

## OFFICE OF SCIENCE

## Information Management for Office of Science (IMSC)

## Listing of Awards for State (AK)

Award Number /  
Project End /  
Pr. Investigator

Funding (in Thousands)

Name of Awardee

Divisio

Title

FY 2007

ALASKA, UNIVERSITY OF Fairbanks, AK	DE-FG02-04ER54741 12/14/2009 Newman	SC-24.2	Investigations of the Dynamics of Self-Consistent Models for Turbulent Transport and Implications for Transport Barrier Formation and Evolution	160
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Total for AK :

160

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Listing of Awards for State (AL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2007
ALABAMA A&M UNIVERSITY Normal, AL	DE-FG02-05CH11306 03/31/2008 ILA	SC-23	Renovation of Integrated Environmental Research and Services (IERS) Facility	0
ALABAMA A&M UNIVERSITY Normal, AL	DE-FG02-06ER25746 08/14/2009 Qian	SC-21.1	Alliance for Computational Science Collaboration: HBCU Partnership at Alabama A&M University Continuing High Performance Computing Research & Education at AAMU	90
ALABAMA A&M UNIVERSITY Normal, AL	DE-FG02-05ER64045 09/30/2007 ILA	SC-23.2	Analytical and Elemental Analysis of Air and Soil Samples Facility and Public Awareness Partnership (Training/Public	0
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-05ER46187 11/30/2007 McNider	SC-22.21	Radiative Effects of Hygroscopic Aerosols in the Stable Nocturnal Boundary Layer, with Implications for Climate Trends	150
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-06ER46268 12/31/2008 Cassibry	SC-22.21	Theoretical Investigation of Plasma Jets Driven Magneto-Inertial Fusion Using Smooth Particle Hydrodynamics	138
ALABAMA, UNIVERSITY OF Huntsville, AL	DE-FG02-04ER63841 06/14/2008 Christy	SC-23.2	The University of Alabama in Huntsville's Utilization of Satellite Data for Climate Change Analysis	0
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-01ER45867 06/30/2008 April	SC-22.21	Nanostructure Catalysts for Fuel Cells	0
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-01ER41166 03/14/2010 Piepke	SC-26.1	Low Energy Neutrino Physics	220
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-86ER13465 01/14/2010 Kispert	SC-22.13	Magnetic Resonance and Optical Spectroscopic Studies of Carotenoids	134
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-00ER15097 05/31/2008 Redding	SC-22.13	A Combined Genetic, Biochemical, and Biophysical Analysis of the Phylloquinones in Photosystem I from a Green Alga	123
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-06ER15764 01/14/2012 Dixon	SC-22.12	Molecular Basis for Microbial Adhesion and Geochemical Surface Reactions: A Study Across Scales	47
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-96ER40967 04/14/2011 Busenitz	SC-25	Research in Neutrino Physics	365
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-07ER15840 11/30/2009 Dixon	SC-22.12	The Impact of Carbonate on Surface Protonation, Electron Transfer and Crystallization Reactions in Iron Oxide	57
ALABAMA, UNIVERSITY OF Tuscaloosa, AL	DE-FG02-04ER63908 08/31/2008 Williamson	SC-23.3	Assessment of Metrological, Seasonal, & Land Mgmt Influences on Spatial Representatives & Ecosystem-Level Scaling Representativeness & Ecosystem-Level	43
BAMA, UNIVERSITY OF BIRMINGHAM Birmingham, AL	DE-FG02-06CH11435 12/31/2007 Marchase	SC-23	Acquisition of Neuron-Imaging fMRI and 3 Tesla Head-Only fMRI Systems	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
AUBURN UNIVERSITY Auburn, AL	DE-FG02-06ER64213 12/31/2009 Clement	SC-23.4	Development of Modeling Methods and Tools for Predicting Coupled Reactive Transport Processes in Porous Media Under Multiple Scales	352
AUBURN UNIVERSITY Auburn, AL	DE-FG02-07ER54930 07/14/2010 Boivin	SC-24.2	Wave Evolution and Ion Heating Processes in Beam-Plasma Experiments	286
AUBURN UNIVERSITY Auburn, AL	DE-FG02-05ER54826 05/14/2008 Lin	SC-24.2	Gyrokinetic Electron and Fully-Kinetic Ion Particle Simulation of Collisionless Plasma Dynamics	99
AUBURN UNIVERSITY Auburn, AL	DE-FG02-05ER54819 09/14/2011 Pindzola	SC-24.2	Computational Atomic and Molecular Physics for Transport Modeling of Fusion Plasmas	189
AUBURN UNIVERSITY Auburn, AL	DE-FG02-06ER54872 05/31/2008 Thomas	SC-24.2	Support for the 11th Workshop on the Physics of Dusty Plasmas - June 28 - July 1, 2006	0
AUBURN UNIVERSITY Auburn, AL	DE-FG02-06ER54901 07/31/2009 Robicheaux	SC-24.2	Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	42
AUBURN UNIVERSITY Auburn, AL	DE-FG02-03ER54692 10/31/2011 Hanson	SC-24.2	Equilibrium Reconstruction and Magnetic Field Studies in Stellarators	114
AUBURN UNIVERSITY Auburn, AL	DE-FG02-00ER54577 10/31/2010 Thomas	SC-24.2	Multi-Scale Investigation of Sheared Flows in Magnetized Plasmas	80
AUBURN UNIVERSITY Auburn, AL	DE-FG02-00ER54610 11/30/2010 Knowlton	SC-24.2	MHD Equilibrium and Stability Studies of Current-Carrying Plasmas in the Compact Toroidal Hybrid	407
AUBURN UNIVERSITY Auburn, AL	DE-FG02-96ER54348 12/31/2010 Pindzola	SC-24.2	Theoretical Atomic and Molecular Physics for Controlled Fusion Energy	113
AUBURN UNIVERSITY Auburn, AL	DE-FG02-07ER46357 01/31/2010 Landers	SC-22.21	Detailed Investigations of Interactions Between Ionizing Radiation and Neutral Gases	149
AUBURN UNIVERSITY Auburn, AL	DE-FG02-03ER46060 01/31/2009 Dong	SC-22.23	Structural Transformations in Ceramics: Perovskite-like Oxides and Group III, IV, and V Nitrides	0
AUBURN UNIVERSITY Auburn, AL	DE-FG02-01ER15187 08/31/2010 Albrecht-Schmitt	SC-22.1	Structure-Property Relationships in Novel Actinide Compounds with Heavy Oxoanions	150
AUBURN UNIVERSITY Auburn, AL	DE-FG02-00ER15069 01/31/2012 Robicheaux	SC-22.1	Coherent and Incoherent Transitions	80
SOUTH ALABAMA, UNIVERSITY OF Mobile, AL	DE-FG02-96ER40970 04/14/2009 Jenkins	SC-25	Experimental High Energy Physics Group	34

