

NATIONAL SCIENCE FOUNDATION

4201 Wilson Boulevard, Arlington VA 22230

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

Summary of All FY-1995 Actions Leading to AWARDS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
Alaska KIENLE, Juergen	"Internal Structure of an Endogenous Andesitic/Dacitic Dome Complex--Augustine Volcano [seismograph]"	EAR9540052	35,000/12	35,000/12	IF split-funding for EA on CH grant
Amer Museum of Nat Hist LEGER, Albert	"Acquisition of a New Electron Microprobe"	EAR9508616	400,000/24	400,000/24	standard grant for EA
Arizona BALDWIN, Suzanne L.	"Upgrade of Mineral Separation Laboratory and Thermochronology Research Facilities"	EAR9508075	77,330/24	30,000/24	standard grant for EA
Arizona BARTON, Mark D.	"Technician Support: Gas-Source Mass Spectrometry Laboratories"	EAR9508106	115,000/36	115,000/36	standard grant for TS
Arizona DONAHUE, Douglas J.	"NSF Arizona Accelerator Mass Spectrometry Facility: Operations and Research Applications"	EAR9508413	1,973,131/60	338,077/12	1st yr incr on 3-yr cont grant for FS
Arizona DRAKE, Michael J.	"Acquisition of a Walker-Style Multi Anvil Apparatus"	EAR9418215	64,609/12	64,609/24	standard grant for EA
Arizona DRAKE, Michael J.	"Upgrade of University of Arizona Electron Microprobe"	EAR9505676	31,691/12	31,691/24	standard grant for EA
Arizona State FINK, Jonathan H.	"High-Resolution Electron Energy-Loss Spectroscopy of Minerals"	EAR9418206	346,731/36	33,333/12	1st yr incr on 3-yr cont grant for ITD; split-funded w/ CH = 68,640 in FY 95
Arizona State FINK, Jonathan H.	"Solid State Geochemistry: High-Resolution Transmission Electron Microscopy of Minerals"	EAR9219376	943,620/60	- 0 -	3rd yr incr on 5-yr cont grant for Research; split funded w/ CH= 130,000 in FY 95
Arizona State HOLLOWAY, John R.	"Acquisition of a 1000-Ton Multianvil Press for High-Pressure Research"	EAR9520860	105,109/12	60,000/12	standard grant for EA
Arizona State MARZKE, Robert F.	"Acquisition of an NMR Spectrometer Equipped for Studies of Condensed Matter at Extremes of Pressure and Temperature"	EAR9305425	93,440/12	97,440/24	standard grant for EA
Arizona State McMILLAN, Paul F.	"Acquisition of a CCD Detector and CO2 Laser Heating System for High-Pressure/High Temperature Raman Spectroscopic Studies"	EAR9406250	63,000/12	50,000/24	standard grant for EA

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
Berkeley Geochronology Cen RENNE, Paul R.	"Technical Support for BGC Noble Gas Dating Lab"	EAR9405309	108,392/36	119,794/36	standard grant for TS
Brown HERBERT, Timothy D.	"Towards an Astronomically Calibrated Late Cretaceous to Early Paleocene Time Scale"	EAR9526639	9,050/12	9,050/12	IF split-funding for EA on GE grant
Brown RUTHERFORD, Malcolm J.	"Electron Microprobe Upgrade"	EAR9417917	66,507/12	59,222/24	standard grant for EA
California - Berkeley ROMANOWICZ, Barbara A.	"Technician Support for the Geophysics Computer Laboratory at U.C. Berkeley"	EAR9506660	120,000/36	120,000/36	standard grant for TS
California - Davis CASEY, William H.	"A Scanning Probe Microscope for Examining Mineral Surfaces"	EAR9414103	89,686/12	89,686/24	standard grant for EA
California - Davis SCHIFFMAN, Peter	"Upgrade Package for the Department of Geology's Electron Microprobe"	EAR9419373	51,745/12	40,000/24	standard grant for EA
California - Los Angeles ANDERSON, Orson L.	"Development of an Interferometer Dilatometer to Measure Thermal Expansion Above 1200K"	EAR9506650	181,522/24	109,075/24	standard grant for ITD
California - Los Angeles GROVE, Martin J.	"Upgrade of an 40Ar/39Ar Facility"	EAR9418519	38,320/12	28,320/24	standard grant for EA
California - Los Angeles HARRISON, T. Mark	"Support of An Ion Microprobe Facility"	EAR9509641	708,667/36	201,524/12	1st yr incr on 3-yr cont grant for FS
California - Los Angeles REID, Mary R.	"Technician Support: UCLA Thermal Ionization Mass Spectrometry Facility"	EAR9304112	134,648/36	40,000/12	3rd year increment on 3-yr cont grant for TS
California - Los Angeles SHREVE, Ronald L.	"Role of Turbulence Structure in Bedload Transport"	EAR9506415	12,125/12	12,125/12	IF split-funding for EA on GE grant
California - Los Angeles WASSON, John T.	"Oxygen Isotopes in the Minerals of Unequilibrated Chondrites"	EAR9418520	1,900/12	1,900/12	IF split-funding for EA on CH grant
California - San Diego AGNEW, Duncan C.	"Crustal Deformation Research: Transportation and Communication Equipment"	EAR9418042	10,220/12	2,827/12	standard grant for EA
California - San Diego BOCK, Yehuda	"Facility for Supporting the Analysis and Integration of Regional and Global GPS Networks for Crustal Deformation"	EAR9405934	100,000/12	50,000/12	IF split-funding for FS on PH grant; split-funded w/ PH = 50,000 in FY 95
California - San Diego JOHNSON, Hadley O.	"Constraining Earthquake Models With Geodetic Data"	EAR9417908	11,500/12	11,500/12	IF split-funding for EA on PH grant

