

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

*(over)*

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