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
TROY STATE UNIVERSITY Troy, AL	DE-FG02-04ER54792 07/31/2008 Podder	SC-24.2	Experimental Study of Shock Wave Dynamics in Magnetized Plasmas	0
TUSKEGEE UNIVERSITY Tuskegee, AL	DE-FG02-06ER25745 08/14/2009 Ibrahim	SC-21.1	Computational Modeling of Circulating Fluidized Bed Reactors	136
Total for AL :				3,598

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ARKANSAS STATE UNIVERSITY State University, AR	DE-FG02-07ER41524 02/29/2008 Teaney	SC-26.1	Establishing the Transport Properties of QCD with Heavy Ion Reactions	30
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-05ER46188 11/30/2008 Bellaiche	SC-22.21	Properties of Ferroelectric Nanostructures: A Combined Theoretical and Experimental Approach	148
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-01ER15161 08/14/2010 Henry	SC-22.13	Protein Targeting to the Chloroplast Thylakoid Membrane: Structure and Function of a Targeting Complex	135
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-06ER15801 06/30/2007 Vicic	SC-22.12	Mild Catalytic Methods for Alkyl-Alkyl Bond Formation	0
ARKANSAS, UNIVERSITY OF Little Rock, AR	DE-FG02-07ER64328 12/14/2010 Gaffney	SC-23.3	Natural Radionuclides and Isotopic Signatures for Determining Carbonaceous Aerosol Sources, Aerosol Lifetimes, and	225
ARKANSAS, UNIVERSITY OF Little Rock, AR	DE-FG02-07ER64329 12/14/2010 Marley	SC-23.3	Aerosol Absorption and Scattering Measurements: Field Measurements and Laboratory Characterizations	235
Total for AR :				773

