



NATIONAL SCIENCE FOUNDATION
4201 Wilson Boulevard, Arlington VA 22230

Division of Earth Sciences
Instrumentation and Facilities Program

Summary of All FY-2001 Actions Leading to AWARDS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY01 Funding by IF/months	Comments
Akron PECK, John A.	"Acquisition of Basic Environmental Magnetism Laboratory Equipment"	EAR0110840	106,107 /12	106,107 /24	standard grant for EA
Alaska FAUST-LARSEN, Jessica	"Experimental Study of Bubble Size Distribution in Rhyolitic and Phonolitic Melts: Implications for Vessicle Size Distribution in Pumice [supplement to EAR-0074127]"	EAR0104228	11,756 /0	11,756 /0	IF suppl to CH grant for EA
Appalachian State HAGEMAN, Steven J.	"RUI: Acquisition of an Environmental Scanning Electron Microscope (ESEM) and Energy Dispersive Spectrometer (EDS)"	EAR0111471	233,622 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 233,622
Arizona BUTLER, Robert F.	"Expanding Capabilities for the University of Arizona Paleomagnetism Laboratory"	EAR0105226	51,771 /12	51,771 /12	standard grant for EA
Arizona DOWNS, Robert T.	"ITR/IM: The Crystal Structure Database and Analysis Tools Project"	EAR0112782	450,111 /36	100,000 /36	standard grant for Other; split-funded w/ EAR/ITR-small = 250,000
Arizona JULL, A. J. Timothy	"NSF Arizona AMS Laboratory: Research Programs and Operations"	EAR0115488	2,674,135 /60	289,957 /12	1st yr incr on 3-yr cont grant for FS; split-funded w/ SBE/AAS = 210,000
Arizona NEUMAN, Shlomo	"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 -	1st yr incr on 4-yr cont grant for Other; split-funded w/ EAR/ITR-small = 100,000
Arizona QUADE, Jay	"Technician Support: Gas-Source Mass Spectrometry Laboratories - Phase II"	EAR0002134	124,230 /24	63,630 /12	2nd yr incr on 2-yr cont grant for TS
Arizona State ARROWSMITH, 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 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 68,688
Arizona State BUSECK, Peter R.	"Technician Support for Geoscience Research in Transmission Electron Microscopy [Phase I]"	EAR0113345	210,002 /36	70,000 /12	1st 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	1st yr incr on 3-yr cont grant for TS
Arizona State GARVIE, Laurence A. J	"Development of Electron Energy-Loss Spectroscopy (EELS) as a Trace-Element Probe in the Geosciences"	EAR0087714	13,860 /12	13,860 /12	IF split-funding for EA on CH grant
Arizona State HERVIG, Richard L.	"Development of a Technique to Maximize the Useful Yield in SIMS Analyses of Minerals and Glasses"	EAR0091796	66,317 /24	34,661 /12	1st yr incr on 2-yr cont grant for ITD

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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	1st yr incr on 3-yr cont grant for TS
Arizona State TYBURCZY, James A.	"Acquisition of Electrical Impedance Analyzer for the ASU Geological Sciences Mineral and Rock Physics Laboratory"	EAR0092412	35,688 /24	35,688 /24	standard grant for EA
Arkansas JANSMA, Pamela E.	"Collaborative Research: Magma Reservoir-Conduit Dynamics as Revealed by a Borehole Geophysical Observatory and Continuous GPS"	EAR0116485	703,208 /36	- 0 -	on hold for FY '02 decision
Boston FITZGERALD, Duncan M.	"MRI: Acquisition of Near-Surface Geophysical and Sampling Equipment for Earth Surface Processes and Quaternary Stratigraphic Research [supplement to EAR-0079588]"	EAR0107201	4,182 /0	4,182 /0	IF suppl to OIA/MRI grant for EA
Boston MURRAY, Richard W.	"Sequential Extractions of Excess Metals in Biogenic Sediment: Examining Compositional Associations and Particle Flux Rate Influences [supplement to OCE-9818713]"	OCE0107931	10,037 /0	10,037 /0	IF suppl to OCE/MGG grant for EA
Brigham Young NELSON, Stephen T.	"Acquisition of 14C and 3H Counting Equipment to Support Hydrologic, Tectonic, and Paleoseismic Studies at Brigham Young"	EAR0111517	171,316 /12	102,786 /24	standard grant for EA
Brown HUANG, Yongsong	"Acquisition of a Bench-top Gas Chromatograph--Mass Spectrometer"	EAR0106605	64,989 /12	32,495 /24	standard grant for EA; split-funded w/ OCE/ITS = 32,494
Brown RUTHERFORD, Malcolm J.	"Acquisition of a New Electron Microprobe"	EAR0111183	325,843 /12	325,843 /24	standard grant for EA
Brown TULLIS, Jan	"Deformation Mechanisms, Microstructures, and Flow Laws for Quartzo-Feldspathic Aggregates"	EAR0106859	4,000 /12	4,000 /12	IF split-funding for EA on PH grant
Brown TULLIS, Terry E.	"Laboratory Experiments on Rock Friction Focused on Understanding Earthquake Mechanics"	EAR0003543	12,311 /12	12,311 /12	IF split-funding for EA on PH grant
California - Berkeley BUKOWINSKI, Mark S.	"Structure and Thermoelastic Properties of Al and Fe-bearing High Pressure Silicate Minerals"	EAR0003456	6,000 /12	6,000 /12	IF split-funding for EA on CH grant
California - Berkeley BURGMANN, Roland	"Collaborative Research: Modeling of 3-D Viscoelastic Stress Transfer in the California Crust: Implication for Earthquake Triggering and Seismic Hazard Migration"	EAR0122868	4,500 /12	4,500 /12	IF split-funding for EA on PH grant
California - Berkeley INGRAM, Bonnie L.	"Acquisition of a Gas Source Mass Spectrometer for Earth Sciences Research, University of California, Berkeley"	EAR0112113	188,600 /12	188,600 /24	standard grant for EA
California - Berkeley JEANLOZ, Raymond	"CSEDI Collaborative Res.: Experimental Study of Trace-Element Partitioning Between the Core and Mantle"	EAR0112484	19,250 /12	19,250 /12	IF split-funding for EA on PH grant
California - Berkeley KIRCHNER, James W.	"Acquisition of Equipment for Cosmogenic Nuclide Sample Preparation"	EAR0004098	53,808 /12	53,808 /24	standard grant for EA
California - Berkeley RICHARDS, Mark A.	"Numerical Models of Mantle Convection and Plate Tectonics"	EAR0003553	6,000 /12	6,000 /12	IF split-funding for EA on PH grant

