



**NATIONAL SCIENCE FOUNDATION**

**4201 Wilson Boulevard, Arlington VA 22230**

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

*Summary of All FY-2003 Actions Leading to AWARDS*

<b>Institution/PI</b>	<b>Title of Proposal</b>	<b>Proposal #</b>	<b>\$'s Requested/ months</b>	<b>FY03 Funding by IF/months</b>	<b>Comments</b>
Akron PARK, Lisa E.	"MRI: Acquisition of a Quanta 200 Environmental Scanning Electron Microscope and Creation of the Center for Environmental Scanning Electron Microscopy"	EAR0320898	319,466/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 250,000
Alaska DEHN, Jonathan	"An Equipment Proposal: Volcanic Conduit Dynamics Observed Through Forward Looking Infrared Radiometry"	EAR0324640	71,342/12	35,670/12	standard grant for EA
Alaska FREYMUELLER, Jeffrey T.	"Equipment Support: Mechanisms of Postseismic Deformation Following the 2002 Denali Fault Earthquake"	EAR0323156	498,344/36	178,320/12	1st yr incr on 3-yr cont grant for FS
Alaska LARSEN, Jessica F.	"Acquisition of a Piston and Cylinder Apparatus to Expand the Capabilities of the UAF Experimental Petrology Laboratory"	EAR0238602	40,261/12	20,131/24	standard grant for EA; split-funded w/ EHR/EPSCoR = 20,130
Alaska LAYER, Paul W.	"Upgrading of the 40AR/39AR Laser Dating System at the University of Alaska Fairbanks"	EAR0237360	80,000/12	40,000/24	standard grant for EA; split-funded w/ EHR/EPSCoR = 40,000
American Museum Nat Hist WEBSTER, James D.	"Experimental Investigation of H2O, Cl, CO2 and SO2 Solubilities in Rhyolite and Andesite Melts at Shallow Crustal Conditions"	EAR0308866	5,500/12	5,500/12	IF split-funding for EA on CH grant
Amherst HAGADORN, James W.	"RUI: Acquisition of a Microfocus X-ray Computed Tomography System for Analysis of Geological and Biological Samples"	EAR0236775	136,763/12	136,763/24	standard grant for EA
Amherst HAGADORN, James W.	"RUI: Acquisition of a Microfocus X-ray Computed Tomography System for Analysis of Geological and Biological Samples [supplement to EAR-0236775]"	EAR0333224	10,450/0	10,450/0	IF suppl for EA on IF grant
Arizona BARTON, Mark D.	"3-D Evolution of Arc Magmatism and Associated Hydrothermal Activity in Central Arizona"	EAR0230091	6,000/12	6,000/12	IF split-funding for EA on CH grant
Arizona BECK, J. Warren	"Collaborative Research: AMS Ion Source Development at University of California at Irvine, Woods Hole Oceanographic Institute/NOSAMS, University of Arizona, and NEC."	EAR0326580	80,400/24	80,400/24	standard grant for ITD
Arizona GEHRELS, George E.	"Early Paleozoic Tectonism in the Himalaya [supplement to EAR-0105339]"	EAR0328323	18,850/0	18,850/0	IF suppl for EA on TE grant
Arizona JULL, A. J. Timothy	"NSF Arizona AMS Laboratory: Research Programs and Operations"	EAR0115488	2,674,135/60	500,030/12	3rd yr incr on 3-yr cont grant for FS
Arizona NEUMAN, Shlomo P.	"ITR/AP: Forward and Inverse Conditional Moment Algorithms for Flow and Transport in Multiscale, Randomly Heterogeneous Hydrogeologic Environments under Uncertainty"	EAR0110289	491,914/48	- 0 -	3rd yr incr on 4-yr cont grant for Other; split-funded w/ EAR/ITR-small = 100,000

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Arizona OVERPECK, Jonathan T.	"ITR: Development of an Enhanced Computer-Assisted Analysis System for Earth Science Investigation of Laminated Sediments and Tree Rings"	EAR0219075	436,480/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 149,606
Arizona ZREDA, Marek G.	"Determination of Soil Water Content at Intermediate Spatial Scale Using Cosmic-Ray Neutrons"	EAR0126241	70,415/12	70,415/12	IF split-funding for ITD on HS grant
Arizona State ARROWSMITH, J. Ramon	"ITR/IM+AP: Collaborative Research: Creation of a Geospatial Data System for the Transition Between the Colorado Plateau and Basin and Range Provinces (Geoinformatics in Action)"	EAR0112960	249,510/36	- 0 -	3rd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 66,658
Arizona State BELL, David R.	"Melt-Rock and Fluid-Rock Reaction in the Petrogenesis of Archean Subcontinental Mantle"	EAR0310330	11,000/12	11,000/12	IF split-funding for EA on CH grant
Arizona State BUSECK, Peter R.	"Technician Support for Geoscience Research in Transmission Electron Microscopy [Phase I]"	EAR0113345	210,002/36	70,000/12	3rd yr incr on 3-yr cont grant for TS
Arizona State GARNERO, Edward J.	"Technician Support: Geosciences Computing at Arizona State University (Phase I)"	EAR0092024	210,000/36	70,000/12	3rd yr incr on 3-yr cont grant for TS
Arizona State TYBURCZY, James A.	"Technician Support for the Arizona State University Multiple Anvil High Pressure Laboratory (Phase I)"	EAR0114262	210,000/36	70,000/12	3rd yr incr on 3-yr cont grant for TS
Arkansas JANSMA, Pamela E.	"Collaborative Research: Magma Reservoir-Conduit Dynamics as Revealed by a Borehole Geophysical Observatory and Continuous GPS [supplement to EAR-0116485]"	EAR0322045	105,000/0	105,000/0	IF suppl for EA on CD grant
Arkansas JANSMA, Pamela E.	"Geodetic Constraints on Arc Dynamics and Coupling on the Plate Interface in the Lesser Antilles"	EAR0230271	22,693/12	22,693/12	IF split-funding for EA on TE grant
Berkeley Geochronology Cen RENNE, Paul R.	"Collaborative Research: Integrated Mineralogic and Rock Magnetic Study of Silicate-Hosted Magnetization"	EAR0309686	6,788/12	6,788/12	IF split-funding for EA on CH grant
Boise State DAVYDOV, Vladimir I.	"ITR: Collaborative Research: Web Tools for Global Time Scale Development: An Example from the Pennsylvanian-Cisuralian (Early Permian)"	EAR0218799	407,179/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 139,580
Boston PHILLIPS, Nathan G.	"WCR: Vegetation Control of Ecohydrologic Processes"	EAR0233643	17,260/12	17,260/12	IF split-funding for EA on BG grant
Boston PLANK, Terry A.	"Technician Support: Laser Ablation and Inductively Coupled Plasma Laboratories - Phase I"	EAR0233712	210,000/36	35,000/12	1st yr incr on 3-yr cont grant for TS; split-funded w/ OCE/MGG = 35,000
Bowdoin BEANE, Rachel J.	"MRI: Acquisition of an Electron Backscatter Diffraction System"	EAR0320871	166,733/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 144,200
Cal State Fullerton KIRBY, Matthew E.	"RUI: Acquisition of a Rapid Sediment Grain Size Analyzer."	EAR0318511	63,494/6	44,445/12	standard grant for EA
California - Berkeley BARNOSKY, Anthony D.	"Completion of GIS Analyses to Assess Biotic Effects of Environmental Perturbations on Neogene Mammals"	EAR0310221	5,000/12	5,000/12	IF split-funding for EA on GE grant
California - Berkeley DEPAOLO, Donald J.	"Acquisition of a High Precision Thermal Ionization Mass Spectrometer for Geochemical Research"	EAR0236741	320,000/24	280,000/24	standard grant for EA