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
California - San Diego ORCUTT, John A.	"A Broadband Borehole Seismometer for the Deep-Ocean Wireline Re-Entry, Telemetry, and System Integration"	OCE9504308	181,644/12	58,333/12	IF split-funding for ITD on OCE grant; OCE =116,667 in FY 95
California - San Diego ORCUTT, John A.	"The Design and Construction of a Broadband Ocean Bottom Seismometer: Collaborative Project with Miami, UCSD and WHOI"	OCE9300613	267,880/24	50,000/12	2nd yr incr on 2 yr cont grant for ITD; split-funded w/ OCE/ODP = 23,000, OCE/MGG = 50,000 in FY 95
California - Santa Barbara HAYMON, Rachel M.	"Acquisition of an Automated Powder X-Ray Diffractometer"	EAR9318346	75,000/12	- 0 -	split-funded w/ MGG/OCE = 37,500 in FY95 for EA
California - Santa Barbara MERTES, Leal A.	"Investigation of Geomorphic Processes Active on the Inundated Altamaha River Floodplain."	EAR9405757	32,100/12	32,100/12	IF split-funding for EA on HS grant
California - Santa Cruz LAY, Thorne	"Computer Systems Manager for the Earth Sciences Board and Institute of Tectonics: Phase II"	EAR9419142	80,000/24	80,000/24	standard grant for TS
California - Santa Cruz SCHWARTZ, Susan Y.	"Upgrading of Seismology Computer Facilities at University of California, Santa Cruz."	EAR9418213	78,750/24	60,145/24	standard grant for EA
California Inst of Tech GURNIS, Michael C.	"Acquisition of a High Performance Compute Server for Solid Earth Research at Caltech"	EAR9505990	150,000/24	150,000/24	standard grant for EA
California Inst of Tech KANAMORI, Hiroo	"Acquisition of 10 Broadband Seismographs for Enhancement of TERRAscope"	EAR9512201	750,000/24	- 0 -	standard grant for EA; split-funded w/ARI-OSTI = 450,000 in FY95
California Inst of Tech ROSSMAN, George R.	"Computer Control and Data Processing Instrumentation for an Electron Microprobe, SEM and XRD Laboratory"	EAR9405438	85,856/12	35,000/24	standard grant for EA
Carnegie Inst of Wash-DTM JAMES, David E.	"Computational Facility for Processing and Analysis of Large Seismic Data Sets"	EAR9420817	71,800/12	45,000/24	standard grant for EA
Carnegie Inst of Wash-DTM SHIREY, Steven B.	"Os Isotopic Studies of Solid Earth Evolution"	EAR9506713	15,200/12	15,200/12	IF split-funding for EA on CH grant
Carnegie Inst of Wash-GL COHEN, Ronald E.	"Acquisition of a Departmental Supercomputer for Theoretical Mineral Physics and Organic Geochemistry"	EAR9512627	443,866/36	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 383,936 in FY95
Carnegie Inst of Wash-GL MAO, Ho-kwang	"Superconducting Wiggler Insertion Device for X-Ray Studies with the Diamond-Anvil Cell at Ultra-High Pressures"	EAR9418328	403,967/36	104,267/12	1st yr incr on 3-yr cont grant for FS
Carnegie Inst of Wash-GL RUMBLE, Douglas	"Development and Optimization of UV-Laser Microprobe for Oxygen Isotope Analysis of Silicate and Oxide Minerals"	EAR9510091	50,178/36	50,178/36	standard grant for ITD
Case Western Reserve WHITING, Peter J.	"Acquisition of A Gamma Detector for Studies Tracing Fine Sediment Transport"	EAR9510240	24,319/12	24,319/24	standard grant for EA