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California - Berkeley RUBIN, Yoram	"A Field Study on GPR for Non-Invasive Measurement of Soil Moisture and a Preliminary Investigation of GPR-Remote Sensing Imagery Correlations"	EAR0087802	4,200 /12	4,200 /12	IF split-funding for EA on HS grant
California - Davis SCHIFFMAN, Peter	"Acquisition of a New Electron Microprobe for the Department of Geology"	EAR0114641	460,328 /24	- 0 -	on hold for FY '02 decision
California - Los Angeles MANNING, Craig E.	"Acquisition of a New Electron Microprobe at UCLA"	EAR0004078	335,888 /24	335,888 /36	standard grant for EA
California - Los Angeles MCKEEGAN, Kevin D.	"Support of an Ion Microprobe Facility"	EAR0113563	721,304 /36	232,053 /12	1st yr incr on 3-yr cont grant for FS
California - Los Angeles PELTZER, Gilles F.	"Acquisition of a Multi-Processor Computer System for a SAR Interferometry Processing Facility"	EAR0091845	60,566 /24	60,566 /24	standard grant for EA
California - Los Angeles REID, Mary R.	"Magmochronology and the Chemical Dynamics of Rhyolites"	EAR0003601	1,700 /12	1,700 /12	IF split-funding for EA on CH grant
California - Riverside MEIXNER, Thomas	"Evaluation of Biogeochemical Watershed Models: How Do We Know When a Model is Wrong?"	EAR0094312	20,000 /12	20,000 /12	IF split-funding for EA on HS grant
California - Riverside SADLER, Peter M.	"Parsimony Trees, Best-Fit Fences, and Consensus Sequences: Integrating Cladistics and Biostratigraphy at High Resolution"	EAR9980372	3,500 /12	3,500 /12	IF split-funding for EA on GE grant
California - San Diego (SIO) BOCK, Yehuda	"Collaborative Research: Integration of Synthetic Aperture Radar Interferometry, Continuous GPS and GPS Meteorology for Crustal Deformation and Earthquake Modeling [REU supplement to EAR-9619201]"	EAR0113233	8,200 /0	8,200 /0	IF suppl to IF grant for ITD
California - San Diego (SIO) WERNER, Brad	"Collaborative Research: Complexity and Paleodynamics of Natural Sand Dune Fields"	EAR0106359	7,000 /12	7,000 /12	IF split-funding for EA on GE grant
California - Santa Barbara OLSEN, Kim B.	"ITR/IM+AP: Websim 3D - A Web-based System for Generation, Storage and Dissemination of Earthquake Ground Motion Simulations"	EAR0113377	142,055 /24	- 0 -	on hold for FY '02 decision
California - Santa Barbara SPERA, Frank J.	"Collaborative Research: Energy-constrained Geochemical Models for Open System Magma Bodies with Anatexis, Replenishment, Magma Mixing and Fractional Crystallization"	EAR0073932	4,000 /12	4,000 /12	IF split-funding for EA on CH grant
California - Santa Cruz KOCH, Paul L.	"The Evolution of Herbivorous Marine Mammals: Ecological and Evolutionary Transitions in the Sirenia and Desostylia"	EAR0087742	5,400 /12	5,400 /12	IF split-funding for EA on GE grant
Caltech EILER, John M.	"Technician Support for the Stable Isotope Geochemistry Laboratory at Caltech [Phase I]"	EAR0091842	168,244 /36	53,890 /12	1st yr incr on 3-yr cont grant for TS
Caltech FARLEY, Kenneth A.	"Technician Support for the (U-Th)/He Dating Facility at Caltech [Phase II]"	EAR0091837	140,000 /24	140,000 /24	standard grant for TS
Caltech KIRSCHVINK, Joseph L.	"Collaborative Research: Development of an Ultra High Resolution Scanning SQUID Microscope for Paleomagnetic and Rock Magnetic Studies"	EAR0004069	23,423 /24	23,423 /24	standard grant for ITD

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Caltech TROMP, Jeroen	"Equipment Proposal: Numerical Simulations of 3-D Seismic Wave Propagation"	EAR0003860	115,000 /12	115,000 /36	standard grant for EA
Central Washington MILLER, M. Meghan	"Upgrading of the Pacific Northwest Geodetic Array (PANGA): Infrastructure and Data Analysis Facility, Central Washington University"	EAR0002066	316,712 /36	105,530 /12	2nd yr incr on 3-yr cont grant for FS
Central Washington RUBIN, Charles M.	"Collaborative Research: Patterns of Serial Fault Rupture in Taiwan"	EAR0107114	10,000 /12	10,000 /12	IF split-funding for EA on PH grant
Charleston - West VA POSLUSNY, Matthew	"MRI: Acquisition of a Gas Chromatograph/Mass Spectrometer and Graphite Furnace Atomic Absorption Spectrophotometer to Facilitate the Kanawha River Project."	EAR0115918	147,960 /36	- 0 -	1st yr incr on 2-yr cont grant for EA; split-funded w/ OIA/MRI = 73,980 in FY '01 and EHR/EPSCoR = 73,980 in FY '02
Chicago ANDERSON, Alfred T.	"Collaborative Research: Origins of Phenocrysts and Xenocrysts in the Bishop Tuff Rhyolitic Magma [supplement to EAR-0001154]"	EAR0117035	14,896 /0	14,896 /0	IF suppl to CH grant for EA
Chicago HEINZ, Dion L.	"Experimental Determination of the Thermal Equations of State of Mantle and Core Materials [supplement to EAR-9974373]"	EAR0109145	14,700 /0	14,700 /0	IF suppl to PH grant for EA
Chicago RIVERS, Mark L.	"GeoSoilEnviroCARS: A National Resource for Earth, Planetary, Soil and Environmental Science Research at the Advanced Photon Source"	EAR9906456	8,099,515 /60	1,400,000 /12	3rd yr incr on 3-yr cont grant for FS
CIW - DTM CARLSON, Richard W.	"ITR/IM: Collaborative Research: Development of a Western North American Volcanic and Intrusive Rock Database"	EAR0112602	33,628 /24	415 /24	standard grant for Other; split-funded w/ EAR/ITR-small = 9,432 and interagency transfer from DOD/NAVAIR = 9,017
CIW - DTM HAURI, Erik H.	"Development of a Large-Radius Multicollector SIMS"	EAR0114603	108,298 /12	108,298 /12	standard grant for ITD
CIW - DTM SACKS, I. Selwyn	"Deep Geophysical Observatory in Long Valley Caldera [supplement to EAR-0080841]"	EAR0121002	17,000 /0	17,000 /0	IF suppl to IF grant for ITD
CIW - GL HEMLEY, Russell J.	"U.S. -Italy Summer School: "High Pressure Phenomena" - A Summer School at the Enrico Fermi International School of Physics, Varenna, Italy, 3-13 July 2001"	INT0118576	26,250 /12	8,000 /12	IF split-funding for Other on INT grant
CIW - GL LINDE, Alan T.	"Collaborative Research: Magma Reservoir-Conduit Dynamics Revealed by Borehole Geophysical Observatory and Continuous GPS"	EAR0116067	354,681 /36	- 0 -	on hold for FY '02 decision
CIW - GL MAO, Ho-kwang	"High Pressure X-Ray Facility at National Synchrotron Light Source"	EAR0004084	775,143 /48	381,288 /24	standard grant for FS
Colby College GASTALDO, Robert A.	"RUI: Analysis of an Early-Middle Devonian Ecosystem: Trout Valley Formation, Maine"	EAR0087433	25,565 /12	25,565 /12	IF split-funding for EA on GE grant
Colby College KING, D. Whitney	"MRI: Integrated Sampling and Analysis Platform for the Investigation of Lake Geochemistry Over a Range of Temporal and Spatial Scales"	EAR0115900	99,716 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 99,716
Colorado BILHAM, Roger G.	"GPS Constraints on Inter-Plate and Intra-Plate Deformation of the Indian Subcontinent"	EAR0003449	56,192 /12	56,192 /12	IF split-funding for Other on PH grant

