



2005 Industrial Physics Forum
 Gaithersburg, MD November 6-8, 2005
 Hosted by: The National Institute of Standards & Technology
"Advancing Infrastructure for Innovation"

Sunday, November 6, 2005 (Hilton Gaithersburg Hotel)

Academic-Industrial Workshop (Pre-Conference) 8am - 4:15 pm
Industrial Physics Forum opening reception & buffet dinner 7-9:30 pm

Monday, November 7, 2005 (NIST)

Buses depart Hilton Gaithersburg for NIST 7:15 am

Breakfast/Registration 7:30

Welcoming Remarks 9:00

Marc Brodsky, Executive Director and CEO, AIP

David Seiler, Head, Semiconductor Electronics, NIST

Theme Session: Advancing Infrastructure for Innovation

Moderator: David Seiler, NIST

-*Enabling the Future: Innovation, Trade and Security*, Hratch Semerjian, Acting Director, NIST 9:15

-*Public Safety & Security*, Kathleen Higgins, Asst. to the NIST Director for Homeland Security 10:00

-*Nanotechnology at NIST*, Michael Postek, Asst. to the NIST Director for Nanotechnology 11:05

-*Biosystems & Health*, Linda Beth Schilling, Asst. to the NIST Director for Biosystems & Health 11:45

-*Roadmapping America's Measurement Needs...and Standards Challenges for the Next* 12:25 pm

Decade, Richard Kayser, Acting Deputy Director, NIST

Lunch 1:00

Tours of NIST Laboratories 2:00-5:00

Bob Cellota, Steve Hsu, Mike Gaitan, Bill Phillips

Reception & Dinner Banquet at NIST 5:00-8:00

-AIP Industrial Applications of Physics Award Presentation

-*Banquet Speaker*: William D. Phillips, Nobel Laureate, NIST

Buses return to Hilton Gaithersburg 8:00 pm

Tuesday, November 8, 2005 (NIST)

Buses depart Hilton Gaithersburg for NIST 7:15 am

Breakfast/Registration 7:30

Policy Session –Government's Role in Stimulating Nanotechnology for Industry

Moderator: Clayton Teague, Director, Nat'l Nanotechnology Coordinating Office 8:00

-*Nanotechnology and Keynote Opportunities*, Arden Bement, Director, NSF 8:10

-*Nanotechnology at NSF*, Mihail Roco, Senior Advisor, Nanotechnology, NSF 8:35

-*Nanomedicine at NIH*, Anna Barker, Deputy Director, National Cancer Institute, NIH 9:10

-*Nanotechnology at DOE*, Patricia Dehmer, Assoc. Director, Science for Basic Energy Sciences 9:45

-*Nanotechnology at DARPA*, John Zolper, Director, Microsystems Tech. Office, DARPA 10:50

Frontiers in Physics Session

-*Cassini-Huygens*, Ralph Lorenz, Professor, University of Arizona 11:25

Lunch 12:05 pm

-*Stop Light*, Ronald Walsworth, Senior Lecturer, Harvard-Smithsonian Center for Astrophysics 1:00

-*Spin Hall Effect*, David Awschalom, Professor of Physics, University of California 1:40

-*Life Has Evolved to Evolve*, Michael Deem, John W. Cox Professor, Rice University 2:20

Adjourn 3:00 pm