



NATIONAL SCIENCE FOUNDATION
4201 Wilson Boulevard, Arlington VA 22230

Division of Earth Sciences
Instrumentation and Facilities Program

Summary of All FY-2002 Actions Leading to AWARDS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Alabama HARRY, Dennis L.	"MRI: Acquisition of Geophysical Field Equipment for Earth Science Research and Teaching at the U. of Alabama"	EAR0216520	234,614 /36	289 /24	standard grant for EA; split-funded w/ OIA/MRI = 169,711
Alaska EICHELBERGER, John C.	"3rd Biennial Workshop on Subduction Processes Emphasizing the Kurile-Kamchatka-Aleutian Arcs"	EAR0218065	8,400 /12	8,400 /12	IF split-funding for Other on CH grant
American Museum Nat Hist NORELL, Mark A.	"Collaborative Research: Life History Strategies, Growth Rates, and Microstructural Character Evolution Across the Coelurosaurian/Avialan Transition"	EAR0207664	3,000 /36	3,000 /36	IF split-funding for EA on GE grant
Arizona DUCEA, Mihai N.	"Collaborative Research: Testing the Degree of Correspondence between Surface Tectonic Features and Upper Mantle Structure and Composition by Study of Volcanic-Hosted Xenoliths [supplement to EAR-0087125]"	EAR0140607	25,000 /0	25,000 /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	500,013 /12	2nd 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 -	2nd yr incr on 4-yr cont grant for Other; split-funded w/ EAR/ITR-small = 100,000
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	25,112 /12	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-Small = 118,869
Arizona QUADE, Jay	"Lake-Level Chronology and Climate Change in the Southern Bolivian Altiplano"	EAR0207850	3,150 /12	3,150 /12	IF split-funding for EA on GE grant
Arizona ZREDA, Marek G.	"Determination of Soil Water Content at Intermediate Spatial Scale Using Cosmic-Ray Neutrons"	EAR0126241	50,000 /12	50,000 /12	IF split-funding for EA on HS grant
Arizona ZREDA, Marek G.	"Cosmogenic Isotopes Produced In Situ in Terrestrial Rocks: Quantifying the Effect of Altitude and Depth on the Production Rates"	EAR0126209	35,000 /12	35,000 /12	IF split-funding for EA on CH 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 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 66,776

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Arizona State BUSECK, Peter R.	"Technician Support for Geoscience Research in Transmission Electron Microscopy [Phase I]"	EAR0113345	210,002 /36	70,000 /12	2nd 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	2nd yr incr on 3-yr cont grant for TS
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	31,655 /12	2nd yr incr on 2-yr cont grant for ITD
Arizona State HOLLOWAY, John R.	"Following the Water: H2O in Subducting Slabs and Mantle Wedges"	EAR0208456	8,000 /12	8,000 /12	IF split-funding for EA on CH grant
Arizona State LESHIN, Laurie A.	"Support of the 3rd Biennial Geochemical SIMS Workshop(3BGSW)"	EAR0120247	14,827 /12	9,827 /12	standard grant for Other; split-funded w/ CH = 5,000
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	2nd yr incr on 3-yr cont grant for TS
Arkansas DAVIS, Ralph K.	"Bacterial and Sediment Tracing in Mantled Karst Aquifers"	EAR0207793	5,000 /36	5,000 /36	IF split-funding for EA on HS grant
Auburn SAVRDA, Charles E.	"Acquisition of a Carbon/Sulfur Determinator System for Sedimentary Materials"	EAR0139790	19,458 /12	19,458 /24	standard grant for EA
Berkeley Geochronology Cen DEINO, Alan L.	"Development and Documentation of a Computer Program for Noble Gas Data Reduction"	EAR0125758	27,181 /12	27,181 /12	standard grant for ITD
Berkeley Geochronology Cen LUDWIG, Kenneth	"Continued Development, Distribution, and Maintenance of the Isoplot Computer Program"	EAR0125705	29,181 /12	29,181 /12	standard grant for ITD
Berkeley Geochronology Cen RENNE, Paul R.	"Reduction of Systematic Errors in 40Ar/39Ar Geochronology [supplement to EAR-9814378]"	EAR0139975	19,769 /3	19,769 /3	IF suppl for ITD on IF grant
Berkeley Geochronology Cen RENNE, Paul R.	"SGER: Investigation of COMIS for Paleomagnetic and Rock-Magnetic Research"	EAR0236925	5,680 /12	5,680 /12	IF split-funding for ITD 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 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 134,701 and GE = 153
Brown TULLIS, Jan	"Low Temperature Dynamic Recrystallization: Processes and Rheological Consequences"	EAR0208150	2,000 /12	2,000 /12	IF split-funding for EA on PH grant
Bucknell DANIEL, Christopher G.	"Acquisition of a New Environmental Scanning Electron Microscope with Integrated Energy-Dispersive X-ray Analysis System"	EAR0132204	263,917 /18	131,959 /24	standard grant for EA; split-funded w/ OIA/MRI = 131,958
Cal State Long Beach BEHL, Richard J.	"MRI: Acquisition of an Analytical Environmental Scanning Electron Microscope for Research and Teaching"	EAR0216494	224,237 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 224,237
Cal State Long Beach HOLK, Gregory J.	"MRI: Acquisition of a Gas Source Isotope Ratio Mass Spectrometer"	EAR0216017	294,467 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 170,000