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
Chicago DAVIS, Andrew M.	"Acquisition of a Scanning Electron Microscope"	EAR9419277	66,540/12	66,540/24	standard grant for EA
Chicago HEINZ, Dion L.	"Acquisition of a Carbon Dioxide Laser and a Nd-YLF Laser"	EAR9508054	250,000/12	187,500/24	standard grant for EA
Chicago RIVERS, Mark L.	"GeoCARS, A National Resource for Earth, Planetary, Soil and Environmental Science Research at the Advanced Photon Source"	EAR9317772	11,745,446/60	1,100,000/12	2nd yr incr on 5-yr cont grant for FS
Colorado GETTING, Ivan C.	"Absolute Pressure and Temperature Calibration to 6 GPa and 1700K"	EAR9418685	30,515/12	30,515/12	IF split-funding for ITD on CH grant
Colorado RYAN, Joseph N.	"Collaborative Research: The Advance of Colloid Mobilization and Transport Fronts"	EAR9418472	13,125/12	13,125/12	IF split-funding for EA on HS grant
Connecticut CORMIER, Vernon F.	"Upgrade of the Geophysics Computing Facility at the University of Connecticut"	EAR9506613	16,625/12	16,625/24	standard grant for EA
Cornell BAVEYE, Philippe	"Monte-Carlo Simulation of Measurement Processes in Heterogeneous Soils and Sediments"	EAR9305656	57,075/12	57,075/12	IF split for ITD on HS grant
Dartmouth College BLUM, Joel D.	"Acquisition of a Multi-Collector Thermal Ionization Mass Spectrometer for Dartmouth College"	EAR9422169	255,000/12	237,000/24	standard grant for EA
Delaware State GWANMESIA, Gabriel D.	"RUI: Acquisition of Equipment for an Ultrasonic Interferometry Laboratory for Acoustic Velocity Measurements (Supplement)"	EAR9541919	15,921/12	15,921/12	IF suppl (REU) for ITD on IF grant
Georgia SCHROEDER, Paul A.	"Acquisition of a Dedicated Far-Infrared Spectrometer for Mineralogical Studies"	EAR9418493	41,553/12	- 0 -	on hold pending FY 96
Harvard DZIEWONSKI, Adam M.	"Studies of Global Seismicity and Earth Structure"	EAR9219361	7,200/12	7,200/12	IF split-funding for EA on PH grant
Hawaii BATIZA, Rodey	"Acquisition of ICP-MS for Research in Ocean and Earth Sciences"	EAR9401770	100,000/12	75,000/24	standard grant for EA
Indiana St - Terre Haute MEERT, Joseph G.	"Acquisition of Paleomagnetic Lab Equipment"	EAR9521571	12,500/12	12,500/24	standard grant for EA
Indiana/Purdue-Ind PACHUT, Joseph F.	"Microevolution in Two Lineages of Upper Ordovician (Cincinnatian) Bryozoans"	EAR9506003	6,600/12	6,600/12	IF split-funding for EA on GE grant
IRIS BUTLER, Rhett	"The Hawaii-2 Observatory: A Deep Ocean Geoscience Facility Re-using the Hawaii-2 Telephone Cable"	OCE9512614	1,998,825/24	139,000/24	standard grant for ITD; split-funded w/ IF = 139,000 and ARI/OSTI = 1,611,000 in FY95