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Colorado FARMER, G. Lang	"ITR/IM: Collaborative Research: Development of a Western North American Volcanic and Intrusive Rock Database"	EAR0112673	72,125 /24	1,459 /24	standard grant for Other; split-funded w/ EAR/ITR-small = 33,109 and interagency transfer from DOD/NAVAIR = 31,652
Colorado LARSON, Kristine	"Measurement-Based Multipath Corrections for GPS Sites"	EAR0003943	171,908 /24	94,775 /12	1st yr incr on 2-yr cont grant for ITD
Colorado ZHONG, Shijie	"Acquisition of a PC Cluster for Geodynamic Modeling"	EAR0111412	40,320 /12	40,320 /36	standard grant for EA
Colorado School of Mines HUMPHREY, John D.	"MRI: Acquisition of a New Stable Isotope Ratio Mass Spectrometer"	EAR0116334	277,198 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 165,000
Colorado School of Mines MORRISEY, Meghan M.	"Seismic and Acoustic Signals Generated from Explosive Volcanic Eruptions: A Numerical Investigation of a Potential Monitoring Tool"	EAR0003470	3,000 /12	3,000 /12	IF split-funding for EA on CH grant
Colorado School of Mines SCALES, John A.	"Hardware Acquisition for Experimental Studies of Multiple Scattering of Elastic Waves in Geophysics"	EAR0111804	38,021 /12	38,021 /24	standard grant for EA
Colorado State HANNAH, Judith L.	"Re-Os Systematics in Proterozoic Anorthosite Complexes"	EAR0106874	3,800 /12	3,800 /12	IF split-funding for EA on CH grant
Colorado State STEIN, Holly J.	"187Re-187Os Calibration of Molybdenite from Henderson, Colorado: A New NIST Reference Material"	EAR0111876	144,995 /24	70,000 /12	1st yr incr on 2-yr cont grant for ITD
Colorado State STEIN, Holly J.	"Duration of Mineralization in Young Porphyry Systems Through Re-Os Dating"	EAR0087483	2,200 /12	2,200 /12	IF split-funding for EA on CH grant
Columbia - LDEO KAVNER, Abby	"CSEDI: Cooperative Studies of Electrochemistry at the Core-Mantle Boundary"	EAR0112448	6,025 /12	6,025 /12	IF split-funding for EA on PH grant
Columbia - LDEO OLSEN, Paul E.	"Upgrading of the Scanning Electron Microscope/X-Ray Microanalysis Facility at Lamont-Doherty Earth Observatory"	EAR0003529	277,865 /12	138,933 /24	standard grant for EA; split-funded w/ OCE/ITS = 108,932 and OCE/MGG = 30,000
Connecticut TORGERSEN, Thomas	"Systems Dynamics of Detention/Retention in Ponds"	EAR0003408	4,600 /12	4,600 /12	IF split-funding for EA on HS grant
Cornell BARAZANGI, Muawia	"Collaborative Research: Active Deformation of the Central and Northern Dead Sea Fault"	EAR0106238	35,000 /12	35,000 /12	IF split-funding for EA on TE grant
Cornell DERRY, Louis A.	"Research Technician Support [Phase II]"	EAR0091771	140,000 /24	70,000 /12	1st yr incr on 2-yr cont grant for TS
Cornell DERRY, Louis A.	"Collaborative Research: Geothermal Fluxes of Solutes, Heat and Carbon to the Narayani River System, Central Nepal"	EAR0087671	2,400 /12	2,400 /12	IF split-funding for EA on HS grant
Cornell SEBER, Dogan	"ITR/IM: A National Earth Science Knowledge Node for Research and Education"	EAR0112655	496,260 /36	- 0 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 100,000
Cornell College DENNISTON, Rhawn F.	"MRI: Acquisition of an Alpha Spectrometry System for Research and Undergraduate Training in Geology and Environmental Science"	EAR0115704	97,826 /3	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 97,826

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Dartmouth CHAMBERLAIN, C. Page	"Technician Support: Gas-Isotope Ratio Mass Spectrometer Laboratory at Dartmouth College [Phase I]"	EAR9903082	179,925 /36	59,975 /12	2nd yr incr on 3-yr cont grant for TS
Dartmouth FENG, Xiahong	"Technician Support: Watershed Studies at Dartmouth College [Phase I]"	EAR0111403	141,700 /36	45,046 /12	1st yr incr on 3-yr cont grant for TS
Delaware State GWANMESIA, Gabriel D.	"Elasticity of High Pressure Mantle Garnet Phases at High Pressures and High Temperatures"	EAR0106528	12,250 /12	12,250 /12	IF split-funding for EA on PH grant
DePauw MELCHIORRE, Erik B.	"MRI: Acquisition of Finnigan MAT DeltaPlus Stable Isotope Ratio Mass Spectrometer with Gasbench II for Environmental Hydrological Study of Acid Mine Drainage and Watershed Dynamics"	EAR0115884	170,000 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 150,000
Duke MALIN, Peter E.	"SAFOD: Near-Surface Geophysics and Field Camp Project [supplement for International Workshop on Borehole Instrumentation and Near-Source Seismology]"	EAR0113635	12,847 /12	12,847 /12	IF suppl to CD grant for Other
Duke MALIN, Peter E.	"Collaborative Proposal: Magma Reservoir-Conduit Dynamics as Revealed by Borehole Geophysical Observatory and Continuous GPS"	EAR0115991	227,592 /36	- 0 -	on hold for FY '02 decision
Emory MARINO, Lori	"Computed Tomography of Endocranial Morphology in Fossil Cetaceans"	EAR0087698	4,000 /12	4,000 /12	IF split-funding for EA on GE grant
Florida MANCHESTER, Steven R.	"Eocene Floras of the Northern Hemisphere: Paleoclimate and Implications for Large Scale Floristic Interchange"	EAR0087780	24,135 /12	24,135 /12	IF split-funding for EA on GE grant
Florida MARTIN, Jonathan B.	"Assessment of the Importance of Matrix Flow in a Conduit-Dominated Karst Aquifer: Investigation of the Unconfined Floridan Aquifer"	EAR0003360	10,400 /12	10,400 /12	IF split-funding for EA on HS grant
Florida OPDYKE, Neil D.	"Paleomagnetic Databases - Update 2001-2004"	EAR0003374	4,800 /24	4,800 /24	IF split-funding for ITD on PH grant
Florida International SAXENA, Surendra K.	"Iron Phase Diagrams at Extreme Conditions"	EAR0074054	24,000 /12	24,000 /12	IF split-funding for EA on PH grant
Florida International SEN, Gautam	"Upgrade of Superconducting Rock Magnetometer"	EAR0004064	64,960 /12	64,960 /24	standard grant for EA
Franklin & Marshall DEWET, Carol B.	"MRI: Inductively Coupled Argon Plasma Spectrometer - Dept. of Geosciences, Franklin & Marshall College"	EAR0116484	123,695 /0	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 123,695
Furman ANDERSEN, C. Brannon	"MRI: Acquisition of Instrumentation for an Undergraduate Research Program in Fluvial Biogeochemistry"	EAR0116487	134,408 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 92,189
George Mason HARLAN, Stephen S.	"Acquisition of Equipment to Establish a Paleomagnetic Laboratory at George Mason University"	EAR0087556	50,112 /12	50,112 /24	standard grant for EA
Georgia CAI, Wei-Jun	"Collaborative Research: The Effects of Aquatic Photochemistry on the Proton and Metal Binding Properties of Dissolved Organic Matter in Freshwater Systems"	EAR0003680	5,000 /12	5,000 /12	IF split-funding for EA on HS grant