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Cal State Northridge PEDONE, Vicki A.	"MRI/RUI: Acquisition of a Scanning-Electron Microscope for Multidisciplinary Research in Physical Sciences at California State U. Northridge"	EAR0216133	247,897 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 247,897
California - Berkeley JEANLOZ, Raymond	"Toward Nanoseismology"	EAR0126217	302,137 /36	51,000 /12	IF split-funding for ITD on PH grant
California - Berkeley KIRCHNER, James W.	"Collaborative Research: Investigating Timescales of Hydrologic Transport in Catchments Using Natural Tracer Time Series, Theoretical Models, and Laboratory-Scale Simulations"	EAR0125550	19,500 /12	19,500 /12	IF split-funding for EA on HS grant
California - Berkeley MANGA, Michael	"Experimental Investigations of the Dynamics of Thermochemical Boundary Layers in the Mantles of Terrestrial Planets"	EAR0124972	35,000 /12	35,000 /12	IF split-funding for EA on PH grant
California - Berkeley RICHARDS, Mark A.	"Planning Conference on Computational Geodynamics"	EAR0221772	21,545 /12	10,773 /12	standard grant for Other; split-funded w/ PH = 10,772
California - Berkeley ROMANOWICZ, Barbara A	"Upgrading of the Joint Computational Facilities at the Berkeley Seismological Laboratory and the Department of Earth and Planetary Science, University of California, Berkeley"	EAR0209752	130,882 /12	100,000 /36	standard grant for EA
California - Davis CASEY, William H.	"Acquisition of a 500 MHz Solid State NMR Spectrometer"	EAR0213546	504,808 /12	- 0 -	on hold for FY '03 decision
California - Davis FOGG, Graham E.	"Dispersion of Water Age in Aquifer Systems and in Groundwater Samples"	EAR0208492	2,000 /12	2,000 /12	IF split-funding for EA on HS grant
California - Davis PASTERNAK, Gregory B.	"Hydraulic Jump Mechanics and Channel Interactions in Mountain Rivers"	EAR0207713	25,000 /36	25,000 /36	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	325,000 /24	standard grant for EA
California - Davis VEROSUB, Kenneth L.	"Technician Support for the Long-Core Magnetometer Facility at UC-Davis, Phase II"	EAR0136498	140,000 /24	69,420 /24	1st yr incr on 2-yr cont grant for TS
California - Davis VEROSUB, Kenneth L.	"MRI: Enhancing the Capabilities for Characterization of Magnetic Materials at the U. of California, Davis."	EAR0216346	273,000 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 175,000
California - Los Angeles GROVE, Martin J.	"Acquisition of a Laser Furnace System to Develop U-Th-He Dating in the UCLA Noble Gas Laboratory"	EAR0132997	43,424 /12	43,424 /24	standard grant for EA
California - Los Angeles MCKEEGAN, Kevin D.	"Support of an Ion Microprobe Facility"	EAR0113563	721,304 /36	240,321 /12	2nd yr incr on 3-yr cont grant for FS
California - Los Angeles YOUNG, Edward D.	"Acquisition of a Laser Ablation-MC-ICPMS for Development of Light Element Isotopes for Applications in the Geological Sciences"	EAR0132629	276,328 /36	276,328 /24	standard grant for EA
California - Riverside FINKEL, Robert C.	"Support for GeoCAMS: An Accelerator Mass Spectrometry Facility for Earth Science Research"	EAR0217981	184,018 /24	98,838 /12	1st yr incr on 2-yr grant for FS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
California - Riverside GREEN, Harry W.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135411	804,511 /60	40,000 /12	IF split-funding for ITD on PH grant
California - San Diego CONSTABLE, Catherine	"A Workshop on Future Development of Paleo and Rock Magnetic Community Databases"	EAR0202996	8,000 /12	8,000 /12	IF split-funding for Other 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	175,000 /12	1st yr incr on 2-yr cont grant for ITD
California - San Diego WYATT, Frank K.	"Improvements in Continuous Long-Base Crustal Deformation Measurements: Pinon Flat Observatory, California [REU supplement to EAR-9910237]"	EAR0125035	18,750 /0	18,750 /0	IF suppl for ITD on IF grant
California - San Diego ZUMBERGE, Mark A.	"Collaborative Research: Tests of Postseismic Deformation Models with Continued Absolute Gravity and GPS Measurements in Alaska, Phase 1"	EAR0208164	2,054 /12	2,054 /12	IF split-funding for EA on PH grant
California - Santa Barbara BUSBY, Cathy J.	"Collaborative Research: Miocene Volcanism in the Sierra Nevada, California: Stratigraphy, Volcanology, Geochronology and Structural Geology"	EAR0125779	8,000 /12	8,000 /12	IF split-funding for EA on CH grant
California - Santa Barbara NEWELL, Andrew J.	"Magnetic Hysteresis in Magnetite: Are Synthetic Samples Stressed?"	EAR0208446	10,000 /12	10,000 /12	IF split-funding for EA on PH 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 -	standard grant for Other; split-funded w/ EAR/ITR-small = 142,055
California - Santa Cruz TULACZYK, Slawek M.	"Acquisition of a Ground Penetrating Radar for the Department of Earth Sciences, University of California, Santa Cruz"	EAR0132244	29,718 /12	19,718 /12	standard grant for EA; split-funded w/ OPP/Glaciology = 5,000 and OPP/ANS = 5,000
California - Santa Cruz WARD, Steven N.	"Collaborative Research: Paleoseismology and Paleogeodesy of the Sumatran Subduction Zone"	EAR0207690	2,694 /36	2,694 /13	IF split-funding for EA on PH grant
California Inst of Tech AHRENS, Thomas J.	"Dynamic Properties of Earth Materials"	EAR0207934	55,329 /12	55,329 /12	IF split-funding for EA on PH grant
California Inst of Tech EILER, John M.	"Technician Support for the Stable Isotope Geochemistry Laboratory at Caltech [Phase I]"	EAR0091842	168,244 /36	56,046 /12	2nd yr incr on 3-yr cont grant for TS
California Inst of Tech EILER, John M.	"Acquisition of Experimental Gas Source Mass Spectrometer for Stable Isotope Gechemistry"	EAR0220066	75,000 /12	- 0 -	on hold for FY '03 decision
California Inst of Tech WERNICKE, Brian P.	"Active Tectonics of Diffuse Intracontinental Deformation [supplement to EAR-9725766]"	EAR0136573	144,221 /0	72,110 /0	IF suppl for Other on CD 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	221,302 /24	10,000 /12	IF split-funding for ITD on CD grant
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	463,778 /12	1st yr incr on 2-yr cont grant for ITD

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Carnegie Inst of Wash-GL HEMLEY, Russell J.	"Chemistry of the Earth's Deep Mantle and Core"	EAR0126009	47,200 /12	47,200 /12	IF split-funding for EA on CH grant
Carnegie Inst of Wash-GL HEMLEY, Russell J.	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135540	178,539 /24	40,000 /12	IF split-funding for ITD on PH grant
Carnegie Inst of Wash-GL LINDE, Alan T.	"Collaborative Research: Magma Reservoir-Conduit Dynamics Revealed by Borehole Geophysical Observatory and Continuous GPS"	EAR0116067	354,681 /36	260,001 /12	IF split-funding for EA on CD 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	178,954 /12	1st yr incr on 3-yr cont grant for ITD
Carnegie Inst of Wash-GL RUMBLE, Douglas	"MRI: Acquisition and Development of an Ultra Violet Laser Sulfur Isotope Microprobe for the Analysis 32S, 33S, 34S, and 36S in Sulfide Minerals"	EAR0215953	211,783 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 211,783
Carnegie Inst of Wash-GL SACKS, I. Selwyn	"Deep Geophysical Observatory in Long Valley Caldera"	EAR0136258	32,087 /0	32,087 /0	IF suppl for ITD on IF grant
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	108,692 /12	3rd yr incr on 3-yr cont grant for FS
Central Washington MILLER, M. Meghan	"Contemporary Cascadia Deformation over Disparate Time Scales: Systematics of Slow Earthquakes and Fore-arc Impingement"	EAR0208214	17,105 /12	17,105 /12	IF split-funding for TS on PH grant
Central Washington MILLER, M. Meghan	"MRI: Leveraged Acquisition of a Seattle Fault GPS network: Four Dimensional Constraint on Seismic and Aseismic Strain Accumulation and Release in the Urbanized Puget Lowlands"	EAR0216626	277,293 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 225,000
Central Washington RUBIN, Charles M.	"Collaborative Research: Patterns of Serial Fault Rupture in Taiwan"	EAR0208444	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 -	2nd yr incr on 2-yr cont grant for EA; split-funded w/ EHR/EPSCoR = 73,980
Chicago HEINZ, Dion L.	"Experimental Determination of the Thermal Equations of State of Mantle and Core Materials [supplement to EAR-9974373]"	EAR0234010	15,000 /0	15,000 /0	IF suppl 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	1,500,000 /12	1st yr incr on 3-yr cont grant for FS
Chicago SHUBIN, Neil H.	"Early Salamanders from Northern China"	EAR0126451	5,100 /12	5,100 /12	IF split-funding for EA on GE grant
Colgate HARPP, Karen S.	"Collaborative Research: RUI: The Origin and Evolution of the Galapagos Lithosphere, Floreana Volcano"	EAR0207425	4,000 /36	4,000 /36	IF split-funding for EA on CH grant
Colgate PECK, William H.	"MRI/RUI: Acquisition of a Stable Isotope Ratio Mass Spectrometer"	EAR0216179	205,164 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 150,000

