

STEM Smart: Lessons Learned From Successful Schools

December 3, 2013

Reagan Building and International Trade Center | Washington, DC



AGENDA

- 8:30–9:00 am** **Registration (Coffee served) AMPHITHEATER FOYER**
- 9:00–9:30** **Welcome and Opening Remarks AMPHITHEATER**
- **Joan Ferrini-Mundy**, Assistant Director, Directorate for Education and Human Resources, National Science Foundation
 - **Claudine Brown**, Assistant Secretary for Education and Access, Smithsonian Institution
- 9:30–10:30** **Issues and Opportunities in PreK–3 STEM Education—Plenary Presentation AMPHITHEATER**
- **Moderator: Janice Earle**, National Science Foundation
 - **Panelists: Susan Carey**, Harvard University; **Doug Clements**, University of Denver; **Kimberlee Kiehl**, Smithsonian Early Enrichment Center; **Karen Worth**, Wheelock College
- 10:30–10:45** **Break AMPHITHEATER FOYER**
- 10:45–12:00** **Focusing on PreK–3 STEM Education—Breakout Sessions**
- **Self-Regulation and Cognitive Control: Why Executive Functions Matter for Early STEM Education:** Susan Carey, Harvard University **MERIDIAN D**
 - **Supporting the Development of Models and Modeling:** Richard Lehrer, Vanderbilt University; Liz Penner, Verona Area School District, WI **POLARIS A**
 - **Supports for Preschool STEM Learners and the Teachers Who Teach Them:** Kimberly Brenneman, National Institute for Early Education Research **MERIDIAN C**
 - **Technology and the Future of Preschool: Developmentally Appropriate and Evidence-Based Approaches to Integrating Technology in the Classroom:** Phil Vahey and Ximena Domínguez, SRI International; Ashley Lewis Presser, Education Development Center, Inc. **POLARIS C**
 - **The Building Blocks of Math:** Doug Clements and Julie Sarama, University of Denver **MERIDIAN E**
 - **The Young Scientist: Teaching and Learning Science in Preschool Classrooms:** Karen Worth, Wheelock College; Jeff Winokur, Education Development Center, Inc. **POLARIS B**
- 12:00–12:15 pm** **Break AMPHITHEATER FOYER**
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- 12:15–1:45** **Networking (Lunch served) AMPHITHEATER FOYER**
Frontiers and Challenges of Early Childhood Research—Plenary Presentation
AMPHITHEATER
- **Speaker: Deborah Phillips**, Professor, Georgetown University
- 1:45–2:00** **Break AMPHITHEATER FOYER**
- 2:00–3:15** **Focusing on PreK–3 STEM Education—Breakout Sessions**
- **Anywhere STEM Exploration: Supporting STEM Learning in Formal and Informal Settings with PEEP and the Big Wide World:** Kate Taylor and Mary Haggerty, WGBH **MERIDIAN E**
 - **Playscapes: Designed Nature Environments to Promote Informal Science Learning:** Victoria Carr, Catherine Maltbie, and Leslie Kochanowski, University of Cincinnati **MERIDIAN D**
 - **Ramps and Pathways: Integrating Physical Science and Engineering in Early Childhood:** Betty Zan, University of Northern Iowa **POLARIS B**
 - **Scaffolding Young Math Learners to Be Effective Spatial Problem Solvers:** Beth Casey, Boston College **POLARIS C**
 - **The Missing T & E in Early Childhood STEM: Young Children as Programmers and Engineers:** Marina Bers, Amanda Strawhacker, and Amanda Sullivan, Tufts University **MERIDIAN C**
 - **Young Children Explore the World: Seriously Amazing Experiences at the Smithsonian:** Kimberlee Kiehl, Smithsonian Early Enrichment Center; Ann Caspari, Smithsonian Institution **POLARIS A**
- 3:15–3:30** **Break AMPHITHEATER FOYER**
- 3:30–4:00** **Reflections and Implications—Plenary Presentation AMPHITHEATER**
- **Moderator: Natalie Nielsen**, National Research Council
 - **Panelists: Amy Beal**, Anne Arundel County Public Schools, MD; **Amy Reese**, Howard County Public Schools, MD



Join the conversation at #nsfstem