

Preliminary Agenda

*Times of sessions subject to change to accommodate scheduling
constraints of keynote presenters*



National Science Foundation

Workshop and Exhibition January 15 – 16, 2008

**The Walter E. Washington Convention Center
Washington, D. C.**

Science Education and Workforce Development Key Challenges for Innovation in the States

January 15, 2008

- 2:30 p.m. Registration
- 3:00 p.m. Welcoming remarks
Dr. Arden Bement, Director, National Science Foundation (NSF)
- 3:30 p.m. Tools for Building Community Engagement and Support for High Quality Science Education and the Workforce “Pipeline”
*Dr. Jan Kettlewell, Rosalind Barnes, and Sheila Jones
University System of Georgia*

In a recent report from the nonprofit Public Agenda, entitled “Important, but Not for Me: Parents and Students in Kansas and Missouri Talk about Math, Science, and Technology Education,” parents and students acknowledge the national importance of mathematics, science, and technology but fail to see the importance for themselves, a phenomenon labeled by Public Agenda as an ‘urgency gap.’ In this session, the NSF-funded University System of Georgia Math and Science Partnership (MSP) shares the public relations and other tools researched, developed, and implemented as part of their work, as well as other aspects of their overall strategy.

January 15, 2008 (continued)

- 4:30 p.m. Unveiling of Prototype Website and Discussion
Joni Falk, TERC
“Science and Innovation” website as a tool for decision-makers and users in the States
- 5:15 p.m. Reception & exhibits

January 16, 2008

- 8:00 a.m. Continental breakfast
- 8:30 a.m. Opening remarks and introduction of keynote speaker
Dr. Cora Marrett, Assistant Director, Directorate for Education and Human Resources (EHR), NSF
- 8:45 a.m. Keynote Address
President Shirley Ann Jackson, Rensselaer Polytechnic Institute (invited)
- 9:45 a.m. Break
- 10:00 a.m. Tools for Making Teacher Professional Development “Pay Off”
Dr. Heather Hill, Harvard University
Dr. Sean Smith, Horizon Research, Inc.
Dr. Philip Sadler, Harvard University
- Teacher professional development is critical in the current accountability environment. Is the professional development funded in local school districts really accomplishing its purposes? Are teachers actually learning the mathematics and science they need to know to teach their students? This session focuses on new, nationally developed and validated tools for assessing teachers’ growth in understanding the mathematics and science needed for teaching, a critical component of effective teacher professional development.*
- 11:00 a.m. Critical Role of Industry in Science Education and Workforce Development
Panel of industry representatives, moderated by Cathleen Barton, Intel Corporation
- Noon Lunch and Exhibits

January 16, 2008 (continued)

- 1:00 p.m. Keynote Address
Governor Edward G. Rendell, Commonwealth of Pennsylvania (invited)
- 1:45 p.m. National Governors Association's (NGA) STEM Centers in the States: Pennsylvania STEM Center
F. Joseph Merlino and Anthony J. Girifalco, STEM Center Team
- States recognize rigorous science, technology, engineering, and mathematics (STEM) education is critical to future economic soundness. The Pennsylvania STEM Center is creating and coordinating a statewide and regional infrastructure to design and implement a ten year STEM agenda to engage and better prepare more P-16 students, especially minorities and females, for STEM careers and STEM literacy.*
- 2:45 p.m. Tools for Advancing STEM Education and Workforce Development: What Do We Have? What Do We Need?
Large group discussion, moderated by Dr. Wanda Ward, Deputy Assistant Director, EHR/NSF
- 3:15 p.m. Closing remarks, evaluation, and adjournment