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California - Berkeley DIETRICH, William E.	"Collaborative Research: Facility Support to Establish and Operate the National Center for Airborne Laser Mapping (NCALM)"	EAR0236606	514,830/36	155,772/12	1st yr incr on 2-yr cont grant for FS
California - Berkeley JEANLOZ, Raymond	"Toward Nanoseismology"	EAR0126217	60,000/12	60,000/12	IF split-funding for ITD on PH grant
California - Davis CARLSON, Sandra J.	"Collaborative Research: Examining Origination, Extinction, and Recovery in Terebratulide Brachiopods: The Integration of Phylogeny, Morphometrics, and Biogeography"	EAR0229897	12,200/12	12,200/12	IF split-funding for EA on GE grant
California - Davis CASEY, William H.	"Acquisition of a 500 MHz Solid State NMR Spectrometer"	EAR0213546	504,808/12	404,808/24	standard grant for EA; split-funded w/ DMR/IMR = 100,000
California - Davis VEROSUB, Kenneth L.	"Technician Support for the Long-Core Magnetometer Facility at UC-Davis, Phase II"	EAR0136498	140,000/24	70,580/12	2nd yr incr on 2-yr cont grant for TS
California - Davis VEROSUB, Kenneth L.	"Workshop Support: Magnetism, Hysteresis and the FORC Method"	EAR0330784	20,000/12	20,000/6	standard grant for Other
California - Irvine SOUTHON, John R.	"Collaborative Research: AMS Ion Source Development at University of California, Irvine, Woods Hole Oceanographic Institution, University of Arizona and National Electrostatics Corp"	EAR0326205	73,770/24	36,885/24	standard grant for ITD; split-funded with OCE/ITS = 36,885
California - Los Angeles AURNOU, Jonathan M.	"Development of an Experimental Geophysical Fluid Dynamics Laboratory"	EAR0236799	178,837/36	178,837/36	standard grant for ITD
California - Los Angeles AURNOU, Jonathan M.	"Experimental Studies of Convection in the Earth's Core"	EAR0229791	5,630/12	5,630/12	IF split-funding for EA on PH grant
California - Los Angeles BRODSKY, Emily E.	"Upgrading of Geophysics Communal Computer Laboratory"	EAR0236455	73,538/24	73,538/36	standard grant for EA
California - Los Angeles BRODSKY, Emily E.	"CAREER: Education and Research in Earthquakes and Volcanic Directed Blasts"	EAR0238455	35,000/12	35,000/12	IF split-funding for EA on PH grant
California - Los Angeles GROVE, Martin J.	"SGER: A Novel Approach to Ar-Ar Stepped Heating: Application to Cooling Histories of Co-Existing Feldspar and Zircon"	EAR0333409	18,608/12	18,608/12	IF split-funding for EA on CH grant
California - Los Angeles KAVNER, Abby	"Development of a High Pressure Mineral Physics and Chemistry Laboratory at UCLA"	EAR0318488	188,751/12	- 0 -	on hold for FY '04 decision
California - Los Angeles MCKEEGAN, Kevin D.	"Support of an Ion Microprobe Facility"	EAR0113563	721,304/36	248,930/12	3rd yr incr on 3-yr cont grant for FS
California - Los Angeles NIMMO, W. H. Francis	"Coupled Core-Mantle Thermal Evolution and the History of the Geodynamo"	EAR0309218	3,500/12	3,500/12	IF split-funding for EA on PH grant
California - Los Angeles TACKLEY, Paul J.	"Acquisition of a Beowulf Cluster of PCs for Geodynamic Modeling"	EAR0236796	74,199/12	74,199/36	standard grant for EA
California - Los Angeles TACKLEY, Paul J.	"Heat Transport Scaling in Earth's Mantle-Plate System: Understanding Core Heat Flow and the Effect of Continents"	EAR0229504	2,000/12	2,000/12	IF split-funding for EA on PH grant

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California - Riverside FINKEL, Robert C.	"Support for GeoCAMS: An Accelerator Mass Spectrometry Facility for Earth Science Research"	EAR0217981	184,018/24	85,181/12	2nd yr incr on 2-yr cont grant for FS
California - Riverside GREEN, Harry W.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135411	40,000/12	40,000/12	IF split-funding for ITD on PH grant
California - Riverside PARK, Stephen K.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrument Facility"	EAR0236468	146,411/36	68,213/12	1st yr incr on 3-yr cont grant for FS
California - Riverside SCHAAP, Marcel	"Development of a Feedback Syringe Pump Method for the Automated Determination of Unsaturated Hydraulic Conductivity Characteristics"	EAR0236750	189,853/24	82,439/12	1st yr incr on 2-yr cont grant for ITD
California - San Diego SEBER, Dogan	"TTR/IM: A National Earth Science Knowledge Node for Research and Education [PI transfer from EAR-0112655]"	EAR0352977	496,260/36	- 0 -	3rd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 100,000 and EAR/EHR = 50,000
California - San Diego STAUDIGEL, Hubertus	"Geochemical Earth Reference Model: GERM Workshop and Database Development"	EAR0230121	62,760/12	62,760/12	IF split-funding for ITD on CH grant
California - San Diego TAUXE, Lisa	"Physical Interpretation of Hysteresis Measurements through Numerical Simulation"	EAR0229498	20,000/12	20,000/12	IF split-funding for EA on PH grant
California - San Diego WEARE, John H.	"Acquisition and Development of a Computational Facility for the Simulation of the Chemical Properties of Ore Forming and Aluminosilicate Melts"	EAR0135654	369,290/36	70,000/12	2nd yr incr on 2-yr cont grant for ITD
California - Santa Cruz ZHAO, Xixi	"An Integrated Study of Paleointensity during Mesozoic and Tertiary using Dated Basalt, Submarine Basaltic Glass, and Single Plagioclase Crystals [supplement to EAR-0207389]"	EAR0244690	4,589/0	4,589/0	IF suppl for EA on PH grant
California Inst of Tech EILER, John M.	"Acquisition of Experimental Gas Source Mass Spectrometer for Stable Isotope Geochemistry"	EAR0220066	75,000/12	75,000/24	standard grant for EA
California Inst of Tech EILER, John M.	"Technician Support for the Stable Isotope Geochemistry Laboratory at Caltech [Phase I]"	EAR0091842	168,244/36	58,308/12	3rd yr incr on 3-yr cont grant for TS
California Inst of Tech FARLEY, Kenneth A.	"Development and Characterization of a Paul Ion Trap Optimized for Noble Gas Isotope Ratio Determinations"	EAR0318473	199,418/24	105,136/12	1st yr incr on 2-yr cont grant for ITD
California Inst of Tech SIMONS, Mark	"Collaborative Research: Interpreting High Resolution Geodetic Data with Viscoelastic Models"	EAR0229868	5,000/12	5,000/12	IF split-funding for EA on PH grant
California Inst of Tech WERNICKE, Brian P.	"Collaborative Research: Continuing Support for the Basin and Range Geodetic Network (BARGEN): Active Tectonics of Diffuse Intracontinental Deformation"	EAR0136102	24,000/12	24,000/12	IF split-funding for Other on CD grant
Carnegie Inst of Wash-DTM CARLSON, Richard W.	"MRI: Acquisition of a Thermal Ionization Mass Spectrometer for Studies in the Solid Earth and Planetary Sciences"	EAR0320589	414,584/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 414,584
Carnegie Inst of Wash-DTM CARLSON, Richard W.	"TTR/IM (EAR)-Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database"	EAR0312533	14,130/24	- 0 -	standard grant for Other; split-funded w/ EAR/GI = 14,130
Carnegie Inst of Wash-GL HEMLEY, Russell J.	"Development of the Next Generation Megabar High-Pressure Cells: A COMPRES Grand Challenge"	EAR0135626	946,761/36	187,959/12	2nd yr incr on 2-yr cont grant for ITD

