NATIONAL SCIENCE FOUNDATION

Directorate for Mathematical and Physical Sciences

2010

Directorate for Mathematical and Physical Sciences (MPS)

Proposal Review: MPS maximizes the quality of the proposals it supports through the use of a competitive, merit-based review process. In FY 2009, 88% of research funds were allocated to externally reviewed projects.

Committee of Visitors (COV): MPS convenes Committees of Visitors, composed of qualified external evaluators, to review each program every three years. These experts assess the integrity and efficiency of the processes for proposal review and provide a retrospective assessment of the quality of results of NSF's investments. COV reports and Directorate responses are at http://www.nsf.gov/od/oia/activities/cov/covs.jsp.

MPS Advisory Committee (MPSAC): MPS also receives advice from the Mathematical and Physical Sciences Advisory Committee on such issues as: the mission, programs, and goals that can best serve the scientific community; promoting quality graduate and undergraduate education in the mathematical and physical sciences; and priority investment areas in MPS-supported research. Minutes are at http://www.nsf.gov/mps/advisory.jsp.

Mathematical And Physical Sciences Advisory Committee Membership List

Term Expires 9/30/2010

Dr. Iain M. Johnstone (CHAIR)
Department of Statistics
Stanford University
imj@stanford.edu

Dr. Hector D. Abruna
Department of Chemistry
and Chemical Biology, Baker Laboratory
Cornell University
hda1@cornell.edu

Dr. Eric A. Cornell
JILA
University of Colorado
cornell@jila.colorado.edu

Dr. David E. Keyes
Department of Applied Physics &
Applied Mathematics
Columbia University
kd2112@columbia.edu

Dr. Theresa A. Maldonado
(MPSAC/CEOSE Liaison)
Department of Electrical and Computer
Engineering
Texas A&M University
tmaldonado@tamu.edu

Dr. Dennis L. Matthews
College of Engineering and
School of Medicine
University of California, Davis
dennis.matthews@cbst.ucdavis.edu

Dr. Joel E. Tohline
Department of Physics and Astronomy
Louisiana State University
tohline@lsu.edu

Term Expires 9/30/2011

Dr. James Berger
Department of Statistical Science
Duke University
berger@stat.duke.edu

Dr. Daniela Bortoletto
Department of Physics
Purdue University
bortolet@purdue.edu

Dr. Barbara J. Finlayson-Pitts
Department of Chemistry
University of California, Irvine
bjfinlay@uci.edu

Dr. Suzanne Hawley
Department of Astronomy
University of Washington
slh@astro.washington.edu

Dr. Irene Fonseca
Department of Mathematical Sciences
Carnegie Mellon University
fonseca@andrew.cmu.edu

Dr. Ramesh Narayan
Harvard University and
Harvard-Smithsonian Center for
Astrophysics
rnarayan@cfa.harvard.edu

Dr. Sharon L. Neal
Department of Chemistry and
Biochemistry
University of Delaware
sneal@udel.edu

Dr John Peoples, Jr.
Fermilab
peop@fnal.gov

Dr. Elsa Reichmanis
Georgia Institute of Technology
School of Chemical and Biomolecular
Engineering
ereichmanis@chbe.gatech.edu

Dr. Geoffrey West
Santa Fe Institute
gbw@santafe.edu

Term Expires 9/30/2012

Dr. Taft Armandroff
W. M. Keck Observatory
tarmandroff@keck.hawaii.edu

Dr. Kevin Corlette
Department of Mathematics
University of Chicago
kevin@math.uchicago.edu

Dr. Juan J. de Pablo
Department of Chemical and Biological
Engineering
University of Wisconsin-Madison
depablo@engr.wisc.edu

Dr. Joseph M. DeSimone
Department of Chemistry
The University of North Carolina at
Chapel Hill
desimone@unc.edu

Dr. Sharon C. Glotzer
Department of Chemical
Engineering
University of Wisconsin-Madison
sglotzer@umich.edu

Dr. Jerzy Leszczynski
Department of Chemistry and
Biochemistry
Jackson State University
jerzy@icnanotox.org

Dr. James W. Mitchell
Department of Chemical Engineering
Howard University
jwm@msrce.howard.edu