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
IRIS SIMPSON, David W.	"Cooperative Agreement: Understanding the Earth's Dynamics and Structure (IRIS)"	EAR9023505	120,251,000/60	7,552,458/12	5th yr incr on 5-yr Cooperative Agreement for FS in FY95
IRIS SIMPSON, David W.	"Cooperative Agreement: Understanding the Earth's Dynamics and Structure (IRIS-Supplement)"	EAR9541936	23,850/12	- 0 -	suppl to IRIS Cooperative Agreement for FS; interagency transfer from U.S. Department of State = 23,850 in FY95
IRIS SIMPSON, David W.	"Cooperative Agreement: Understanding the Earth's Dynamics and Structure (IRIS-Supplement)"	EAR9023505	430,007/12	- 0 -	suppl to IRIS Cooperative Agreement for FS; interagency transfer from DOD/DMA = 430,007 in FY95
IRIS SIMPSON, David W.	"Cooperative Agreement: Understanding the Earth's Dynamics and Structure (IRIS-Supplement)"	EAR9023505	8,589,000/12	- 0 -	suppl to IRIS Cooperative Agreement for FS; interagency transfer from DOD/AFOSR = 8,589,000 in FY95
Johns Hopkins VEBLEN, David R.	"Technical Support for an Integrated Electron Microscope-Electron Microprobe Facility."	EAR9417585	80,000/24	80,000/24	standard grant for TS
Johns Hopkins VEBLEN, David R.	"Acquisition of High-Resolution Electron Microscopy Facilities for The Johns Hopkins University"	EAR9512438	997,767/36	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 680,000 in FY95
Lehigh ZEITLER, Peter K.	"Facility Upgrade: Acquisition of A Laser Microprobe at Lehigh University."	EAR9421592	53,300/12	53,300/24	standard grant for EA
Louisiana State CHAN, Lui-Heung	"Lithium Isotope Studies of Continental Crustal Fluids"	EAR9506390	4,000/12	4,000/12	IF split-funding for EA on GE grant
Louisiana State DOKKA, Roy K.	"Mesozoic-Cenozoic Tectonic Evolution of the Mojave Desert, California"	EAR9418834	13,200/12	13,200/12	IF split-funding for EA on TE grant
Louisiana State DUTROW, Barbara L.	"Earth Systems Computational and Visualization Laboratory (Supplement)"	EAR9421065	5,000/12	5,000/12	IF suppl to IF grant for REU
Louisiana State NUNN, Jeffrey A.	"Earth Systems Computational and Visualization Laboratory"	EAR9421065	148,400/12	98,378/24	standard grant for EA
Massachusetts BROWN, Laurie L.	"Acquisition of a Cryogenic Magnetometer"	EAR9520528	90,000/12	67,500/24	standard grant for EA
Massachusetts WILLIAMS, Michael L.	"Upgrading of Electron Microprobe Facility, Department of Geology and Geography, University of Massachusetts"	EAR9503054	41,574/12	33,287/24	standard grant for EA
Memphis SMALLEY, Robert	"GPS Receiver Upgrade and Acquisition"	EAR9417514	59,536/12	47,785/24	standard grant for EA
Miami-RSMAS DIXON, Jacqueline E.	"Acquisition of an Infrared Microscope"	EAR9417949	12,400/12	12,400/24	standard grant for EA

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
Miami-RSMAS YAMAMOTO, Tokuo	"The Design and Construction of a Broadband Ocean Bottom Seismometer: Collaborative Project with Miami, UCSD and WHOI"	OCE9300469	213,995/24	50,000/12	2nd yr incr on 2-yr cont grant for ITD; split-funded w/ OCE/ODP = 3,995, OCE/MGG = 50,000 in FY95
Michigan PEACOR, Donald R.	"Powder Diffractometer System"	EAR9508180	197,330/12	125,000/24	standard grant for EA
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism"	EAR9304363	912,427/36	12,517/12	3rd yr incr on 3-yr cont grant for FS; split-funded w/ PH = 250,000 in FY 95
Minnesota BANERJEE, Subir K.	"Continuation of a Facility: Institute for Rock Magnetism (supplement)"	EAR9542884	4,500/12	- 0 -	suppl for workshop; split-funded w/ PH = 4,500
Minnesota DAINES, Martha J.	"Melt Localization and Flow-Focusing in Peridotites Due to Melt/Rock Reaction During Melt Migration"	EAR9508004	5,061/12	5,061/12	IF split-funding for EA on CH grant
Minnesota EDWARDS, R. Lawrence	"Acquisition of mass spectrometers for the retrieval of high-resolution records of global climate change"	EAR9512334	550,000/24	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 420,000, OCE/MGG = 80,000 in FY95
Minnesota KELTS, Kerry R.	"Implementation of LRC Core Lab Facility"	EAR9405853	153,643/24	63,734/12	2nd yr incr on 2-yr cont grant for FS
Minnesota PARKER, Gary	"Development of Instrumented Experimental Facility for the Study of Large Scale River Morphology, Stratigraphy, and Landscape Evolution"	EAR9512472	250,000/24	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 250,000 in FY95
Minnesota - Duluth MORTON, Penelope	"Acquisition of an X-ray Diffractometer"	EAR9512044	101,758/12	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 101,758 in FY95
Missouri - Kansas City COVENEY, Raymond M.	"Acquisition of ICP Spectrographic Facilities for Geologic and Environmental Studies"	EAR9512427	139,000/18	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 139,000 in FY95
MIT BOWRING, Samuel A.	"Acquisition of Thermal Ionization and Inductively Coupled Plasma Mass Spectrometers"	EAR9419210	625,000/12	- 0 -	Hold for FY 96 funding
MIT FREY, Frederick A.	"Acquisition of Two Semiconductor Detectors for the Neutron Activation Facility in the EAPS Department at MIT"	EAR9520504	39,640/12	29,730/24	standard grant for EA
MIT GROVE, Timothy L.	"Experimental Studies of Calc-Alkaline Magmas (supplement)"	EAR9541445	5,565/12	5,565/12	IF suppl for EA on CH grant
MIT HODGES, Kip V.	"Collaborative Research: A Synthetic Fluid Inclusion Approach to the Problem of Excess Ar in Silicates"	EAR9418237	27,639/12	27,639/12	IF split-funding for EA on CH grant
Nat Acad of Sciences CLAYTON, JoAnn	"Optimizing the Differential Global Positioning System Infrastructure for Scientific Applications"	ATM9522074	107,240/9	20,000/12	IF split-funding for workshop on ATM grant; split-funded w/ ATM = 40,000 in FY95

