

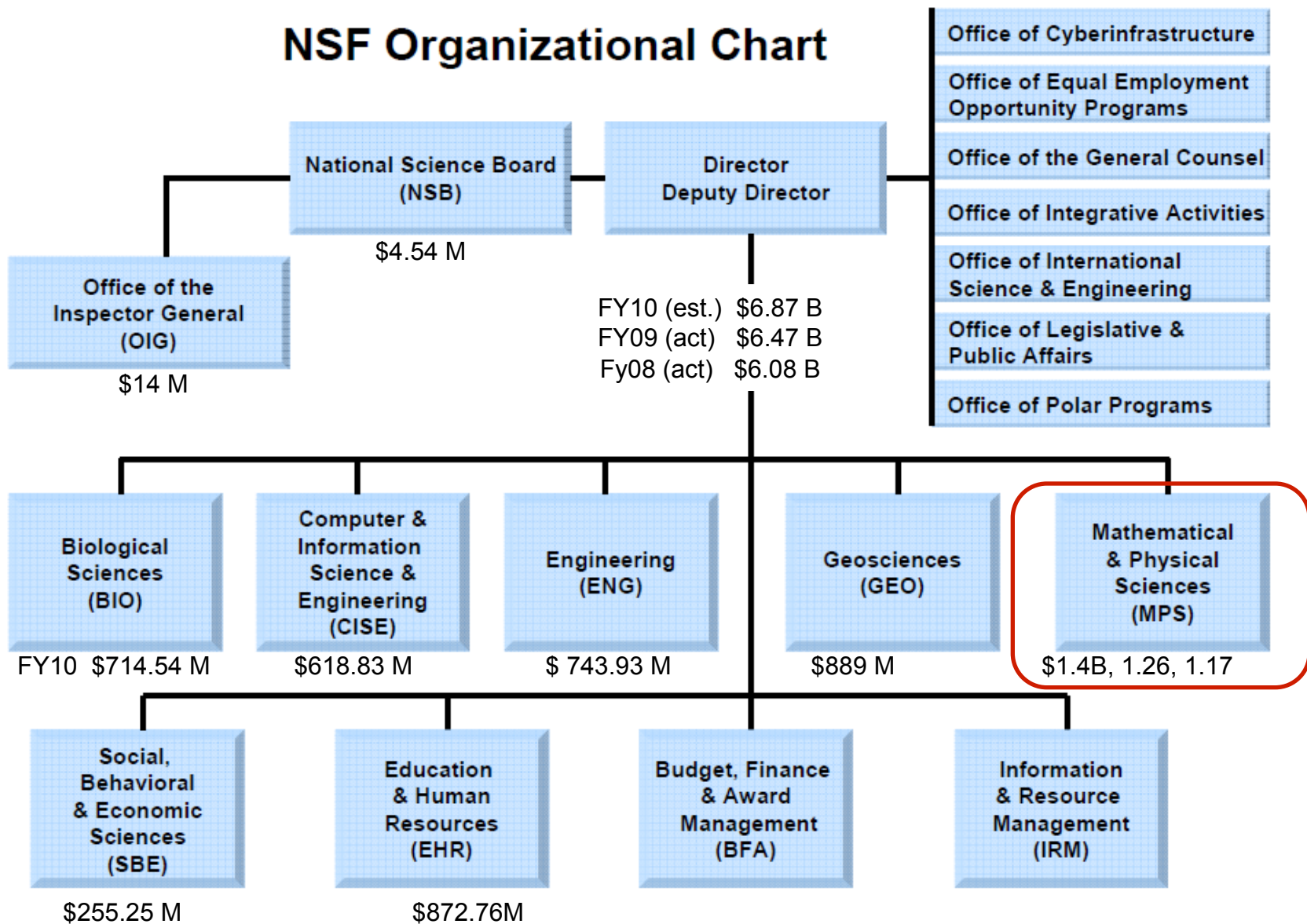


Division of Materials Research National Science Foundation

UMC Meeting
20 June, 2011

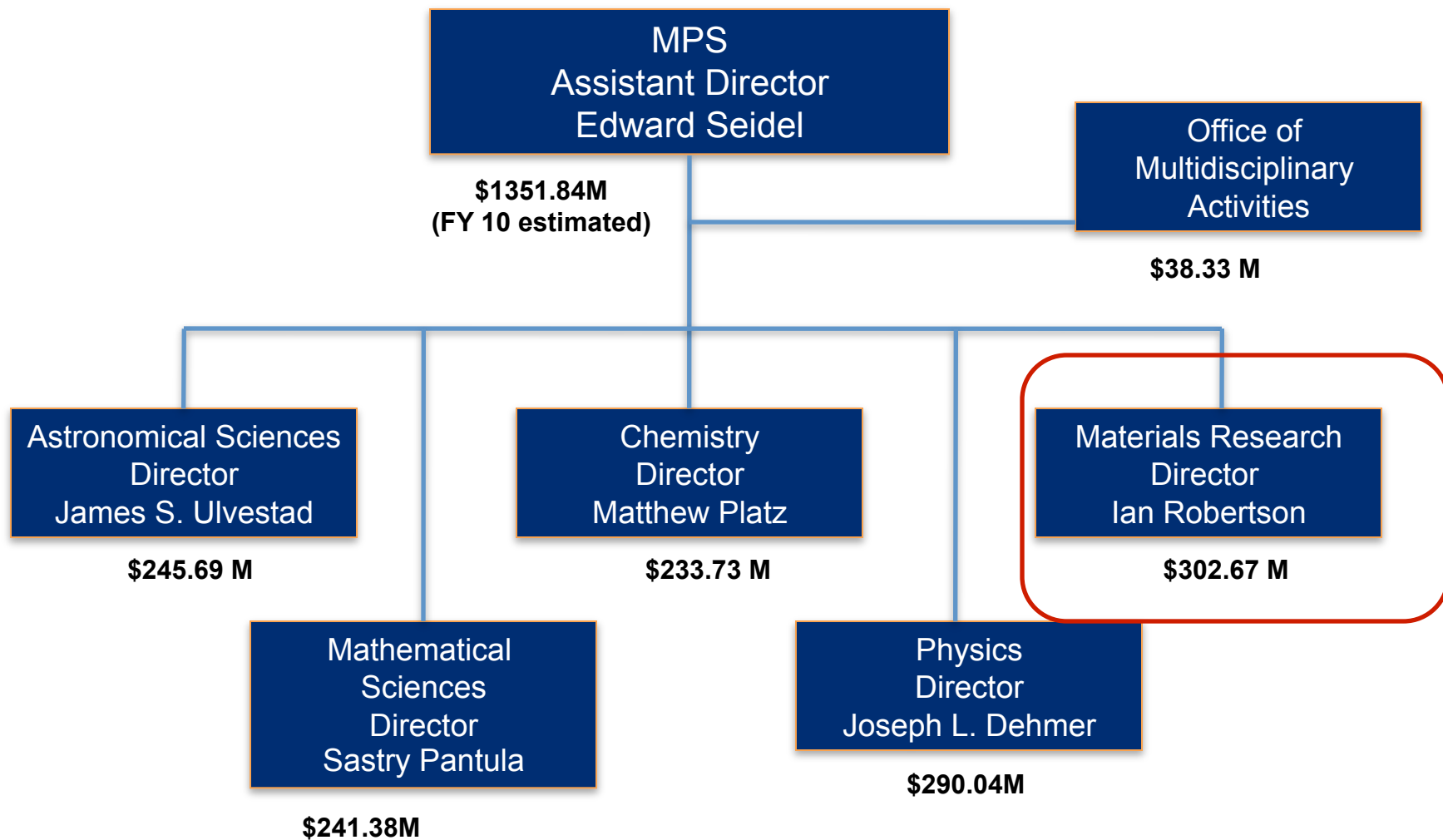


NSF Organizational Chart



Division of Materials Research

Math and Physical Sciences Directorate



Division of Materials Research



Division of Materials Research



Ian Robertson
Division Director



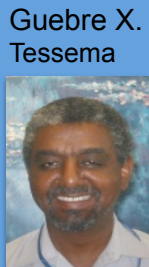
Janice Hicks
Deputy Division Director

Office and Centers

Office of Materials Instrumentation and National Facilities



Charles Bouldin



Guebre X. Tessema

