# V. APPENDICES



#### DESCRIPTION OF NSF DIRECTORATES AND MANAGEMENT OFFICES

The **Directorate for Biological Sciences (BIO)** supports research programs ranging from the study of the structure and dynamics of biological molecules, such as proteins and nucleic acids, through cells, organs and organisms, to studies of populations and ecosystems. It encompasses processes that are internal to the organism as well as those that are external, and includes temporal frameworks ranging from measurements in real time through individual life spans, to the full scope of evolutionary times. Among the research programs BIO supports is fundamental academic research on biodiversity, environmental biology, and plant biology, including providing leadership for the Multinational Coordinated *Arabidopsis* Genome Project.

The Directorate for Computer and Information Science and Engineering (CISE) supports research on the theory and foundations of computing, system software and computer system design, human-computer interaction, as well as prototyping, testing and development of cutting-edge computing and communications systems to address complex research problems. CISE also provides the advanced computing and networking capabilities needed by academic researchers for cutting-edge research in all science and engineering fields.

The **Directorate for Education and Human Resources** (**EHR**) supports a cohesive and comprehensive set of activities that encompass every level of education and every region of the country. EHR promotes public science literacy and plays a major role in the Foundation's long-standing commitment to developing our nation's human resources for the science and engineering workforce of the future. Focus is given to programs that encourage the participation and achievement of groups underrepresented in science and engineering. NSF-supported education and training programs cover a broad spectrum—from supporting students and teachers, to creating new ways of teaching and learning, to assisting school districts and other systems forge greater gains in learning.

The **Directorate for Engineering (ENG)** supports research and education activities contributing to technological innovation that is vital to the nation's economic strength, security, and quality of life. ENG invests in fundamental research on engineering systems, devices, and materials, and the underpinning processes and methodologies that support them. Emerging technologies—nanotechnology, information technology and biotechnology—comprise a major focus of ENG research investments. ENG also makes critical investments in facilities, networks and people to assure diversity and quality in the nation's infrastructure for engineering education and research.

The **Directorate for Geosciences** (GEO) supports research in the atmospheric, earth and ocean sciences. Basic research in the Geosciences advances our scientific knowledge of the Earth and advances our ability to predict natural phenomena of economic and human significance, such as climate change, weather, earthquakes, fish-stock fluctuations, and disruptive events in the solar-terrestrial environment. GEO also supports the operation of national user facilities.

The **Directorate for Mathematical and Physical Sciences (MPS)** supports research and education in astronomical sciences, chemistry, materials research, mathematical sciences and physics. Major equipment and instrumentation such as telescopes and particle accelerators are provided to support the needs of individual investigators. MPS also supports state-of-the-art facilities that enable research at the cutting edge of science and research opportunities in totally new directions.

The **Directorate for Social, Behavioral and Economic Sciences** (**SBE**) supports research to build fundamental scientific knowledge about human behavior, interaction, and social and economic systems, organizations and institutions. SBE also facilitates NSF's international activities by promoting partnerships between U.S. and foreign researchers, enhancing access to critical research conducted outside the U.S. and increasing knowledge of mutually beneficial research opportunities abroad. To improve understanding of the science and engineering enterprise, SBE also supports science resources studies that are the nation's primary source of data on the science and engineering enterprise.

The **Office of Polar Programs (OPP)**, which includes the U.S. Polar Research Programs and U.S. Antarctic Logistical Support Activities, supports multidisciplinary research in Arctic and Antarctic regions. These geographic frontiers—premier natural laboratories—are the areas predicted to be the first affected by global change. They are vital to understanding past, present, and future responses of Earth systems to natural and man-made changes. Polar Programs support provides unique research opportunities ranging from studies of Earth's ice and oceans to research in atmospheric sciences and astronomy.

The **Office of Budget, Finance and Award Management (BFA)** is headed by the Chief Financial Officer who has responsibility for budget, financial management, grants administration and procurement operations and related policy. Budget responsibilities include the development of the Foundation's annual budget, long range planning and budget operations and control. BFA's financial, grants and other administrative management systems ensure that the Foundation's resources are well managed and that efficient, streamlined business and management practices are in place. NSF has been acknowledged as a leader in the federal research administration community, especially in its pursuit of a paperless environment that provides more timely, efficient awards administration.

The Office of Information and Resource Management (OIRM) provides information systems, human resource management, and general administrative and logistical support functions to the NSF community of scientists, engineers, and educators as well as to the general public. OIRM is responsible for staffing and personnel service requirements for staff members including visiting scientists; NSF's physical infrastructure; dissemination of information about NSF programs to the external community; and administration of NSF's sophisticated technological infrastructure, providing the hardware, software and support systems necessary to manage the Foundation's grant-making process and to maintain advance financial and accounting systems.