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Carnegie Inst of Wash-GL HEMLEY, Russell J.	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135540	40,000/12	40,000/12	IF split-funding for ITD on PH grant
Carnegie Inst of Wash-GL MAO, Ho-kwang	"Development of New Diamond Cell Technology for Ultrahigh-Pressure Single-Crystal Structure Analysis Using X-ray Diffraction"	EAR0217389	403,257/36	90,022/12	3rd yr incr on 3-yr cont grant for ITD
Central Washington MELBOURNE, Timothy I.	"MRI: Acquisition of Long-Baseline Tiltmeters for Cascadia Slow Earthquakes"	EAR0320782	323,532/36	50/36	standard grant for EA; split-funded w/ OIA/MRI = 323,482
Central Washington MILLER, M. Meghan	"Contemporary Cascadia Deformation over Disparate Time Scales: Systematics of Slow Earthquakes and Fore-arc Impingement"	EAR0208214	66,300/12	66,300/12	IF split funding for TS on PH grant
Chicago BUFFETT, Bruce	"Inverting Observations of Hydromagnetic Vibrations of the Earth's Core for the Structure and Dynamics of the Core and Boundary Region"	EAR0309531	30,000/12	30,000/12	IF split-funding for EA on PH grant
Chicago HEINZ, Dion L.	"Experimental Determination of the Thermal Equations of State of Mantle and Core Materials"	EAR0309486	50,000/12	50,000/12	IF split-funding for EA on PH grant
Chicago RIVERS, Mark L.	"GeoSoilEnviroCARS: A National Resource for Earth, Planetary and Environmental Science Research at the Advanced Photon Source"	EAR0217473	9,585,256/60	1,600,000/12	2nd yr incr on 4-yr cont grant for FS
Chicago SHEN, Guoyin	"High Pressure Melting of the Earth's Core Material"	EAR0229987	10,000/12	10,000/12	IF split-funding for EA on PH grant
City Univ New York NEHM, Ross H.	"CAREER: Integrating Geoscience Research on the Neogene of the Dominican Republic with the Science Education of Dominican-American Teachers and Students in New York City"	EAR0238908	20,000/12	20,000/12	IF split-funding for EA on GE grant
Coastal Carolina HARRIS, Michael S.	"Collaborative Research: Acquisition of a Dual, Complementary Ground Penetrating Radar System for Geoscience Research and Teaching in South Carolina"	EAR0323338	63,475/24	- 0 -	on hold for FY '04 decision
Colgate SELLECK, Bruce W.	"MRI/RUI: Acquisition of a Scanning Electron Microscope and Energy Dispersive X-ray Spectrometer"	EAR0320639	179,700/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 154,700
Colorado BILHAM, Roger G.	"GPS Constraints on Inter-Plate and Intra-Plate Deformation of the Indian Subcontinent [supplement to EAR-0003449]"	EAR0324055	28,000/0	28,000/0	IF suppl for EA on PH grant
Colorado BILHAM, Roger G.	"Fault-creep or Strain-accumulation on Flat Surfaces of Decollement? A GPS Study on the Salt Range and Potwar Plateau of Pakistan"	EAR0229690	23,724/12	23,724/12	IF split-funding for EA on TE grant
Colorado FARMER, G. Lang	"ITR/IM (EAR)-Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database"	EAR0313319	79,918/24	- 0 -	1st yr incr on 2-yr cont grant for Other; split-funded w/ EAR/GI = 39,091
Colorado GUPTA, Vijay K.	"WCR: Designing a Pilot Study for Floods in the Walnut River Basin, KS, using a Scaling Framework"	EAR0233676	6,000/12	6,000/12	IF split-funding for EA on HS grant
Colorado LARSON, Kristine	"GPS Measurement Corrections for Geophysicists"	EAR0317973	128,515/24	- 0 -	on hold for FY '04 decision

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Colorado McCALL, Thomas M.	"Pathways for the Abiotic Formation of Organic Compounds in Geologic Environments"	EAR0229837	10,485/12	10,485/12	IF split-funding for EA on CH grant
Columbia - LDEO STARK, Colin P.	"A Stochastic Differential Equation Approach to Studying Landslide Failure and Size Distributions"	EAR0229846	5,000/12	5,000/12	IF split-funding for EA on GE grant
Connecticut CORMIER, Vernon F.	"Acquisition of Computational and Analytical Facilities for 3-Dimensional Imaging and Visualization in Geophysics, Petrology, and Hydrogeology"	EAR0236721	70,400/12	36,173/36	standard grant for EA
Cornell BROWN, Larry D.	"ITR: Electronic Library of Lithospheric Imagery from Deep Seismic Exploration (ELLIPSE)"	EAR0219069	150,843/24	- 0 -	2nd yr incr on 2-yr cont grant for Other; split-funded w/ EAR/ITR-small = 41,642
Dartmouth FENG, Xiahong	"Technician Support: Watershed Studies at Dartmouth College [Phase I]"	EAR0111403	141,700/36	49,505/12	3rd yr incr on 3-yr cont grant for TS
Delaware State GWANMESIA, Gabriel D.	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135431	20,000/12	20,000/12	IF split-funding for ITD on PH grant
Elizabeth City State PORTER, William	"MRI: The Acquisition of Instrumentation for Collaborative Learning and Student Research of Coastal Environments in Northeastern North Carolina"	EAR0321119	355,658/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 150,000 and ATM/MRI = 438
Florida CARTER, William E.	"Workshop on a Proposal to Establish and Operate a National Center for Airborne Laser Swath Mapping"	EAR0314680	38,606/4	10,106/6	standard grant for Other; split-funded w/ TE = 9,500, GE = 9,500 and HS = 9,500
Florida OPDYKE, Neil D.	"The Time Averaged Field at the Equator: Ecuador"	EAR0229130	900/12	900/12	IF split-funding for EA on PH grant
Florida SHRESTHA, Ramesh L.	"Collaborative Research: Facility Support to Establish and Operate the National Center for Airborne Laser Mapping (NCALM)"	EAR0236720	1,292,562/36	384,477/12	1st yr incr on 2-yr cont grant for FS
Florida International SAXENA, Surendra K.	"Development of High-Temperature Technique with Diamond Anvil Window Cells for use in Geophysical Sciences"	EAR0132270	827,024/36	106,791/12	2nd yr incr on 2-yr cont grant for ITD
Florida State WANG, Yang	"Acquisition of a Stable Isotope Ratio Mass Spectrometer"	EAR0236357	320,823/36	215,112/24	standard grant for EA
Georgia State GHAZI, A. Mohamad	"Support of the 3rd Annual International Conference on High Resolution Sector Field ICPMS"	EAR0226848	20,010/6	20,010/12	standard grant for Other
Harvard MUKHOPADHYAY, Sujoy	"Acquisition of a Mass Spectrometry System for Noble Gas Geochemistry at Harvard"	EAR0236594	209,499/12	209,499/24	standard grant for EA
Hawaii BEVIS, Michael G.	"Acquisition of New GPS Equipment in Support of the Central Andes GPS Project (CAP)"	EAR0214523	120,000/12	120,000/24	standard grant for EA
Hawaii GARCES, Milton A.	"Workshop Proposal for an Infrasound Consortium for Applied Research"	EAR0333031	39,834/12	9,936/12	standard grant for Other; split-funded w/ ATM/PM = 5,000
Hawaii HAMMER, Julia E.	"Acquisition of Equipment for an Experimental Petrology Laboratory"	EAR0236564	166,054/12	58,028/24	standard grant for EA; split-funded with EHR/EPSCoR = 83,027 and OCE/MGG = 25,000

