



**NATIONAL SCIENCE FOUNDATION**

4201 Wilson Boulevard, Arlington VA 22230

**Division of Earth Sciences  
Instrumentation and Facilities Program**

*Summary of All FY-2006 Actions Leading to AWARDS*

<b>Institution/PI</b>	<b>Title of Proposal</b>	<b>Proposal #</b>	<b>\$'s Requested/ months</b>	<b>FY06 Funding by IF/months</b>	<b>Comments</b>
Arizona BARTON, Mark D.	"Collaborative Research: Facility Support: Completing the Western North American Volcanic and Intrusive Rock Database (NAVDAT)"	EAR0622334	49,781 /12	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 49,781
Arizona GEHRELS, George E.	"Facility Support: Multi-User Facility for U-Th-Pb Geochronology Utilizing a Laser-Ablation Multicollector ICPMS"	EAR0443387	582,557 /36	156,936 /12	2nd yr incr on 3-yr cont grant for FS
Arizona JULL, A. J. Timothy	"NSF Arizona AMS Laboratory: Research and Operational Support"	EAR0446861	4,025,044 /60	194,023 /12	2nd incr (6 mos.) on 18-mo cont grant for FS
Arizona JULL, A. J. Timothy	"NSF Arizona AMS Laboratory: Research and Operational Support [supplement to EAR-0446861]"	EAR0639511	69,999 /0	69,999 /0	IF suppl for FS on IF grant
Arizona LIFTON, Nathaniel A.	"Collaborative Research: A Proposal for the Cosmic-Ray produced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345150	113,409 /12	113,409 /12	IF split-funding for ITD on GG grant
Arizona State ANBAR, Ariel D.	"Technician Support: ICP-MS research in the W. M. Keck Foundation Laboratory for Environmental Biogeochemistry, Arizona State University. Phase I"	EAR0520648	224,994 /36	74,998 /12	2nd yr incr on 3-yr cont grant for TS
Auburn WOLF, Lorraine W.	"Acquisition of Electrical and Electromagnetic Instrumentation for Hydrogeophysical Research"	EAR0549325	154,624 /12	41,095 /12	standard grant for EA
Berkeley Geochronology Cen LUDWIG, Kenneth	"Continued Development, Distribution, and Maintenance of the Isoplot Computer Program"	EAR0549787	41,699 /12	41,699 /12	standard grant for ITD
Berkeley Geochronology Cen SHUSTER, David L.	"MRI: Acquisition of a Noble Gas Thermochronometry Laboratory at Berkeley Geochronology Center"	EAR0618219	298,182 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 149,757
Boston BAXTER, Ethan F.	"MRI: Acquisition and Development of a Thermal Ionization Mass Spectrometer Facility at Boston University [supplement to EAR-0521266]"	EAR0603731	749,814 /12	93,000 /24	2nd yr incr on 2-yr cont grant for EC
Boston PLANK, Terry A.	"Technical Support: Laser Ablation and Inductively Coupled Plasma Laboratories - Renewal"	EAR0549641	240,000 /36	80,000 /12	2nd yr incr on 2-yr cont grant for TS
California - Berkeley DIETRICH, William E.	"Collaborative Research: Facility Support to Renew Operation of the National Center for Airborne Laser Mapping (NCALM)"	EAR0518615	818,574 /36	189,000 /12	2nd yr incr on 3-yr cont grant for FS
California - Irvine DRUFFEL, Ellen R M.	"Acquisition of Capability for Single-Compound AMS Measurement of Organic Matter at the W.M. Keck Carbon Cycle Accelerator Mass Spectrometry Facility at UC Irvine"	EAR0447323	561,205 /36	272,152 /12	1st yr incr on 2-yr cont grant for EA