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Harvard JACOBSEN, Stein B.	"Acquisition of a Laser Ablation System for ICP-MS"	EAR0093645	75,000 /12	74,414 /24	standard grant for EA
Harvard JACOBSEN, Stein B.	"Technician Support: EPS TIMS Facility at Harvard (Phase II)"	EAR0093652	80,635 /24	39,417 /12	1st yr incr on 2-yr cont grant for TS
Hawaii WESSEL, Paul	"Support for the Generic Mapping Tools (GMT)"	OCE0082552	40,000 /36	40,000 /36	IF split-funding for ITD on OCE/MGG grant
Hawaii - Hilo HON, Ken	"MRI: Development of an Electron Microprobe Teaching & Research Facility"	EAR0116904	143,901 /12	- 0 -	1st yr incr on 2-yr cont grant for EA; split-funded w/ OIA/MRI = 71,950 in FY '01 and EHR/EPSCoR = 75,951 in FY '02
Hobart & William Smith HALFMAN, John D.	"MRI: Acquisition of an Ion Chromatograph and X-ray Diffractometer to Support Watershed Modeling, Seneca Lake, New York"	EAR0116078	99,771 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 99,771
Humboldt State CASHMAN, Eileen M.	"MRI: Acquisition of Multiple Instruments for the College of Natural Resources, Humboldt State University, California for the Investigation of Fluvial Sediment Transport in a Watershed"	EAR0116726	94,200 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 55,000
Idaho GEIST, Dennis J.	"Development of an Inexpensive Continuous GPS System for Remote Monitoring of Volcano Deformation"	EAR0004067	46,484 /12	46,484 /24	standard grant for ITD
Idaho WOOD, Scott A.	"Measurement of the Solubilities of Scheelite and Ferberite in Hydrothermal Solutions with in-situ pH Measurements"	EAR0087065	5,215 /12	5,215 /12	IF split-funding for EA on CH grant
Illinois BASS, Jay D.	"Development of Laser Heating for Sound Velocity Measurements at High P and T"	EAR0002021	279,273 /24	132,915 /12	2nd yr incr on 2-yr cont grant for ITD
Illinois BASS, Jay D.	"Development of Laser Heating for Sound Velocity Measurements at High P and T [supplement to EAR-0002021]"	EAR0105425	20,468 /0	20,468 /0	IF suppl to IF grant for ITD
Illinois BASS, Jay D.	"Sound Velocities and Elastic Moduli of Minerals at Mantle Pressures and Temperatures with Laser Heating"	EAR0003383	13,329 /12	13,329 /12	IF split-funding for EA on PH grant
Illinois JOHNSON, Thomas M.	"Collaborative Research: Field Investigation of Se Oxyanion Reduction and Se Sources in Wetlands: Application of Se Isotopes"	EAR0003381	6,100 /12	6,100 /12	IF split-funding for EA on HS grant
Illinois LUNDSTROM, Craig C.	"Measuring Trace Element Partition Coefficients Between Minerals and Basaltic Melts [supplement to EAR-0000924]"	EAR0107391	19,889 /0	19,889 /0	IF suppl to CH grant for EA
Indiana Univ of PA PUTIRKA, Keith D.	"MRI: Development of an XRF Laboratory: Integrating Geology Undergraduate Coursework with Geochemical Research"	EAR0115647	265,704 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 198,106
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan"	EAR0004370	76,291,841 /60	12,644,000 /12	1st yr incr on 5-yr CAGR EAR-0004370 for FS; split-funded w/ OPP/AGG = 66,000, EAR/ES = 398,000 and interagency transfer from DOE = 722,900

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IRIS SIMPSON, David W.	"IRIS 2000: A Science Facility for Studying the Dynamics of the Solid Earth [supplement to CAGR EAR-9529992 for PASSCAL instrument acquisition]"	EAR0126534	233,100 /0	- 0 -	suppl to IF grant for FS; split-funded w/ interagency transfer from DOE = 233,100
Johns Hopkins FERRY, John M.	"Acquisition of a New Automation System for an Electron Microprobe"	EAR0107175	90,444 /12	90,444 /24	standard grant for EA
Johns Hopkins JAHREN, Hope	"Pilot Study: Carbon Isotope Composition of Aptian Plant Fossils from the Arundel Formation, Western Maryland"	EAR0106171	10,860 /12	10,860 /12	IF split-funding for EA on GE grant
Kansas WALKER, J. Douglas	"ITR/IM: Collaborative Research: Development of a Western North American Volcanic and Intrusive Rock Database"	EAR0112963	319,646 /24	2,125 /24	standard grant for Other; split-funded w/ EAR/ITR-small = 48,217 and interagency transfer from DOD/NAVAIR = 46,095
Lehigh KODAMA, Kenneth P.	"Developing an Inclination Correction for Red Bed Remanence and its Application to Anomalously Shallow Inclinations in Tertiary Red Beds, Tarim Basin, China [supplement to EAR-9804965]"	EAR0104896	13,925 /0	13,925 /0	IF suppl to TE grant for EA
Maine GUIDOTTI, Charles V.	"MRI: Acquisition of a Modern Electron Microprobe at the University of Maine"	EAR0116235	626,745 /24	- 0 -	1st yr incr on 2-yr cont grant for EA; split-funded w/ OIA/MRI = 237,500 in FY '01 and EHR/EPSCoR = 237,500 in FY '02
Maryland FARQUHAR, James	"Acquisition of a Gas-Source Mass Spectrometer"	EAR0004130	178,254 /24	178,254 /24	standard grant for EA
Maryland LATHROP, Daniel P.	"MRI: Development of a Three-Meter Liquid Sodium Geodynamo Model"	EAR0116129	1,100,640 /48	- 0 -	standard grant for ITD; split-funded w/ OIA/MRI = 1,100,640
Maryland MCDONOUGH, William F.	"Acquisition of a Quadrupole Inductively Coupled Plasma Mass Spectrometer, UV Laser Lab and Sample Imaging Unit"	EAR0004095	187,000 /24	184,197 /24	standard grant for EA
Maryland RUDNICK, Roberta L.	"Technician Support: ICP-MS Facility at UMD [Phase II]"	EAR0004128	100,000 /24	70,000 /12	1st yr incr on 2-yr cont grant for TS
Massachusetts HAGGERTY, Stephen E.	"Petrochemistry of Kimberlites, Lamprolites and Diamonds in India"	EAR0106187	6,200 /12	6,200 /12	IF split-funding for EA on CH grant
Massachusetts WILLIAMS, Michael L.	"Development of an Optimized Electron Microprobe for Geochronologic and Trace Element Analysis"	EAR0004077	487,217 /24	487,217 /24	standard grant for ITD
Memphis RYDELEK, Paul A.	"Triggering and Inhibition of Large Earthquakes in the Nankai Trough, Japan"	EAR0003438	2,000 /12	2,000 /12	IF split-funding for EA on PH grant
Mesa State College HRNCIR, Duane C.	"MRI: Acquisition of an ICP-OES Spectrometer for Undergraduate Research and Teaching"	EAR0116419	96,922 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 96,922
Miami - Ohio HUGHES, John M.	"Acquisition of a CCD-Detector Single Crystal Diffractometer"	EAR0003201	140,288 /24	140,288 /24	standard grant for EA
Miami - Ohio WIDOM, Elisabeth	"MRI: Acquisition of a Thermal Ionization Mass Spectrometer for Geochemical and Geochronological Applications"	EAR0116033	309,962 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 309,962
Miami - RSMAS DIXON, Timothy H.	"ITR/AP: Collaborative Proposal for First Generation Model and Data Assimilation System to Reduce Volcanic Hazards"	EAR0112694	136,418 /36	136,418 /36	standard grant for Other