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Hendrix DUNN, Robert W.	"MRI/RUI: Development of a Large Ring Laser Interferometer for Earth Science Measurements"	EAR0321183	256,602/48	- 0 -	standard grant for ITD; split-funded w/ OIA/MRI = 155,452 and EHR/EPSCoR = 101,150
Houston KHAN, Shuhab D.	"Collaborative Project: A GIS Database for Studying and Visualizing Tethyan Plate Collisions"	EAR0237999	96,513/24	49,100/12	1st yr incr on 2-yr cont grant for ITD
Houston MEURER, William P.	"Characterization of the End-Stages of Fractional Crystallization"	EAR0229702	5,000/12	5,000/12	IF split-funding for EA on CH grant
Illinois BASS, Jay D.	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135642	40,000/12	40,000/12	IF split-funding for ITD on PH grant
Illinois JOHNSON, Thomas M.	"MRI: Acquisition of a Multicollector Inductively Coupled Plasma Mass Spectrometer"	EAR0320597	493,640/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 493,640
Illinois STUCKI, Joseph W.	"Collaborative Research: Effects of Iron Redox Processes on Smectite Crystal Structures and Surface Chemistry [supplement to EAR-0126308]"	EAR0305732	20,000/0	20,000/0	IF suppl for EA on CH grant
Illinois - Chicago FLOWER, Martin F. J.	"Collaborative Research: A GIS Database for Studying and Visualizing Tethyan Plate Collisions"	EAR0238416	108,630/24	64,171/12	1st yr incr on 2-yr cont grant for ITD
Illinois - Chicago GUGGENHEIM, Stephen J.	"Collaborative Research: The Crystal Chemistry of Rock-Forming Chlorite"	EAR0308588	3,500/12	3,500/12	IF split-funding for EA on CH grant
Illinois - Chicago JOHNSON, Andrew E.	"ITR: Collaborative Research: The Geowall - Stereo Visualization for the Earth Sciences"	EAR0218918	282,541/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 94,148
Illinois - Chicago KENIG, Fabien	"Acquisition of an Isotope Ratio Mass Spectrometer for Continuous Flow Analyses of Carbon, Hydrogen, and Chlorine Isotopic Compositions of Organic Compounds"	EAR0318458	143,607/12	32,000/12	standard grant for EA; split-funded w/ OPP/AGG = 40,000, OCE/ODP = 30,000 and OCE/ITS = 30,000
Indiana SCHIEBER, Juergen	"Acquisition of a New Environmental SEM (ESEM) Optimized for Advanced Microcharacterization of Samples (EDS, EBSD, CL)"	EAR0318769	268,559/12	200,000/24	standard grant for EA
Indiana SCHIEBER, Juergen	"Experimental Mudstone Sedimentology: An Attempt at Reverse Engineering of Natural Processes"	EAR0308921	13,700/12	13,700/12	IF split-funding for EA on GE grant
Indiana SCHIMMELMANN, Arndt	"Acquisition of an Isotope Ratio Monitoring Mass Spectrometer for H, O, C, and N in Waters, Hydrrous Minerals, Carbonates, and Organic Materials, and an Accelerated Solvent Extractor"	EAR0214265	245,000/12	194,703/12	standard grant for EA
Internat Seismological Ctr WILLEMANN, Raymond J.	"Partial Support of the International Seismological Centre"	EAR0128053	635,421/48	181,504/12	2nd yr incr on 4-yr cont grant for FS
Iowa ADRAIN, Jonathan M.	"Collaborative Research: Patterns of Diversity and Faunal Turnover at a Late Cambrian Trilobite Extinction Event: Testing for Phylogenetic, Stratigraphic and Environmental Biases"	EAR0308685	7,000/12	7,000/12	IF split-funding for EA on GE grant
Iowa ILLMAN, Walter	"Collaborative Research: Fusion of Tomography Tests for DNAPL Source Zone Characterization: Technology Development and Validation"	EAR0229713	30,000/12	30,000/12	IF split-funding for EA on HS grant
Iowa State COHEN, Denise O.	"Collaborative Research: Toward an Erosion Rule for Glacial Quarrying: Modeling and Measurements"	EAR0229692	26,430/12	26,430/12	IF split-funding for EA on GE grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY03 Funding by IF/months	Comments
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan"	EAR0349522	76,291,841 /60	13,158,604 /12	3rd yr incr on CAGR EAR-0004370 for FS; split-funded w/ OPP/AGG = 29,533 for USAP project specific costs
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0301174	2,350,426 /0	113,226 /0	IF suppl for FS on IF CAGR; split-funded w/ interagency transfer from DOE = 2,237,200 for support of PASSCAL instrumentation
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0305463	56,648 /0	56,648 /0	IF suppl for Other on IF CAGR EAR-0004370 -- international workshop report on Neutrinos and Subterranean Science (NeSS 2002)
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0315501	474,763 /0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/OCE/ITS = 474,763 for operation and maintenance of the Hawaii-2 Observatory as a GSN station
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0314379	33,271 /0	- 0 -	IF suppl for Other on IF CAGR; split-funded w/ EHR = 33,271 for focused workshop on educational seismology in the U.S.
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0303560	184,086 /0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ OCE/ITS = 184,086 for upgrade of the Hawaii-2 Observatory junction box architecture
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0340783	199,055 /0	- 0 -	IF suppl for FS on IF CAGR; split-funded w/ OCE/ITS = 199,055 to support negotiations and arrangements for transfer of submarine AT&T cable systems and their spares for science
Juniata MUTTI, Laurence J.	"MRI/RUI: Acquisition of an Analytical LV/HV Scanning Electron Microscope for Enhancement of Research and Training in the Geological, Environmental, Biological and Material Sciences"	EAR0321060	354,074 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 300,000
Kansas GONZALEZ, Luis A.	"MRI: Acquisition of Isotope Ratio Mass Spectrometers and Related Peripherals for Geological, Paleoenvironmental and Environmental Research at the University of Kansas"	EAR0321213	629,301 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 150,000 and EHR/EPSCoR = 100,000
Kansas WALKER, J. Douglas	"ITR/IM (EAR)-Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database"	EAR0312880	309,932 /24	- 0 -	1st yr incr on 2-yr cont grant for Other; split-funded w/ EAR/GI = 151,499
Kentucky KENNER, Shelley J.	"Collaborative Research: Interpreting High Resolution Geodetic Data with Viscoelastic Models"	EAR0229793	5,000 /12	5,000 /12	IF split-funding for EA on PH grant
Kentucky RIMMER, Susan M.	"Terrestrial Carbon Sequestration in Devonian-Mississippian Anoxic Basins: Defining the Relative Importance of Higher Plants in Organic Accumulation in Marine Black Shales."	EAR0310072	14,400 /12	14,400 /12	IF split-funding for EA on GE grant
Louisville HADIZADEH, Jafar	"A Microstructural Study of Simulated and Natural Fault Gouge Using Digital Image Techniques"	EAR0229654	10,150 /12	10,150 /12	IF split-funding for EA on TE grant
Maine KOONS, Peter O.	"Numerical Facility in Geodynamics"	EAR0236756	32,085 /12	32,085 /36	standard grant for EA
Massachusetts WILLIAMS, Michael L.	"Development of an Optimized Electron Microprobe for Geochronologic and Trace Element Analysis [supplement to EAR-0004077]"	EAR0331484	60,860 /0	60,860 /0	IF suppl for ITD on IF grant



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Miami - Ohio PACEY, Gilbert E.	"MRI: Acquisition of a Scanning Electron Microscope for Nanotechnology Investigations"	EAR0320872	207,590/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 191,388
Miami - RSMAS GRASMUECK, Mark	"Development of a 'Real 3-D' GPR System for Geoscientific Imaging"	EAR0323213	271,284/24	- 0 -	on hold for FY '04 decision
Michigan BECKER, Udo	"The Proximity Effect on Semiconducting Mineral Surfaces"	EAR0309772	5,797/12	5,797/12	IF split-funding for EA on GE grant
Michigan VAN KEKEN, Peter E.	"ITR: Collaborative Research: The Geowall - Stereo Visualization for the Earth Sciences"	EAR0219246	193,280/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 64,477
Michigan WALTER, Lynn M.	"Acquisition of Replacement Equipment for the Experimental and Analytical Geochemistry Laboratory EAGL"	EAR0318037	292,024/36	- 0 -	on hold for FY '04 decision
Michigan State HYNDMAN, David W.	"WCR: Quantifying the Impact of Land Use and Climate Change on Groundwater/Surfacewater Interactions in Regional Great Lakes Watersheds"	EAR0233648	8,000/12	8,000/12	IF split-funding for EA on HS grant
Michigan Tech WATSON, Iain M.	"Development of a Gas Correlation Camera for Improved Ground-Based Monitoring of Volcanic SO2 Emissions"	EAR0321869	48,347/12	- 0 -	on hold for FY '04 decision
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism"	EAR0218384	1,896,496/60	376,681/12	2nd yr incr on 5-yr cont grant for FS
Minnesota ITO, Emi	"Acquisition of a Multi-Sensor Core-Logger in Support of the Multi-User LRC Core Facility"	EAR0319203	178,500/24	179,258/24	standard grant for EA
Minnesota WENTZCOVITCH, Renata M	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135533	40,000/12	40,000/12	IF split-funding for ITD on PH grant
Minnesota WENTZCOVITCH, Renata M	"Collaborative Research: Quantum Mechanical Modeling of Major Mantle Materials"	EAR0230319	6,900/12	6,900/12	IF split-funding for EA on PH grant
Mississippi State LYNCH, Francis	"Upgrading of the X-ray Diffractometer at Mississippi State University"	EAR0236748	48,825/12	24,413/24	standard grant for EA; split-funded w/ EHR/EPSCoR = 24,412
Missouri SANDVOL, Eric	"Collaborative Research: A GIS Database for Studying and Visualizing Tethyan Plate Collisions"	EAR0238199	91,763/24	51,888/12	1st yr incr on 2-yr cont grant for ITD
MIT HARVEY, Charles F.	"CAREER: Revisiting Two Basic Processes in Hydrogeology --- Solute Transport in Heterogeneous Formations and Chemical Mixing in Porous Media"	EAR9875995	1,000/12	1,000/12	IF split-funding for EA on HS grant
MIT KING, Robert W.	"GPS Data Processing Support for the UNAVCO Community"	EAR0317313	277,322/48	65,000/12	1st yr incr on 2-yr cont grant for ITD
MIT REILINGER, Robert E.	"Geodetic Deformation around the Mamara Sea, Turkey: Implications for Earthquake Deformation Cycle, and Earthquake Hazards in the Greater Istanbul Area"	EAR0310010	12,000/12	12,000/12	IF split-funding for EA on PH grant
Montana STANLEY, George D.	"Upper Triassic Terrane Faunas and their Use in Paleogeographic Comparisons within the Cordilleran Region"	EAR0229795	6,600/12	6,600/12	IF split-funding for EA on GE grant

