



DAY 1 WEDNESDAY, APRIL 27, 2016

11:30-12:25 *Registration and Light Refreshments*

12:25-12:30 **Welcome, Introductions, and Agenda**
Louis Martin-Vega, ENG Advisory Committee Chair
Pramod Khargonekar, Assistant Director for Engineering

12:30-1:30 **Directorate for Engineering Report**
Pramod Khargonekar, Assistant Director for Engineering

1:30-2:00 **Germination of Research Ideas for Large Opportunities and Critical Societal Needs**
Sohi Rastegar, Head, ENG Office of Emerging Frontiers and Multidisciplinary Activities

2:00-2:30 **NSF INCLUDES Update Presentation**
Sylvia James, Division Director, Directorate for Education and Human Resources (EHR), Division of Human Resource Development
Mario Rotea, Division Director, ENG Division of Engineering Education and Research

2:30-3:30 **Panel Discussion on NSF INCLUDES**
Moderated by Louis Martin-Vega, ENG Advisory Committee Chair
Joan Ferrini-Mundy, Assistant Director for Education and Human Resources
Suzanne Iacono, Head, Office of Integrative Activities
Sylvia James, Division Director, EHR Division of Human Resource Development
Pramod Khargonekar, Assistant Director for Engineering
Mario Rotea, Division Director, ENG Division of Engineering Education and Centers

3:30-3:45 Break

3:45-5:00 **Enabling a Post-Moore's Law Future: Energy Efficient Computing**
Moderated by Samir El-Ghazaly, Division Director, ENG Division of Electrical, Communications, and Cyber Systems (ECCS)
Pramod Khargonekar, Assistant Director for Engineering
Dimitris Pavlidis, Program Director, ENG/ECCS
Sankar Basu, Program Director, Directorate for Computer and Information Science and Engineering, Division of Computing and Communication Foundations
Celia Merzbacher, Vice President for Innovative Partnerships, Semiconductor Research Corporation
Tom Theis, Executive Director of Nano Initiative, Columbia University

5:00-5:30 **Preparation for Discussion with the Office of the Director**
Led by Louis Martin-Vega, ENG Advisory Committee Chair

5:30 *Adjourn for the day*

6:00 *Dinner*



DAY 2 THURSDAY, APRIL 28, 2016

8:00-8:30 *Light Refreshments*

8:30-9:30 **Perspective from the Office of the Director**
France Córdova, NSF Director

9:30-9:50 **Engineering Research in a World of Big Data**
S. Shankar Sastry, Professor of Electrical Engineering and Computer Science and Dean, College of Engineering, University of California, Berkeley

9:50-10:10 **Computing Embedded Around, On, and Within Us: The Human-Technology Frontier and its Interdisciplinary Imperative**
James Kurose, Assistant Director for Computer and Information Science and Engineering (CISE)

10:10-10:40 **Discussion on Data Science-enabled Engineering Research**
Led by Louis Martin-Vega, ENG Advisory Committee Chair

10:40-11:00 *Break*

11:00-11:45 **Break-out Sessions** (rooms 1235 and 505)

11:45-12:15 **Reporting from Break-out Sessions and Roundtable on ENG Strategic Activities**
Led by Louis Martin-Vega, ENG Advisory Committee Chair

12:15-12:20 **Recognition of Departing Advisory Committee Members**
Pramod Khargonekar, Assistant Director for Engineering

12:20-12:30 **Closing Remarks and Wrap Up**
Louis Martin-Vega, ENG Advisory Committee Chair
Pramod Khargonekar, Assistant Director for Engineering

12:30 *Adjourn*