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Listing of Awards for State (AZ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-05ER64033 03/31/2008 Rittmann	SC-23.4	Subsurface Immobilization of Plutonium: Experimental and Model Validation Studies	74
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER64475 08/31/2010 Marchant	SC-23.2	Mechanisms for Transnational Coordination and Harmonization of Nanotechnology Governance in Support of Bioenergy Development	101
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-06ER46345 08/14/2010 Drucker	SC-22.23	Science of Nanowire Epitaxy	149
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER46442 08/14/2010 Sharma	SC-22.21	In Situ Characterization of the Nanoscale Catalysis During Anodic Redox Process	190
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-01ER45943 03/14/2011 Tao	SC-22.22	Electrical, Mechanical and Thermal Properties of Single Molecules	130
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-02ER45996 08/31/2009 Spence	SC-22.21	Automated Nanocrystallography	149
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER46168 06/30/2011 McCartney	SC-22.21	Nanoscale Imaging of Electrostatic and Magnetic Fields	156
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-05ER46257 08/31/2011 Friesen	SC-22.22	A Surface Stress Paradigm for Studying Catalyst and Storage Materials Relevant to the Hydrogen Economy	100
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-07ER15908 08/31/2010 Gould	SC-22.13	Dynamical Arrest, Structural Disorder, and Optimization of Organic Photovoltaic Devices	160
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-99ER20349 09/14/2009 Webber	SC-22.13	Excitation energy transfer in the photosystem I	114
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15603 01/31/2011 Steimle	SC-22.1	Generation, Detection and Characterization of Gas-Phase Transition Metal Containing Molecules	125
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-03ER15393 08/14/2009 Gust, Moore, Moore	SC-22.13	Supramolecular Structures for Photochemical Energy Conversion	340
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15505 11/30/2008 Williams	SC-22.12	A SIMS Study of the Chemical Dynamics of Organic/Inorganic Interactions in Sedimentary Basins	0
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15543 05/31/2011 Vermaas	SC-22.13	Chlorophyll Synthesis and Stability in Cyanobacteria	133
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15550 10/14/2006 Blankenship	SC-22.13	Structure, Function and Reconstitution of Antenna Complexes From Green Photosynthetic Bacteria	-162

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER15551 07/31/2009 Hawes	SC-22.13	Structural and Functional Analysis of a Factor Controlling Growth and Development (FGD) in Higher Plants	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER15596 07/14/2009 Wirth	SC-22.12	Linear and Nonlinear Spectroscopic Probing of Solute Interactions with Chemically Modified Silica Surfaces	123
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-03ER15438 07/31/2009 Yadegari	SC-22.13	Analysis of the Composition and Function of the Arbidopsis FIS2 Polycom-Group Complex	123
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER15616 08/31/2009 Schumaker	SC-22.13	Specificity in Calcium-Mediated Plant Development: the Role of Calcium-Binding Protein Interactions	123
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-05ER15753 08/31/2011 Armstrong	SC-22.13	"Electronically Wired" Semiconductor Nanoparticles: Toward Vectoral Electron Transport in Hybrid Materials	230
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-05CH11330 09/30/2008 Ruiz	SC-23	Environment and Natural Resources Facility - Phase II Planning	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-99ER20338 09/14/2011 Vierling	SC-22.13	Hsp100/ClpB Chaperone Function and Mechanism	142
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-02ER25533 08/14/2008 Restrepo	SC-21.1	Particle and Blood Cell Dynamics in Oscillatory Flows	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-03ER25577 08/31/2008 Kunyansky	SC-21.1	Asymptotically Optimal, High-Order Accurate Algorithms for the Solution of Certain Elliptic PDEs	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-96ER20242 03/31/2011 Larkins	SC-22.13	Molecular Genetic Studies of Genes Influencing Maize Endosperm Development	200
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41298 01/31/2010 Rutherford, Sarcevic, Toussaint	SC-25	University of Arizona High Energy Physics Program	1,045
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41318 03/31/2010 Rafelski, Thews	SC-26.1	Research in Theoretical High Energy Nuclear Physics at the University of Arizona	150
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41319 03/31/2010 Sarcevic	SC-26.1	Research in Theoretical Nuclear and Neutrino Physics	58
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41338 07/31/2010 van Kolck	SC-26.1	Effective Theories of the Strong Interaction	125
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FC02-06ER41439 03/14/2011 Toussaint	SC-25	SciDAC - National Computational Infrastructure for Lattice Gauge Theory	51

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ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FC02-06ER41452 03/14/2008 Burrows	SC-25	Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	200
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-06ER41449 05/14/2009 Fleming	SC-26.1	Effective Field Theories and Strong Interactions	110
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-93ER45488 10/31/2010 Falco	SC-22.22	Nanostructured Magnetic Materials	102
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-07ER46369 04/30/2010 Corrales	SC-22.22	Multiscale Simulation of Thermo-Mechanical Processes in Irradiated Fission-Reactor Materials	30
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-01ER63147 07/14/2005 Ochman	SC-23.2	Lateral Gene Transfer and the History of Bacterial Genomes	-14
NORTHERN ARIZONA UNIVERSITY Flagstaff, AZ	DE-FC02-06ER64159 11/30/2010 Hungate	SC-23.3	Western Regional Center of the National Institute for Climatic Change Research	1,850
NORTHERN ARIZONA UNIVERSITY Flagstaff, AZ	DE-FG02-04ER63883 08/14/2008 Schwartz	SC-23.3	Can Soil Genomics Predict the Impact of Precipitation on Nitrous Oxide (N2O) Fluxes From Soil?	0
Total for AZ :				6,407