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Mount Holyoke DYAR, Melinda D.	"RUI: Collaborative Research: Hydrogen and Ferric Iron in Felsic Melts"	EAR0229739	5,000/12	5,000/12	IF split-funding for EA on CH grant
Mount Holyoke MARKLEY, Michelle J.	"RUI: Fabric in Granite: The Vinalhaven and Cadillac Mountain Intrusive Complexes, Maine"	EAR0229269	7,299/12	7,299/12	IF split-funding for EA on TE grant
Nevada - DRI COOPER, Clay	"High Rayleigh Number Convection in Laboratory Porous Media"	EAR0309618	15,570/12	15,570/12	IF split-funding for EA on HS grant
New Mexico ASMEROM, Yemane	"Acquisition of a MC-ICPMS for Earth Sciences Research in New Mexico"	EAR0326902	450,100/12	250,100/12	1st yr incr on 2-yr cont grant for EA
New Mexico GEISSMAN, John W.	"Upgrade to the Superconducting Rock Magnetometer and Acquisition of a High-Sensitivity Susceptibility System, Paleomagnetism Laboratory [supplement to EAR-0213978]"	EAR0319009	5,600/0	5,600/0	IF suppl for EA on IF grant
New Mexico GEISSMAN, John W.	"Upgrade to the Superconducting Rock Magnetometer and Acquisition of a High-Sensitivity Susceptibility System, Paleomagnetism Laboratory [supplement to EAR-0213978]"	EAR0334348	1,385/0	1,385/0	IF suppl for EA on IF grant
New Mexico ROY, Mousumi	"Acquisition of Computers and Support for Geodynamic Modeling within an Existing Shared UNIX Facility"	EAR0318105	42,750/12	- 0 -	on hold for FY '04 decision
New Mexico SHARP, Zachary D.	"Acquisition of Automated Peripherals for the Stable Isotope Laboratory, University of New Mexico"	EAR0233689	36,188/24	36,188/24	standard grant for EA
New Mexico Tech MCPHERSON, Brian J.	"Acquisition of Computer Workstations Necessary for Hydrogeologic and Geophysical Research"	EAR0243442	27,584/12	27,584/12	standard grant for EA
New Orleans PAVLIS, Terry L.	"Crustal Structure of Strike-slip Fault Systems from a Down-Plunge Section in the Eastern Chugach Mountains, Alaska"	EAR0229939	4,000/12	4,000/12	IF split-funding for EA on TE grant
North Carolina CARTER, Joseph G.	"Early Evolution of Ligaments and Shell Microstructure in the Bivalvia, with a Comprehensive, Polythetic, Phylogenetic Analysis [supplement to EAR-0003431]"	EAR0306754	5,205/0	5,205/0	IF suppl for EA on GE grant
North Carolina GLAZNER, Allen F.	"ITR/IM (EAR)-Collaborative Research: Development of Data Visualization and Query Tools for NAVDAT, Western North American Volcanic and Intrusive Rock Database"	EAR0312691	93,288/24	- 0 -	1st yr incr on 2-yr cont grant for Other; split-funded w/ EAR/GI = 45,786
North Carolina State FODOR, Ronald V.	"Upgrading the ARL-SEMQ Electron Microprobe at North Carolina State University"	EAR0307257	42,300/12	- 0 -	on hold for FY '04 decision
North Iowa GROVES, John R.	"ITR: Collaborative Research: Web Tools for Global Time Scale Development: An Example from the Pennsylvanian-Cisuralian (Early Permian)"	EAR0218802	80,589/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 25,566
Northern Illinois LOUBERE, Paul W.	"MRI: Acquisition of an Isotope Ratio Mass Spectrometer for Geochemical, Biogeochemical and Petrological Research"	EAR0321004	205,527/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 205,527
Northwestern RUSSO, Raymond M.	"Seismic Attenuation and Anisotropy in the Carpathians and Adjacent Basins: Upper Mantle Role in the Last Stages of Tethyan Closure"	EAR0230336	1,500/12	1,500/12	IF split-funding for EA on PH grant

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Notre Dame NEAL, Clive R.	"MRI: Acquisition of a High Resolution, Magnetic Sector Inductively Coupled Plasma Mass Spectrometry (ICP-MS) Facility for the University of Notre Dame."	EAR0321161	431,060/12	8,000/12	standard grant for EA; split-funded w/ OIA/MRI = 310,000 and OCE/MGG = 40,000
Oglala Lakota SCHWALM, Albrecht	"MRI: Acquisition of Analytical Instrumentation for a Mobile Environmental Lab on the Pine Ridge Reservation"	EAR0321299	712,910/36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 214,805
Ohio State FOLAND, Kenneth A.	"Technician Support: Ohio State University, Radiogenic Isotopes Laboratory - Phase I"	EAR0137546	162,049/36	54,031/12	2nd yr incr on 3-yr cont grant for TS
Oklahoma LONDON, David	"Multicomponent Diffusion and Speciation Reactions of Major Melt Components, High Field Strength Elements, and Ligands in Haplogranite Melt [supplement to EAR-0124179]"	EAR0321876	26,628/0	26,628/0	IF suppl for EA on CH grant
Oklahoma WESTROP, Stephen R.	"Collaborative Research: Patterns of Diversity and Faunal Turnover at a Late Cambrian Trilobite Extinction Event: Testing for Phylogenetic, Stratigraphic and Environmental Biases"	EAR0309092	6,800/12	6,800/12	IF split-funding for EA on GE grant
Oregon ROERING, Joshua J.	"Quantifying Climatic Controls on Sediment Production and Hillslope Evolution"	EAR0309975	15,000/12	15,000/12	IF split-funding for EA on GE grant
Oregon State DRAGILA, Maria I.	"Reactive Convection Cells: A Mechanism for Transport and Precipitation of Salt in Fractures under Evaporative Conditions"	EAR0208384	34,400/12	34,400/12	IF split-funding for EA on HS grant
Oregon State EGBERT, Gary D.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrumentation Facility"	EAR0236788	59,016/36	18,537/12	1st yr incr on 3-yr cont grant for FS
Oregon State KENT, Adam	"MRI: Collaborative Research: Acquisition of an Electron Microprobe for Oregon State University with Remote Access Facilities for Portland State University"	EAR0320806	539,785/36	- 0 -	1st yr incr on 2-yr cont grant for EA; split-funded w/ OCE/MGG = 187,000
Penn State FREEMAN, Katherine H.	"Technician Support: The Penn State Stable-Isotope Biogeochemistry Laboratory [Phase I]"	EAR0092002	210,000/36	70,000/12	3rd yr incr on 3-yr cont grant for TS
Penn State VOIGHT, Barry	"Collaborative Research: Magma Reservoir-Conduit Dynamics Revealed by Borehole Geophysical Observatory and Continuous GPS [supplement to EAR-0116826]"	EAR0321489	15,000/0	15,000/0	IF suppl for EA on CD grant
Penn State WILF, Peter D.	"Acquisition of Equipment for a Paleobotany Laboratory at Penn State"	EAR0236489	58,461/12	42,130/24	standard grant for EA
Pittsburgh CAPO, Rosemary C.	"Technician Support: Geochemistry Laboratories at the University of Pittsburgh, Phase I"	EAR0214212	118,347/36	39,459/12	2nd yr incr on 3-yr cont grant for TS
Pittsburgh RAMSEY, Michael S.	"Emission Spectroscopy of Silicic Lavas: Implications for Dome Processes and Hazards"	EAR0309631	18,000/12	18,000/12	IF split-funding for EA on CH grant
Portland State CADY, Sherry L.	"Facilities Upgrades to the Geomicrobiology and Electron Microscopy Laboratory at Portland State University"	EAR0318506	116,830/12	- 0 -	on hold for FY '04 decision
Portland State STRECK, Martin J.	"MRI: Collaborative Research: Acquisition of an Electron Microprobe for Oregon State University with Remote Access Facilities for Portland State University"	EAR0320863	0/36	- 0 -	standard grant for EA; split-funded w/ OCE/MGG = 1
Princeton BUNGE, Hans-Peter	"ITR/AP: A Finite Element Geodynamo Model Optimized for High-Speed Beowulf PC-Clusters"	EAR0113050	496,270/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 87,079

