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COALITION FOR NATIONAL SCIENCE FUNDING 25TH ANNUAL EXHIBITION AND RECEPTION TUESDAY, APRIL 30, 2019 RAYBURN HOUSE OFFICE BUILDING WASHINGTON, DC



# EXHIBITORS 2019

#### **American Economic Association**

Factors Affecting Racial Sorting and the **Emergence of Segregation in American Cities** 

University of Pittsburgh and the National Bureau of Economic Research

#### **American Educational Research Association**

Connecting Middle School Teachers and **Students with Computing Technologies** to Advance Science Learning

MIMI RECKER **Utah State University** 

#### **American Mathematical Society**

Power Domination: How Zero Forcing is Used to Monitor an Electric Power Grid

MICHAEL YOUNG **lowa State University** 

#### **American Physiological Society** and FASEB

**Understanding the Gut Microbiome** of Hibernating Animals

**HANNAH CAREY** 

University of Wisconsin-Madison

#### **American Phytopathological** Society

Systemic Acquired Resistance, A Mechanism to Simultaneously Combat Multiple Diseases in Agriculturally Important Plants

AARDRA AND PRADEEP KACHROO University of Kentucky

#### **American Political Science Association**

**Making Young Voters** 

D. SUNSHINE HILLYGUS **Duke University** 

JOHN HOLBEIN

**Brigham Young University** 

#### **American Psychological Association**

The Contribution of Human Factors Psychology to Safe Autonomous Driving

JING CHEN

Old Dominion University

#### **American Society for Engineering** Education

Igniting High-tech Entrepreneurship Among Early-career Ph.D.'s

**DAMON TULL** 

#### **American Society of Plant Biologists**

**Innovating Agricultural Systems to Mitigate Environmental Stress** 

SALLY MACKENZIE

Pennsylvania State University

#### **American Sociological Association**

**Linking Violence and Migration: Evidence from Mexico** 

MICHAEL MASSOGLIA

University of Wisconsin-Madison

## **Association of Science-Technology**

**Connecting Evidence-Based Design** and Research in Informal STEM Education and Public Engagement with Science

MELISSA BALLARD

Center for Advancement of Informal Science Education (CAISE)

#### **Coalition for Academic Scientific** Computation

**Breaking New Ground: Computational Science** at the Forefront of Discovery

SCOTT YOCKEL **Harvard University** 

#### **Computing Research Association**

Al-Powered Microscopes for Cellular Biosensors THOMAS ZIMMERMAN **IBM Research** 

#### **Cornell University**

Synchrotron Science: More than Meets the Eye JOEL BROCK

#### **Ecological Society of America**

Long-Term Research to Understand the Future of Northeastern Forests

**GARY M. LOVETT** 

Cary Institute of Ecosystem Studies

#### **Federation of Associations in Behavioral and Brain Sciences**

**Building a Transformative Bridge Between Data** Science and Neuroscience

**NICHOLAS TURK-BROWNE** Yale University

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

Virtual Reality Geoscience Field Trips: Bringing the World into the Classroom

**KELLY LAZAR** 

**Clemson University** 

STEPHEN MOYSEY

**East Carolina University** 

#### **Indiana University**

Cybersecurity for the World's Greatest Science: Think Different/Act Different

VON WELCH

#### **Michigan State University**

Converting Electricity and Carbon Dioxide into Fuels with Engineered Microbes MICHAELA TERAVEST AND SHAYLYNN MILLER

#### Michigan Technological University

System-on-Cloth: A Cloud Manufacturing Framework for Embroidered Wearable **Electronics** 

YE SUN

#### **National Communication Association**

The Future of Work in Health Analytics and Automation

**JOSHUA BARBOUR** 

The University of Texas at Austin

## **Northern Illinois University**

BELONG in STEM: A Partnership in STEM **Education Between Northern Illinois University** and the NSF/S-STEM Program RALPH A. WHEELER

#### **Population Association of America**

The Array of Things: An Urban Cyber-Infrastructure Cooperative **KATHLEEN CAGNEY** 

**Princeton University** 

**University of Chicago** 

**Exploring Earth's Core with Seismology** JESSICA IRVING

#### **Rutgers, the State University** of New Jersey

Dawn in the Age of Robotic Oceanography OSCAR SCHOFIELD

#### **Saint Louis University**

Seeing Through Touch: Bridging the Graphics Accessibility Gap in STEM JENNA GORLEWICZ

#### **Society for Industrial** and Organizational Psychology

Broadening Participation: How Allies Can Help Reduce the Consequences of Subtle **Discrimination Toward Minorities in STEM Rice University** 

#### **Society for Research in Child Development**

Not All Children Count Sheep: **Racial Differences in Sleep** TIFFANY YIP

Fordham University

#### **Stevens Institute of Technology**

**Innovative Quantum Engineering:** New Frontiers of Research and Education YUPING HUANG

### **University of California**

Mechanical Properties of the Airway Tree MONA ESKANDARI **UC Riverside** 

Advancing Propulsion and Energy Technologies **Using Laser-Based Sensors** MITCH SPEARRIN

UCLA

PAMELA SOLTIS

#### **University of Colorado Boulder**

CONVERGE: Coordinated Social Science. Engineering, Natural Science, and Interdisciplinary Extreme Events Research LORI PEEK

#### **University of Florida**

Exploring and Using the Tree of Life: A Roadmap to Understanding Earth's **Biodiversity** 

#### **University of Michigan**

Animal Pharm: How Basic Research on Water Fleas Inspired Work to Discover Novel **Medicines for Humans** MEGHAN DUFFY

#### **Vanderbilt University**

An Educational Neuroscience Approach to **Understanding Math Learning Disabilities** GAVIN PRICE



