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-05ER54849 01/14/2011 Cummings	SC-24.2	SciDAC - Center for Plasma Edge Simulation	110
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER46405 08/31/2010 Atwater	SC-22.22	Plasmonic Photovoltaics	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER54755 01/31/2010 Bellan	SC-24.2	Determining How Spheromak Self-Organization Works	317
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-01ER45950 09/30/2008 Fultz	SC-22.21	ARCS A High-Resolution Chopper Spectrometer at the SNS	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER46175 09/14/2010 Heath	SC-22.23	Quantum Dot and Quantum Wire Solids	162
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER41427 08/31/2009 Hitlin	SC-25	Cerium Doped LSO/LYSO Crystal Development for Future High Energy Physics Experiments	115
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER41359 02/29/2008 Newman	SC-25	LHCNet: Wide Area Networking and Collaborative Systems for HENP	2,400
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER41361 12/31/2007 Ramsey-Musolf	SC-26.1	Fundamental Interactions in Nuclei	283
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER41316 05/31/2008 Ellis	SC-25	Understanding the Fundamental Properties of Dark Matter & Dark Energy in Structure Formation and Cosmology	140
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER41481 07/14/2009 Golwala	SC-25	DUSEL R&D: BetaCage: A Screener of Ultra-Low-Level Radioactive Surface Contamination	100
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-99ER45766 08/14/2011 Eisenstein	SC-22.22	Thermal Transport in Correlated Low Dimensional Electrons Systems	131
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER25657 09/14/2008 Desbrun	SC-21.1	Applied Geometry	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER25725 03/31/2009 Hou	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	111
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER40397 12/31/2010 McKeown	SC-26.1	Study of Nuclei and Elementary Particles at Low and Intermediate Energies	248
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-92ER40701 10/31/2010 Hitlin	SC-25	High Energy Physics	3,820

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-85ER13431 08/31/2009 Bercaw	SC-22.1	Synthetic and Mechanistic Investigation of Polymerization Catalyzed for Early Transition Metal Compounds	175
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER13851 04/30/2008 Wasserburg	SC-22.1	Isotope Tracer Studies of Diffusion in Silicates and of Geological Transport Processes Using Actinide Elements	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER13873 03/20/2009 Meyerowitz	SC-22.13	Regulation of Plant Cells, Cell Walls, and Development by Mechanical Signals	162
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-97ER14814 11/14/2010 McKoy	SC-22.1	Electron-Driven Processes in Polyatomic Molecules	125
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER15483 02/14/2010 Lewis	SC-22.13	Chemical Control over the Electrical Properties of GaAs and Zn3P2 Semiconductor Surfaces and Photoelectrodes	185
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER15754 05/31/2011 Lewis	SC-22.13	Sunlight-Driven Hydrogen Formation by Membrane-Supported Photoelectrochemical Water Splitting	240
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER15773 04/30/2009 Stolper	SC-22.12	Experimental Petrology and Geochemistry of Volatile-Bearing Silicate Melts	172
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER15762 11/30/2011 Arnold	SC-22.12	Structural and Kinetic Studies of Novel Cytochrome P450 Small-Alkane Hydroxylases	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER15716 12/31/2008 Goddard	SC-22.12	Polymer Functionalized Zeolite Proton Exchange Membranes (PFZ-PEM) for Medium Temperature (<299C) Fuel Cells	300
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER63983 12/31/2010 Seinfeld	SC-23.3	Mechanisms of Formation of Secondary Organic Aerosols and Implications for Global Radiative Forcing	199
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER64310 08/31/2009 Fink	SC-23.2	Blind Patient-in-the-loop Optimization of Electrical Stimulation Patterns for Retinal Implant Electrode Arrays	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER64410 12/31/2009 Goddard	SC-23.4	Developing Highly Sensitive Micro-Biosensors for In-Situ Monitoring Mercury & Chromium(IV) Contaminants by Genetically-Evolving & Computer-Designing	180
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER64484 08/31/2010 Leadbetter	SC-23.2	Massively Parallel, Microfluidics-Enabled Single Cell Analysis of Lignocellulose Conversion by Termite Hindgut Microbes	732
IA ST. U DOMINGUEZ HILLS FNDRN Carson, CA	DE-FG02-07ER41525 04/30/2009 Price	SC-26.1	Photoproduction of the Cascade Hyperons at CLAS	27
CALIFORNIA ST. UNIV. EAST BAY Hayward, CA	DE-FG02-05ER15657 04/30/2010 Balasubramanian	SC-22.11	Electronic Structure of Transition Metal Clusters, Actinide Complexes and Their Reactivity	110