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Princeton SMITH, James A.	"WCR: The Hydrology of Extreme Floods in Mountain Watersheds"	EAR0233618	3,000/12	3,000/12	IF split-funding for EA on HS grant
Purdue CAFFEE, Marc	"Facility Support: The Purdue Rare Isotope Measurement Laboratory"	EAR0242797	2,266,145/36	746,853/12	1st yr incr on 2-yr cont grant for FS
Purdue ELMORE, David	"Facility Support: The Purdue Rare Isotope Measurement Laboratory [supplement to EAR-0112480]"	EAR0243611	88,100/2	88,100/2	IF suppl for FS on IF grant
Purdue KING, Scott D.	"Acquisition of a Cluster Computer for Geodynamics Research"	EAR0317638	76,800/24	- 0 -	on hold for FY '04 decision
Rensselaer Polytech Inst SPEAR, Frank S.	"MRI: Establishment of a Microanalytical Laboratory for Research in the Earth and Materials Sciences"	EAR0320995	933,582/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 550,000
Rensselaer Polytech Inst WILLIAMS, Charles A.	"ITR: Development of an Integrated Tool for Modeling Quasi-static Deformation in the Solid Earth"	EAR0313238	331,456/36	- 0 -	standard grant for Other; split-funded w/ EAR/ITR-small = 23,000 and ATM/ITR-small = 277,000
Rensselaer Polytech Inst WILLIAMS, Charles A.	"ITR/AP: Development of Interactive Web-based Tools for Modeling Deformation at Subduction Zones"	EAR0113713	480,938/36	- 0 -	3rd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 131,165
Rhode Island HERMES, O. D.	"New X-Ray Fluorescence Spectrometer for the University of Rhode Island XRF Laboratory"	EAR0236617	159,686/12	82,265/24	standard grant for EA; split-funded w/ OCE/MGG = 27,421
Rice LUTTGE, Andreas	"Upgrade of the JEOL JSM-840 Scanning Microscope"	EAR0236761	37,690/12	37,690/24	standard grant for EA
Rochester ANBAR, Ariel D.	"Upgrade of MC-ICP-MS Instrumentation"	EAR0323581	163,645/12	- 0 -	on hold for FY '04 decision
Rochester BASU, Asish R.	"Request for a Technical Associate to Support the Isotope Geochemistry Laboratories at the University of Rochester-Phase II"	EAR0132389	137,500/24	69,766/12	2nd yr incr on 2-yr cont grant for TS
Rochester GARZIONE, Carmala N.	"Acquisition of a Gas Source Isotope Ratio Mass Spectrometer for the Department of Earth and Environmental Sciences at the University of Rochester"	EAR0317825	158,714/24	- 0 -	on hold for FY '04 decision
Rochester TARDUNO, John A.	"Acquisition of a Sensitive Magnetic Susceptibility System and a Reflected Light Microscope for Studies of Self-Reversal in Titanomaghemite"	EAR0236383	50,899/24	50,899/24	standard grant for EA
Rutgers FEIGENSON, Mark D.	"Acquisition of a Multicollector Thermal Ionization Mass Spectrometer"	EAR0213239	270,000/24	180,000/24	standard grant for EA; split-funded w/ OCE/MGG = 30,000, OCE/ODP = 30,000 and OCE/ITS = 30,000
San Diego State HANAN, Barry B.	"An Acquisition of a Multi-Collector-Inductively Coupled Plasma-Mass Spectrometer [supplement to OCE-0079943]"	OCE0311176	38,625/12	38,625/24	IF suppl for EA on OCE grant
Scripps College MCFARLANE, Donald A.	"Acquisition of Ion Chromatograph for Fluorine Relative Dating of Quaternary Fossil Bone"	EAR0317279	19,968/12	- 0 -	on hold for FY '04 decision
Simon's Rock of Bard BERGMAN, Michael I.	"RUI: A Laboratory Model for the Solidification of the Earth's Core"	EAR0229670	3,700/12	3,700/12	IF split-funding for EA on PH grant

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Smithsonian-Astrophys Obs DAVIS, James L.	"Collaborative Research: Continuing Support for the Basin and Range Geodetic Network (BARGEN): Active Tectonics of Diffuse Intracontinental Deformation"	EAR0135457	13,000/12	13,000/12	IF split-funding for Other on CD grant
Smithsonian-NMNH ERWIN, Douglas H.	"Workshop: Calibration of Earth History"	EAR0337327	10,000/6	10,000/6	IF split-funding for Other on GE grant
Smithsonian-NMNH SIMS, Hallie J.	"Extinction and Recovery in Terrestrial Ecosystems across the Permian-Triassic Boundary in South Africa"	EAR0230024	4,190/12	4,190/12	IF split-funding for EA on GE grant
South Carolina DIACONESCU, Camelia C.	"Collaborative Research: Acquisition of a Dual, Complementary Ground Penetrating Radar System for Geoscience Research and Teaching in South Carolina"	EAR0323293	61,966/24	- 0 -	on hold for FY '04 decision
South Carolina VOULGARIS, George	"Intertidal Marsh Hydrology and Geomorphology"	EAR0229358	22,450/12	22,450/12	IF split-funding for EA on HS grant
South Carolina YOGODZINSKI, Gene M.	"Acquisition of a Quadrupole ICP Mass Spectrometer for the Department of Geological Sciences and Marine Science Program at the University of South Carolina"	EAR0236481	173,268/36	64,975/36	standard grant for EA; split-funded w/ EHR/EPSCoR = 86,634 and OCE/MGG = 21,659
Southern California KU, Teh-Lung	"Collaborative Research (USC and UT): A Study of Naturally Occurring Decay-Series Isotopes as Quantitative Hydro-Geochemical Tracers"	EAR0229208	7,208/12	7,208/12	IF split-funding for EA on HS grant
Southern Illinois FERRE, Eric C.	"Collaborative Research: Origin of High Magnetic Remanence in Fault Pseudotachylites"	EAR0228818	1,000/12	1,000/12	IF split-funding for EA on PH grant
Southern Methodist JACOBS, Bonnie F.	"Acquisition of a Variable Pressure Scanning Electron Microscope for Multiple Use in Research and Education"	EAR0240251	209,260/36	209,260/24	standard grant for EA
Stanford CHAMBERLAIN, C. P.	"Phase II: Technician Support for Gas-Isotope Ratio Mass Spectrometer Laboratory at Stanford University"	EAR0217128	139,780/24	69,890/12	2nd yr incr on 2-yr cont grant for TS
Stanford HADLY, Elizabeth A.	"Mapping the Origin of Terrestrial Faunal Assemblages Using Strontium Isotopes"	EAR0310337	5,000/12	5,000/12	IF split-funding for EA on GE grant
Stanford STEBBINS, Jonathan F.	"Upgrade of a 400 MHz NMR Spectrometer for Research on Solid and Molten Materials in the Earth and Materials Sciences"	EAR0235360	218,534/24	218,534/24	standard grant for EA
SUNY - Buffalo JANKOVIC, Igor	"TTR: Virtual Porous Medium for Modeling Contaminant Spreading in Groundwater"	EAR0218914	482,344/48	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 87,530
SUNY - Buffalo SULTAN, Mohamed I.	"Collaborative Research: A GIS Database for Studying and Visualizing Tethyan Plate Collisions"	EAR0237481	102,072/24	49,326/12	1st yr incr on 2-yr cont grant for ITD
SUNY - Stony Brook HOLT, William E.	"Integrating Lithospheric Dynamics, Geophysical Observations, and Three-Dimensional Whole Earth Dynamics"	EAR0310193	15,000/12	15,000/12	IF split-funding for EA on PH grant
SUNY - Stony Brook LI, Baosheng	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135550	40,000/12	40,000/12	IF split-funding for ITD on PH grant
SUNY - Stony Brook PHILLIPS, Brian L.	"A F-19 NMR Probe of Mineral Surface Reactivity"	EAR0310200	32,045/12	32,045/12	IF split-funding for EA on CH grant