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Colorado LARSON, Kristine	"Measurement-Based Multipath Corrections for GPS Sites"	EAR0003943	171,908 /24	77,133 /12	2nd yr incr on 2-yr cont grant for ITD
Colorado LARSON, Kristine	"Hybrid Measurements of Crustal Deformation in Guerrero, Mexico"	EAR0125618	36,532 /12	36,532 /12	IF split-funding for EA on PH grant
Colorado SMYTH, Joseph R.	"Upgrade of High Pressure Mineral Physics Laboratory"	EAR0131874	46,379 /18	46,379 /24	standard grant for EA
Colorado School of Mines ILLANGASEKARE, Tissa	"Fundamental Evaluation of Tracer Techniques for Characterization of NAPL Retention Volumes in Heterogeneous Aquifers"	EAR0107095	3,000 /12	3,000 /12	IF split-funding for EA on HS grant
Colorado State STEIN, Holly J.	"187Re-187Os Calibration of Molybdenite from Henderson, Colorado: A New NIST Reference Material"	EAR0111876	144,995 /24	39,882 /12	2nd yr incr on 2-yr cont grant for ITD
Columbia - LDEO CLASS, Cornelia	"The Question of Delaminated Continental Lithosphere in South Atlantic Oceanic Basalt Sources - A Study of Mantle and Lower Crustal Samples from Southern Africa"	EAR0207311	8,100 /24	8,100 /24	IF split-funding for EA on CH grant
Columbia - LDEO SPIEGELMAN, Marc	"Dynamics of Partially Molten Regions: Development of New Tools for Understanding Melt Localization by Mechanical Deformation"	EAR0207851	36,370 /24	36,370 /24	IF split-funding on ITD on PH grant
Columbia - LDEO WALKER, David	"Experimental Petrology of Planetary Materials"	EAR0207546	9,000 /12	9,000 /12	IF split-funding for EA on CH grant
Cornell BROWN, Larry D.	"Structure and Tectonics of Central Tibet from Re-Analysis of Oil Exploration Data [supplement to EAR-0106861]"	EAR0213398	10,000 /6	10,000 /6	IF suppl for Other on TE grant
Cornell BROWN, Larry D.	"ITR: Electronic Library of Lithospheric Imagery from deepP Seismic Exploration (ELLIPSE)"	EAR0219069	150,843 /24	- 0 -	1st yr incr on 2-yr cont grant for Other; split-funded w/ EAR/ITR-Small = 109,201
Cornell DERRY, Louis A.	"Research Technician Support [Phase II]"	EAR0091771	140,000 /24	70,000 /12	2nd yr incr on 2-yr cont grant for TS
Cornell SEBER, Dogan	"ITR/IM: A National Earth Science Knowledge Node for Research and Education"	EAR0112655	496,260 /36	- 0 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 100,000 and EH = 50,000
Dartmouth FENG, Xiahong	"Acquisition of Continuous-Flow Stable Isotope Analytical Equipment at Dartmouth College"	EAR0132018	68,954 /12	68,954 /24	standard grant for EA
Dartmouth FENG, Xiahong	"Technician Support: Watershed Studies at Dartmouth College [Phase I]"	EAR0111403	141,700 /36	47,149 /12	2nd yr incr on 3-yr cont grant for TS
Dartmouth SHARMA, Mukul	"Acquisition of a New Generation Thermal Ionization Mass Spectrometer at Dartmouth"	EAR0130631	267,997 /12	133,999 /24	standard grant for EA; split-funded w/ OCE/MGG = 133,998
Delaware State GWANMESIA, Gabriel D.	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135431	277,452 /60	20,000 /12	IF split-funding for ITD on PH grant
Duke ALBERTSON, John D.	"Organized Turbulence over Forested Landscapes: Theoretical Basis for a Low-Dimensional Transport Model"	EAR0208258	10,000 /12	10,000 /12	IF split-funding for EA on HS grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Duke MALIN, Peter E.	"Collaborative Proposal: Magma Reservoir-Conduit Dynamics as Revealed by Borehole Geophysical Observatory and Continuous GPS"	EAR0115991	227,592 /36	125,030 /12	IF split-funding for EA on CD grant
Field Museum Nat Hist WAGNER, Peter J.	"Testing the Generality of Macroevolutionary Patterns with Bellerophon Molluscs"	EAR0207874	6,950 /36	6,950 /36	IF split-funding for EA on GE grant
Florida International SAXENA, Surendra K.	"Development of High-Temperature Technique with Diamond Anvil Window Cells for Use in Geophysical Sciences"	EAR0132270	827,024 /36	185,576 /12	1st yr incr on 2-yr cont grant for ITD
Florida International SEN, Guatam	"Upgrade of Superconducting Rock Magnetometer [supplement to EAR-0004064]"	EAR0203692	7,840 /0	7,840 /0	IF suppl for EA on IF grant
Florida State ERICKSON, Gregory M.	"Collaborative Research: Life History Strategies, Growth Rates, and Microstructural Character Evolution Across the Coelurosaurian/Avialan Transition"	EAR0207744	15,677 /12	15,677 /12	IF split-funding for EA on GE grant
Florida State SALTERS, Vincent J.	"Hf-isotopes in Ocean Island Basalts and Meteorites"	EAR0124965	10,000 /12	10,000 /12	IF split-funding for EA on CH grant
Florida State SCHMEECKLE, Mark W.	"CAREER: Interaction between Turbulence Structures and Suspended Sediment in Rivers"	EAR0134924	30,000 /12	30,000 /12	IF split-funding for EA on GE grant
Georgia State BURNLEY, Pamela C.	"Collaborative Research: COMPRES Grand Challenges for Experimental Study of Plastic Deformation"	EAR0136107	196,109 /60	20,000 /60	IF split-funding for ITD on PH grant
GSY-USA, Inc. MACKIE, Randall L.	"Collaborative Research: Fast, Conjugate Gradients-Based Algorithm for 3-D Magnetotelluric Inversion [supplement to EAR-9903025]"	EAR0135138	29,550 /12	29,550 /0	IF suppl for ITD on IF grant
Harvard EKSTROM, Goran	"Upgrading of Computer Facility for Research in Seismology"	EAR0214069	147,365 /12	147,365 /36	standard grant for EA
Harvard JACOBSEN, Stein B.	"Technician Support: EPS TIMS Facility at Harvard (Phase II)"	EAR0093652	80,635 /24	41,218 /12	2nd yr incr on 2-yr cont grant for TS
Hawaii BEVIS, Michael G.	"Acquisition of New GPS Equipment in Support of the Central Andes GPS Project (CAP)"	EAR0214523	120,000 /12	- 0 -	on hold for FY '03 decision
Hawaii HERRERO-BERVERA, E.	"Acquisition of Equipment for Measuring Magnetic Properties of Rocks"	EAR0213441	70,000 /12	35,000 /24	standard grant for EA; split-funded w/ EHR/EPSCoR = 35,000
Hawaii RAVIZZA, Gregory E.	"Acquisition of a High Resolution, Sector Field, ICP-MS and Laser Ablation System"	EAR0215297	344,375 /24	78,331 /24	standard grant for EA; split-funded w/ OCE/ITS = 117,319, OCE/MGG = 58,695 and OCE/CO = 58,695
Hawaii - Hilo HON, Ken	"MRI: Development of an Electron Microprobe Teaching & Research Facility"	EAR0116904	143,901 /12	- 0 -	2nd yr incr on 2-yr cont grant for EA; split-funded w/ EHR/EPSCoR = 75,951
Howard BERNOR, Raymond L.	"Collaborative Research: Evolutionary History of Holarctic and Ethiopian Horses: Systematics, Lineage Extensions and Adaptations"	EAR0125009	11,149 /12	11,149 /12	IF split-funding for EA on GE grant
Illinois BASS, Jay D.	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135642	845,053 /60	40,000 /12	IF split-funding for ITD on PH grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Illinois BASS, Jay D.	"Development of Laser Heating for Sound Velocity Measurements at High P and T [supplement to EAR-0002021]"	EAR0200908	7,000 /0	7,000 /0	IF suppl for ITD on IF grant
Illinois KUMAR, Praveen	"Inter-Annual Variability of the Hydrologic Cycle over North America"	EAR0208009	6,500 /12	6,500 /12	IF split-funding for EA on HS grant
Illinois - Chicago GUGGENHEIM, Stephen J.	"Support of UIC Single-Crystal X-ray Diffraction Facilities"	EAR0129824	156,150 /12	156,150 /24	standard grant for EA
Illinois - Chicago GUGGENHEIM, Stephen J.	"Intercalation of Gas Hydrates in Clays"	EAR0207770	15,500 /12	15,500 /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	91,347 /12	1st yr incr on 3-yr cont grant for Other
Illinois - Chicago PLOTNICK, Roy E.	"Theoretical Morphology and Spatial Analysis of Trace Fossils"	EAR0207194	7,000 /24	7,000 /24	IF split-funding for EA on GE grant
Indiana HAMBURGER, Michael W.	"Acquisition of Instruments for Geodetic and Seismological Study of Magmatic Processes at Taal and Mayon Volcanoes, Philippines"	EAR0208134	137,505 /18	- 0 -	on hold for FY '03 decision