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CALIFORNIA ST. UNIV. FULLERTON Fullerton, CA	DE-FG02-04ER15597 01/31/2012 Feagin	SC-22.11	Reaction Imaging and the Molecular Coulomb Continuum	96
CALIFORNIA ST. UNIV. LA Los Angeles, CA	DE-FG02-02ER45981 05/14/2009 Rezayi	SC-22.22	Numerical Studies of Collective Phenomena in Two-Dimensional Electron and Cold Atom Systems	89
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FG02-87ER40347 03/31/2009 Seki	SC-26.1	Nuclear Lattice Calculation	53
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FG02-06ER46305 08/31/2009 Sheng	SC-22.22	Numerical Investigations of Novel Charge and Spin Hall Effects in Graphene and Other Spin-Orbit Coupling Electron Systems	97
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER46194 10/31/2008 Dynes	SC-22.22	Spatial Instabilities, Homogeneities, and Proximity Effects: Highly Correlated Metals	100
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41304 12/14/2009 Crawford	SC-26.1	Investigation of Rare Particles and Parton Distributions in High Energy Nuclear Collisions	330
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41289 09/14/2011 Wurtele	SC-25	Advanced Accelerator Concepts	290
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-00ER41129 04/14/2009 Freedman	SC-26.1	Medium Energy Nuclear Physics	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-00ER41138 02/28/2009 Freedman	SC-26.1	US Participation in the KamLAND Experiment	390
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER41453 03/14/2011 McKee	SC-25	Supernovae, Gamma Ray Bursts, and Nucleosynthesis	250
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER54750 03/31/2010 Wirth	SC-24.2	A Multiscale Investigation of the Mechanisms Controlling Materials Degradation in the Fusion Energy Environment	199
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-03ER63592 09/14/2009 Coates	SC-23.4	Uranium Immobilization Through Fe(II) Bio-oxidation: A Column Study	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-03ER63614 09/30/2007 Coates	SC-23.4	Anaerobic U(IV) Bio-oxidation and the Resultant Remobilization of Uranium in Contaminated Sediments	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-03ER63638 09/14/2007 Baldocchi	SC-23.3	Measuring and Modeling Carbon, Water Vapor, and Energy Exchange Over Grassland and Tree/Grass Savanna Ecosystems, a	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER25786 09/14/2011 Demmel	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	80

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CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-07ER25799 11/14/2011 Yelick	SC-21.1	Institute for Scalable Application Development Software: Proposal for a SciDAC Institute	135
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15696 08/14/2011 Katz	SC-22.12	Controlling Selectivity of Heterogeneous Catalysts Using Grafted Metallocalixarene Active Sites	130
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER15602 10/31/2008 Long	SC-22.1	Cluster-Expanded Solids: A Strategy for Assembling Functional Porous Materials	124
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15637 01/31/2010 Wenk	SC-22.12	Extracting Geological Stresses and Anisotropy from Rocks by means of Neutron Diffraction	149
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER15552 06/30/2010 Luan	SC-22.13	Immunophilins in Photosystem II Assembly and Maintenance	140
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER15507 07/31/2008 Banfield	SC-22.12	Microbial metabolism and the nature of metal sulfide biomineralization products	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-03ER15418 05/14/2009 Wenk	SC-22.12	Diffusion/Dispersion Transport of Chemically Reacting Species	100
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-01ER15218 01/31/2009 Banfield	SC-22.1	How Do Interfacial Phenomena Control Nanoparticle Structure?	199
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-88ER13917 05/14/2008 Staskawicz	SC-22.13	Biochemical Characterization and Functional Role of the Arabidopsis NDR1 Protein in Bacterial Disease Resistance	123
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-87ER13742 06/30/2009 Quail	SC-22.13	Phytochrome from Green Plants: Properties and Biological Function	266
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64486 08/31/2008 Rabinow	SC-23.2	Ethics and Synthetic Geonomics: Bioenergy Collaboration	74
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64505 08/31/2010 Banfield	SC-23.2	Development of Proteogenomic Approaches to Analyze the Role of Virus-Microbe Interactions in Shaping Natural Microbial Communities	593
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64412 05/14/2009 Coates	SC-23.4	Functional Role of Infective Viral Particles on Metal Reduction	60
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64390 03/14/2010 Coates	SC-23.4	Anaerobic, Bio-Oxidation of Uraninite (U(IV))	337
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64436 07/14/2011 Fung	SC-23.3	Carbon Data Assimilation With a Coupled Ensemble Kalman Filter	180

