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
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
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*