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California - Los Angeles MCKEEGAN, Kevin D.	"Facility Support: The UCLA National Ion Microprobe"	EAR0421795	1,084,730/36	417,605/12	3rd yr incr on 3-yr cont grant for FS
California - Merced BALES, Roger C.	"MRI: Development of a Water-Balance Instrument Cluster for Mountain Hydrology, Biochemistry and Ecosystem Science"	EAR0619947	578,171/36	- 0 -	standard grant for ITD; split-funded w/ OIA/MRI/EAR = 578,171
California - Merced O'DAY, Peggy	"MRI: Acquisition of a Powder X-ray Diffractometer for Environmental and Materials Research at UC Merced"	EAR0619398	192,407/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 187,407
California - Merced TRAINA, Samuel J.	"Technician Support: Phase I: A Multi-purpose Environmental Analytical Laboratory at UC Merced"	EAR0518860	224,979/36	74,993/12	1st yr incr on 3-yr cont grant for TS
California - Riverside FINKEL, Robert C.	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345932	45,500/12	37,500/12	IF split-funding for ITD on GG grant
California - Riverside GREEN, Harry W.	"Technical Support for a Dual Beam Focused Ion Milling System for TEM Foil Preparation + 3D Chemical Analysis"	EAR0521896	209,506/18	75,000/12	2nd yr incr on 3-yr cont grant for TS
California - Riverside GREEN, Harry W.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135411	804,511/60	50,000/12	IF split-funding for Other on PH grant
California - San Diego BARU, Chaitanya	"Geoinformatics 2006"	EAR0627848	38,986/12	- 0 -	standard grant for GI; split-funded w/ EAR/GI = 38,986
California - San Diego BARU, Chaitanya	"ITR Collaborative Research: GEON: A Research Project to Create Cyberinfrastructure for the Geosciences"	ITR0637235	65,000/0	- 0 -	suppl for GI on ITR-large grant; split-funded w/ EAR/GI = 65,000
California - San Diego (SIO) AGNEW, Duncan Carr	"Modernization of Existing Long-Base Strainmeters: Instrument Upgrades for Improved Data [supplement to EAR-0447343]"	EAR0627905	15,000/0	15,000/0	IF suppl for EA on IF grant
California - San Diego (SIO) CONSTABLE, Catherine	"Collaborative Proposal for Facility Support: Development and Maintenance of the Magnetics Information Consortium (MagIC) [supplement to EAR- 0318672]"	EAR0634126	30,000/0	- 0 -	suppl for GI on PH grant; split-funded w/ EAR/GI = 30,000
California - San Diego (SIO) LAL, Devandra	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth) Project"	EAR0345629	143,042/60	36,981/12	IF split-funding for ITD on GE grant
California - San Diego (SIO) ZUMBERGE, Mark A.	"Development of a New Broadband Optical Seismometer"	EAR0352877	602,113/36	96,929/12	3rd yr incr on 3-yr cont grant for ITD; split-funded w/ OCE/OT = 96,929
California - Santa Barbara MATTINSON, James M.	"Collaborative Research: Development of Improved Zircon Standards for SIMS and LA-ICP-MS-U-Pb Geochronology using CA-TIMS Pre-Treatment"	EAR0549672	26,708/12	26,708/12	standard grant for EA
California - Santa Cruz HOURIGAN, Jeremy K.	"Collaborative Research: Development of Improved Zircon Standards for SIMS and LA-ICP-MS U-Pb Geochronology using CA-TIMS Pre-Treatment"	EAR0549603	35,656/12	35,656/12	standard grant for EA
California - Santa Cruz SCHWARTZ, Susan Y.	"Collaborative Research: Acquisition of Continuous GPS and Borehole Geophysical Networks for Investigations of Seismogenic Processes at the Costa Rica Subduction Zone"	EAR0502488	189,645/24	141,089/12	2nd yr incr on 2-yr cont grant for EA
Caltech FARLEY, Kenneth A.	"Collaborative Research: Cosmogenic <sup>3</sup> He Dating of Accessory Minerals"	EAR0511053	30,000/24	30,000/12	IF split-funding for Other on GLD grant

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Caltech GURNIS, Michael C.	"Computational Infrastructure for Geodynamics, CIG"	EAR0647275	9,713,473 /60	- 0 -	split-funding for GI on PH CAGR EAR-0426271; split-funded w/ EAR/GI = 1,500,000
Case Western Reserve VAN ORMAN, James A.	"Acquisition of a Multi-Anvil High Pressure Apparatus"	EAR0549622	174,640 /12	149,640 /24	standard grant for EA
Chicago RIVERS, Mark L.	"GeoSoilEnviroCARS: A National Resource for Earth, Planetary, Soil and Environmental Science Research at the APS"	EAR0622171	10,457,758 /60	1,809,615 /12	1st yr incr on 5-yr cont grant for FS
Colgate HARPP, Karen S.	"MRI: Acquisition of LA-ICP-MS for the Integration of Research, Research Training, and Education at Colgate University"	EAR0617757	295,680 /18	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 295,680
Colorado FARMER, G. Lang	"Collaborative Research: Facility Support: Completing the Western North American Volcanic and Intrusive Rock Database (NAVDAT)"	EAR0622302	63,683 /12	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 63,683
Colorado State STEIN, Holly J.	"Technician Support: Phase I Technician Support for AIRIE Program TIMS Laboratory"	EAR0451693	225,000 /36	75,000 /12	2nd yr incr on 3-yr cont grant for TS
Columbia - LDEO KOGAN, Mikhail	"Collaborative Research: A Test of the Existence of the Bering Plate"	EAR0549269	18,000 /0	18,000 /0	IF suppl for EA on TE grant
Columbia - LDEO LEHNERT, Kerstin A.	"SGER: An Online Registry for Unique Sample Identification in the Solid Earth Sciences (SESAR) [supplement to EAR-0445178]"	EAR0550914	12,455 /0	12,455 /0	IF suppl for Other on SGP grant
Columbia - LDEO LEHNERT, Kristen A.	"SedDB: An Online Information System for Sediment Geochemistry"	OCE0453958	130,000 /12	- 0 -	split-funding for GI on OCE/MGG grant; split-funded w/ EAR/GI = 130,000
Delaware State GWANMESIA, Gabriel	"Collaborative Research: Elasticity Grand Challenge of the COMPRESS Initiative"	EAR0135431	277,452 /60	20,000 /12	IF split-funding for Other on PH grant
DOSECC, Inc. NIELSON, Dennis L.	"Support for Scientific Drilling"	EAR0309707	2,661,945 /60	504,844 /12	4th yr incr on 5-yr cont grant for FS
DOSECC, Inc. NIELSON, Dennis L.	"Support for Scientific Drilling [supplement to EAR-0309707]"	EAR0603992	281,040 /0	281,040 /0	IF suppl for FS on IF grant
Duke RICHTER, Daniel D.	"Collaborative Research in Geoinformatics: Building a Cyberinfrastructure for the Critical Zone Exploration Network"	EAR0533557	24,936 /12	- 0 -	1st yr incr on 2-yr cont grant for GI; split-funded w/ EAR/GI = 24,936
Educause LUKER, Mark	"Second Annual Cybersecurity Summit for Large Federally Sponsored Facilities; Arlington, Virginia; November or December, 2005"	ATM0540968	10,000 /12	- 0 -	split-funding for GI on ATM grant; split-funded w/ EAR/GI = 10,000
Florida MUELLER, Paul A.	"Technical Support for a New ICP-MS Laboratory for Earth and Ocean Science Research at the University of Florida"	EAR0418905	217,901 /36	72,717 /12	3rd yr incr on 3-yr cont grant for TS
Florida SHRESTHA, Ramesh L.	"Collaborative Research: Facility Support to Renew Operation of the National Center for Airborne Laser Mapping (NCALM)"	EAR0518962	2,528,124 /36	609,000 /12	2nd yr incr on 3-yr cont grant for FS
Florida SHRESTHA, Ramesh L.	"Collaborative Research: Facility Support to Renew Operation of the National Center for Airborne Laser Mapping (NCALM) [supplement to EAR-0518962]"	EAR0627830	37,616 /0	- 0 -	IF suppl for FS on IF grant; split-funded w/ = GLD = 37,616