Indiana SCHIMMELMANN, Arndt	"Acquisition of an Isotope Ratio Monitoring Mass Spectrometer for H, O, C, and N in Waters, Hydrous Minerals, Carbonates, and Organic Materials, and an Accelerated Solvent Extractor"	EAR0214265	245,000 /12	- 0 -	on hold for FY '03 decision
Internat Seismological Ctr WILLEMANN, Raymond J.	"Partial Support of the International Seismological Centre"	EAR0128053	635,421 /48	170,360 /12	1st yr incr on 4-yr cont grant for FS
Internat Seismological Ctr WILLEMANN, Raymond J.	"Developing New Services at the International Seismological Centre"	EAR9909662	17,395 /12	4,177 /12	IF split-funding for FS on PH grant
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan"	EAR0004370	76,291,841 /60	12,928,510 /12	2nd yr incr on 5-yr CAGR EAR-0004370 for FS; split-funded w/ OPP/AGG = 127,314 and OPP/Glaciology = 29,815
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0213705	855,034 /6	- 0 -	IF suppl for FS on CAGR EAR-0213705; split-funded w/ OCE/OTIC = 855,034 for support of the Hawaii-2 Observatory
IRIS SIMPSON, David W.	"Exploring the Earth at High Resolution: The IRIS 2005 Program Plan [supplement to CAGR EAR-0004370]"	EAR0211176	30,000 /0	- 0 -	IF suppl for Other on CAGR EAR-0004370 ; split-funded w/ interagency transfer from NASA = 30,000 for support of EarthScope education & outreach workshop
Johns Hopkins STANLEY, Steven M.	"Experiments on the Effects of the Magnesium-Calcium Ratio of Seawater on Carbonate Skeletal Secretion"	EAR0202849	3,536 /12	3,536 /12	IF split-funding for EA on GE grant
Johns Hopkins WILCOCK, Peter R.	"Modeling Bed-Surface Dynamics in Gravel-Bed Rivers"	EAR0106561	7,300 /12	7,300 /12	IF split-funding for EA on HS grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Keuka College VERDONCK, David	"RUI: Using an Elastic Dislocation Model to Test an Alternative Hypothesis Regarding the Cascadia Subduction Zone"	EAR0208019	2,000 /18	2,000 /18	IF split-funding for EA on PH grant
Lawrence Berkeley Lab WAYCHUNAS, Glenn	"Interdisciplinary Workshop on Nanogeoscience"	EAR0226362	36,000 /6	18,000 /12	standard grant for Other; split-funded w/ EAR/DR = 18,000
Lehigh BEBOUT, Gray E.	"Devolitilization and Trace Element Mobility During Subduction-Zone Metamorphism: Record in Alpine Blueschist-Eclogite Suites [supplement to EAR-0079331]"	EAR0209277	35,400 /12	35,400 /12	IF suppl for EA on IF grant
Louisiana State BAO, Huiming	"Acquisition of a CO2-Laser Fluorination System and a Mass Spectrometer System for Multiple Stable Isotope Analyses"	EAR0129793	235,919 /12	59,960 /24	standard grant for EA; split-funded w/ EHR/EPSCoR = 117,959 and OPP/AGG = 58,000
Louisville LAGER, George A.	"Acquisition of Equipment to Establish a High-Pressure Single-Crystal X-Ray Laboratory"	EAR0131979	55,540 /12	55,540 /24	standard grant for EA
Maine GUIDOTTI, Charles V.	"MRI: Acquisition of a Modern Electron Microprobe at the University of Maine"	EAR0116235	626,745 /24	- 0 -	2nd yr incr on 2-yr cont grant for EA; split-funded w/ EHR/EPSCoR = 237,500
Maine KREUTZ, Karl J.	"MRI: Acquisition of a High Resolution ICP-MS for Environmental Research and Training in Maine"	EAR0215724	551,569 /36	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = \$175,304 and EHR/EPSCoR = 175,000
Maryland FARQUHAR, James	"Acquisition of a UV Laser System"	EAR0132377	61,600 /24	61,600 /24	standard grant for EA
Maryland LOWER, Steven K.	"Acquisition of an Integrated Scanning Probe, Scanning Laser, Optical Microscope"	EAR0132433	349,859 /24	349,859 /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	2nd yr incr on 2-yr cont grant for TS
Maryland - CEES TOWNSEND, Philip A.	"Collaborative Research: Modeling the Impacts of Post-Settlement Sediment Deposition on Floodplain Vegetation"	EAR0105929	5,000 /0	5,000 /12	IF split-funding for EA on HS grant
Memphis WITHERS, Mitchell M.	"Upgrading of the CERl Computing Services"	EAR0214206	172,304 /12	85,000 /36	standard grant for EA
Miami - Ohio DONG, Hailiang	"SGER: Chinese Continental Scientific Drilling Project: A Unique Opportunity for Studying the Deep Subsurface Microbiology"	EAR0201609	8,434 /12	8,434 /12	IF split-funding for EA on GE grant
Michigan MUKASA, Samuel B.	"Upgrading and Refurbishing of the "Multi-1" Mass Spectrometer at the University of Michigan [supplement to EAR-9909598]"	EAR0207400	33,000 /6	33,000 /6	IF suppl for EA on IF grant
Michigan VAN KEKEN, Peter E.	"ITR: Collaborative Research: The Geowall - Stereo Visualization for the Earth Sciences"	EAR0219246	193,280 /36	62,655 /12	1st yr incr on 3-yr cont grant for Other
Michigan State WEISSMANN, Gary S.	"CAREER: Integrated Stratigraphic and Hydrogeologic Aquifer Analysis: Toward Improved Multi-scale Characterization of Alluvial Aquifer Systems"	EAR0133666	12,000 /12	12,000 /12	IF split-funding for EA on HS grant
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism"	EAR0218384	1,896,496 /60	374,068 /12	1st yr incr on 5-yr cont grant for FS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism [supplement to EAR-9818704]"	EAR0211653	10,000 /0	4,000 /0	IF suppl for Other on IF grant; split-funded w/ PH = 6,000 for support of Int'l School of Geophysics Summer School on Fundamental Rock Magnetism and Environmental Magnetism
Minnesota FOUFOULA-GEORGIOU,	"Hydrology of Braided River Systems"	EAR0207556	2,500 /12	2,500 /12	IF split-funding for EA on HS grant
Minnesota KOHLSTEDT, David L.	"Evolution of Melt Distribution During Deformation of Partially Molten Mantle Rocks: Implications for Geodynamical Processes [supplement to EAR-9815039]"	EAR0123213	5,000 /0	5,000 /0	IF suppl for EA on PH grant
Minnesota WENTZCOVITCH, Renata	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135533	440,887 /60	40,000 /12	IF split-funding for ITD on PH grant
Minnesota YUEN, David A.	"CSEDI: Collaborative Research: The Influence of Thermal Conductivity on Stabilization and Feedback in Mantle Convection"	EAR0207176	2,500 /12	2,500 /12	IF split-funding for EA on PH grant
Mississippi DAVIDSON, Gregg R.	"Adsorption of Inorganic Carbon on Volcanic Rock: Implications for Global CO2 Budgets and 14C-Dating of Groundwater (Pilot Study)"	EAR0210003	18,500 /24	18,500 /12	IF split-funding for EA on HS grant
Missouri - Kansas City SLATER, Lee	"Investigating the Complex Resistivity (0.01-1000 Hz) Response to Saturation State for Unconsolidated Sediments [supplement to EAR-0073680]"	EAR0213532	7,490 /0	7,490 /0	IF suppl for Other on IF grant
MIT BURCHFIEL, B. Clark	"Proposal for Collaborative Research in Eastern Tibet: Evolution and Dynamics of the Crust, Mantle, and Surface Topography [supplement to EAR-0003571]"	EAR0137284	62,250 /12	62,250 /12	IF suppl for EA on CD grant
MIT EVANS, J. Brian	"Towards a Robust Constitutive Law for Calcite Rocks"	EAR0125669	6,000 /12	6,000 /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 HERRING, Thomas A.	"Support for UNAVCO, Inc. and Pre-Plate Boundary Observatory (PBO) Planning Activities"	EAR0200066	283,092 /6	104,092 /6	standard grant for Other; split-funded w/ EAR/ES = 179,000
MIT NEPF, Heidi M.	"Momentum and Scalar Exchange Between Channels and Vegetated Banks"	EAR0125056	58,500 /12	58,500 /12	IF split-funding for EA on HS grant
Mount Holyoke DUNN, Steven R.	"MRI/RUI: Acquisition of a Scanning Electron Microscope at Mount Holyoke College"	EAR0216182	226,560 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 226,560
National Museum of Nat Hist WILLIAMSON, Thomas E.	"Collaborative Research: Evaluating the Contribution of Late Cretaceous Biogeography to Earliest Cenozoic Biodiversity in North America"	EAR0207750	7,513 /36	7,513 /36	IF split-funding for EA on GE grant
New Mexico ASMEROM, Yemane	"Acquisition of a MC-ICPMS for Earth Sciences Research in New Mexico"	EAR0214294	450,100 /12	- 0 -	on hold for FY '03 decision