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
New Mexico ASMEROM, Yemane	"Upgrading to a High Abundance Sensitivity Multicollector TIMS"	EAR9420489	180,000/12	180,000/24	standard grant for EA
New Mexico LAYNE, Graham D.	"Support of UNM/SNL Ion Microprobe Facility"	EAR9506611	334,689/36	79,214/12	1st yr incr on 2-yr cont grant for FS
New Mexico McCALL, Katherine R.	"Theoretical Investigations of Nonlinear Elastic Properties of Rock"	EAR9528965	6,000/12	6,000/12	IF split-funding for EA on PH grant
New Mexico PAZZAGLIA, Frank J.	"Implementation of a Computational Facility for Quantitative Geomorphologic Acquisition, Processing, Analysis and Display of Large Digital Data Sets"	EAR9509954	22,846/12	22,846/24	standard grant for EA
NOAA-NOS CARTER, William F.	"An Absolute Gravity Facility for Global Geophysical Studies:Participation by NOAA-NOS"	EAR9417446	200,000/36	72,733/12	2nd yr incr on 3-yr cont grant for FS
North Carolina State FODOR, Ronald V.	"Upgrading of Electron Microprobe and X-ray Fluorescence Spectrometer Analytical Instruments: Petrologic, Geochemical and Mineralogic Research at North Carolina State (supplement)"	EAR9541920	4,125/12	4,125/12	IF suppl (REU) for ITD on IF grant
Oregon HUMPHREYS, Eugene D.	"Upgrading of Computational Resources Used in Geophysical Investigations of the Western U.S."	EAR9418583	8,100/12	10,600/24	standard grant for EA
Oregon RICE, Jack M.	"Equipment Upgrade for the Electron Microprobe at the University of Oregon"	EAR9510026	47,765/12	40,000/12	standard grant for EA
Penn State NYBLADE, Andrew A.	"Upgrade of the Geophysics Computing Facility at the Pennsylvania State University"	EAR9417906	54,162/12	45,135/24	standard grant for EA
Pennsylvania DODSON, Peter	"Phylogenetic and Biological Studies of Dinosaur Bone Histology"	EAR9506694	17,824/12	17,824/12	IF split-funding for EA on GE grant
Princeton ONSTOTT, Tullis C.	"Upgrading of the Princeton Laser Microprobe Facility: Enhancement of the NdYAG Source for UV Emission."	EAR9417921	25,888/12	25,888/24	standard grant for EA
Purdue ELMORE, David	"Facility Support: The Purdue Rare Isotope Measurement Laboratory"	EAR9510040	1,993,293/60	325,000/12	1st yr incr on 3-yr cont grant for FS
Purdue ELMORE, David	"Development of Accelerator Mass Spectrometry Instrumentation At PRIME Lab"	MPS9512381	2,000,000/36	- 0 -	standard grant for ITD; split-funded w/ ARI/OSTI = 1,200,000 in FY95
Rensselaer Polytech Inst WARK, David A.	"Experimental and Petrologic Study of Crystal-Melt Reaction Products in Hybrid Rocks (Supplement)"	EAR9540170	7,000/12	7,000/12	IF suppl for EA on CH grant
Rochester TARDUNO, John A.	"Acquisition of Equipment for Paleomagnetic Research"	EAR9421345	116,544/12	128,200/24	standard grant for EA