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Florida SHRESTHA, Ramesh L.	"Collaborative Research: Facility Support to Renew Operation of the National Center for Airborne Laser Mapping (NCALM) [supplement to EAR-0518962]"	EAR0628363	39,771 /0	- 0 -	IF suppl to IF grant for FS; split-funded w/ TE = 39,771
Florida State ERLEBACHER, Gordon	"Collaborative Research: Development of Middleware/Software to Allow Visualization and Analysis of Large and Complex 4-D Geoscience Datasets"	EAR0446729	220,599 /36	- 0 -	2nd yr incr on 3-yr cont grant for GI; split-funded w/ EAR/GI = 73,722
Florida State WANG, Yang	"Technician Support for the Stable Isotope Laboratory at Florida State University - Phase I"	EAR0517806	215,791 /36	69,128 /12	2nd yr incr on 3-yr cont grant for TS
Hawaii RUBIN, Kenneth H.	"Acquisition of a Multi-Collector ICP-MS for Marine and Terrestrial Geochemical Research"	EAR0549618	777,280 /36	200,000 /36	standard grant for EA; split-funded w/ OCE/ITS = 250,000; OCE/MGG = 200,000 and OCE/OPP = 50,000
Idaho OLDOW, John S.	"Workshop to Identify Ground-Based Digital Aquisition, Analysis, and Visualization Needs of the Geological Science Community"	EAR0549324	38,697 /12	38,697 /12	standard grant for Other
Idaho WOOD, Scott A.	"Acquisition of an Inductively Coupled Plasma-Atomic Emission Spectrometer and an Ion Chromatograph"	EAR0549220	121,711 /18	60,856 /12	standard grant for EA; split-funded w/ EHR/EPSCoR = 60,855
Illinois BASS, Jay D.	"Collaborative Research:Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135642	845,053 /60	60,000 /12	IF split-funding for Other on PH grant
Illinois JOHNSON, Thomas M.	"Technical Support for the New MC-ICP-MS Laboratory at University of Illinois at Urbana Champaign"	EAR0348948	245,890 /36	75,000 /12	3rd yr incr on 3-yr cont grant for TS
Indiana PALLICKARA, Shrideep B.	"Collaborative Research: Development of Middleware/Software to Allow Visualization and Analysis of Large and Complex 4-D Geoscience Data Sets"	EAR0446610	199,020 /36	- 0 -	2nd yr incr on 3-yr cont grant for GI; split-funded w/ EAR/GI = 66,312
Indiana RIPLEY, Edward M.	"Technician Support for Stable Isotopic Research Facility (SIRF) at Indiana University"	EAR0413575	217,014 /36	72,306 /12	2nd yr incr on 3-yr cont grant for TS
Internat Seismological Ctr SHAPIRA, Avi	"Partial Support of the International Seismological Centre"	EAR0548649	848,947 /48	140,432 /12	1st yr incr on 4-yr cont grant for FS
Iowa KRAJEWSKI, Witold F.	"Collaborative Research: Testing a Dynamical-Hortonian Scaling Theory for Flood Events on Whitewater Basin, Kansas"	EAR0450320	99,713 /12	313,765 /12	IF split-funding for ITD on HS grant
Iowa State IVERSON, Neal R.	"MRI: Development of a Ring-Shear Device for Study of Subglacial"	OPP0618747	529,922 /36	- 0 -	standard grant for ITD; split-funded w/ OIA/MRI/EAR = 264,961 and OIA/MRI/OPP = 264,961
IRIS SIMPSON, David W.	"IRIS: Cornerstone Facilities for Seismology and Earth Sciences"	EAR0552316	89,459,077 /60	11,488,551 /12	1st yr incr on 5-yr CAGR EAR-0552316 for FS
Kansas STOCKLI, Daniel	"Technician Support: (U-Th)/He laboratory at the University of Kansas [Phase I]"	EAR0414817	203,376 /36	67,738 /12	2nd yr incr on 3-yr cont grant for TS
Kansas WALKER, J. Douglas	"Collaborative Project: Facility Support: EarthChem - Advancing Data Management in Solid Earth Geochemistry"	EAR0522222	841,334 /60	- 0 -	2nd yr incr on 5-yr cont grant for GI; split-funded w/ EAR/GI = 146,994
Kansas WALKER, J. Douglas	"Collaborative Research: Facility Support: Completing the Western North American Volcanic and Intrusive Rock Database (NAVDAT)"	EAR0622365	92,619 /12	- 0 -	split-funding for GI on SGP grant; split-funded w/ EAR/GI = 92,619