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CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-06ER64308 08/31/2009 Baldocchi	SC-23.3	Quantifying & Understanding Interannual Variability of Carbon, Water, and Energy Exchange of an Oak Savanna & an Annual Grassland Ecosystem AmeriFlux Site	250
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER64134 08/31/2010 Banfield	SC-23.2	Proteogenomic Approaches for the Molecular Characterization of Natural Microbial Communities	750
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER63912 08/31/2010 Six	SC-23.3	Physico-Chemical and Bio-Chemical Controls on Soil C Saturation Behavior	124
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER64341 12/14/2009 Rocke, Goldberg	SC-23.2	Genome-Wide Evaluation of Normal Human Tissue in Response to Controlled, In Vivo Low-Dose Low LET Ionizing Radiation	306
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER64403 05/31/2010 Ginn	SC-23.4	Field Investigation of Microbially Facilitated Calcite Precipitation for Immobilization of Strontium-90 & Other Trace Metals in the Subsurface	26
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER64481 08/31/2009 Bennett	SC-23.2	Intellectual Property and U.S. Public Investments in Research on Biofuel Technologies	353
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-01ER15200 08/31/2009 Cook	SC-22.13	Molecular and biochemical analysis of symbiotic plant receptor kinase complexes	114
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15306 05/31/2011 Ng	SC-22.11	Determination of Accurate Energetic and Spectroscopic Database for Combustion Radicals and Molecules by High Resolution	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15315 10/31/2011 Orel	SC-22.11	Electron-Driven Excitation and Dissociation of Molecules	95
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-97ER14749 01/31/2011 Navrotsky	SC-22.1	Thermodynamics of Minerals Stable Near the Earth's Surface	214
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15392 06/30/2009 Harada	SC-22.13	Regulation of Embryonic Development in Higher Plants	123
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15416 07/31/2009 Callis	SC-22.13	The Role of Rub (Related to Ubiquitin) Family of Proteins in Regulating Proteolysis	123
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15447 09/14/2009 Abel	SC-22.13	The Phosphate Starvation Response Pathway in Arabidopsis thaliana	123
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15405 06/30/2010 Theg	SC-22.13	Energetics and Mechanisms of Protein Transport Across Chloroplast Membranes	140
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15498 11/30/2009 Rustad	SC-22.12	The Impact of Carbonate on Surface Protonation, Electron Transfer, and Crystallization Reactions in Iron Oxide Nanoparticles and Colloids	67

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15513 02/14/2010 Gates	SC-22.12	Dynamic Characterization of Structure and Bonding in Supported Molecular Catalysts	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15553 07/14/2008 Doi	SC-22.13	Structure, Function and Regulation of the Clostridium cellulovorans Cellulosome	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15554 08/31/2010 Liu	SC-22.13	Roles of microtubule-based motors in plant growth	142
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15639 01/31/2009 Rustad	SC-22.12	How Do Interfacial Phenomena Control Nanoparticle Structure?	84
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15693 11/30/2011 Casey	SC-22.12	Adding Reactivity to Structure---Kinetics of Oxygen-Isotope Exchanges at Structural Sites in Nanometer-Size Aqueous Molecules	135
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15667 08/14/2011 Navrotsky	SC-22.1	Energetics of Nanomaterials	110
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15668 07/31/2009 Britt	SC-22.13	G2 checkpoint responses in Arabidopsis	114
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25794 09/14/2011 Galli	SC-21.1	Institute for Quantum Simulations of Materials and Nanostructures	600
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25777 12/14/2011 Ma	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25780 12/14/2011 Joy	SC-21.1	Visualization and Analytics Center for Enabling Technologies (VACET)	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-07ER25811 11/14/2011 Ludaescher	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	193
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-91ER40674 12/31/2009 Ko	SC-25	High Energy Particle Physics Research	1,673
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER25609 08/14/2009 Owens	SC-21.1	A Programming Framework for Scientific Applications on CPU-GPU Systems	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-94ER20134 04/14/2009 Lucas	SC-22.13	Cellular and Molecular Characterization of Vascular Plasmodesmata	123
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER54817 09/14/2007 Ma	SC-24.2	Advanced Visualization Technology for Gyrokinetic Particle Simulations	0