### NSF EXECUTIVE STAFF AND NSF OFFICERS

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Warren M. Washington, Chair

Gerard R. Glaser, Acting Executive Officer

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Ana A. Ortiz, Program Manager

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Lawrence Rudolph, General Counsel

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Christine C. Boesz, Inspector General

Office of Integrative Activities

Nathaniel G. Pitts, Director

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Mary K. Gaillard Professor of Physics Lawrence Berkeley National Laboratory University of California-Berkeley

M.R.C. Greenwood Chancellor University of California-Santa Cruz

<sup>1</sup> Till May 8, 2002

<sup>2</sup> From May 8, 2002

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Mark S. Wrighton Chancellor Washington University

Rita R. Colwell (*Member Ex Officio*) Director National Science Foundation

Marta Cehelsky<sup>4</sup> **Executive Officer** National Science Board

Gerard R. Glaser<sup>5</sup> Acting Executive Officer National Science Board

<sup>&</sup>lt;sup>3</sup> Deceased October 29, 2002 <sup>4</sup> Through July 13, 2002

<sup>&</sup>lt;sup>5</sup> From July 14, 2002

## LIST OF ACRONYMS

		امم	
AC	Advisory Committee	CO	Carbon monoxide
AC/GPA	Advisory Committee for GPRA	CO <sub>2</sub>	Carbon dioxide
	Performance Assessment	COV	Committee of Visitors
ACS	American Chemical Society	CPMSA	Comprehensive Partnerships for
ADHD	Attention Deficit Hyperactivity		Mathematics and Science
	Disorder	CO	Achievement
ADVANCE	Increasing the Participation and	CQ	Continual Queries
	Advancement of Women in	CREST	Centers for Research Excellence In
	Academic Science and Engineering	CDIE	Science and Technology
. CED	Careers	CRIF	Chemistry Research
AGEP	Alliances for Graduate Education	CCDC	Instrumentation and Facilities
4 T) 6	and the Professoriate	CSRS	Civil Service Retirement System
AIM	American Institute for Mathematics	CSTB	Computer Science and
AMO	Atomic, Molecular and Optical	CTLO	Telecommunications Board
ANIR	Advanced Networking	CTIO	Cerro Tololo Inter-American
4. N. T. C.	Infrastructure and Research	DADDA	Observatory
ANTC	Algebra, Number Theory,	DARPA	Defense Advanced Research
4 OVER	Combinatorics	DAGI	Projects Agency
AOVEF	Arecibo Observatory Visitor and	DASI	Degree Angular Scale
	Education Facility	DITT	Interferometer
AP	Advanced Placement	DFT	Density Functional Theory
ATI	Advanced Technologies and	DGA	Division of Grants and Agreements
4 EDD	Instrumentation	DISL	Dauphin Island Sea Laboratory
ATRP	Atom Transfer Radical	DNA	Deoxyribonucleic Acid
D + C	Polymerization	DOE	Department of Energy
BAC	Bacterial Artificial Chromosome	DOL	Department of Labor
BCS	Behavioral and Cognitive Sciences	EAR	Division of Earth Sciences
BES	Division of Bioengineering and	EC	European Community
	Environmental Systems	EEG	Electroencephalograms
BFA	Division of Budget, Finance, and	EFT	Electronic Fund Transfer
DIO	Award Management	EHR	Directorate for Education and
BIO	Directorate for Biological Sciences	TTA	Human Resources
BMSA	Board on Mathematical Sciences	EIA	Division of Experimental and
DD.4	and Their Application	EIC	Integrative Activities
BPA	Board on Physics and Astronomy	EIS	Enterprise Information System
BPN	Business Partner Network	ENG	Directorate for Engineering
C4I	Command, Control,	EPA	Environmental Protection Agency
	Communications, Computers and	EPSCoR	Experimental Program to Stimulate
CDI	Intelligence	DOT	Competitive Research
CBI	Cosmic Background Imager	EST	Expressed Sequence Tag Swiss Federal Institute of
CD	Climate Dynamics	ETH	
CDP	Community Data Portal	EACA	Technology
CEBAF	Continuous Electron Beam	FACA	Federal Advisory Committee Act
CEO	Accelerator Facility	FAS	Financial Accounting System
CFO	Chief Financial Officer	FASAB	Federal Accounting Standards
CH <sub>4</sub>	Methane	FCC	Advisory Board Federal Communications
CIO	Chief Information Officer	rcc	Commission
CIP	Construction in Progress	EECA	
CISE	Directorate for Computer and	FECA	Federal Employees Compensation
	Information Science and	EEDC	Act Enderal Employees Patirament
CMD	Engineering  Committee Missesses Background	FERS	Federal Employees Retirement
CMB	Cosmic Microwave Background	EEMIA	System  Enderel Financial Management
CNRS	Centre National de Recherche	FFMIA	Federal Financial Management
	Scientifique	I	Improvement Act of 1996