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Louisiana State DOKKA, Roy K.	"Collaborative Research: Post-Katrina Re-Survey of Key Geodetic Benchmarks in Coastal Louisiana"	EAR0609768	85,783/12	85,783/12	standard grant for EA
Maryland FARQUHAR, James	"Technical Support for the Stable Isotope Facility at the GL at UMCP"	EAR0345612	225,000/36	75,000/12	3rd yr incr on 3-yr cont grant for TS
Maryland WALKER, Richard J.	"Acquisition of a State-of-the-Art Thermal Ionization Mass Spectrometer"	EAR0549300	530,000/12	265,000/24	standard grant for EA
Mass General Hospital SISTERSON, Janet M.	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth) Project"	EAR0345255	6,798/12	6,798/12	IF split-funding for ITD on GE grant
Massachusetts SEAMAN, Sheila J.	"Acquisition of a Fourier Transform Infrared Spectrometer for Enhancement of Research and Teaching of Microspectroscopy of Crystals, Glasses, and Organic Compounds"	EAR0549637	183,291/12	100,000/12	1st yr incr on 2-yr cont grant for EA
Miami - Ohio WIDOM, Elisabeth	"Acquisition of a Microwave Digestion System for Geochemical and Geochronological Applications"	EAR0549552	31,500/12	31,500/12	standard grant for EA
Miami - RSMAS DIXON, Timothy H.	"Collaborative Research: Acquisition of Continuous GPS and Borehole Geophysical Networks for Investigations of Seismogenic Processes at the Costa Rica Subduction Zone"	EAR0502221	192,496/24	96,748/12	2nd yr incr on 2-yr cont grant for EA
Miami - RSMAS DIXON, Timothy H.	"Collaborative Research: Post-Katrina Re-Survey of Key Geodetic Benchmarks in Coastal Louisiana"	EAR0609742	85,356/12	85,356/12	SGER grant for EA
Michigan LANGE, Rebecca	"Development of an Ultrasonic Acoustic Interferometer for Silicate Liquids in an Internally Heated Pressure Vessel"	EAR0447113	281,284/36	90,587/12	2nd yr incr on 3-yr cont grant for ITD
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism"	EAR0218384	1,896,496/60	374,196/12	5th yr incr on 5-yr cont grant for FS
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism [supplement to EAR-0218384]"	EAR0614305	21,690/0	11,690/0	IF suppl for Other on IF grant
Minnesota ITO, Emi	"Facilities Support: National Lacustrine Core Repository and initial Core Analysis Laboratory (LacCore)"	EAR0519258	919,222/36	201,480/12	1st yr incr on 15-mo cont grant for FS
Minnesota ITO, Emi	"Preservation of Lake Sediment Cores and Associated Data: Benefits of Proper Curation"	EAR0602120	22,457/12	22,457/12	standard grant for Other
Minnesota ITO, Emi	"Collaborative Research: CoreWall - Integrated Environment for Interpretation of Geoscientific Data from Sediment and Crystalline Cores"	OCE0602121	280,542/24	- 0 -	split-funding for GI on OCE/ODP grant; split-funded w/ EAR/GI = 72,299
Minnesota YUEN, David A.	"Collaborative Research: Development of middleware/software to allow visualization and analysis of large and complex 4-D geoscience data sets."	EAR0445392	221,916/36	- 0 -	2nd yr incr on 3-yr cont grant for GI; split funded w/ EAR/GI = 73,452
MIT BOWRING, Samuel A.	"The EARTHTIME Network: Developing an Infrastructure for High-Resolution Calibration of Earth History"	EAR0451802	4,322,910/60	229,068/12	2nd yr incr on 3-yr cont grant for FS; split-funded w/ EAR/GI = 200,000
MIT BOWRING, Samuel A.	"EARTHTIME III: Proof of Concept"	EAR0637303	20,000/0	20,000/0	IF split-funding for Other on SGP grant