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
South Carolina WILLIAMS, Douglas F.	"Acquisition of a Mass Spectrometry Facility for Global Change Research (supplement)"	EAR9540559	114,849/12	- 0 -	suppl for EA on IF grant; split-funded w/ OCE/CO = 114,849 in FY95
Southern Mississippi DUNN, Dean A.	"Acquisition of a Computer Server for the GeoClio Electronic Bulletin Board of the U.S. National Committee on the History of Geology"	EAR9508309	9,290/12	9,290/12	standard grant for EA
SUNY - Buffalo RENSHAW, Carl E.	"CAREER: Estimation of Fracture Aperture Distributions From Wellbore Data"	EAR9505773	16,500/12	16,500/12	IF split-funding for EA on HS grant
SUNY - Stony Brook KRAUSE, David W.	"Collaborative Research: Late Cretaceous Vertebrates from Madagascar: Implications for the Plate Tectonic and Biogeographic History of Gondwana"	EAR9418816	17,000/12	17,000/12	IF split-funding for EA on GE grant
SUNY - Stony Brook WEIDNER, Donald J.	"Center for High-Pressure Research"	EAR9541225	12,211,011/60	2,190,000/12	5th yr incr on STC Cooperative Agreement EAR8920239 for FS
SUNY - Stony Brook WEIDNER, Donald J.	"Center for High-Pressure Research (supplement)"	EAR9543474	219,221/12	120,000/12	suppl to STC Cooperative Agreement for ITD
SUNY - Stony Brook WEIDNER, Donald J.	"Center for High-Pressure Research [supplement for support of "Journey to the Center of the Earth"]"	EAR8920239	99,221/12	- 0 -	suppl to STC Cooperative Agreement for FS; split-funded w/ EHR = 99,221 in FY95
Tennessee MORA, Claudia I.	"Acquisition of a High Sensitivity Gas Source Isotope Ratio Mass Spectrometer"	EAR9512288	138,000/12	- 0 -	standard grant for EA; split-funded w/ ARI/OSTI = 138,000 in FY95
Tennessee THONNARD, Norbert	"Development of Laser-Based Resonance Ionization Spectroscopy Techniques for 81Kr and 85Kr Measurements in the Geosciences"	EAR9410695	537,738/36	104,444/12	2nd yr incr on 4-yr cont grant for ITD; split-funded w/OPP = 40,000 in FY 95
Texas CARLSON, William D.	"Acquisition of a High Resolution X-Ray Tomographic Scanner"	EAR9406258	150,000/12	- 0 -	on hold pending FY96
Texas LAND, Lynton S.	"Technician Support: Multicollector Thermal Ionization Mass Spectrometer"	EAR9422915	65,274/24	65,492/24	standard grant for TS
UCAR-UNAVCO SOLHEIM, Fredrick S.	"Development of GPS Methods for High-Accuracy Vertical Surveying and Sensing of Atmospheric Water Vapor"	EAR9406153	181,988/24	93,533/24	standard grant for ITD
UCAR-UNAVCO WARE, Randolph H.	"University NAVSTAR Consortium"	EAR9419356	10,300,425/60	1,420,000/12	1st yr incr on 2-yr cont grant for FS
UCAR-UNAVCO WARE, Randolph H.	"Acquisition of GPS Equipment for Consortium Studies of Global Change and Tectonics of the Western Margin of the Americas"	EAR9512212	2,000,000/36	762,030/36	standard grant for EA; split-funded w/ IF = 762,030; ARI/OSTI=1,237,970 in FY95