Integrity Act of 1982	FMFIA	Federal Managers' Financial	LSAMP	Louis Stokes Alliances for
FY Fiscal Ýcar General Accounting Office GAO General Accounting Office GEO Directorate for Geosciences GISRA Government Information Security Reform Act. Graduate Teaching Fellows in K-12 Education GFG Grant Proposal Guide GPRA Government Performance and Results Act Government Performance and HBCU Historically Black Colleges and Universities HBCU Historically Black Colleges and Universities HEPAP High Energy Physics Advisory Panel HBRO Human Environment Regional Observatory HHS U.S. Department of Health and Human Services HUD U.S. Department of Housing and Urban Development HBMCU Interaction Research Institutions Business Machines Business Consulting Services Interaction Security Interaction Consultation (Program) National Acronautics and Space Administration NCAR National Long-Term Ecological Research Institutions Program Program Program NASA National Acronautics and Space Administration NCAR National Institute of Aging National Development NAPA National Development NAPA National Development NAPA National Acronautics and Space Administration NCAR National Development NAPA National Accompagnable Parturship Program NAPA National Development NAPA National Science Board NAPA National Science Board NAPA National Science Board NAPA National Science Board NAPA National Development NAPA National Deservatory NAPA National Development NAPA National Science Board NAPA National Science Board NAPA National Science Board NAPA Nat	TWITTA		LSAMI	
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OIRM	Office of Information and Resource Management	SES	Division of Social and Economic Sciences
OMB	Office of Management and Budget	SFFAS	Statement of Federal Financial
OPM	United States Office of Personnel		Accounting Standards
	Management	SGER	Small Grant for Exploratory
OPP	Office of Polar Programs	5521	Research
OSAR	Organism/Chemical	SI	Systemic Initiative
001111	Structure/Bioactivity Relationships	SMA	Shape Memory Alloys
PACI	Partnerships for Advanced	SMET	Science, Mathematics, Engineering
THEI	Computational Infrastructure	SIVILI	and Technology
PARS	Proposal, PI and Reviewer System	SMETE	Science, Mathematics, Engineering
PBS	Public Broadcasting System	SWILTE	and Technology Education
PD	Program Director	SOL	Standards of Learning
PGE	Programs for Gender Equity	SRS	Division of Science Resources
PI	Principal Investigator	SKS	Statistics
PIMS	Program Information Management	SSI	
PHVIS	System	STC	Statewide Systemic Initiative
DIT		STEM	Science and Technology Center
PIT	People, Ideas, Tools	SIEM	Science, Technology, Engineering
PMA	President's Management Agenda	CTED	and Mathematics
POD	Print on Demand	STEP	Systemic Teacher Excellence
PPD	Programs for Persons with	G 0 F	Preparation
DD 0 E	Disabilities	S&E	Salaries and Expenses
PP&E	Property, Plant and Equipment	TBD	To be Determined
PSID	Panel Study of Income Dynamics	TCP	Tribal Colleges Program
PZT	Piezoelectric Transducer	TE	Tissue Engineering
PwC	PricewaterhouseCoopers LLP	TIMSS	Third International Mathematics
QSAR	Quantitative Structure		and Science Study
	Activity Relationships	TN	Tennessee
R&RA	Research and Related Activities	UA	University of Arizona
REPP	Research in Education Policy and	UC	University of California
	Practice	UCAR	University Corporation for
REU	Research Experiences for		Atmospheric Research
	Undergraduates	U.S.	United States of America
ROLE	Research on Learning and	USAID	U.S. Agency for International
	Education		Development
SAT	Scholastic Achievement Test	USAP	U.S. Antarctic Program
SBE	Directorate for Social, Behavioral	USDA	U.S. Department of Agriculture
	and Economic Sciences	USGS	U.S. Geological Survey
SBIR	Small Business Innovation	VA	Virginia
	Research	WMAT	White Mountain Apache Tribe
SDP	Software Design and Productivity	WTEC	World Technology Evaluation
SEM	Science, Engineering, and		Center
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