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MIT KING, Robert W.	"GPS Data Processing Support for the UNAVCO Community"	EAR0519562	153,754/24	97,199/12	2nd yr incr on 2-yr cont grant for FS
Montana DEGRANDPRE, Michael	"An Autonomous Freshwater pH Sensor: Development and Applications"	EAR0337460	37,000/12	52,000/12	IF split-funding for ITD on HS grant
Montclair State BRACHFELD, Stefanie A.	"MRI: Acquisition of a Scanning Electron Microscope at Montclair State University"	EAR0619402	295,079/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/OPP = 114,453 and OPP/AGG = 17,836
Nevada - DRI BERGER, Glenn W.	"MRI: Acquisition of Single-grain-luminescence-dating Instrument Systems"	EAR0619873	418,049/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 207,504 and OIA/MRI/OPP = 207,325
New Mexico ASMEROM, Yemane	"Acquisition of a MC-ICPMS for Earth Sciences Research in New Mexico [supplement to EAR-0326902]"	EAR0614716	48,000/0	48,000/0	IF suppl for EA on IF grant
New Mexico CROSSEY, Laura J.	"Dissected Hydrologic System at Grand Canyon: Interaction Between Upper and Lower World Waters in Modern Springs and Ancient Travertines [supplement to EAR-0310323]"	EAR0612308	17,500/0	17,500/0	IF suppl for EA on HS grant
New Mexico KARLSTROM, Karl E.	"Collaborative Research: Mesoproterozoic Tectonics of Inboard Southwestern Laurentia: Insight Into Assembly and Configuration of Rodinia From Study of Sedimentary Successions [suppl to EAR-0208463]"	EAR0612310	17,500/0	17,500/0	IF suppl for EA on TE grant
New Mexico REEDY, Robert C.	"Collaborative Research: A Proposal for the Cosmic-Ray prOduced NUclide Systematics on Earth (CRONUS-Earth) Project"	EAR0345522	20,000/12	20,000/12	IF split-funding for ITD on GE grant
North Carolina GLAZNER, Allen F.	"Collaborative Research: Facility Support: Completing the Western North American Volcanic and Intrusive Rock Database (NAVDAT)"	EAR0622313	45,988/12	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 45,988
North Carolina State SCHWEITZER, Mary H.	"Acquisition of Sample Preparation and Imaging Equipment for Use in Analyses of Preserved Fossil Soft Tissues."	EAR0548847	158,888/12	56,477/12	1st yr incr on 2-yr cont grant for EA
Northern Arizona KAUFMAN, Darrell S.	"Facilities Support: Amino Acid Geochronology Laboratory"	EAR0620455	302,501/36	82,581/12	1st yr incr on 3-yr cont grant for FS
Ohio State FOLAND, Kenneth A.	"Technician Support: Ohio State University, Radiogenic Isotopes Laboratory - Phase II"	EAR0452220	150,000/24	75,000/12	2nd yr incr on 2-yr cont grant for TS
Oregon BINDEMAN, Ilya N.	"Acquisition of an Isotope Ratio Gas Source Mass Spectrometer"	EAR0548526	249,581/12	249,581/24	standard grant for EA
Penn State GRAHAM, Russell W.	"Geoinformatics: Collaborative Research: Late Neogene Terrestrial Ecosystem Database"	EAR0622349	248,394/12	- 0 -	split-funding for GI on SGP grant; split-funded w/ EAR/GI = 248,394
Penn State MANN, Michael E.	"Acquisition of a High-Performance Computing Cluster for the Penn State "Earth System Science Center (ESSC)""	EAR0548962	150,000/24	100,000/24	standard grant for EA
Penn State MILLER, Doug	"Collaborative Research in Geoinformatics: Building a Cyberinfrastructure for the Critical Zone Exploration Network"	EAR0533644	136,690/12	- 0 -	1st yr incr on 2-yr cont grant for GI; split-funded w/ EAR/GI = 136,690
Penn State NYBLADE, Andrew A.	"Facility Support: AfricaArray"	EAR0446647	198,597/36	57,824/12	2nd yr incr on 3-yr cont grant for FS

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Penn State REED, Patrick M.	"Technician Support for Real-Time Hydrologic Sensor Systems within the Penn State Experimental Forest"	EAR0418798	225,000/36	75,000/12	2nd yr incr on 3-yr cont grant for TS
Pittsburgh CAPO, Rosemary C.	"Technician Support: Geochemistry Laboratories at the University of Pittsburgh, Phase II"	EAR0517313	95,313/24	48,362/12	2nd yr incr on 2-yr cont grant for TS
Portland State CADY, Sherry L.	"Technician Support: Geomicrobiology and Electron Microscopy Laboratory"	EAR0423902	195,960/36	65,286/12	2nd yr incr on 3-yr cont grant for TS
Purdue CAFFEE, Marc	"Facility Support: The Purdue Rare Isotope Measurement Laboratory"	EAR0452936	3,383,849/48	666,000/12	2nd yr incr on 4-yr cont grant for FS
Purdue CAFFEE, Marc	"Collaborative Research: A Proposal for the Cosmic-Ray produced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345820	49,494/12	40,849/12	IF split-funding for ITD on GG grant
Rensselaer Polytechnic Inst SPEAR, Frank	"Development of a Database System for Metamorphic Geochemistry"	EAR0622345	225,361/12	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 225,361
Rice LEE, Cin-Ty A.	"Acquisition of Laser Ablation System to Quantify Matrix and Grain-Boundary Trace Element Partitioning in Olivine and Pyroxenes: an Integrated Bulk and in situ Approach"	EAR0549268	175,730/24	115,100/12	standard grant for EA
Rochester TARDUNO, John A.	"MRI: Acquisition of a High Resolution Small Bore 3-Component DC SQUID Magnetometer for Paleomagnetic Research"	EAR0619467	275,500/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 275,500
San Diego State HANAN, Barry B.	"An Acquisition of a Multi-Collector-Inductively Coupled Plasma-Mass Spectrometer [supplement to EAR-0079943]"	OCE0549228	14,300/0	14,300/0	IF suppl for EA on OCE/TTS grant
South Carolina THUNELL, Robert C.	"Acquisition of a Stable Isotope Ratio Mass Spectrometer for Climate Change Research"	EAR0545623	336,461/24	130,000/24	standard grant for EA; split-funded w/ EHR/EPSCoR = 130,000
Southern California JORDAN, Thomas H.	"A Petascale Cyberfacility for Physics-Based Seismic Hazard Analysis"	EAR0623704	950,011/12	- 0 -	split-funding for GI on PH grant; split-funded w/ EAR/GI = 950,011
Stanford CHAMBERLAIN, C. Page	"Technician Support: Stanford/USGS Ion Microprobe Facility"	EAR0446541	220,096/36	73,213/12	2nd yr incr on 3-yr cont grant for TS
Stanford ZEBKER, Howard A.	"Acquisition of Data Storage RAID Systems for the WInSAR Distributed Archive"	EAR0548376	50,980/12	50,980/12	standard grant for EA
SUNY - Binghamton JENKINS, David M.	"Acquisition of a Multi-Anvil Press"	EAR0444067	133,016/24	148,016/24	standard grant for EA
SUNY - Stony Brook LI, Baosheng	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135550	885,376/60	60,000/12	IF split-funding for Other on PH grant
SUNY - Stony Brook LIEBERMANN, Robert	"Consortium for Materials Properties Research in the Earth Sciences"	EAR0527425	13,561,585/60	2,100,000/12	5th yr incr on CAGR EAR-0135554 for FS
SUNY - Stony Brook WEIDNER, Donald J.	"Upgrading of USSA-2000 Multi-anvil facility"	EAR0447135	142,820/12	142,820/24	standard grant for EA
SUNY - Stony Brook WEIDNER, Donald J.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135551	873,666/60	110,000/12	IF split-funding for Other on PH grant