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
New Mexico BREARLEY, Adrian J.	"Acquisition of an Electron Microprobe"	EAR0112339	300,000 /24	280,000 /24	standard grant for EA
New Mexico FISCHER, Tobias P.	"Collaborative Research: Resolving Mantle, Crustal and Slab Fluxes to Arc Magmatism in Central America Using Geothermal Fluids and Volcanic Rocks [supplement to EAR-0003668]"	EAR0206113	8,300 /12	8,300 /12	IF suppl for EA on CH grant
New Mexico GEISSMAN, John W.	"Upgrade to the Superconducting Rock Magnetometer and Acquisition of a High-Sensitivity Susceptibility System, Paleomagnetism Laboratory"	EAR0213978	108,600 /12	108,600 /24	standard grant for EA
New Mexico Highlands LINDLINE, Jennifer	"MRI: Acquisition of Powder X-Ray Diffraction and Spectroscopy Instrumentation for Mineral and Soil Research at New Mexico Highlands U."	EAR0216556	91,188 /18	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 45,594 and EHR/EPSCoR = 45,594
New Mexico State HEARN, Thomas M.	"Upgrade of the Computational Facilities in the Geophysics Program at New Mexico State University"	EAR0207495	40,000 /12	40,000 /36	standard grant for EA
New Mexico Tech CAMPBELL, Andrew R.	"MRI: Acquisition of a Stable Isotope Mass Spectrometer"	EAR0216030	194,502 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 175,000
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 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 29,863
Northwestern RUSSO, Raymond M.	"Studies of Crust and Upper Mantle Structure, Mantle Flow, and Geodynamics of the Chile Ridge Subduction"	EAR0126244	4,500 /12	4,500 /12	IF split-funding for EA on PH grant
Oberlin WOJTAL, Steven F.	"MRI: Integrated Information Suite for Geology and Archeology"	EAR0215922	221,524 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 88,478
Ohio SCHNEIDER, David A.	"Acquisition of Earth Material Processing Equipment for Investigating Active and Ancient Orogenic and Geologic Systems"	EAR0210213	55,379 /12	55,379 /24	standard grant for EA
Ohio State FOLAND, Kenneth A.	"Technician Support: Ohio State University, Radiogenic Isotopes Laboratory - Phase I"	EAR0137546	162,049 /36	52,368 /36	1st yr incr on 3-yr cont grant for TS
Ohio State LYONS, W. Berry	"Acquisition of an X-Ray Fluorescence Spectrometer for Geological and Environmental Analysis."	EAR0135318	131,200 /12	131,200 /24	standard grant for EA
Oklahoma LONDON, David	"Multicomponent Diffusion and Speciation Reactions of Major Melt Components, High Field Strength Elements, and Ligands in Haplogranite Melt"	EAR0124179	30,000 /12	30,000 /12	IF split-funding for EA on CH grant
Oregon CASHMAN, Katharine V.	"Collaborative Research: Physical Properties of Bubble- and Crystal-bearing Melts and their Implications for Eruption"	EAR0207362	21,000 /12	21,000 /12	IF split-funding for EA on CH grant
Oregon CASHMAN, Katherine V.	"Thermal and Rheological Controls on the Emplacement of Basaltic Lava Flows"	EAR0207919	5,000 /12	5,000 /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	2nd yr incr on 3-yr cont grant for TS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
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 [supplement to EAR-0080267]"	EAR0124227	19,994 /0	- 0 -	IF suppl for ITD on IF grant ; split-funded w/ OCE/CO = 19,994
Penn State SLINGERLAND, Rudy L.	"Passive Acoustic Measurement of Bedload Transport in Natural Bedrock Channels"	EAR0126131	9,000 /12	9,000 /12	IF split-funding for EA on HS grant
Penn State VOIGHT, Barry	"Collaborative Research: Magma Reservoir-Conduit Dynamics Revealed by Borehole Geophysics Observatory and Continuous GPS"	EAR0116826	669,048 /36	34,969 /12	IF split-funding for EA on CD grant
Penn State - Altoona FLAREND, Richard	"MRI/RUI: Development of Aluminum Nitride and Aluminum Boride AMS Source Targets"	EAR0216207	107,488 /24	- 0 -	standard grant for ITD; split-funded w/ OIA/MRI = 24,985
Pittsburgh CAPO, Rosemary C.	"Technician Support: Geochemistry Laboratories at the University of Pittsburgh, Phase I"	EAR0214212	118,347 /36	38,578 /12	1st yr incr on 3-yr grant for TS
Princeton BUNGE, Hans-Peter	"ITR/AP: A Finite Element Geodynamo Model Optimized for High-Speed Beowulf PC-Clusters"	EAR0113050	496,270 /36	- 0 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 233,972
Princeton NOLET, Guust M.	"Acquisition of a Beowulf Cluster for Seismological Research"	EAR0131152	99,600 /24	99,600 /36	standard grant for EA
Purdue ELMORE, David	"Facility Support: The Purdue Rare Isotope Measurement Laboratory"	EAR0112480	2,864,054 /36	250,000 /6	2nd incr on 1.5-yr cont grant for FS
Purdue FARLOW, James O.	"Late Tertiary Continental Fossils from the Pipe Creek Sinkhole, Grant County, Indiana"	EAR0207182	4,018 /48	4,018 /48	IF split-funding for EA on GE grant
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 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 135,835
Rice LUTTGE, Andreas	"Towards a Fundamental Understanding of Mineral Dissolution Kinetics: An Integrated Experimental and Theoretical Approach"	EAR0125667	3,500 /12	3,500 /12	IF split-funding for EA on CH grant
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	67,734 /12	1st yr incr on 2-yr cont grant for TS
Rutgers SWISHER, Carl C.	"Acquisition of a 40Ar/39Ar Dating Laboratory at Rutgers University"	EAR0130292	155,000 /12	80,000 /24	standard grant for EA; split-funded w/ SBE/AAS = 75,000
Saint Louis KOPER, Keith D.	"Upgrade of Computer Facilities for the Seismology Research Group at Saint Louis University"	EAR0214259	67,425 /24	67,425 /36	standard grant for EA
Science Museum of MN CURRY ROGERS, Kristina	"Collaborative Research: Life History Strategies, Growth Rates, and Microstructural Character Evolution Across the Coelurosaurian/Avialan Transition"	EAR0207349	16,233 /36	16,233 /36	IF split-funding for EA on GE grant
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	211,600 /24	3,000 /12	IF split-funding for ITD on CD grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Southern California JORDAN, Thomas H.	"Data Acquisition for the WInSAR Consortium"	EAR0216975	108,000 /12	33,000 /12	standard grant for EA; split-funded w/ interagency transfer from NASA = 75,000
Southern Maine POLLOCK, Stephen G.	"MRI: X-Ray Diffraction at the University of Southern Maine"	EAR0116481	185,449 /24	- 0 -	2nd yr incr on 2-yr cont grant for EA; split-funded w/ EHR/EPSCoR = 67,014
Stanford CHAMBERLAIN, C. P.	"Phase II: Technician Support for Gas-Isotope Ratio Mass Spectrometer Laboratory at Stanford University"	EAR0217128	139,780 /24	- 0 -	on hold for FY '03 decision
Stanford GORELICK, Steven M.	"Mapping Aquifer Heterogeneity: Integrated Analysis of Electrical Resistance Tomography, Tracer Tests, and Hydraulic Data"	EAR0124262	18,000 /12	18,000 /12	IF split-funding for EA on HS grant
SUNY - Buffalo BECKER, Matthew W.	"Integrating Hydraulic, Tracer, and Geophysical Methods to Image Flow-Channeling Behavior in Fractured Bedrock"	EAR0207720	5,000 /12	5,000 /12	IF split-funding for EA on HS grant
SUNY - Buffalo JANKOVIC, Igor	"ITR: Virtual Porous Medium for Modeling Contaminant Spreading in Groundwater"	EAR0218914	482,344 /48	- 0 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 89,504
SUNY - Oneonta SCHAUMLOFFEL, John C.	"MRI/RUI: Acquisition of an Inductively Coupled Plasma Atomic Emission Spectrometer and Microwave Digestion System"	EAR0215734	88,764 /24	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 88,764
SUNY - Stony Brook LI, Baosheng	"Collaborative Research: Elasticity Grand Challenge of the COMPRES Initiative"	EAR0135550	885,376 /60	40,000 /12	IF split-funding for ITD on PH grant
SUNY - Stony Brook WEIDNER, Donald J.	"Consortium for Materials Properties Research in the Earth Sciences"	EAR0135554	13,561,585 /60	1,800,001 /12	1st yr incr on 5-yr CAGR EAR-0135554 for FS
SUNY - Stony Brook WEIDNER, Donald J.	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth Conditions"	EAR0135551	873,666 /60	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	1st yr incr on 3-yr cont grant for TS; split-funded w/ OPP/AGG = 20,000
Temple TORAN, Laura	"Collaborative Research: Suspended Sediment Transport in Karst"	EAR0125601	28,966 /12	28,966 /12	IF split-funding for EA on HS grant
Tennessee MORA, Claudia I.	"Technician Support: Stable Isotope Laboratory at the University of Tennessee [Phase I]"	EAR0004104	126,730 /36	42,231 /12	2nd 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	133,369 /12	2nd yr incr on 3-yr cont grant for ITD
Texas BUCKLEY, Sean M.	"ITR: Post-Processing Strategies for Radar Differential Interferometry"	EAR0219293	98,893 /36	33,893 /12	1st yr incr on 3-yr cont grant for Other
Texas CARLSON, William D.	"Facility Support: High Resolution X-Ray Computed Tomography Laboratory"	EAR0004082	386,294 /36	128,672 /12	2nd yr incr on 3-yr cont grant for FS
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 -	2nd yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 67,750