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SUNY - Stony Brook WEIDNER, Donald J.	"Consortium for Materials Properties Research in the Earth Sciences"	EAR0332131	13,561,585/60	2,199,158/12	2nd yr incr on 5-yr CAGR EAR-0135554 for FS
SUNY - Stony Brook WEIDNER, Donald J.	"Consortium for Materials Properties Research in the Earth Sciences [supplement to EAR CAGR-0135554]"	EAR0311947	166,838/0	166,838/0	IF suppl for FS on CAGR EAR-0135554
SUNY - Stony Brook WEIDNER, Donald J.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135551	60,000/12	60,000/12	IF split-funding for ITD on PH grant
Syracuse BALDWIN, Suzanne L.	"Technician Support: Syracuse University Noble Gas Isotope Research Laboratory (SUNGIRL)"	EAR0130833	210,000/36	50,000/12	2nd yr incr on 3-yr cont grant for TS; split-funded w/ OPP/AGG = 20,000
Tennessee MORA, Claudia I.	"Technician Support: Stable Isotope Laboratory at the University of Tennessee [Phase I]"	EAR0004104	126,730/36	43,498/12	3rd yr incr on 3-yr cont grant for TS
Tennessee THONNARD, Norbert	"Development Completion of Rare Krypton Isotope Analysis for the Geosciences and First Validation Measurements"	EAR0119110	376,347/36	126,084/12	3rd yr incr on 3-yr cont grant for ITD
Texas BUCKLEY, Sean M.	"TTR: Post-Processing Strategies for Radar Differential Interferometry"	EAR0219293	98,893/36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/TTR-small = 31,952
Texas CARLSON, William D.	"Facility Support: High Resolution X-Ray Computed Tomography Laboratory"	EAR0004082	386,294/36	134,518/12	3rd yr incr on 3-yr cont grant for FS
Texas - El Paso KELLER, George R.	"TTR/IM+AP: Collaborative Project-Creation of a Geospatial Data System for the Transition Zone Between the Colorado Plateau and Basin & Range Provinces (Geoinformatics in Action)"	EAR0112968	249,381/36	- 0 -	3rd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/TTR-small = 67,434
Texas A&M GROSSMAN, Ethan L.	"MRI: Acquisition of Stable Isotope Facilities for Geologic Research at Texas A&M University"	EAR0321278	252,907/24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 152,907 and OCE/MRI = 100,000
Trinity GEISS, Christoph E.	"MRI: Acquisition of Equipment for Rock-Magnetism Laboratory Upgrade"	EAR0320976	237,910/12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 83,310
UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities"	EAR0309246	10,520,000/48	1,843,000/12	4th yr incr on 4-yr CAGR ATM-9732665/SPO#2 EAR-9903413 for FS
UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities [supplement to CAGR ATM-9732665 SPO #2 EAR-9903413]"	EAR0335456	974,594/0	298,857/0	IF suppl for FS on ATM CAGR; split-funded w/ interagency transfer from NASA = 669,200 for SENH and IGS activities and PH = 6,537 for project specific support
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities [supplement to CAGR ATM-9732665 SPO #2 EAR-9903413]"	EAR0302406	293,000/0	- 0 -	IF suppl for FS on ATM CAGR; split-funded w/ OPP/USAP = 116,920, OPP/ASS = 81,118, OPP/Glaciology = 40,180, OPP/AGG = 29,400 and OPP/ABM = 24,500 for support of USAP and Artic field research programs
UNAVCO, Inc. DAVIS, James L.	"Support for UNAVCO, Inc. Headquarter Operations"	EAR0229402	711,354/14	558,991/12	2nd yr incr on 2-yr cont grant for FS
UNAVCO, Inc. JOHNS, Bjorn	"Acquisition of New GPS Equipment for the UNAVCO Community Pool in Support of Current and Emerging Solid-Earth Sciences Research Applications"	EAR0214355	375,250/36	107,750/12	1st yr incr on 3-yr cont grant for EA

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY03 Funding by IF/months	Comments
UNAVCO, Inc. JOHNS, Bjorn	"Acquisition of New GPS Equipment for the UNAVCO Community Pool in Support of Current and Emerging Solid-Earth Sciences Research Applications [supplement to EAR-0214355]"	EAR0334174	59,970/0	- 0 -	IF suppl for EA on IF grant; split-funded w/ OPP/Glaciology = 59,970
UNAVCO, Inc. PRESCOTT, William H.	"Support of UNAVCO Community and Facility Activities"	EAR0321760	13,009,777/48	149,200/3	1st 3-mo incr on 51-mo CAGR EAR-0321760 for FS; split-funded w/ interagency transfer from NASA = 286,800 for SENH and IGS activities
UNAVCO, Inc. PRESCOTT, William H.	"Support for Existing Western U.S. GPS Networks"	EAR0318549	10,352,310/60	- 0 -	standard grant for FS; split-funded w/ EAR/ES = 2,782,290 for 18 mo
Utah WANNAMAHER, Philip E.	"Collaborative Research: Electromagnetic Studies of the Continents (EMSOC): National Instrument Facility"	EAR0236553	99,649/36	56,324/12	1st yr incr on 3-yr cont grant for FS
Virginia NEUPAUER, Roseanna M.	"CAREER: Wavelet Analysis of Scale Effects on Subsurface Flow and Transport"	EAR0237702	2,990/12	2,990/12	IF split-funding for EA on HS grant
Virginia Tech BODNAR, Robert J.	"Upgrading of the Vibrational Spectroscopy Laboratory at Virginia Tech"	EAR0322119	296,010/12	- 0 -	on hold for FY '04 decision
Virginia Tech ROSS, Nancy L.	"A Study of the Incorporation of Water in Earth Materials Based on Electron Density Distributions"	EAR0229472	14,000/12	14,000/12	IF split-funding for EA on CH grant
Washington BOOKER, John R.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrumentation Facility"	EAR0236538	128,687/36	51,444/12	1st yr incr on 3-yr cont grant for FS
Washington CHOPELAS, Anastasia	"Anharmonicity and Phase Transitions of Mantle Phases Using Simultaneous High Pressure-High Temperature Raman Spectroscopy in the Laser Heated Diamond Cell [supplement to EAR-0296205]"	EAR0300163	28,591/0	28,591/0	IF suppl for EA on CH grant
Washington GHIORSO, Mark S.	"ITR: Proposal for Developing a Distributed Computing Infrastructure for Computational Thermodynamics with Applications to Geochemistry and Petrology"	EAR0218634	489,094/48	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 119,552
Washington State WOLFF, John A.	"Acquisition of an X-ray Fluorescence Spectrometer"	EAR0216928	176,135/12	176,135/24	standard grant for EA
WHOI HIRTH, J. Gregory	"Textural Analyses of Naturally Deformed Peridotite and Gabbro: Implications for the Interpretation of Geophysical Data and the Rheology of the Lithosphere"	EAR0230267	6,300/12	6,300/12	IF split-funding for EA on PH grant
WHOI KURZ, Mark D.	"Phase II Technician Support for Noble Gas Geochemistry"	EAR0132265	139,370/24	69,690/12	2nd yr incr on 2-yr cont grant for TS; split-funded w/ OPP/MGG = 20,000
WHOI PEUCKER-EHRENBRINK,	"Technician Support for the WHOI ICPMS Facility"	EAR0318137	224,200/36	- 0 -	on hold for FY '04 decision
WHOI ROBERTS, Mark	"Collaborative Research: AMS Ion Source Development at University of California, Irvine, Woods Hole Oceanographic Institution, University of Arizona, and National Electrostatics Corp"	EAR0324752	36,323/24	- 0 -	standard grant for ITD; split-funded with OCE/ITS = 36,323
Wisconsin ALUMBAUGH, David L.	"Collaborative Research: Electromagnetic Studies of Continents (EMSOC) National Instrumentation Facility"	EAR0236301	10,667/36	10,667/12	standard grant for FS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY03 Funding by IF/months	Comments
Wisconsin DEMETS, Dennis C.	"A GPS Study of the Large-Scale Neotectonics of Northern Central America"	EAR0309839	25,000/12	25,000/12	IF split-funding for EA on TE grant
Wisconsin HOOYER, Thomas	"Collaborative Research: Toward an Erosion Rule for Glacial Quarrying: Modeling and Measurements"	EAR0229526	6,500/12	6,500/12	IF split-funding for EA on GE grant
Wisconsin JOHNSON, Clark M.	"Technician Support: Request for Phase 1 for MC-ICP-MS Laboratory"	EAR0318213	194,559/36	- 0 -	on hold for FY '04 decision
Wisconsin SHAFFER, Martin M.	"Metal Binding Ligands: Evolution, Transport, and Transformations Along Hydrologic Flowpaths"	EAR0229650	12,000/12	12,000/12	IF split-funding for EA on HS grant
Wisconsin SINGER, Bradley S.	"Technician Support for University of Wisconsin Rare Gas Geochronology Laboratory [Phase I]"	EAR0114055	128,688/36	45,012/12	3rd yr incr on 3-yr cont grant for TS
Wisconsin VALLEY, John W.	"Zircons are Forever [supplement to EAR-0207340]"	EAR0331120	10,510/0	10,510/0	IF suppl for EA on CH grant
Wisconsin VALLEY, John W.	"MRI: Acquisition of an Ion Microprobe for Stable Isotope Analysis"	EAR0319230	2,000,000/36	- 0 -	1st yr incr on 2-yr cont grant for EA; split-funded w/ OIA/MRI = 1,378,791
Wyoming MOROZOV, Igor B.	"Obtaining a Unique, Comprehensive Deep Seismic Sounding Upper-Mantle Data Set for Broad Seismological and CTBT Monitoring Community"	EAR0092744	365,526/48	45,000/12	2nd yr incr on 4-yr cont grant for Other
Wyoming MOROZOVA, Elena	"Preservation of Seismic Reflection Data from the University of Wyoming"	EAR0214397	180,616/24	43,507/12	standard grant for Other
Yale EVANS, David A.	"Acquisition of a Cryogenic Magnetometer and Demagnetization Devices, with Applications toward Global Geodynamics, Long-Term Paleoclimate, Regional Tectonics, and Stratigraphy"	EAR0319172	172,710/12	172,710/12	standard grant for EA
Yale EVANS, David A.	"SWEAT, AUSWUS, AUSMEX, or Other? Testing Proterozoic Supercontinent Reconstructions by Refining 1.8-1.6 Ga Apparent Polar Wander Paths from Laurentia and Australia"	EAR0310922	7,400/12	7,400/12	IF split-funding for EA on TE grant
Yale KARATO, Shun-ichiro	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0136181	70,000/12	70,000/12	IF split-funding for ITD on PH grant
Yale LEE, Xuhui	"Development and Application of In-Situ Measurement of Water Vapor Isotopes for Hydrological and Ecological Research"	EAR0229343	30,000/12	30,000/12	IF split-funding for EA on HS grant
Yale REINERS, Peter W.	"Technician Support for the Yale (U-Th)/He Chronometry Facility"	EAR0233767	161,719/36	51,404/12	1st yr incr on 3-yr cont grant for TS
Yale REINERS, Peter W.	"CAREER: Innovative (U-Th)/He Chronometry and Integration with Student Teaching and Research"	EAR0236965	29,400/12	29,400/12	IF split-funding for EA on CH grant