<b>Institution/PI</b>	<b>Title of Proposal</b>	<b>Proposal #</b>	<b>\$'s Requested/ months</b>	<b>FY06 Funding by IF/months</b>	<b>Comments</b>
SUNY-Stony Brook O'LEARY, Maureen	"Geoinformatics: Morphobank, Web-Based Systematics Software and Archive for Transforming the Study of Fossils in Contemporary Geoscience Research"	EAR0622359	84,902/12	- 0 -	split-funding for GI on SGP grant; split-funded w/ EAR/GI = 84,902
Syracuse BALDWIN, Suzanne L.	"Phase II Technician Support: Syracuse University Noble Gas Isotope Research Laboratory (SUNGIRL)"	EAR0447305	150,000/24	75,000/12	2nd yr incr on 2-yr cont grant for TS
Texas CARLSON, William D.	"Facility Support: High-Resolution X-ray Computed Tomography Laboratory"	EAR0345710	1,502,144/60	281,864/12	3rd yr incr on 3-yr cont grant for FS
Texas WILSON, Clark R.	"Development of an Integrated Superconducting Gravity Meter Sensor System for Subsurface Water Storage"	EAR0345864	665,128/36	155,393/12	3rd yr incr on 3-yr cont grant for ITD
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities (CAGR EAR-0321760)"	EAR0603695	13,009,777/48	2,143,543/12	4th yr incr on 51-mo CAGR for FS; split-funded w/ interagency transfer from NASA = 951,500 for SENH and IGS activities
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0612818	206,195/0	94,704/0	IF suppl for FS on IF CAGR; split-funded w/ PH = 87,058 and TE = 24,433
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0633808	40,334/0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ ES = 40,334
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0649680	28,379/0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ PH = 28,257
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities [supplement to CAGR EAR-0321760]"	EAR0612892	487,458/0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ OPP/PRSS = 182,400; OPP/ARS = 173,671; OPP/GIAC = 71,056; OPP/AGG = 38,880; OPP/B&M = 18,770; and OPP/O&C = 2,681 for support of USAP and Arctic field research programs
Union College TRAVER, Cherrice	"MRI: Acquisition of a Variable Pressure Scanning Electron Microscope"	EAR0619578	298,620/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 298,620
Virginia Tech BODNAR, Robert J.	"Technician Support: Laser Ablation ICP-MS Facility"	EAR0447237	150,000/24	75,000/12	1st yr incr on 2-yr cont grant for TS
Washington BOOKER, John	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrumentation Facility [supplement to EAR-0236538]"	EAR0628745	54,050/12	54,050/0	IF suppl for FS on IF grant
Washington KRESS, Victor C.	"Collaborative Research: Continued Support for Development of a Distributed Computing Infrastructure for Computational Thermodynamics in Petrology"	EAR0609673	89,918/12	- 0 -	split-funding for GI on CH grant; split-funded w/ EAR/GI = 89,918
Washington STONE, John O.	"Collaborative Research: A Proposal for the Cosmic-Ray produced NUclide Systematics on Earth (CRONUS-Earth)"	EAR0345574	40,710/12	94,463/12	IF split-funding for ITD on GG grant
Washington State FOIT, Franklin F.	"MRI: Acquisition of Electron Microprobe Microanalyzer"	EAR0619165	883,700/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI/EAR = 630,000
Washington State VERVOORT, Jeffrey D.	"Technician support (Phase I) for MC-ICPMS isotope facility, Washington State University"	EAR0434406	225,000/36	75,000/12	2nd yr incr on 3-yr cont grant for TS