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities"	EAR0204919	10,520,000 /48	2,024,584 /12	3rd yr incr on 4-yr CAGR ATM-9732665/SPO#2 EAR-9903413 for FS; split-funded w/ OPP/OSP = 111,500, OPP/ABM = 16,000, OPP/AGG = 33,500, OPP/AG = 39,000 and OPP/ARSL = 13,700
UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities [supplement to CAGR ATM-9732665 SPO #2 EAR-9903413]"	EAR0228773	1,139,215 /12	183,622 /12	IF suppl for FS on CAGR ATM-9732665/SPO#2 EAR-9903413; split-funded w/ interagency transfer from NASA = 940,720 for SENH and IGS activities and PH = 14,873 for project specific support
UCAR - UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities [supplement to CAGR ATM-9732665 SPO #2 EAR-9903413]"	EAR0228935	94,507 /0	- 0 -	IF suppl for FS on CAGR ATM-9732665/SPO#2 EAR-9903413 ; split-funded w/ OPP/ARSL = 94,507 for project specific support
UNAVCO, Inc. DAVIS, James L.	"Support for UNAVCO, Inc. Headquarter Operations"	EAR0229402	711,354 /14	2,363 /3	1st yr incr on 2-yr cont grant for FS; split-funded w/ EAR/ES = 150,000
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	- 0 -	on hold for FY '03 decision
Utah HALGEDAHL, Susan L.	"Micromagnetic Experiments on Small Single Particles: Defects, Nucleation, and Wall-Pinning"	EAR0125993	9,000 /12	9,000 /12	IF split-funding for EA on PH grant
Vanderbilt AYERS, John C.	"Monazite as a Sensitive Indicator of the Timing and Type of Fluid Activity During Metamorphism"	EAR0126020	5,700 /12	5,700 /12	IF split-funding for EA on CH grant
Vermont BIERMAN, Paul R.	"Acquisition of an ICP for Research and Research Training"	EAR0132169	203,216 /24	63,000 /24	standard grant for EA; split-funded w/ EHR/EPSCoR = 63,000
Virginia MILLS, Aaron L.	"Effect of Transient Hydrologic Events on Biogeochemical Processes"	EAR0208386	6,000 /12	6,000 /12	IF split-funding for EA on HS grant
Virginia Tech BURBEY, Thomas J.	"Assessing Aquifer Properties from Stress and Strain Distributions in Leaky-Confined Aquifers using InSAR, GPS and Three Dimensional Deformation and Flow Modeling"	EAR0106474	5,500 /12	5,500 /12	IF split-funding for EA on HS grant
Virginia Tech SCHREIBER, Madeline	"Transport, Transformation, and Retention of Arsenic in a Headwater Stream: Hydrologic, Biological, and Geochemical Controls"	EAR0207784	6,000 /36	6,000 /36	IF split-funding for EA on HS grant
Washington BOOKER, John R.	"Collaborative Research: A National Instrument Facility for ElectroMagnetic Studies of the Continents (EMSOC) [supplement to EAR- 9616421]"	EAR0216845	42,368 /0	42,368 /0	IF suppl for FS on IF grant
Washington BOURGEOIS, Joanne	"Late Quaternary Tectonics and Environmental History in the Kamchatka- Komandorsky Region, Russian Far East"	EAR0125787	5,000 /12	5,000 /12	IF split-funding for EA on GE 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 -	1st yr incr on 3-yr cont grant for Other; split-funded w/ EAR/ITR-small = 121,474