Office of Special Programs

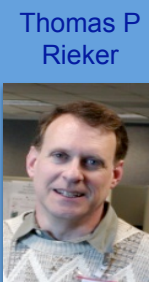


Carmen I. Huber

Materials Research Centers and Teams



Sean L. Jones



Thomas P. Rieker



Mary Galvin

Individual investigator programs

Ceramics



Lynnette Madsen

Electronic and Photonic Materials



Nadia El-Masry



Z. Charles Ying

Polymers



Andrew Lovinger

Biomaterials



Joseph Akkara



David Brant

Condensed Matter and Materials Theory



Daryl Hess



Serdar Ogut

Metal and Metallic Nanostructures



Alan Ardell

Condensed Matter Physics



Daniele Finotello



Jia Grace Liu

Solid State and Materials Chemistry



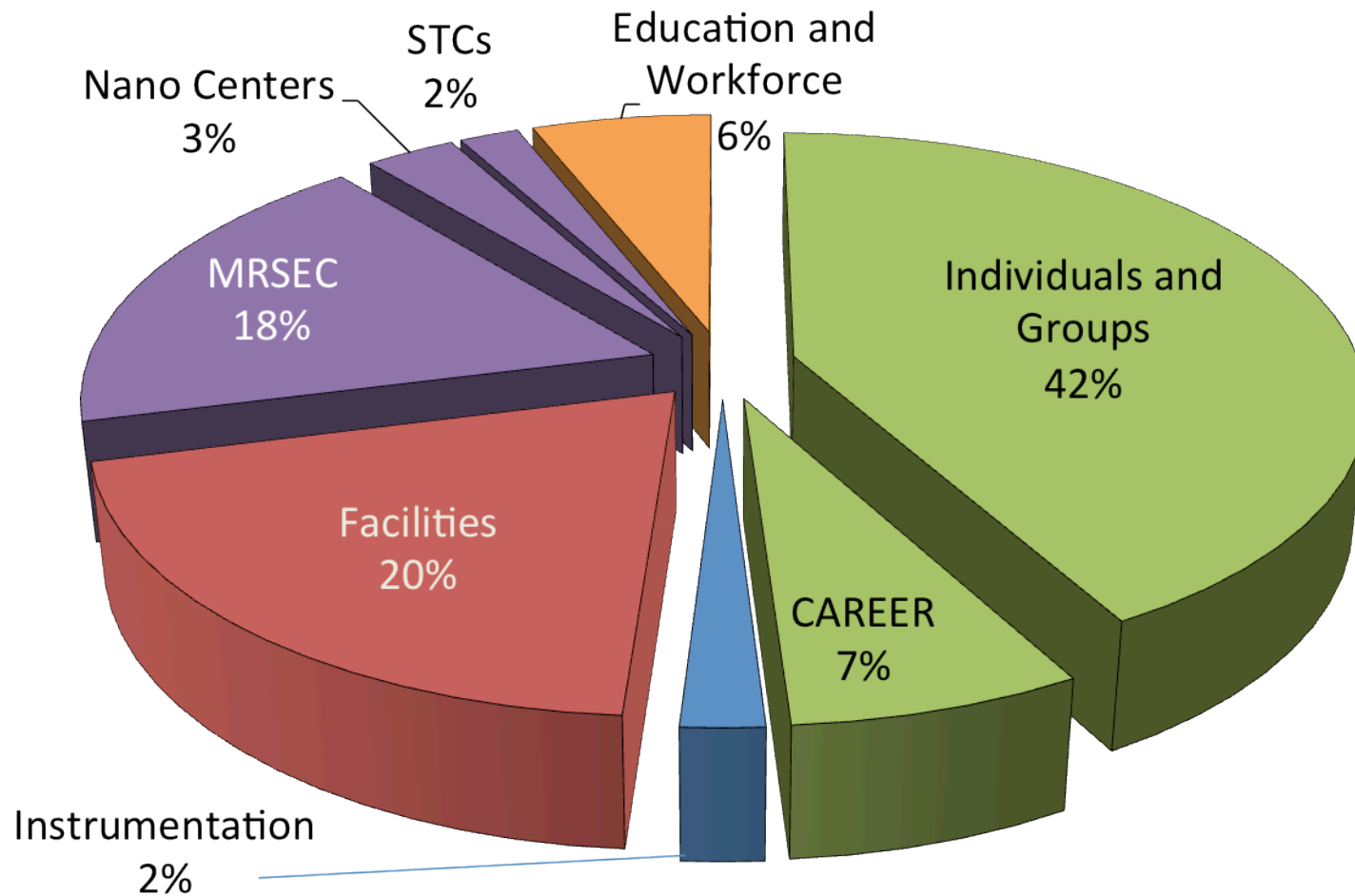
Linda Sapochak



Michael Scott



Allocation of resources within the Division of Materials Research, FY 10. Budget ~ \$300M



Major Research Instrumentation Program – MRI (FY 10)- \$16.1 M (5.6% of DMR budget and 18.9 % of total MRI budget). Note the percentage allocated is driven by proposal pressure!

Division of Materials Research





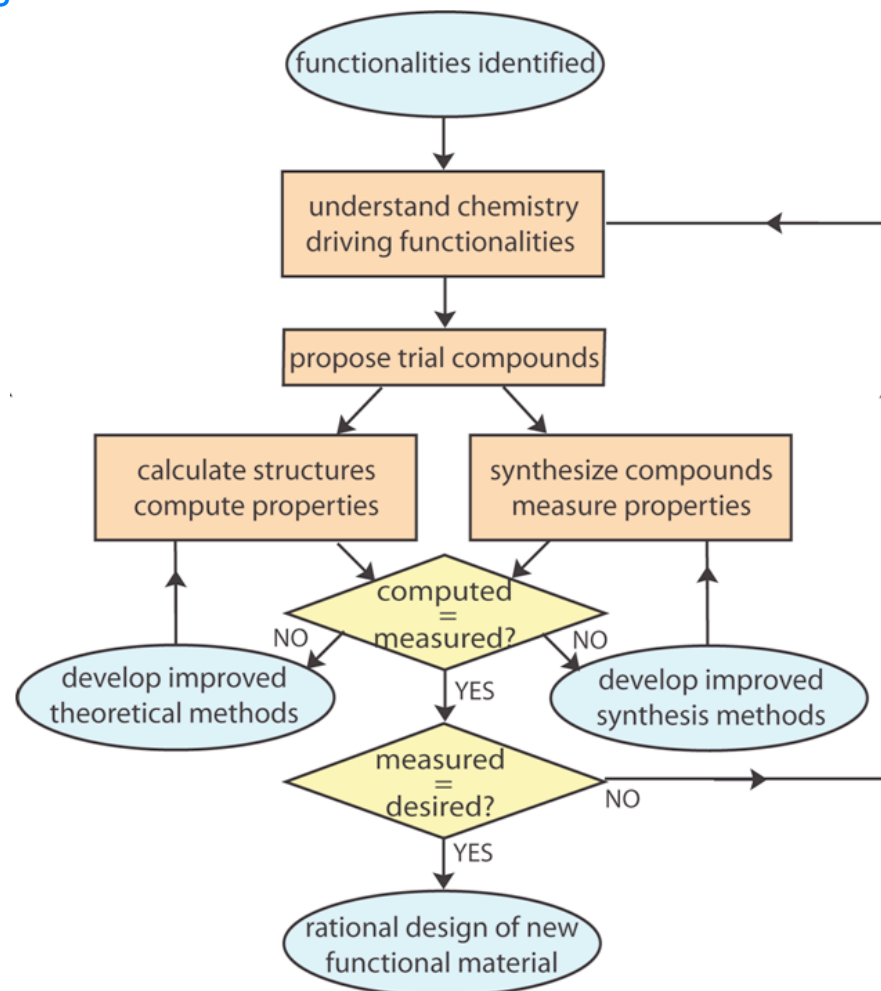
DMR Funding FY 12 Request	FY 10 Enacted (millions)	FY 12 request (millions)	Percent change
DMR	\$302.67	\$320.79	6.0
research	\$225.26	\$254.14	12.8
Careers	\$14.19	\$15.59	9.9
Centers (total)	\$72.33	\$65.88	-8.9
Materials research centers	\$56.70	\$57.00	0.5
NSECs	\$8.31	\$4.88	-41.3
STC 2002 Materials and devices for Inform. Tech. Res.	\$3.32	\$0	-100
STC 2006 Center for layered polymeric systems	\$4.00	\$4.00	-
Education	\$9.48	\$9.00	-5.1
Infrastructure (total)	\$67.93	\$57.65	-15.1
National nanotechnology Infra network	\$2.65	\$2.28	-14.0
NHMFL	\$31.50	\$31.80	1.0
Cornell synchrotron	\$9.00	\$15.47	71.9
Research resources	\$13.06	0	-100
Other MPS facilities	\$7.02	\$3.90	-44.4