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Miami - RSMAS DIXON, Timothy H.	"Collaborative Research: Nazca-South America Convergence and Continental Growth in the Central Andes via GPS Measurements"	EAR0003621	3,800 /12	3,800 /12	IF split-funding for EA on PH grant
Michigan VAN KEKEN, Peter E.	"Upgrading of a Linux PC Cluster for Geodynamical Modeling"	EAR0091971	55,900 /12	55,900 /36	standard grant for EA
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism"	EAR9818704	951,280 /36	331,259 /12	2nd yr incr on 3-yr cont grant for FS
Minnesota BANERJEE, Subir K.	"Pathways of Environmental Diagenesis and their Effects on the Acquisition of Natural Remanent Magnetization Recorded in Chinese Loess and Paleosol"	EAR0003421	30,000 /12	30,000 /12	IF split-funding for EA on PH grant
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism [supplement to EAR-9818704]"	EAR0101480	14,235 /0	14,235 /0	IF suppl to IF grant for FS
Minnesota ITO, Emi	"National Lacustrine Core Curation Facility: LRC Esprit de Core [supplement to ATM-0071477]"	ATM0119454	50,150 /0	50,150 /0	IF suppl to ATM/PC grant for FS
Minnesota KOHLESTEDT, David L.	"Fe-Mg Interdiffusion in Olivine and Magnesiowustite Under Hydrous Conditions: Implications for Mantle Processes"	EAR0106981	7,500 /12	7,500 /12	IF split-funding for EA on CH grant
Minnesota PORTE-AGEL, Fernando	"CAREER: Effect of Land-Surface Heterogeneity on Regional-Scale Fluxes Using a New Generation Large-Eddy Simulation"	EAR0094200	29,250 /12	29,250 /12	IF split-funding for EA on HS grant
Minnesota WHITNEY, Donna L.	"Experimental and Microstructural Study of Garnet Fracture Mechanics"	EAR0106673	3,500 /12	3,500 /12	IF split-funding for EA on PH grant
Minnesota YUEN, David A.	"Collaborative Research: Application of Wavelets in Modeling and Visualizing Multiscale Phenomena in Geophysics"	EAR0106276	7,800 /12	7,800 /12	IF split-funding for EA on PH grant
Missouri VASILYEV, Oleg V.	"Collaborative Research: Application of Wavelets in Modeling and Visualizing Multiscale Phenomena in Geophysics"	EAR0107086	7,500 /12	7,500 /12	IF split-funding for EA on PH grant
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 MCLAUGHLIN, Dennis B.	"A New Approach to Hydrologic Data Assimilation"	EAR0003361	6,600 /12	6,600 /12	IF split-funding for EA on HS grant
MIT REILINGER, Robert E.	"Present-Day Kinematics and Dynamics of the Eastern Mediterranean/Caucasus: Interaction of the Arabian, African, and Eurasian Plates [supplement to EAR-9909730]"	EAR0042641	42,344 /0	42,344 /0	IF suppl to PH grant for EA
MIT REILINGER, Robert E.	"Combining InSAR and GPS Measurements of Active Tectonic Deformation within the Arabia-Eurasia Continental Collision Zone"	EAR0106571	8,000 /12	8,000 /12	IF split-funding for EA on PH grant
NAL Research HOANG, Ngoc	"SBIR Phase IIB: Autonomous Data Relay System Utilizing Low-Earth Orbit Satellites"	ENG0119663	45,000 /12	45,000 /12	IF split-funding for ITD on ENG/SBIR grant

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Nevada - Las Vegas CHOPELAS, Anastasia	"Anharmonicity and Phase Transitions of Mantle Phases Using Simultaneous High Pressure-High Temperature Raman Spectroscopy in the Laser Heated Diamond Cell"	EAR0106120	35,000 /12	35,000 /12	IF split-funding for EA on CH grant
New Hampshire CLYDE, William C.	"Acquisition of Paleomagnetic Equipment for the Department of Earth Sciences, University of New Hampshire"	EAR0086672	50,950 /12	50,950 /24	standard grant for EA
New Mexico BREARLEY, Adrian J.	"Acquisition of an Electron Microprobe"	EAR0112339	300,000 /24	- 0 -	on hold for FY '02 decision
New Mexico FISCHER, Tobias P.	"The Flux of Volatiles from Active MARGINS: the Central American Volcanic Arc [supplement to EAR-0079402]"	EAR0118914	5,500 /0	5,500 /0	IF suppl to CD grant for EA
New Mexico KARLSTROM, Karl E.	"Collaborative Research: Great Unconformity of the Southwestern USA -- Ar-Ar K-Feldspar Thermochronologic and Structural Studies of a Billion Years of Regional Exhumation [supplement to EAR-9902955]"	EAR0105989	5,935 /0	5,935 /0	IF suppl to TE grant for EA
New Mexico Tech KYLE, Philip R.	"MRI: Development of Integrated Seismic, Geodetic and Volcanic Gas Surveillance Instrumentation for Volcanic Research"	OPP0116577	30,000 /12	30,000 /12	IF split-funding for ITD on OPP/MRI grant
New Mexico Tech SMALL, Eric E.	"Invasion of Semiarid Grasslands by Shrubs"	EAR0003514	46,680 /12	46,680 /12	IF split-funding for EA on HS grant
North Carolina CARTER, Joseph G.	"Early Evolution of Ligaments and Shell Microstructure in Bivalvia, with a Comprehensive, Polythetic, Phylogenetic Analysis"	EAR0003431	3,000 /12	3,000 /12	IF split-funding for EA on GE grant
North Carolina GLAZNER, Allen F.	"ITR/IM: Collaborative Research: Development of a Western North American Volcanic and Intrusive Rock Database"	EAR0112738	74,000 /24	1,509 /24	standard grant for Other; split-funded w/ EAR/ITR-small = 34,242 and interagency transfer from DOD/NAVAIR = 32,736
North Carolina State LEITHOLD, Elana L.	"Organic Carbon Loading on Marine Sedimentary Particles as an Indicator of Modern and Ancient River Basin Weathering and Transport Regimes [supplement to OCE-9809553]"	OCE0119165	10,000 /0	10,000 /0	IF suppl to OCE/MGG grant for EA
Northern Illinois SCHERER, Reed P.	"MRI: Acquisition of a Low-Vacuum SEM Microscope for Multi-Disciplinary Research and Education"	EAR0116385	162,965 /24	236 /24	standard grant for EA; split-funded w/ OIA/MRI = 139,689
Notre Dame SILLIMAN, Stephen E.	"Air Entry Barriers: Mechanism for Creating High Permeability Pathways Above the Water Table"	EAR0087228	10,000 /12	10,000 /12	IF split-funding for EA on HS grant
Occidental College BOGUE, Scott W.	"MRI: Acquisition of Superconducting Rock Magnetometer for Department of Geology"	EAR0116311	217,093 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 217,093
Ohio State FOLAND, Kenneth A.	"Collaborative Research: Argon Retentivity and Closure Temperature in Micas and Amphiboles"	EAR0107054	14,900 /12	14,900 /12	IF split-funding for EA on CH grant
Oklahoma DEWERS, Thomas A.	"Acquisition of a Laser Particle Analyzer"	EAR0111510	47,611 /12	47,611 /24	standard grant for EA
Oklahoma ELMORE, R. Douglas	"Collaborative Research: Remagnetization and Orogenic Fluids: Testing the Hypothesis in the Central Appalachians"	EAR0121827	9,785 /12	9,785 /12	IF split-funding for EA on TE grant

