Sarkar, PhD

Vanderbilt University

American Society of Plant Biologists

From Fire to Food: How Smoke Signals May Unlock New Innovations in Agriculture

David C. Nelson, PhD

University of Georgia

American Statistical Association

Statistics for Mixed Big Data in Cancer Genomics

Prof. Genevera Allen

Rice University

Associated Universities, Inc.

The National Radio Astronomy Observatory

Mark Adams

Association of Science-Technology Centers

Center for Advancement of Informal Science Education

Showcasing EHR Grants: Intersections and CAISE

Margaret Glass, PhD

Brown University

How Mathematics Research Fuels Innovation

Prof. Jill Pipher and Ruth Crane

Institute for Computational and Experimental Research
in Mathematics (ICERM)

Coalition for Academic Scientific Computation

HPC Centers & STEM

Dr. Curt Hillegas

Princeton University

Computing Research Association

Printable Robots and Soft Robots

Ankur Mehta, Joseph DelPreto and Robert Katzschmann

Massachusetts Institute of Technology

Consortium of Universities for the Advancement of Hydrologic Science Inc.

Water Data Center—Advancing Hydrologic Research and Education

Emily Geosling

Council on Undergraduate Research

Institutionalizing Undergraduate Research for State Systems and Consortia

Shontay Kincaid

Ecological Society of America

Wildflower Response to Climate Change

Prof. David Inouye

University of Maryland

Entomological Society of America

Optimizing Crop Yields: Pollinators, Pests and Pathogens

Prof. Gary Felton and Prof. Christina Grozinger

The Pennsylvania State University

Genetics Society of America

Beyond the Gene: Epigenetic Control of Seed Development

Mary Gehring, PhD

Massachusetts Institute of Technology

Whitehead Institute for Biomedical Research

Michigan State University

STEM Genetics: Steps Towards Success
Prof. Michelle Williams and Amy Frahm

Museum of Science, Boston

Building Computational Thinking in Museum Exhibits
Clara Cahill

National Communication Association

Improving Public Deliberation through the Citizens' Initiative Review
Prof. John Gastil and Prof. Katie Knobloch
The Pennsylvania State University and Colorado State University

NC State University

Dielectrics and Piezoelectrics
Dr. Elizabeth C. Dickey

Northwestern University

Rat Whiskers: Novel Engineering Applications and Insights for Neuroscience
Prof. Mitra Hartmann

The Ohio State University

Growing STEM Talent at a Large Scale
Prof. David Tomasko and Jasmine Peters

Oregon State University

Sustainable Materials Chemistry and Physics Education Reform
Prof. Douglas Keszler, Prof. Janet Tate and Jenn Amador

Princeton University

High-Assurance Cloud Services
Prof. Michael Freedman

Society for Industrial and Applied Mathematics

The Mathematics of Stem Cells, Drug Resistance and Cancer
Prof. Doron Levy
University of Maryland

Society for Research in Child Development

Parenting for STEM Success in African American Families
Prof. Beth Kurtz-Costes and Prof. Stephanie Rowley
University of North Carolina, Chapel Hill and University of Michigan

Tufts University

Engineering Solutions for Clean Water
Dr. Kurt Pennell and Dr. Daniele Lantagne

University of California

Shaping the Future of Innovation and Research
Roxane Cohen Silver, David Feldman, Zach Reagh and Kristin Roher
University of California, Irvine

Into the Loop Alliance: Exploring Computer Science
Jane Margolis
University of California, Los Angeles

Fire, Erosion and the Global Carbon Cycle
Asmeret Asefaw Berhe
University of California, Merced

Improving Success of First-Generation, Ethnically Diverse Students in STEM Majors
Michael McKibben
University of California, Riverside

The Role of the Loss of Anti-Oxidants in Developing Liver Tumors
Brittany Anderton
University of California, San Francisco

University of Colorado, Boulder

CCAT Telescope: Research, Technology and Training
Prof. Jason Glenn

University of Illinois at Chicago

Faces of STEM Education & Research at UIC
Prof. Mitra Dutta

University of New Mexico

An HSI Doing World Class Research and Education in Micro-Engineered Materials
Carlos Romero

West Virginia University

The Pulsar Content of Globular Clusters
Dr. Duncan Lorimer