## **ABBREVIATIONS and EXPLANATIONS**

<b>AAS =</b>	Archaeology, Archaeometry and Systematic Collections Program in SBER	<b>FY =</b>	Federal fiscal year e.g., FY94: 10/1/93 to 9/30/94
<b>ABM =</b>	Antarctic Biology & Medicine Program in OPP	<b>GE =</b>	Geology and Paleontology Program in EAR
<b>AFOSR =</b>	Air Force Office of Scientific Research	<b>GEO =</b>	Directorate for Geosciences at NSF
<b>AG =</b>	Antarctic Glaciology Program in OPP	<b>GI =</b>	GeoInformatics Program in EAR
<b>AGG =</b>	Antarctic Geology and Geophysics Program in OPP	<b>GL =</b>	Geophysical Laboratory in CIW
<b>ANS =</b>	Arctic Natural Sciences Program in OPP	<b>GPS =</b>	Global Positioning System
<b>AO =</b>	Astronomical Observatory of the Smithsonian Institution	<b>GSN =</b>	Global Seismographic Network of IRIS
<b>AP =</b>	Applications in Science and Engineering Technical Area of ITR	<b>GSO =</b>	Graduate School of Oceanography, University of Rhode Island
<b>ARCSS =</b>	Arctic System Sciences Program in OPP	<b>HRTEM =</b>	high-resolution TEM
<b>ARSL =</b>	Arctic Research Support & Logistics Program in OPP	<b>HS =</b>	Hydrologic Sciences Program in EAR
<b>ASL =</b>	Albuquerque Seismology Laboratory of the USGS	<b>ICP-AE =</b>	Inductively coupled plasma-atomic emission spectrometer
<b>ASS =</b>	Arctic Social Sciences Program in OPP	<b>ICP-MS =</b>	Inductively coupled plasma-mass spectrometer
<b>ATM =</b>	Division of Atmospheric Sciences in GEO	<b>IF =</b>	Instrumentation and Facilities Program in EAR
<b>BNL =</b>	Brookhaven National Laboratory	<b>IM =</b>	Information Management Technical Area of ITR
<b>CAGR =</b>	Cooperative Agreement	<b>IMR =</b>	Instrumentation for Materials Research Program in DMR
<b>CD =</b>	Continental Dynamics Program in EAR	<b>incr =</b>	an annual increment of funds to an active NSF grant
<b>CD-ATM =</b>	Climate Dynamics Program in ATM	<b>INT =</b>	Division of International Programs in SBE
<b>CEES =</b>	Center for Environmental Sciences at the University of Maryland	<b>IRIS =</b>	Incorporated Research Institutions for Seismology
<b>CH =</b>	Geochemistry and Petrology Program in EAR	<b>ISS =</b>	Impulsive Stimulated Scattering
<b>CHE =</b>	Chemical Instrumentation Program in MPS	<b>ITD =</b>	Instrument and Technique Development component of IF Program
<b>CIW =</b>	Carnegie Institution of Washington	<b>ITR =</b>	Information Technology Research Program
<b>CO =</b>	Chemical Oceanography Program in OCE	<b>ITR-small =</b>	allocation for class of ITR proposals requesting <= \$500k
<b>COMPRES =</b>	Consortium for Materials Properties Research in the Earth Sciences	<b>ITS =</b>	Oceanographic Instrumentation and Technical Service Program in OCE
<b>cont grant =</b>	continuing grant, a multi-year grant funded one year at a time	<b>IUPU =</b>	Indiana University - Purdue University system
<b>CRDF =</b>	U.S. Civilian Research and Development Foundation	<b>KNET =</b>	Kyrgyz Broad-Band Seismograph Network
<b>CSEDI =</b>	Cooperative Studies of the Earth's Deep Interior Program in EAR	<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>MC-ICP-MS =</b>	multicollector ICP-MS
<b>DMI =</b>	Division of Design, Manufacture & Industrial Innovation in ENG	<b>MGG =</b>	Marine Geology and Geophysics Program in OCE
<b>DMR =</b>	Division of Materials Research in MPS	<b>MPS =</b>	Directorate for Mathematics and Physical Sciences at NSF
<b>DOD =</b>	Department of Defense	<b>MRI =</b>	Major Research Instrumentation Program in OIA
<b>DR =</b>	Director's Reserve Account in EAR	<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>NMNH =</b>	National Museum of Natural History of the Smithsonian Institution
<b>EA =</b>	Equipment Acquisition component of IF Program	<b>NOAA =</b>	National Oceanic and Atmospheric Administration within U.S. Department of Commerce
<b>EAR =</b>	Division of Earth Sciences in GEO	<b>NOS =</b>	National Ocean Service in NOAA
<b>EH =</b>	Education & Human Resources Program in EAR	<b>NSLS =</b>	National Synchrotron Light Source at BNL
<b>EHR =</b>	Directorate for Education and Human Resources at NSF	<b>OBES =</b>	Office of Basic Energy Sciences in the U.S. Department of Energy
<b>ENG =</b>	Directorate for Engineering at NSF	<b>OCE =</b>	Division of Ocean Sciences in GEO
<b>EPSCoR =</b>	Experimental Program to Stimulate Competitive Research in EHR	<b>ODP =</b>	Ocean Drilling Program in OCE
<b>ES =</b>	EarthScope Science Program in EAR	<b>OIA =</b>	Office of Integrative Activities at NSF
<b>FS =</b>	Facility Support component of IF Program		

**OMA** = Office of Multidisciplinary Activities at NSF  
**OPP** = Office of Polar Programs at NSF  
**OT** = Oceanographic Technology Program in OCE  
**Other** = includes categories other than EA, FS, ITD and TS (e.g., workshops, research projects etc.)  
**PC** = Paleoclimate program in ATM  
**PE** = People and Social Groups Interacting with Computers and Infrastructure Technical Area of ITR  
**PH** = Geophysics Program in EAR  
**PM** = Physical Meteorology Program in ATM  
**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  
**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  
**TEA** = Teaching Experiences in the Arctic  
**TEM** = transmission electron microscopy  
**TIMS** = thermal ionization mass spectrometry  
**TS** = Technician Support component of IF Program  
**UCAR** = University Consortium for Atmospheric Research  
**UNAVCO** = University NAVSTAR Consortium  
**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-2003

<u>PROPOSALS</u>		<u>DOLLARS</u>	
Total number of proposals processed by IF .....	334	Total dollars requested of IF (per year for multi-year proposals) .....	66,669,354
Logged-in to IF as primary program .....	237	Total awarded through IF actions in FY-2003 .....	48,047,259
New proposals; full review by IF .....	166	Awarded from IF budget .....	31,960,175
Declined .....	64	For equipment acquisition/upgrade (EA) .....	5,291,045
Funded entirely from IF budget .....	48	For instr and technique development (ITD) .....	1,598,073
Split-funded with other programs ..	36	For facility support (FS) .....	23,373,425
Held over for FY'04 decision .....	17	For technician support (TS) .....	1,052,443
Awards Cancelled .....	1	Other (workshops, REU, etc.) .....	645,189
New proposals; withdrawn before review .....	8	Awarded from other NSF budgets through split-funding ..	12,839,884
New proposals; returned w/o review .....	1	For equipment acquisition/upgrade (EA) .....	6,513,026
Other award actions (incr, suppl, etc) .....	62	For instr and technique development (ITD) .....	329,810
Funded entirely from IF budget .....	37	For facility support (FS) .....	4,001,653
Split-funded with other programs .....	25	For technician support (TS) .....	55,000
Logged-in to other NSF programs; IF-split-funding .....	97	Other (workshops, REU, etc.) .....	1,940,395
		Awarded through interagency transfers .....	3,193,200
		For facility support (FS) .....	3,193,200