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Washington KRESS, Victor C.	"Development of a High-Pressure Facility at the University of Washington"	EAR0214547	77,874 /12	- 0 -	on hold for FY '03 decision
Washington PLANT, William J.	"Non-Contact River Discharge and Precipitation Measurements"	EAR0106391	3,258 /12	3,258 /12	IF split-funding for EA on HS grant
Washington SHREVE, Ronald L.	"Collaborative Research: Role of Turbulence Structure in Bedload Transport"	EAR0125525	2,000 /12	2,000 /12	IF split-funding for EA on GE grant
Washington - St. Louis HOFMEISTER, Anne M.	"Acquisition of a Laser-Flash Apparatus for Measurement of Thermal Diffusivity to 2000C"	EAR0132275	130,260 /12	130,260 /24	standard grant for EA
Washington - St. Louis HOFMEISTER, Anne M.	"CSEDI: Collaborative Research: The Influence of Thermal Conductivity on Stabilization and Feedback in Mantle Convection"	EAR0207198	14,500 /12	14,500 /12	IF split-funding for EA on PH grant
Washington - St. Louis WIENS, Douglas A.	"Acquisition of a New Geophysics Computer System"	EAR0207737	96,999 /24	26,999 /36	standard grant for EA; split-funded w/ OPP/AGG = 45,000, OCE/MGG = 12,500 and OCE/ITS = 12,500
Washington State MEINERT, Lawrence D.	"Renovation and Upgrading of Fluid Inclusion Laboratory"	EAR0207247	27,578 /12	27,578 /24	standard grant for EA
Washington State PAPANICOLAOU, Thanos	"Collaborative Research: Hydraulic and Geomorphic Controls on the Evolution of Cluster Bedforms in Gravel-Bed Streams"	EAR0208358	6,000 /48	6,000 /12	IF split-funding for EA on HS grant
Washington State WOLFF, John A.	"Acquisition of an X-ray Fluorescence Spectrometer"	EAR0216928	176,135 /12	- 0 -	on hold for FY '03 decision
WHOI EDWARDS, Katrina J.	"Acquisition of an Atomic Force Bioscope [supplement to EAR-0091716]"	EAR0138378	6,916 /12	3,458 /0	IF suppl for EA on IF grant; split-funded w/ OCE/ITS = 3,458
WHOI HIRTH, J. Gregory	"Convection of the Mantle Wedge Above Subduction Zones"	EAR0125919	4,000 /12	4,000 /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	69,680 /12	1st yr incr on 2-yr cont grant for TS
WHOI KURZ, Mark D.	"Evolution of the Galapagos Hotspot"	EAR0126097	8,675 /12	8,675 /12	IF split-funding for EA on CH grant
WHOI LICCIARDI, Joseph M.	"Chronology of the Late Pleistocene Yellowstone Ice Cap"	EAR0125625	2,500 /12	2,500 /12	IF split-funding for EA on GE grant
WHOI SHIMIZU, Nobumichi	"Support of a National Ion Microprobe Facility at Woods Hole Oceanographic Institution"	EAR0115433	830,406 /36	281,318 /12	2nd yr incr on 2-yr cont grant for FS
Wisconsin DEMETS, Dennis C.	"Toward Improved Models of Caribbean Plate Motion and Non-Rigidity and the Neotectonics of Jamaica: Continuation of Caribbean Global Positioning System Measurements"	EAR0126396	13,156 /12	13,156 /12	IF suppl for EA on PH grant
Wisconsin ROWE, Charlotte A.	"Application of High-Precision Earthquake Location to Subduction Zones: Japan and New Zealand"	EAR0125164	6,000 /12	6,000 /12	IF split-funding for EA on PH grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY02 Funding by IF/months	Comments
Wisconsin SAHAI, Nita	"Role of Silicon-Organic Interactions in Silica Biomineralization"	EAR0208036	16,500 /12	16,500 /12	IF split-funding for EA on CH grant
Wisconsin SINGER, Bradley S.	"Technician Support for University of Wisconsin Rare Gas Geochronology Laboratory [Phase I]"	EAR0114055	128,688 /36	42,863 /12	2nd yr incr on 3-yr cont grant for TS
Wisconsin - Eau Claire IHINGER, Phillip D.	"MRI/RUI: Acquisition of FTIR Spectrometer and Microscope for Faculty-Student Collaborative Research in Geology"	EAR0216496	76,992 /12	- 0 -	standard grant for EA; split-funded w/ OIA/MRI = 76,992
Wyoming CHEADLE, Michael	"Acquisition of a State-of-the-Art Electron Backscatter Diffraction Facility"	EAR0132207	58,632 /0	29,316 /24	standard grant for EA; split-funded w/ EHR/EPSCoR = 29,316
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	45,000 /12	1st 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	- 0 -	on hold for FY '03 decision
Yale AGUE, Jay J.	"Testing For Regional Fluid Flow in Subducted Crust, Tinos Island, Cyclades (Greece) [supplement to EAR-0105927]"	EAR0223325	31,600 /0	31,600 /0	IF suppl for EA on CH grant
Yale BENOIT, Gaboury	"Acquisition of Advanced Equipment for Measurement of Metal Speciation in Fresh Waters"	EAR0132428	79,439 /12	55,607 /24	standard grant for EA
Yale KARATO, Shun-ichiro	"Acquisition of a Scanning Electron Microscope at Yale Geology and Geophysics"	EAR0216784	344,338 /24	344,338 /24	standard grant for EA
Yale KARATO, Shun-ichiro	"Collaborative Research: COMPRES Grand Challenge for Experimental Study of Plastic Deformation under Deep Earth"	EAR0136181	959,177 /60	70,000 /12	IF split-funding for ITD on PH grant
Yale PARK, Jeffrey J.	"Wedge Issues: Seismic Anisotropy, Structural Geology and Upper-Mantle Dynamics in Subduction Zones [supplement to EAR-0106867]"	EAR0210923	14,476 /12	14,476 /12	IF suppl for EA on PH grant