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Oxford WILLEMANN, Raymond J.	"Partial Support of the International Seismological Center"	EAR9725096	345,600 /36	62,950 /12	IF split-funding for FS on 4-yr cont PH grant
Oxford WILLEMANN, Raymond J.	"Developing New Services at the International Seismological Centre"	EAR9909662	17,395 /12	23,178 /12	IF split-funding for FS on PH grant
Penn State BRANTLEY, Susan L.	"SGER: Eddy Correlation Measurements for Analysis of Volcanic CO2 Fluxes"	EAR0114858	20,875 /12	20,875 /12	IF split-funding for EA on CH grant
Penn State FREEMAN, Katherine H.	"Technician Support: The Penn State Stable-Isotope Biogeochemistry Laboratory [Phase I]"	EAR0092002	210,000 /36	70,000 /12	1st yr incr on 3-yr cont grant for TS
Penn State FREEMAN, Katherine H.	"Acquisition of a Mass Spectrometer and Continuous-Flow Inlet Systems for Analyses of H, C, N, O & S Stable Isotopes in Ultra-Small Gas Liquid and Solid Samples for Research in Geosciences"	EAR0080267	302,006 /24	- 0 -	2nd yr incr on 2-yr cont grant for EA; split-funded w/ OPP/Glaciology = 25,000
Penn State VOIGHT, Barry	"Collaborative Research: Magma Reservoir-Conduit Dynamics Revealed by Borehole Geophysics Observatory and Continuous GPS"	EAR0116826	669,048 /36	- 0 -	on hold for FY '02 decision
Princeton BUNGE, Hans-Peter	"ITR/AP: A Finite Element Geodynamo Model Optimized for High-Speed Beowulf PC-Clusters"	EAR0113050	496,270 /36	- 0 -	on hold for FY '02 decision
Princeton DUFFY, Thomas S.	"CSEDI: Theoretical and Experimental Studies of Some Materials Fundamental to the Deep Mantle"	EAR0112532	7,500 /12	7,500 /12	IF split-funding for EA on PH grant
Purdue ELMORE, David	"Facility Support: The Purdue Rare Isotope Measurement Laboratory"	EAR0112480	2,864,054 /36	500,000 /12	1st yr incr on 1.5-yr cont grant for FS
Purdue ELMORE, David	"Development of an Ion Source for Accelerator Mass Spectrometry"	EAR0092508	170,997 /12	170,997 /24	standard grant for ITD
Purdue ELMORE, David	"Facility Support: The Purdue Rare Isotope Measurement Laboratory [supplement to EAR-9809983]"	EAR0104328	53,983 /0	53,982 /0	IF suppl to IF grant for FS
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 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 133,000
Rochester BASU, Asish R.	"Request for Technical Associate to Support the Isotope Geochemistry Laboratories at the University of Rochester [supplement to EAR-9730743]"	EAR0120281	20,000 /0	20,000 /0	IF suppl to IF grant for TS
Rochester TARDUNO, John A.	"Development of a CO2 Laser System for Paleointensity Analyses of Single Plagioclase Crystals"	EAR0091403	41,754 /12	41,754 /12	standard grant for ITD
Salish Kootenai College STEVENS, Douglas K.	"Organic Environmental Chemistry, An Integrated Approach for Tribal College Students"	EAR0010054	41,250 /12	41,250 /12	IF split-funding for EA on HS grant
South Alabama AXSMITH, Brian J.	"RUI: Cheirolepidiaceous Conifer Fossils from North America: New Data on the Structure and Diversity of the Dominant Mesozoic Vegetation"	EAR0105476	18,985 /12	18,985 /12	IF split-funding for EA on GE grant
South Florida CONNOR, Charles B.	"ITR/AP: Collaborative Proposal for First Generation Model and Data Assimilation System to Reduce Volcanic Hazards"	EAR0130602	195,665 /36	16,665 /36	standard grant for Other; split-funded w/ EAR/ITR-small = 179,000