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CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER54732 02/28/2009 Hwang	SC-24.2	Development of High Density Compact Toroid Injector for Central Refueling	337
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54518 02/28/2009 Luhmann	SC-24.2	Millimeter-Wave Density Fluctuation Diagnostics for NSTX	316
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54531 12/14/2010 Luhmann	SC-24.2	Innovative Diagnostic Developments for Turbulence and Transport Measurement and Visualization	372
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER46475 08/14/2010 Power	SC-22.23	Activation of Hydrogen Under Ambient Conditions by Main Group Molecules	165
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-01ER41202 09/14/2007 Ma	SC-25	Advanced Computing for 21st Century Accelerator Science and Technology	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-97ER45640 11/14/2009 Cox	SC-22.22	Theoretical Studies of Correlated Molecules and Solids	90
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER41505 08/31/2009 Tyson	SC-25	Optimizing New Dark Energy Experiments	100
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46173 08/31/2010 Parikh	SC-22.23	Dynamical Self-Assembly: Structure- Dynamics-Function Relations in Heterogenous Phospholipid Membranes	326
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46262 11/14/2009 Galli	SC-22.22	Semiconductor Nanostructures by Scientific Design	224
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46282 04/30/2011 Asta	SC-22.21	Computational Studies of Solid-Liquid Interfaces	248
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46340 08/14/2009 Kuhl	SC-22.21	Structure-Property Relationships of Polymer Brushes in Restricted Geometries and their Utilization as Ultra-Low Lubricants	217
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46053 06/30/2009 Navrotsky	SC-22.23	Thermochemistry of Anion Defect and Charge Coupled Substitutions in Fluorite and Perovskite Based Materials	146
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46057 06/14/2010 Browning	SC-22.21	Materials Properties at Interfaces in Nanostructured Materials: Fundamental Atomic Scale Issues	125
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46111 01/31/2010 Pickett	SC-22.22	Theory of Real Correlated Electron Materials	173
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46107 12/31/2009 Yu	SC-22.22	Glasses, Noise and Phase Transitions	84

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CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-03ER46036 02/14/2010 Lawrence	SC-22.21	Neutron Scattering Studies of Rare Earth Valence Fluctuation Compounds	181
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-03ER46071 02/14/2008 Dennin	SC-22.23	Understanding Foam Rheology from the Microscopic to the Macroscopic Scale	0
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46162 02/28/2011 Guan	SC-22.23	Biomimetic 3D Network Polymers Containing Reversibly Unfoldable Modules (RUM's) for Strong and Tough Materials	156
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER46237 08/31/2011 Wu	SC-22.22	First Principles Exploration for the Origin of Ferromagnetism in Diluted Magnetic Semiconductors	90
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46174 08/31/2010 Chernyshev	SC-22.22	Excitation and Thermal Transport in Quantum Magnets	79
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER41494 08/31/2009 Vagins	SC-25	Selective Filtration of Gadolinium Trichloride for Use in Neutron Detection in Large Water Cherenkov Detectors	90
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-84ER45083 01/31/2011 Mills	SC-22.22	Electron Probes of Nanoscale and Subnanoscale Structures and their Dynamics	99
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-96ER45576 04/14/2011 Hemmingner	SC-22.23	Optical Spectroscopy and Scanning Tunneling Microscopy Studies of Molecular Adsorbates and Anisotropic Ultrathin Films	150
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER54736 12/14/2011 Chen	SC-24.2	Theoretical Studies of Drift-Alfven and Energetic-Particle Physics	140
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-02ER54681 08/14/2011 Heidbrink	SC-24.2	Beam Ion Studies in NSTX	95
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-03ER54720 08/14/2009 Heidbrink	SC-24.2	Fast-Ion Studies in the Large Plasma Devices	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-06ER54860 01/14/2011 Lin	SC-24.2	SciDAC - Center for Plasma Edge Simulation	115
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER54867 04/14/2009 Heidbrink	SC-24.2	Fast-Ion D-Alpha Diagnostic for NSTX	159
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER54877 12/31/2008 Wessel	SC-24.2	Instability Control in a Staged Z-Pinch	50
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER54916 12/31/2009 Lin	SC-24.2	Multiple-Time-Scale Gyrokinetic Particle Simulation with Collisions	99



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CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER15826 08/31/2009 Ho	SC-22.11	Time-Resolved Single-Molecule Chemical Imaging Studies of Interfacial Electron Transfer	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-91ER40679 01/31/2010 Sobel	SC-25	A Research Program in Neutrino Physics, Cosmic Rays, and Elementary Particles	3,539
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15595 02/28/2009 Ho	SC-22.11	Spectroscopic Imaging Toward Space-Time Limit	155
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15571 12/31/2010 Mukamel	SC-22.11	Theory and Simulation of Nonlinear X-Ray Spectroscopy of Molecules	75
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13514 06/14/2010 Evans	SC-22.1	Advancing Chemistry with F Elements	170
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13525 05/31/2011 Lanyi	SC-22.13	Membrane Bioenergetics of Salt Tolerant Organisms	189
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER64429 07/14/2010 Smyth	SC-23.3	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical Models	108
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER64349 01/14/2009 Limoli	SC-23.2	Radiobiology of Neural Cancer Stem Cells	100
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64000 12/31/2010 Finlayson-Pitts	SC-23.3	Formation of Secondary Organic Aerosols (SOA) via Nitrate Ion Photochemistry In and On Particles	220
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64021 04/30/2013 Goulden	SC-23.3	Physiological, Demographic, Competitive and Biogeochemical Controls on the Response of California's Ecosystems to	303
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64083 06/30/2008 Redpath	SC-23.2	Molecular Mechanisms of Suppression of Neoplastic Transformation by Low Doses of Low LET Radiation	286
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-05ER64011 01/31/2011 Paulson	SC-23.3	Optical Properties and Mass Measurements of Representative Aerosols	200
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER63938 08/31/2008 Weiss	SC-23.2	Single-Molecule Methods for the Large-Scale Characterization of Expression Levels and Protein-Protein Interactions in <i>Shewanella Oneidensis</i> MR-1	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-06ER64224 03/31/2009 Miller	SC-23.2	Fourteenth-Sixteenth Microbial Genomics Conference - 2006-2008	60
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER64439 07/14/2010 Ghil	SC-23.3	Collaborative Research: Robust Climate Projections and Stochastic Stability of Dynamical Systems	445