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO [supplement for support of UNAVCO Advisory Working Groups and Annual Community Meeting] (supplement)"	EAR9543857	80,064/12	80,064/12	suppl to IF grant for FS
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities (supplement)"	EAR9405501	331,269/12	- 0 -	suppl to UNAVCO for FS (support of NASA-DOSE programs); interagency transfer from NASA = 331,269 in FY95
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO"	EAR9405501	300,000/12	- 0 -	suppl to UNAVCO for FS (GPS/MET project); split-funded w/ ATM = 250,000 and EAR = 50,000 in FY95
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities (supplement)"	EAR9405501	60,292/12	- 0 -	suppl to UNAVCO for FS (support of NOAA's Environmental Research Laboratories GPS systems); interagency transfer from NOAA = 60,292 in FY95
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities (supplement)"	EAR9542036	90,354/12	- 0 -	suppl to UNAVCO for FS; split-funded w/ ATM = 15,529, interagency transfer from NOAA = 74,825 in FY95
UCAR-UNAVCO WARE, Randolph H.	"Support of UNAVCO and Related Activities (supplement)"	EAR9541288	400,000/12	- 0 -	suppl to UCAR Cooperative Agreement for ITD; split-funded w/ ATM = 300,000, EAR = 100,000 in FY95
USGS HUTT, Charles R.	"Global Seismographic Network (GSN) improvements, augmentation, and operations (NSF support)"	EAR9543854	547,400/12	547,400/12	Transfer award for FS to USGS Albuquerque Seismological Laboratory for participation in IRIS GSN project
USGS SIPKIN, Stuart	"Global Seismographic Network (GSN) improvements, augmentation, and operations (AFSOR support)"	EAR9544146	3,161,000/12	- 0 -	transfer to USGS-ASL for participation in IRIS GSN project; interagency transfer from AFOSR/DOD = 3,161,000 in FY95 for FS
Utah CHAPMAN, David S.	"Thermal Conductivity and Diffusivity"	EAR9508402	10,000/12	10,000/12	IF split-funding for EA on PH grant
Utah WANNAMAKER, Philip E.	"Collaborative Research: Seismic/Magnetotelluric Traverse of the Byrd Subglacial Basin-Field Test"	OPP9543584	90,128/12	30,000/12	IF split-funding for EA on OPP grant; split-funded w/ CD = 30,000 and OPP = 30,000 in FY95
VA Polytechnic Inst & St U TRACY, Robert J.	"Upgrade of Electron Microprobe for Improved Compositional Imaging Capability"	EAR9406187	43,092/12	36,556/24	standard grant for EA
Washington BOOKER, John R.	"International Deep Profiling of Tibet and the Himalaya (INDEPTH)-Magnetotelluric Transect"	EAR9418822	96,000/12	96,000/12	IF split-funding for EA on CD grant
Washington NELSON, Bruce K.	"Technical Support: Isotope Geochemistry Laboratory, Department of Geological Sciences, University of Washington"	EAR9417870	117,150/36	117,150/36	standard grant for TS
Washington - SL PASTERIS, Jill D.	"Continuation of Technician Support for the Laser Raman Microprobe Laboratories at Washington University"	EAR9417677	80,000/24	80,000/24	standard grant for TS

Institution/PI	Title of Proposal	Proposal #	\$'s Requested/ months	FY95 Funding by IF/months	Comments
Washington - SL WIENS, Douglas	"Acquisition of an Erasable Optical Jukebox for Analysis of Seismic Data."	EAR9417494	27,401/12	27,401/24	standard grant for EA
Washington-SL HOFMEISTER, Anne M.	"Upgrade of Software and Computer for FTIR Spectrometer"	EAR9508030	16,490/12	16,490/24	standard grant for EA
Washington-SL TUCKER, Robert D.	"Technician Support for the Geochronology Laboratory"	EAR9506693	120,000/36	120,000/36	standard grant for TS
WHOI COLLINS, John A.	"The Design and Construction of a Broadband Ocean Bottom Seismometer: Collaborative Project w/ Miami, UCSD and WHOI"	OCE9300562	533,684/24	50,000/12	2nd yr incr for ITD on 2-yr cont grant from OCE; split-funded w/ OCE/ODP = 130,546, OCE/MGG = 50,000 in FY95
WHOI HART, Stanley R.	"Geochemical Evolution of the Mantle"	EAR9219958	3,000/12	3,000/12	IF split-funding for EA on CH grant
WHOI SHIMIZU, Nobumichi	"Support of a Regional Ion Microprobe Facility at Woods Hole Oceanographic Institution"	EAR9305508	505,970/36	160,000/12	3rd yr incr on 3-yr cont grant for FS
WHOI STEPHEN, Ralph A.	"A Broadband Borehole Seismometer for the Deep Ocean (WHOI Component)"	OCE9505730	35,000/12	11,667/12	IF split-funding for ITD on OCE-ODP grant; split-funded w/ OCE = 23,333 in FY95
Wisconsin BROWN, Philip E.	"Gold-Bearing Archean Hydrothermal Systems in Epi-, Meso-, and Katazonal Crustal Sections, Yilgarn Craton, Western Australia"	EAR9508257	8,000/12	8,000/12	IF split-funding for EA on CH grant
Wisconsin JOHNSON, Clark M.	"Technician Support: Radiogenic Isotope Laboratory (supplement)"	EAR9540350	15,000/12	15,000/12	IF suppl for EA on IF grant