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Southern California HENYEY, Thomas L.	"Southern California Earthquake Center [supplement to CAGR EAR-8920136 for WinSAR data purchase]"	EAR0120132	25,000 /0	25,000 /0	IF suppl to PH grant for FS
Southern Maine POLLOCK, Stephen G.	"MRI: X-Ray Diffraction at the University of Southern Maine"	EAR0116481	185,449 /24	- 0 -	1st yr incr on 2-yr cont grant for EA; split-funded w/ OIA/MRI = 53,160 in FY '01 and EHR/EPSCoR = 67,014 in FY '02
Southern Methodist YAPP, Crayton J.	"Ancient Atmospheric CO2, Paleoclimates, and the Stable Isotope Geochemistry of Low Temperature Iron (III) Oxides"	EAR0106257	1,600 /12	1,600 /12	IF split-funding for EA on GE grant
Southern Mississippi SKILLING, Ian	"Collaborative Research: Explaining the Eruption of Huge Volumes of Magma-Sediment Mixtures Preceding Flood Basalt Effusion: Karoo Lip, South Africa"	EAR0106103	8,990 /12	8,990 /12	IF split-funding for EA on CH grant
St. Thomas - Houston MALLOY, Thomas B.	"MRI: Acquisition of a Combined GC and HPLC System for Undergraduate Research and Training"	EAR0115905	99,468 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 99,468
Stanford BEROZA, Gregory C.	"Waveform-Based Earthquake Location [supplement to EAR-0074084]"	EAR0102803	28,729 /0	28,729 /0	IF suppl to PH grant for EA
Stanford KITANIDIS, Peter K.	"Mathematical and Experimental Studies of Dispersion in Porous Media"	EAR0001441	8,900 /12	8,900 /12	IF split-funding for EA on HS grant
Stanford KLEMPERER, Simon L.	"Seismic Daylight Imaging: A New Passive-Seismic Method to Image Basin and Crustal Structure"	EAR0106693	2,461 /12	2,461 /12	IF split-funding for EA on PH grant
Stanford KLEMPERER, Simon L.	"Shear-Wave Splitting in Central Europe to Test Mantle-Upwelling Anisotropy Model"	EAR0107080	2,200 /12	2,200 /12	IF split-funding for EA on PH grant
Stanford KNIGHT, Rosemary	"Acquisition of a Maran Ultra Nuclear Magnetic Resonance Core Analyzer"	EAR0111278	82,000 /12	82,000 /24	standard grant for EA
Stanford STEBBINS, Jonathan F.	"Disorder and Dynamics in Silicate and Aluminosilicate Liquids, Glasses, and Crystals: Nuclear Magnetic Resonance Studies"	EAR0104926	4,800 /12	4,800 /12	IF split-funding for EA on CH grant
SUNY - Buffalo BAKER, Gregory S.	"Acquisition of Equipment for Investigating Coincident Seismic and GPR Imaging [supplement to EAR-0002233 for OPP/TEA grant]"	EAR0114532	10,985 /0	- 0 -	suppl to IF grant for Other; split-funded w/ OPP/ASS = 10,985
SUNY - Buffalo MITCHELL, Charles E.	"Collaborative Research: Graptolite Macroevolution: Phylogenetic Analysis and Testing of Hypotheses of Directional Change"	EAR0107056	7,000 /12	7,000 /12	IF split-funding for EA on GE grant
SUNY - Stony Brook DAVIS, Daniel M.	"Theoretical and Modeling Studies of Strain Partitioning [supplement to EAR-9909559]"	EAR0111378	19,000 /0	19,000 /0	IF suppl to TE grant for EA
SUNY - Stony Brook KRAUSE, David W.	"Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography"	EAR0106477	12,000 /12	12,000 /12	IF split-funding for EA on GE grant
SUNY - Stony Brook O'LEARY, Maureen A.	"MRI: Acquisition of Instruments and Technical Support for an Interdepartmental Fossil Preparation Laboratory"	EAR0116517	227,934 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 227,934
SUNY - Stony Brook WEIDNER, Donald J.	"Science and Technology Center for High Pressure Research"	EAR0111102	14,680,542 /60	2,058,086 /12	11th and final yr incr on STC CAGR EAR-8920239 for FS; split-funded w/ EHR = 172,720

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SUNY - Stony Brook WEIDNER, Donald J.	"Workshop for Mineral Physics Consortium"	EAR0110248	26,000 /12	26,000 /12	standard grant for Other
SUNY-Binghamton BARKER, Jeffrey	"Acquisition of Ground-Penetrating Radar Equipment"	EAR0092258	27,218 /12	27,218 /24	standard grant for EA
Syracuse BICKFORD, Marion E.	"The Paleoproterozoic of Central Colorado: Accreted Arcs or Rifted Older Crust [supplement to EAR-9805013]"	EAR0044183	6,400 /0	6,400 /0	IF suppl to TE grant for EA
Syracuse SAMSON, Scott D.	"Magmatic and Deformational History of the Cadomian Orogenic Belt, North American Massif"	EAR0115589	5,000 /12	5,000 /12	IF split-funding for EA on TE grant
Tennessee LABOTKA, Theodore C.	"An Experimental Study of the Breakdown of Dolomite in Mixed-Volatile Metamorphic Environments"	EAR0087553	11,500 /12	11,500 /12	IF split-funding for EA on CH grant
Tennessee MORA, Claudia	"Technician Support: Stable Isotope Laboratory at the University of Tennessee [Phase I]"	EAR0004104	126,730 /36	41,001 /12	1st 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	116,894 /12	1st yr incr on 3-yr cont grant for ITD
Texas BENNETT, Philip C.	"Sediment Transport in an Urbanizing Karst Aquifer-Watershed"	EAR0001197	14,000 /12	14,000 /12	IF split-funding for EA on HS grant
Texas BENNETT, Philip C.	"LExEn: Sulfuric Acid Speleogenesis by Chemolithotrophic Bacteria: Community Structure and Habitat Modification by Acid Extremophiles [supplement to EAR-0085576]"	EAR0121834	6,000 /0	6,000 /0	IF suppl to GE grant for EA
Texas CARLSON, William D.	"Facility Support: High Resolution X-Ray Computed Tomography Laboratory"	EAR0004082	386,294 /36	123,104 /12	1st yr incr on 3-yr cont grant for FS
Texas KAPPELMAN, John W.	"Paleontology and Geology of Newly Discovered Oligocene Faunas and Floras in Western Ethiopia"	EAR0001259	15,000 /12	15,000 /12	IF split-funding for EA on GE grant
Texas KETCHAM, Richard A.	"ITR/AP: Computational Methods for Quantitative Analysis of X-ray Computed Tomographic (CT) Data for the Geosciences"	EAR0113480	476,045 /36	100,000 /36	standard grant for Other; split-funded w/ EAR/ITR-small = 250,000
Texas KOCUREK, Gary	"Collaborative Research: Complexity and Paleodynamics of Natural Sand Dune Fields"	EAR0106603	7,000 /12	7,000 /12	IF split-funding for EA on GE grant
Texas - El Paso KELLER, George R.	"ITR/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 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 64,312
Texas - El Paso MILLER, Kate C.	"Upgrade to Geophysical Computing at the University of Texas at El Paso"	EAR0112116	99,580 /12	99,580 /36	standard grant for EA
Texas - El Paso PINGITORE, Nicholas E.	"MRI: Acquisition of Laser Ablation for ICP-MS and Electron Microprobe Upgrade, for Geological and Environmental Research and Research Training"	EAR0116660	175,805 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 60,000
Texas A&M WILTSCSKO, David V.	"Collaborative Research: Integrated Structural and Geochemical Investigation of Alternate Origins for "Crack-Seal" Veins"	EAR0107079	18,010 /12	18,010 /12	IF split-funding for EA on TE grant

