

10/4/05

PROVISIONAL AGENDA

National Science Board Workshop

**Engineering Workforce Issues and Engineering Education:
What are the Linkages?**

Massachusetts Institute of Technology (MIT)

Wednesday, October 19, 2005

7:00 p.m. **Reception and Registration**
Boston Marriott Cambridge
Two Cambridge Center
Kendall Square (Broadway and Third Street)

Thursday, October 20, 2005

NSB Workshop
MIT Faculty Club
Alfred P. Sloan Building
E52-6th Floor – Dining 5 and 6

8:00 a.m. **Continental Breakfast**
Dining 5

8:25 a.m. **Welcome**

Warren M. Washington, * Chairman, National Science Board

8:30 a.m. **Panel 1: Aspirations for Engineering Education**

Opening Remarks..... Daniel Hastings*
National Science Board

National Academy of Engineering..... G. Wayne Clough*
The Engineer of 2020, Phases I & II National Science Board

Data, trends, and outlooks..... John A. Brighton *
Iowa State University

Richard Buckius*
National Science Foundation

NSF activities in engineering Arden L. Bement*
National Science Foundation

9:10 a.m. Group Discussion among Workshop Participants

9:20 a.m. Questions and Comments from the Audience

* *Confirmed Speaker*

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9:30 a.m. **Panel 2: Engineering Education – Present and Future**

Moderator: Daniel Hastings, National Science Board

Alice Agogino*
University of California, Berkeley

Eli Fromm*
Drexel University

Richard Miller*
Olin College of Engineering

Tom Magnanti*
MIT

Linda Katehi*
Purdue University

10:30 a.m. Group Discussion among Workshop Participants

11:15 a.m. Questions and Comments from the Audience

11:30 a.m. **Break**

11:45 a.m. **Lunch with MIT Engineering Council and Selected Engineering Students
*By Invitation Only***

Susan Hockfield,* President, MIT

John H. Marburger, III,* Science Advisor to the President
Director, Office of Science and Technology Policy (OSTP)

12:45 p.m. **Break**

1:00 p.m. **Panel 3: Engineering Employment – Present and Future**

Moderator: Louis L. Lanzerotti,* National Science Board

Peter Pao*
Raytheon Company

Jim Miller*
Cisco Systems, Inc.

Ron Hira*
IEEE-USA

Gloria Jeff*
Michigan Department of Transportation

2:00 p.m. Group Discussion among Workshop Participants

2:45 p.m. Questions and Comments from the Audience

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3:00 p.m. **Breakout Sessions to Address the Question: How do we ensure that the best and the brightest students pursue engineering studies and careers, and that their education quality, content, and teaching are of the highest caliber?**

Location: Dining 3, Dining 5, and Dining 6

Session Chairs: G. Wayne Clough, Louis L. Lanzerotti, Daniel Hastings

4:30 p.m. **Report Out and Wrap-Up**

Moderator: Daniel Hastings*

5:00 p.m. **Reception**
MIT Engineering Systems Division (ESD)
Building E40-298