<b>Institution/PI</b>	<b>Title of Proposal</b>	<b>Proposal #</b>	<b>\$'s Requested/ months</b>	<b>FY06 Funding by IF/months</b>	<b>Comments</b>
Western Michigan KORETSKY, Carla M.	"CAREER: Generation of Sediment Heterogeneity by Macrophytes and Macrofauna and Consequences for Redox Chemistry and Trace Metal Speciation"	EAR0348435	15,921/12	22,950/12	IF split-funding for EA on GG grant
WHOI KURZ, Mark D.	"Upgrade of a Helium Isotope Mass Spectrometer"	EAR0549533	298,071/24	136,130/12	1st yr incr on 2-yr cont grant for EA; split-funded w/ OPP/AGG = 25,000
WHOI PEUCKER-EHRENBRINK,	"Facility Support: Northeast National Ion Microprobe Facility at the Woods Hole Oceanographic Institution"	EAR0422965	373,759/24	124,975/12	2nd yr incr on 2-yr cont grant for FS
WHOI PEUCKER-EHRENBRINK,	"Technician Support for the WHOI ICPMS Facility"	EAR0318137	224,200/36	37,500/12	3rd yr incr on 3-yr cont grant for TS; split-funded w/ OCE/MGG = 36,840
Wisconsin GOODWIN, Laurel	"Acquisition of a Versatile Scanning Electron Microscope"	EAR0447332	260,000/36	260,000/24	standard grant for EA
Wisconsin JOHNSON, Clark M.	"Technician Support: Request for Phase 1 for MC-ICP-MS Laboratory"	EAR0318213	194,559/36	69,449/12	3rd yr incr on 3-yr cont grant for TS
Wisconsin SINGER, Bradley S.	"Technician Support: Phase II for the University of Wisconsin Rare Gas Geochronology Laboratory"	EAR0516760	88,006/24	44,948/12	2nd yr incr on 2-yr cont grant for TS
Wisconsin VALLEY, John W.	"Technician Support for a Stable Isotope Ion Microprobe"	EAR0516725	224,930/36	74,995/12	1st yr incr on 3-yr cont grant for TS
Yale KARATO, Shun-ichiro	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth"	EAR0136181	959,177/60	70,000/12	IF split-funding for Other on PH grant
Yale KARATO, Shun-ichiro	"Plastic Deformation and Lattice-Preferred Orientation in Wadsleyite: Experimental Constraints on the Rheology and Dynamics of Mantle Transition Zone [supplement to EAR-0510682]"	EAR0606770	12,855/0	12,855/12	IF suppl for EA on PH grant

## **ABBREVIATIONS and EXPLANATIONS**

<b>AAS</b> =	Archaeology, Archaeometry and Systematic Collections Program in SBE	<b>GPS</b> =	Global Positioning System
<b>AFOSR</b> =	Air Force Office of Scientific Research	<b>GSN</b> =	Global Seismographic Network of IRIS
<b>AGG</b> =	Antarctic Geology and Geophysics Program in OPP	<b>GSO</b> =	Graduate School of Oceanography, University of Rhode Island
<b>ANS</b> =	Arctic Natural Sciences Program in OPP	<b>HRTEM</b> =	high- resolution TEM
<b>AO</b> =	Astronomical Observatory of the Smithsonian Institution	<b>HS</b> =	Hydrologic Sciences Program in EAR
<b>AP</b> =	Applications in Science and Engineering Technical Area of ITR	<b>ICP-AE</b> =	Inductively coupled plasma-atomic emission spectrometer
<b>ARCSS</b> =	Arctic System Sciences Program in OPP	<b>ICP-MS</b> =	Inductively coupled plasma-mass spectrometer
<b>ASL</b> =	Albuquerque Seismology Laboratory of the USGS	<b>IF</b> =	Instrumentation and Facilities Program in EAR
<b>ASS</b> =	Arctic Social Sciences Program in OPP	<b>IM</b> =	Information Management Technical Area of ITR
<b>ATM</b> =	Division of Atmospheric Sciences in GEO	<b>incr</b> =	an annual increment of funds to an active NSF grant
<b>BNL</b> =	Brookhaven National Laboratory	<b>INT</b> =	Division of International Programs in SBE
<b>CAGR</b> =	Cooperative Agreement	<b>IRIS</b> =	Incorporated Research Institutions for Seismology
<b>CD</b> =	Continental Dynamics Program in EAR	<b>ISS</b> =	Impulsive Stimulated Scattering
<b>CD-ATM</b> =	Climate Dynamics Program in ATM	<b>ITD</b> =	Instrument and Technique Development component of IF Program
<b>CH</b> =	Geochemistry and Petrology Program in EAR	<b>ITR</b> =	Information Technology Research Program
<b>CHE</b> =	Chemical Instrumentation Program in MPS	<b>ITR-small</b> =	allocation for class of ITR proposals requesting <= \$500k
<b>CIW</b> =	Carnegie Institution of Washington	<b>ITS</b> =	Oceanographic Instrumentation and Technical Service Program in OCE
<b>CO</b> =	Chemical Oceanography Program in OCE	<b>IUPU</b> =	Indiana University - Purdue University system
<b>cont grant</b> =	continuing grant, a multi-year grant funded one year at a time	<b>KNET</b> =	Kyrgyz Broad-Band Seismograph Network
<b>CRDF</b> =	U.S. Civilian Research and Development Foundation	<b>LA-ICP-MS</b> =	laser ablation ICP-MS
<b>DCP</b> =	direct current plasma	<b>LDEO</b> =	Lamont-Doherty Earth Observatory, Columbia University
<b>DMA</b> =	Defense Mapping Agency	<b>MGG</b> =	Marine Geology and Geophysics Program in OCE
<b>DMI</b> =	Division of Design, Manufacture & Industrial Innovation in ENG	<b>MPS</b> =	Directorate for Mathematics and Physical Sciences at NSF
<b>DMR</b> =	Division of Materials Research in MPS	<b>MRI</b> =	Major Research Instrumentation Program in OIA
<b>DOD</b> =	Department of Defense	<b>NAVAIR</b> =	Naval Air Weapons Center
<b>DRI</b> =	Desert Research Institute of the University of Nevada	<b>NIMA</b> =	National Imagery and Mapping Agency (formerly DMA)
<b>DTM</b> =	Department of Terrestrial Magnetism in CIW	<b>NOAA</b> =	National Oceanic and Atmospheric Administration within U.S. Department of Commerce
<b>EA</b> =	Equipment Acquisition component of IF Program	<b>NOS</b> =	National Ocean Service in NOAA
<b>EAR</b> =	Division of Earth Sciences in GEO	<b>NSLS</b> =	National Synchrotron Light Source at BNL
<b>EC</b> =	Early Career component of IF Program	<b>OBES</b> =	Office of Basic Energy Sciences in the U.S. Department of Energy
<b>EH</b> =	Education & Human Resources Program in EAR	<b>OCE</b> =	Division of Ocean Sciences in GEO
<b>EHR</b> =	Directorate for Education and Human Resources at NSF	<b>ODP</b> =	Ocean Drilling Program in OCE
<b>ENG</b> =	Directorate for Engineering at NSF	<b>OIA</b> =	Office of Integrative Activities at NSF (formerly OSTI)
<b>EPSCoR</b> =	Experimental Program to Stimulate Competitive Research in EHR	<b>OMA</b> =	Office of Multidisciplinary Activities at NSF
<b>ES</b> =	EarthScope Program in EAR	<b>OPP</b> =	Office of Polar Programs at NSF
<b>FS</b> =	Facility Support component of IF Program	<b>OSTI</b> =	Office of Science and Technology Infrastructure at NSF
<b>FY</b> =	Federal fiscal year e.g., FY94: 10/1/93 to 9/30/94	<b>OT</b> =	Oceanographic Technology Program in OCE
<b>GE</b> =	Geology and Paleontology Program in EAR	<b>Other</b> =	includes categories other than EA, FS, ITD and TS (e.g., workshops, research projects etc.)
<b>GEO</b> =	Directorate for Geosciences at NSF	<b>PC</b> =	Paleoclimate program in ATM
<b>GG</b> =	Geobiology & Low Temperature Geochemistry Program in EAR	<b>PE</b> =	People and Social Groups Interacting with Computers and Infrastructure Technical Area of ITR
<b>GL</b> =	Geophysical Laboratory in CIW		
<b>GLD</b> =	Geomorphology and Land Use Dynamics Program in EAR		