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UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities"	EAR0102250	10,520,000 /48	2,033,615 /12	2nd 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]"	EAR0136073	500,000 /0	22,000 /0	suppl to CAGR ATM-9732665/SPO#2 EAR- 9903413 for FS; split-funded w/ Interagency transfer in FY '01 from NASA for SENH and IGS activities = 478,000 and PH = 1,970 for project specific support
UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities [supplement]"	EAR0119575	711,337 /0	22,000 /0	suppl to CAGR ATM-9732665/SPO#2 EAR- 9903413 for FS; split-funded w/ Interagency transfer from NASA for SENH and IGS activities = 478,000 and OPP = 211,337 for Antarctic Science Support
Utah JOHNSON, William P.	"Spontaneous Detachment and Retardation of Bacteria: Physical and Chemical Controls on these Processes and Their Impact on Bacterial Transport in Groundwater"	EAR0087522	35,000 /12	35,000 /12	IF split-funding for EA on HS grant
VA Museum of Natural Hist FRASER, Nicholas C.	"Insect and Vertebrate Faunas of a Unique Late Triassic Freshwater Ecosystem in Eastern North America"	EAR0106309	2,500 /12	2,500 /12	IF split-funding for EA on GE grant
Vanderbilt BAUDENBACHER, Franz J	"Collaborative Research: Development of an Ultra High Resolution Scanning SQUID Microscope for Paleomagnetic and Rock Magnetic Studies"	EAR0004101	139,910 /24	139,910 /24	standard grant for ITD
VPI & SU ROSS, Nancy L.	"High-Pressure Behavior of Framework Silicates"	EAR0105864	29,500 /12	29,500 /12	IF split-funding for EA on CH grant
Washington CROSSON, Robert S.	"3-D Structure and Tectonic Interpretation of the Cascadia Crust and Subducting Slab from SHIPS and Earthquake Data"	EAR0107138	2,500 /12	2,500 /12	IF split-funding for EA on PH grant
West Georgia LUNEBURG, Catalina M.	"MRI: Acquisition of an ESEM with EDX and EBSD Capability for Microanalysis at the State University of West Georgia"	EAR0116375	300,871 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 300,871
West Georgia MAYER, James	"Acquisition of an Ion Chromatograph for Multidisciplinary Water-Chemistry Analysis"	EAR0004070	19,988 /12	19,988 /24	standard grant for EA
Western Michigan ATEKWANA, Estella A.	"Collaborative Research: Biogeochemical Influences on Geophysical Signatures at LNAPL Impacted Sites"	EAR0087795	15,000 /12	15,000 /12	IF split-funding for Other on HS grant
WHOI EDWARDS, Katrina J.	"Acquisition of an Atomic Force Bioscope"	EAR0091716	85,691 /12	42,846 /24	standard grant for EA; split-funded w/ OCE/ITS = 42,845
WHOI EDWARDS, Katrina J.	"Microbial Degradation of Refractory Organic Carbon During Rock Weathering"	EAR0106707	5,000 /12	5,000 /12	IF split-funding for EA on GE grant
WHOI EGLINTON, Timothy I.	"Acquisition of a Gas Chromatography/Time of Flight-Mass Spectrometry (GC/TOF-MS) System for Ultra-High Resolution Molecular Stratigraphy"	EAR0094475	211,753 /12	85,877 /24	standard grant for EA; split-funded w/ OCE/ITS = 42,938, OCE/CO = 42,938 and OPP/AGG = 40,000
WHOI HIRTH, J. Gregory	"Acquisition of EBSD Detector and Software for Microstructural Analyses"	EAR0112266	60,000 /12	40,000 /24	standard grant for EA; split-funded w/ OCE/ITS = 20,000

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WHOI SHIMIZU, Nobumichi	"Support of a National Ion Microprobe Facility at Woods Hole Oceanographic Institution"	EAR0115433	830,406 /36	268,682 /12	1st yr incr on 2-yr cont grant for FS
WHOI SHIMIZU, Nobumichi	"Support of a National Ion Microprobe Facility at Woods Hole Oceanographic Institution [supplement to EAR-9904400]"	EAR0113064	38,986 /0	38,986 /0	IF suppl to IF grant for FS
WHOI ZAFIRIOU, Oliver C.	"Collaborative Research: The Effects of Aquatic Photochemistry on the Proton and Metal Binding Properties of Dissolved Organic Matter in Freshwater Systems"	EAR0087695	3,750 /12	3,750 /12	IF split-funding for EA on HS grant
Wisconsin COOPER, Reid F.	"Low-Frequency Attenuation in Polycrystalline Silicates and Silicate Partial Melts"	EAR0106620	12,000 /12	12,000 /12	IF split-funding for EA on PH grant
Wisconsin DEMETS, Dennis C.	"Imaging the Mechanics of Shallow Subduction: The Oaxaca GPS Array"	EAR0104299	10,000 /12	10,000 /12	IF split-funding for EA on PH grant
Wisconsin SINGER, Bradley S.	"Technician Support for University of Wisconsin Rare Gas Geochronology Laboratory [Phase I]"	EAR0114055	128,688 /36	40,813 /12	1st yr incr on 3-yr cont grant for TS
Wyoming DUEKER, Kenneth G.	"Unix System Administration Support and Hardware Upgrade to Create an Efficient UW Geophysical Department Computational Center"	EAR0112163	436,123 /36	49,337 /36	standard grant for EA; split-funded w/ PH = 20,663
Wyoming LILLEGRAVEN, Jason A.	"Linkage of Laramide Depositional and Deformational Histories of the Sweetwater Arch and Adjacent Parts of the Hanna Basin, Wyoming"	EAR9909354	1,010 /12	1,010 /12	IF split-funding for EA on GE grant
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	- 0 -	on hold for FY '02 decision
Yale AGUE, Jay J.	"Testing for Regional Fluid Flow in Subducted Crust, Tinos Island, Cyclades (Greece)"	EAR0105927	19,899 /12	19,899 /12	IF split-funding for EA on CH grant
Yale BERNER, Robert A.	"Models for Kerogen Oxidation, the Carbon Cycle, and Atmospheric Oxygen over Phanerozoic Time"	EAR0104797	5,000 /12	5,000 /12	IF split-funding for EA on GE grant
Yale REINERS, Peter W.	"Acquisition of a Laser Extraction System for (U-Th)/He Chronometry"	EAR0111875	49,700 /12	49,700 /24	standard grant for EA

ABBREVIATIONS and EXPLANATIONS

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

PE = People and Social Groups Interacting with Computers and Infrastructure Technical Area of ITR
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
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 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

NATIONAL SCIENCE FOUNDATION
 4201 Wilson Boulevard, Arlington VA 22230

Division of Earth Sciences (EAR)

Instrumentation and Facilities Program (IF)

Numerical Summary of All Actions in FY-2001

PROPOSALS

DOLLARS

Total number of proposals processed by IF	338
Logged-in to IF as primary program	232
New proposals; full review by IF	198
Declined	94
Funded entirely from IF budget	57
Split-funded with other programs ..	42
Held over for FY'02 decision.....	5
New proposals; withdrawn before review	13
Other award actions (incr, suppl, etc)	21
Funded entirely from IF budget.....	15
Split-funded with other programs.....	6
Logged-in to other NSF programs; IF-split-funding	106

Total dollars requested of IF (per year for multi-year proposals)	56,407,863
Total awarded through IF actions in FY-2001	37,352,883
Awarded from IF budget	27,871,629
For equipment acquisition/upgrade (EA)	4,228,376
For instr and technique development (ITD) ...	1,554,596
For facility support (FS)	20,680,055
For technician support (TS)	923,772
Other (workshops, REU, etc.)	484,830
Awarded from other NSF budgets through split-funding ..	7,113,866
For equipment acquisition/upgrade (EA)	3,609,264
For instr and technique development (ITD) ...	1,100,640
For facility support (FS)	1,122,977
Other (workshops, REU, etc.)	1,280,985
Awarded through interagency transfers	2,367,388
For equipment acquisition/upgrade (EA)	335,888
For facility support (FS)	1,912,000
Other (workshops, REU, etc.)	119,500