

# STEM Smart: Lessons Learned From Successful Schools

June 23, 2013 | Georgia World Congress Center | Atlanta, GA



## AGENDA

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- 10:00–10:30 am**      **Registration (*coffee served*)** LOBBY OUTSIDE OF RMs C202, C203, C204
- 10:30–10:50**      **Welcome and Opening Remarks** RMs C202, C203, C204
- **Janice Earle**, Program Director, National Science Foundation
  - **Ashok Agrawal**, Managing Director for Professional Development and Director of Outreach and Engagement, American Society for Engineering Education
- 10:50–11:45**      **The Role of Engineering in Successful K–12 STEM Education—Plenary Presentation** RMs C202, C203, C204
- **Moderator: Darryl Williams**, Associate Dean of Recruitment, Retention, and Community Engagement, and Director of the Center for STEM Diversity, Tufts University
  - **Panelists: Greg Pearson**, Senior Program Officer, National Academy of Engineering; **Cary Sneider**, Associate Research Professor, Portland State University; **Marion Usselman**, Principal Research Scientist and Associate Director, CEISMC, Georgia Institute of Technology
- 11:45 am–12:00 pm**      **Break**
- 12:00–1:00**      **Focusing on the “E” in STEM—Breakout Sessions**
- **Design Squad: Inspiring a New Generation of Engineers:** David Peth, WGBH **RM C207**
  - **Engineering High School Biology into the 21st Century:** Christian Schunn, University of Pittsburgh **RM C208**
  - **Engineer Your World: Engineering Design and Problem Solving for High Schools:** Cheryl Farmer, University of Texas at Austin **RM C210**
  - **Integrating Engineering and Literacy:** David Hammer and Jessica Watkins, Tufts University **RM C211**
  - **Making a Difference in the World: Engineering in Middle School Math and Science Classrooms:** Amy Wendt, University of Wisconsin-Madison; Amy Schiebel, Edgewood College **RM C212**
  - **What Does It Mean to “Engineer” in Engineering is Elementary?:** Erin Fitzgerald, Museum of Science, Boston **RM C213**
- 1:00–1:15**      **Break**
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- 1:15–2:15**                    **Networking (*lunch served*) RMs C202, C203, C204**  
**The Joy of STEM: Engineering Is at the Heart of It—*Plenary Presentation***
- *Pramod Khargonekar, Assistant Director, National Science Foundation*
- 2:15–2:30**                    **Break**
- 2:30–3:30**                    **Focusing on the “E” in STEM—*Breakout Sessions***
- **CAPSULE: How to Use Engineering-Based Learning (EBL) in High School STEM Teaching:** *Jessica Chin, Northeastern University* **RM C207**
  - **Elementary Engineering Teacher Professional Development: Initiation to Integration:** *Heidi Diefes-Dux, Purdue University* **RM C208**
  - **Engaging Youth through Engineering (EYE) Modules: Integrating and Bringing Relevance to Core Middle Grades Mathematics and Science Content:** *Susan Pruet, Melissa Dean, and Judy Duke, Mobile Area Education Foundation* **RM C210**
  - **Implementing K–12 Engineering Standards through STEM Integration:** *Tamara Moore, Aran Glancy, Forster Ntow, and Kristina Tank, University of Minnesota, Twin Cities* **RM C211**
  - **Learning Science through Engineering Design: An Effective Approach to STEM Integration at the Elementary School Level:** *Brenda Capobianco and Chell Nyquist, Purdue University* **RM C212**
  - **Mathematics Instruction Using Decision Science and Engineering Tools:** *Robert Young and Karen Keene, North Carolina State University* **RM C213**
- 3:30–3:45**                    **Break**
- 3:45–4:30**                    **K–12 and Higher Education: Why Collaboration Is Vital—*Plenary Presentation***  
**RMs C202, C203, C204**
- **Joseph Coccozza**, *Co-Director of Education and Outreach Programs, Biomimetic MicroElectronic Systems, Engineering Research Center; Assistant Professor of Research, Ophthalmology, University of Southern California*
  - **Adah Leshem**, *Program Director of Pre-College Education, NSF Engineering Research Center for Biorenewable Chemicals*



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