

**MPS Advisory Committee Meeting  
July 18, 2013**

The meeting began at 1 PM. NSF representatives, Chairman Juan de Pablo, and other guests were present in the room (1235 Stafford I). Other members participated remotely. See Appendix 1 for details.

**July 18**

**1:00 PM: Introductions, Roll Call, State of the Directorate (Fleming Crim)**

- Dr. Crim addressed broad scientific achievements, personnel updates (including updates to the MPS-AC), and updates on the NSF's move to Alexandria. Dr. Crim then discussed in further detail programmatic, budget, and facilities updates.

**1:50 PM: Briefing on the NRC Magnetic Science report (Bertrand Halperin)**

- Dr. Halperin presented the report's 10-year plan, including discussion of the projected timeframe for implementation of recommended changes (10-15 years), the envisioned decommission process, and the anticipated costs (\$20-50 M).

**2:10 PM: Report on the NSF Strategic Plan (Alan Blatecky)**

- Dr. Blatecky presented elements of the plan and OMB preliminary feedback on strategic goals, specific objectives, and programmatic goals. The report should be submitted to the NSB in May 2013 and to OMB in June 2013. There was extensive discussion, especially of education elements.

**2:30 PM: Update from StatsNSF Subcommittee (Iain Johnstone and Fred Roberts)**

- Drs. Johnstone and Roberts reiterated the charge and identified draft recommendations.

**2:50 PM: Update from Optics and Photonics Subcommittee (Tony Heinz)**

- Dr. Heinz summarized the charge, outlined the planned process, and indicated what has been determined so far. Discussion addressed concerns within both industry and the scientific field.

**3:25 PM: Update from Food Systems (Michelle Buchanan)**

- Dr. Buchanan described the charge and composition of the subcommittee, and outlined its plan of execution, beginning with a first meeting scheduled to happen soon.

**3:40 PM: Update from Synchrotron Science Subcommittee (George Crabtree)**

- Dr. Crabtree presented the charge, including assessment of the impact of funding variances. He outlined the scope and membership, and some of the information that will serve as background for the subcommittee. Discussion included workshops planned and facilities impacted.

**3:55 PM: Briefing on the NRC *Math 2025 Report* (Mark Green)**

- Dr. Green briefed the Committee on this report, which addresses (inter alia) workforce, diversity, education, funding, and NSF-enabled leadership.

**4:15 PM: Report from the NSF CAREER Program Task Force (Anita La Salle and Theresa Maldonado)**

- Drs. La Salle and Maldonado described the background and status of the CAREER Program, and some of the issues and ideas being considered by the Task Force. Lively discussion ensued.

**4:35 PM: Advisory Committee on Cyberinfrastructure (ACCI) Interface: Planning for Joint Meeting Nov. 7-8 (Fleming Crim)**

- Dr. Crim indicated that the purpose of the joint meeting will be to identify and communicate the cyberinfrastructure needs of MPS research communities, and ways of working with ACCI communities toward realizing those goals. Discussion addressed the role of data science, including modeling and computation, prompting comparison with the charge of StatsNSF.

**4:45 PM: Report on *The Materials Genome Initiative* (Juan de Pablo)**

- Dr. de Pablo discussed the Materials Genome Initiative and its position at the interface of experiment, theory, and computation. Comments focused on current and potential relationships between MGI and MPS communities.

**4:55 PM: New Challenges (Fleming Crim)**

- Dr. Crim invited items for discussion at the November face-to-face MPS-AC Meeting. Topics suggested included the merit review system, funding mechanisms, and prioritization in the “Age of Sequestration.”

**5:15 PM: Adjourn**

## Attendees of July 18 2013 MPS Advisory Committee meeting:

### MEMBERS

James Berger\*  
Daniela Bortoletto\*  
Emery Brown\*  
Paul Butler\*  
Emily Carter\*  
George Crabtree\*  
Eric Cornell\*  
Juan de Pablo, Chair  
Francis DiSalvo\*  
Bruce Elmegreen\*  
Barbara Finlayson-Pitts\*  
Irene Fonseca\*  
Elizabeth Lada\*  
Dennis Matthews\*  
Juan Meza\*  
Michael Norman\*  
Eugenia Paulus\*  
Elsa Reichmanis\*  
Geoffrey West\*

### GUESTS

Michelle Buchanan  
Mark Green  
Bertrand Halperin  
Tony Heinz  
Iain Johnstone  
James Murday  
Mirian Quintal  
Irelene Ricks  
Fred Roberts  
Keivan Stassun

### NSF

Caleb Autrey  
Keith Bennett  
Alan Blatecky  
Denise Caldwell  
Kelsey Cook  
Clark Cooper  
Fleming Crim  
Abby Deift  
Juan de Pablo  
Mary Galvin-Donoghue  
Jacquelyn Gervay-Hague  
Sue Hamm  
Janice Hicks  
Joanna Kania-Bartoszyńska  
Pat Knezek  
Anita La Salle  
Kathy McCloud  
Theresa Maldonado  
Carlos Murillo  
Sastry Pantula  
Elizabeth Pentacost  
Tanja Pietraß\*  
Claudia Rankins  
Celeste Rohlfig  
Thomas Russell  
Paul Spyropolous  
Jim Ulvestad  
Henry Warchall  
Jim Whitmore

\* indicates phone participant