

# THE NATIONAL ACADEMIES

*Advisers to the Nation on Science, Engineering, and Medicine*

## **Critical National Needs in New Technologies: Opportunities for the Technology Innovation Program**

**A Symposium Organized by  
The Board on Science, Technology, and Economic Policy**

### **Agenda**

**24 April 2008**

**Lecture Room  
2100 C Street, NW**

- 
- 9:00 AM     **Welcome**  
*Charles Wessner, The National Academies*
- 9:10 AM     **The Mandate of the Technology Innovation Program**  
*Marc Stanley, NIST*
- 9:30 AM     **Panel I: Leveraging National Assets for National Energy & Security Needs**  
*Moderator: Peter Engardio, BusinessWeek*
- Opportunities for Cooperation**  
*Richard Stulen, Sandia National Laboratories*
- A Perspective from Oak Ridge**  
*James Roberto, Oak Ridge National Laboratory*
- Measurement Science for Building Energy Technologies**  
*Hunter Fanney, NIST*
- 10:30 AM     **Coffee Break**
- 10:45 AM     **Panel II: Capitalizing on Opportunities in Information Technologies**  
*Moderator: Robert Sienkiewicz, NIST*
- The New Challenges**  
*Peter Lee, Carnegie Mellon University*
- The Nano Opportunity in Health: The NCI Nano Initiative**  
*Anna Barker, National Cancer Institute*
- Challenges & Opportunities in Complex Networks**  
*Thomas Bowles, Science Advisor to the Governor of New Mexico*
- Discussion**
- 12:00 PM     **Lunch (NAS Refectory)**
- Keynote: The Importance of Public-Private Partnerships**  
*Mary Good, University of Arkansas at Little Rock and STEP Board*

(over)

- 1:10 PM      **Panel III: The Energy and Environmental Challenge**  
*Moderator: Jim Turner, U.S. House Committee on Science and Technology*
- Addressing the Research Challenge**  
*Anthony Cugini, National Energy Technology Laboratory*
- Perspectives on Clean Technology**  
*Samuel Baldwin, Department of Energy*
- Discussion**
- 2:00 PM      **Panel IV: Making the Model Work: The University Connection**  
*Moderator: William Harris, Science Foundation Arizona*
- The University Connection**  
*Bill Bonvillian, MIT*
- Commercializing University Innovation: The Proof of Concept Centers**  
*Christine Gulbranson, The Kauffman Foundation*
- Innovative Partnerships for Nanotechnologies**  
*Robert Rung, Oregon Nanoscience and Microtechnologies Institute*
- Discussion**
- 3:00 PM      **Coffee Break**
- 3:15 PM      **Panel V: Civil Infrastructure & Water**  
*Moderator: Casey Dinges, American Society of Civil Engineers*
- Keeping the Infrastructure Alive**  
*Kevin Womack, Utah State University*
- Sustainable Water Infrastructure**  
*Peter Shanaghan, Environmental Protection Agency*
- Cleaning Polluted Groundwater: The Nano Option**  
*Michael Wong, Rice University*
- Driving Innovation for the Environment**  
*David Widawsky, Environmental Protection Agency*
- Discussion**
- 4:15 PM      **Panel VI: 21<sup>st</sup> Century Manufacturing**  
*Moderator: Benjamin Erulkar, Economic Development Administration*
- Converting Fundamental Knowledge to Infrastructure Reliability**  
*Clem Hiel, Composite Support and Solutions Inc.*
- Accelerating Manufacturing**  
*Surendra Chawla, Goodyear*
- Fuel Cells: Present & Future**  
*William Ernst, Plug Power*
- Discussion**
- 5:15 PM      **Adjourn to Reception**