**PH =** Geophysics Program in EAR  
**REU =** Research Experience for Undergraduates Program in EHR  
**RSMAS =** Rosenstiel School of Marine and Atmospheric Sciences  
**RUI =** Research in Undergraduate Institutions Program in EHR  
**SBE =** Directorate for Social, Behavioral & Economic Sciences at NSF  
**SBER =** Division of Social, Behavioral and Economic Research in SBE  
**SBIR =** Small Business Innovation Research Program in ENG  
**SENH =** NASA's Solid Earth And Natural Hazards Research Program  
**SGER =** Small Grants for Exploratory Research  
**SGP =** Sedimentary Geology & Paleobiology Program in EAR  
**SIMS =** secondary ionization mass spectrometry  
**SIO =** Scripps Institution of Oceanography  
**SNL =** Sandia National Laboratory  
**split-funding =** two or more programs share the funding of a grant  
**SPO =** Scientific Program Order  
**standard grant** a grant funded for the full amount in its 1st yr  
**STC =** NSF Science and Technology Center  
**SUNY =** State University of New York  
**suppl =** a funding supplement to an active NSF grant  
**TE =** Tectonics Program in EAR  
**TEM =** transmission electron microscopy  
**TFEA =** Teaching Experiences in the Arctic  
**TIMS =** thermal ionization mass spectrometry  
**TS =** Technician Support component of IF Program  
**UCAR =** University Consortium for Atmospheric Research  
**UNAVCO =** University NAVSTAR Consortium within UCAR  
**USGS =** U.S. Geological Survey  
**VPI & SU =** Virginia Polytechnic Institute and State University  
**WE =** Western Europe Program in INT  
**WHOI =** Woods Hole Oceanographic Institution  
**XRD =** X-ray diffractometer  
**XRF =** X-ray fluorescence spectrometer

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Division of Earth Sciences (EAR)

Instrumentation and Facilities Program (IF)

Numerical Summary of All Actions in FY-2006

<u>PROPOSALS</u>		<u>DOLLARS</u>	
Total number of proposals processed by IF .....	321	Total dollars requested of IF (per year for multi-year proposals) .....	78,430,410
Logged-in to IF as primary program .....	280	Total awarded through IF actions in FY-2006 .....	40,008,549
New proposals; full review by IF .....	221	Awarded from IF budget .....	28,881,900
Declined .....	167	For equipment acquisition/upgrade (EA) .....	3,239,792
Funded entirely from IF budget .....	28	For instr and technique development (ITD) .....	1,100,373
Split-funded with other programs ..	16	For facility support (FS) .....	22,081,637
Held over for FY07 decision .....	10	For technician support (TS) .....	1,658,457
New proposals; withdrawn before review .....	2	For geoinformatics (GI) .....	229,068
Other award actions (incr, suppl, etc) .....	57	For other (workshops, REU, etc.) .....	572,573
Funded entirely from IF budget .....	43	Awarded from other NSF budgets through split-funding ..	10,175,149
Split-funded with other programs .....	14	For equipment acquisition/upgrade (EA) .....	3,232,227
Logged-in to other NSF programs; IF-split-funding .....	23	For instr and technique development (ITD) .....	1,482,517
Logged-in to other NSF programs; GI-split-funding .....	18	For facility support (FS) .....	744,927
		For technician support (TS) .....	36,840
		For geoinformatics (GI) .....	4,678,638
		Awarded through interagency transfers .....	951,500
		For facility support (FS) .....	951,500