ABBREVIATIONS and EXPLANATIONS

AASC =	Archeology, Archeometry and Systematic Collections Program in SBER	NASA-DOSE =	National Aeronautics and Space Administration-Dynamics of the Solid Earth Program
AFOSR =	Air Force Office of Scientific Research	NOAA =	National Oceanic and Atmospheric Administration within U.S. Department of Commerce
AMS =	Accelerator Mass Spectrometry	NOS =	National Ocean Service in NOAA
ARI =	Academic Research Infrastructure Program in OSTI	OBES =	Office of Basic Energy Sciences in the U.S. Department of Energy
ASL =	Albuquerque Seismology Laboratory of the USGS	OCE =	Division of Ocean Sciences in GEO
ATM =	Division of Atmospheric Sciences in GEO	ODP =	Ocean Drilling Program in OCE
CD =	Continental Dynamics Program in EAR	OPP =	Office of Polar Programs at NSF
CD-ATM =	Climate Dynamics Program in ATM	OSTI =	Office of Science and Technology Infrastructure at NSF
CH =	Geochemistry and Petrology Program in EAR	OT =	Oceanographic Technology Program in OCE
CIW =	Carnegie Institution of Washington	PH =	Geophysics Program in EAR
CO =	Chemical Oceanography Program in OCE	REU =	Research Experience for Undergraduates Program in EHR
cont grant =	continuing grant, a multi-year grant funded one year at a time	RUI =	Research in Undergraduate Institutions Program in EHR
DCP =	direct current plasma	SBE =	Directorate for Social, Behavioral & Economic Sciences at NSF
DMA =	Defense Mapping Agency	SBER =	Division of Social, Behavioral and Economic Research in SBE
DMR =	Division of Materials Research in MPS	SIMS =	secondary ionization mass spectrometry
DOD =	Department of Defense	split-funding =	two or more NSF programs share the funding of a grant
DTM =	Department of Terrestrial Magnetism in CIW	standard grant	a grant funded for the full amount in its 1st yr
E&HR =	Education & Human Resources Program in EAR	STC =	NSF Science and Technology Center
EA =	Equipment Acquisition component of IF Program	suppl =	a funding supplement to an active NSF grant
EAR =	Division of Earth Sciences in GEO	TE =	Tectonics Program in EAR
EHR =	Directorate for Education and Human Resources at NSF	TEM =	transmission electron microscopy
ENG =	Directorate for Engineering at NSF	TIMS =	thermal ionization mass spectrometry
FS =	Facility Support component of IF Program	TS =	Technician Support component of IF Program
FY =	Federal fiscal year e.g., FY94: 10/1/93 to 9/30/94	UCAR =	University Consortium for Atmospheric Research
GE =	Geology and Paleontology Program in EAR	UNAVCO =	University NAVSTAR Consortium within UCAR
GEO =	Directorate for Geosciences at NSF	USGS =	U.S. Geological Survey
GL =	Geophysical Laboratory in CIW	WHOI =	Woods Hole Oceanographic Institution
GPS =	Global Positioning System	XRD =	X-ray diffractometer
GSN =	Global Seismographic Network of IRIS	XRF =	X-ray fluorescence
HRTEM =	high- resolution TEM		
HS =	Hydrologic Sciences Program in EAR		
ICP-AE =	Inductively couple plasma-atomic emission		
ICP-MS =	Inductively coupled plasma-mass spectrometry		
IF =	Instrumentation and Facilities Program in EAR		
incr =	an annual increment of funds to an active NSF grant		
IRIS =	Incorporated Research Institutions for Seismology		
ITD =	Instrument and Technique Development component of IF Program		
LA-ICP-MS =	laser ablation ICP-MS		
LDEO =	Lamont-Doherty Earth Observatory, Columbia University		
MGG =	Marine Geology and Geophysics Program in OCE		
MPS =	Directorate for Mathematics and Physical Sciences at NSF		

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-1995

<u>PROPOSALS</u>		<u>DOLLARS</u>	
Total number of proposals processed by IF	195	Total dollars requested of IF (per year for multi-year proposals)	66,291,932
Logged-in to IF as primary program	161	Total awarded through IF actions in FY-1995	41,733,144
New proposals; full review by IF	129	Awarded from IF budget	20,313,457
Declined	53	For equipment acquisition/upgrade (EA)	4,076,834
Funded entirely from IF budget	61	For instr and technique development (ITD) ...	977,199
Split-funded with other NSF programs ..	12	For facility support (FS)	14,296,988
Held over for FY96 decision	3	For technician support (TS)	937,436
Other (workshops, REU, etc.)		Other (workshops, REU, etc.)	25,000
New proposals; withdrawn before review	2		
Active IF awards (incr, suppl, etc)	27	Awarded from other NSF budgets through split-funding ..	8,749,444
		For equipment acquisition/upgrade (EA)	4,093,013
		For instr and technique development (ITD) ...	3,767,181
		For facility support (FS)	714,750
		Other (workshops, REU, etc.)	174,500
Logged-in to other NSF programs; IF-split-funding	37	Awarded through interagency transfers	12,670,243
		For facility support (FS)	12,670,243