FY 12 Budget Request Activities

Matter by Design - combining experiments and computational/theoretical methods to discover new materials, to enhance understanding of phenomena and properties of materials, to explore uncharted territories in materials space...

Advanced Manufacturing: nanomanufacturing, industry/university partnerships, and BioMaPS.

Science and Engineering Beyond Moore's Law (SEBML): advancing the forefront of communications and computation capability.





FY 12 Budget Request Activities

National Nanotechnology Initiative (NNI): NNI Signature Initiatives:
Nanoelectronics for 2020 and Beyond,
Nanomanufacturing for Sustainable Development,
Nanotechnology for Solar Energy Collection and Conversion.

Science, Engineering, and Education for Sustainability (SEES): challenges in climate and energy research and education using a systems-based approach to understanding, predicting, and reacting to change in the linked natural, social, and built environment. Initial efforts were focused on coordination of a suite of research and education programs at the intersection of climate and environment, including specific attention to incorporating human dimensions.

<http://www.nsf.gov/geo/sees/>

CAREER: MPS strongly supports CAREER, an Administration priority, providing nearly 25 percent of the total NSF investment. CAREER awards support young investigators who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. DMR success rate is about 28 %.

www.nsf.gov/career (http://nsf.gov/funding/pgm_summ.jsp?pims_id=503214)

Deadline in MPS is July 27, 2011.



Data management plan

NSF has published a revised version of the NSF Proposal and Award Policies and Procedures Guide (PAPPG) (NSF 11-1) that will require, in all proposals submitted , or due, on or after January 18, 2011, a supplementary document of no more than two pages describing a Data Management Plan for the proposed research. **Fastlane will not permit submission of a proposal that is missing the Data Management Plan.** The Data Management Plan will be reviewed as part of the intellectual merit or broader impacts of the proposal, or both, as appropriate. The goal is to provide clear, effective, and transparent implementation of the long-standing NSF Policy on Dissemination and Sharing of Research Results.

Each Division within MPS has developed a set of information items to provide guidance to the communities served by that Division in preparing a Data Management Plan that will meet the goals of the NSF plan.

You can find information here:

<http://www.nsf.gov/bfa/dias/policy/dmpdocs/dmr.pdf>