Dr. Luis Orozco
Department of Physics
University of Maryland
lorozco@umd.edu

Dr. Fred S. Roberts
DIMACS
Rutgers University
froberts@dimacs.rutgers.edu

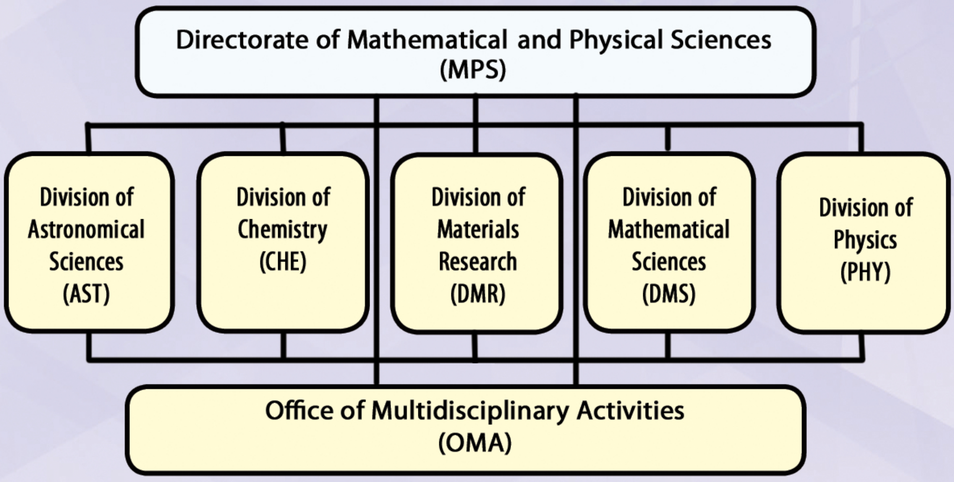
Directorate for Mathematical and Physical Sciences (MPS)

The NSF Directorate for Mathematical and Physical Sciences is comprised of the Divisions of Astronomical Sciences, Chemistry, Materials Research, Mathematical Sciences and Physics as well as the Office of Multi-disciplinary Activities. These organizations provide the basic structure for MPS support of research and education. The MPS Divisons support both disciplinary and interdisciplinary activities and partner with each other and with other NSF Directorates.

MPS Mission Statement

To make discoveries about the Universe and the laws that govern it; to create new knowledge, materials, and instruments that promote progress across science and engineering; to prepare the next generation of scientists through research; and to share the excitement of exploring the unknown with the nation.

MPS Organizational Chart



NSF Mission

To promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense (NSF Act of 1950).

NSF Vision

Advancing discovery, innovation and education beyond the frontiers of current knowledge, and empowering future generations in science and engineering.

Directorate for Mathematical and Physical Sciences (MPS)

Phone: (703) 292-8800 | Fax: (703) 292-9151 | Room: 1005N

Dr. H. Edward Seidel	Assistant Director
Dr. Morris L. Aizenman	Senior Science Associate
Ms. Zita R. Barnett	Staff Transition Coordinator
Mr. Keith Bennett	Systems Analyst
Dr. Clifford J. Gabriel	Executive Officer (Acting)
Dr. Susan G. Hamm	Staff Associate for Budget & Planning
Ms. Tyzcer L. Henson	Staff Associate for Administration
Ms. Terri D. Powell	Administrative Support Assistant
Dr. Celeste M. Rohlfing	Head, Office of Multidisciplinary Activities
Dr. G. Wayne Van Citters	Senior Advisor, Facilities & Planning Mgt.
Ms. Margaret-Anne Wampamba	Executive Assistant

International Opportunities

Partnerships for International Research and Education (PIRE)
Research Experiences for Undergraduates – Sites (REU Sites)
International Collaboration in Chemistry between US Investigators and their Counterparts Abroad (ICC)
Materials World Network: Cooperative Activity in Materials Research between US Investigators and their Counterparts Abroad (MWN)
International Materials Institutes (IMI)
Banff International Research Station for Mathematical Innovation and Discovery (BIRS)
Atacama Large Millimeter Array
Gemini Observatory
Southern Astrophysical Research Telescope
Cerro Tololo Interamerican Observatory
International Research Fellowship Program (IRFP)
Pan-American Advanced Studies Institutes Program (PASI)