

October 05, 2012

Directorate for Engineering (ENG) Advisory Committee Meeting
National Science Foundation
October 17-18
Stafford I, Room 1235



DAY 1 WEDNESDAY, OCTOBER 17, 2012

7:45 – 8:00 *Registration and Light Refreshments*

8:00 – 8:15 **Welcome, Introductions, and Agenda**

Ilesanmi Adesida, ENG Advisory Committee Chair
Thomas Peterson, NSF Assistant Director for Engineering

8:15 – 8:45 **Division of Civil, Mechanical, and Manufacturing Innovation (CMMI) Overview**

Steve McKnight, Director of CMMI

8:45 – 9:15 **CMMI Committee of Visitors Report**

Julie Chen and David Spencer, Co-chairs of the CMMI Committee of Visitors

9:15 – 9:45 Discussion on CMMI

9:45 – 10:00 *Break*

10:00 – 10:15 **Introduction to ENG Strategic Activities**

Thomas Peterson, NSF Assistant Director for Engineering

10:15 – 11:15 **Panel on Advanced Manufacturing**

Co-moderated by David Spencer, wTe Corporation, and Steve McKnight, Director of
CMMI
Celeste Carter, EHR/DUE
Bruce Kramer, CMMI
Keith Marzullo, CISE
Ian Robertson, MPS/DMR

11:15 – 12:00 Discussion on Advanced Manufacturing

12:00 – 12:45 *Lunch*

12:45 Introduction to New/Moved ENG Staff

1:00 – 1:30 **Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET)
Overview**

Sohi Rastegar, Acting Director of CBET

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- 1:30 – 2:00 **CBET Committee of Visitors Report**
Bruce Logan, Chair of the CBET Committee of Visitors
- 2:00 – 2:30 Discussion on CBET
- 2:30 – 2:45 *Break*
- 2:45 – 3:45 **Panel on Developing Next-generation Engineers**
Co-moderated by Michael Silevitch, Northeastern University, and Theresa Maldonado,
Director, Division of Engineering Education and Centers
Alan Cheville, EEC
Don Millard, EHR/DUE
Eduardo Misawa, CMMI
- 3:45 – 4:30 Discussion on Developing Next-generation Engineers
- 4:30 – 4:45 *Break*
- 4:45 – 5:30 **Future Opportunities and Challenges for Engineering**
Remarks and discussion led by Thomas Peterson, NSF Assistant Director for Engineering
- 5:30 *Adjourn*

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DAY 2 THURSDAY, OCTOBER 18, 2012

7:45 – 8:00 *Light Refreshments*

8:00 – 9:00 **Future Opportunities and Challenges for Engineering, continued**
Remarks and discussion led by Thomas Peterson, NSF Assistant Director for Engineering

9:00 – 10:00 **Welcome and Charge to the Committee**
Subra Suresh, NSF Director
Cora Marrett, NSF Deputy Director

10:00 – 10:15 *Break*

10:15 – 11:15 **Panel on Neuroscience and Engineering**
Co-moderated by Michael Silevitch, Northeastern University, and Sohi Rastegar, Acting Director of CBET
Greg Farber, NIH/NIMH
Mark Humayun, University of Southern California (virtual panelist)
Jack Judy, DARPA
Yann LeCun, New York University (virtual panelist)
Amber Story, NSF/SBE
Kenneth Whang, NSF/CISE
Diane Witt, NSF/BIO

11:15 – 12:15 Discussion on Neuroscience and Engineering

12:15 – 12:30 **Roundtable on ENG Strategic Activities and Recommendations**

12:30 – 12:45 **Recognition, Closing Remarks, and Wrap Up**
Ilesanmi Adesida, ENG Advisory Committee Chair
Thomas Peterson, NSF Assistant Director for Engineering

12:45 *Adjourn*