ABBREVIATIONS and EXPLANATIONS

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

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
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

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-2002

PROPOSALS

DOLLARS

Total number of proposals processed by IF	341	Total dollars requested of IF (per year for multi-year proposals)	56,232,309
Logged-in to IF as primary program	237	Total awarded through IF actions in FY-2002	37,795,908
New proposals; full review by IF	183	Awarded from IF budget	29,412,086
Declined	87	For equipment acquisition/upgrade (EA)	5,364,055
Funded entirely from IF budget	44	For instr and technique development (ITD) ...	1,885,033
Split-funded with other programs ..	41	For facility support (FS)	20,637,907
Held over for FY'03 decision.....	11	For technician support (TS)	1,014,392
New proposals; withdrawn before review	5	Other (workshops, REU, etc.)	510,699
Other award actions (incr, suppl, etc)	49	Awarded from other NSF budgets through split-funding ..	7,338,102
Funded entirely from IF budget.....	31	For equipment acquisition/upgrade (EA)	4,083,828
Split-funded with other programs.....	18	For instr and technique development (ITD) ...	44,979
Logged-in to other NSF programs; IF-split-funding	104	For facility support (FS)	1,470,370
		For technician support (TS)	20,000
		Other (workshops, REU, etc.)	1,718,925
		Awarded through interagency transfers	1,045,720
		For equipment acquisition/upgrade (EA)	75,000
		For facility support (FS)	940,720
		Other (workshops, REU, etc.)	30,000