

Nanotechnology Long-term Impacts and Research Directions: 2000-2020
NSF, Board Room (1235), WTEC international study presentation
Public presentation of the final report on September 30, 2010

Website: http://wtec.org/private/nano2_draft/

Draft report will be posted on this website for public comments from September 30 to October 15, 2010

Webcast access: To view the webcast, please access the website and type your e-mail

www.tvworldwide.com/events/NSFnano2/100930

Agenda

- 8:30 Innovation in nanotechnology, Tom Peterson, NSF
- 8:40 Overview of the study, Mark Hersam, NU
- 8:50 Long-term View of Nanotechnology Development, Mihail Roco, NSF
- 9:10 Scientific and Societal Challenges for Nanotechnology, Chad Mirkin, NU
- 9:30 Chapter 1. Investigative Tools: Theory, Modeling, and Simulation, Mark Lundstrom, Purdue U.
- 9:50 Chapter 2. Investigative Tools: Experimental Methods, Instruments, and Metrology,
Dawn Bonnell, U. Penn.
- 10:10-10:20 Break
- 10:20 Chapter 3. Synthesis, Processing and Manufacturing of Nanoscale Components, Devices, and
Systems, Mark Tuominen, University of Massachusetts Amherst (and Chad Mirkin, NU)
- 10:40 Chapter 4. Nanotechnology Environmental, Health, and Safety Issues
Andre Nel, University of California Los Angeles
- 11:00 Chapter 5. Sustainability: Environment, Water, Food, and Climate,
Mamadou Diallo, California Institute of Technology (and Jeff Brinker, SNL and UNM)
- 11:20 Chapter 6. Sustainability: Energy Conversion, Storage, and Conservation,
Jeff Brinker, SNL and UNM (and Jim Murday, USC)
- 11:40-1:00 Lunch
- 12:00-12:30 Press conference on WTEC study (tentative)
- 1:00 Chapter 7. Applications: Nanobiosystems, Medical, and Health
- 1:20 Chapter 8. Applications: Nanoelectronics and Nanomagnetism
Jeff Welser, IBM and Nanoelectronics Research Initiative
- 1:40 Chapter 9. Applications: Photonics and Plasmonics
Evelyn Hu, Harvard University (and Jeff Welser, IBM and NRI)
- 2:00 Chapter 10. Applications: Nanostructured Catalysts
Evelyn Hu, Harvard University
- 2:20 Chapter 11. Applications: High-performance Materials, Nanosystems, and other Emerging Areas,
Mark Hersam, NU
- 2:40 Chapter 12. Preparation of People and Physical Infrastructure
James Murday, University of Southern California (and Mark Hersam, NU)
- 3:00 Chapter 13. Innovative and Responsible Governance of Nanotechnology for Societal Development
Mike Roco, NSF
- 3:20 Overarching Conclusions
- 3:30 General Questions and Answers
- 4:30 Adjourn