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER64447 07/31/2011 Stevens	SC-23.3	Cloud Feedback Studies With a Physics Grid	198
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER64490 09/14/2010 Liao	SC-23.2	Engineering Coordination of Regulatory Networks and Intracellular Complexes to Maximize Hydrogen Production by Phototrophic Microorganisms	500
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER15529 08/31/2010 Merchant	SC-22.13	Molecular Genetic Dissection of Chloroplast Iron Homeostasis	144
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-91ER40662 01/14/2010 Cline	SC-25	Experimental and Theoretical High Energy Physics	2,000
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40693 10/31/2009 Rosenzweig, Pellegrini	SC-25	Theoretical and Experimental Studies in Accelerator Physics	820
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40695 10/31/2011 Cline	SC-25	Advanced Accelerator Physics Research at UCLA	395
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-92ER40727 05/31/2010 Joshi, Mori	SC-25	Experimental, Theoretical and Computational Studies of Plasma-Based Concepts for Future High Energy	1,400
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-88ER40420 01/31/2012 Nefkens	SC-26.1	UCLA Intermediate Energy Nuclear and Particle Physics Research	395
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-88ER40424 01/31/2012 Whitten	SC-26.1	Intermediate Energy and Relativistic Heavy Ion Group	819
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-05ER25710 08/31/2009 Caflisch	SC-21.1	Multiscale Mathematics for Plasma Kinetics Spanning Multiple Collisionality Regimes	205
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-07ER54918 12/31/2010 Gekelman	SC-24.2	Basic Plasma Science Facility Upgrade	1,305
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER63724 11/14/2010 Liou	SC-23.3	Characterization of 3D Cirrus Cloud and Radiation Fields Using ARM/AIRS/MODIS Data and Its Application to Climate Models	150
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER63881 09/14/2008 Ghil	SC-23.3	Studies of Regional-Scale Climate Variability and Change: Hidden Markov Models and Coupled Ocean-Atmosphere Modes	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-02ER63420 12/31/2006 Phelps	SC-23.2	Institute for Molecular Medicine Research Program	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-02ER63421 12/31/2009 Eisenberg	SC-23.2	UCLA-DOE Institute for Genomics and Proteomics	1,791

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CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-03ER54721 08/14/2009 Mori	SC-24.2	Continuation of Full-Scale Three-Dimensional Numerical Experiments on High-Intensity Particle and Laser Beam Matter Interactions	100
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-03ER54708 11/14/2012 Ghoniem	SC-24.2	Multiscale Modeling of Deformation, Fracture, and Failure of Fusion Materials and Structures	299
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-04ER54740 01/14/2008 Decyk	SC-24.2	Computer Modeling of Microturbulence and Macro-stability Properties of Magnetically Confined Plasmas	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-04ER54785 07/31/2009 Carter	SC-24.2	Fusion Science Center: The Center for Multiscale Plasma Dynamics	602
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-04ER54797 09/14/2007 Decyk	SC-24.2	Center for Gyrokinetic Particle Simulation of Turbulent Transport in Burning Plasmas	0
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-01ER54615 12/31/2010 Brower	SC-24.2	Development of Advanced Magnetic and Electron Current Density Diagnostics	1,009
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-99ER54527 02/28/2009 Peebles	SC-24.2	Cross-Cutting Research Studies on the National Spherical Torus Experiment	316
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-86ER52123 12/31/2010 Abdou	SC-24.2	Predictive Capabilities, Analysis and Experiments for Fusion Plasma Chamber Systems Research	1,980
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FC02-07ER41500 08/31/2012 Mori	SC-25	Community Petascale Project for Accelerator Science and Simulation	180
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-06ER41431 08/31/2008 Wallny	SC-25	Fabrication and Testing of Single Crystal Chemical Vapor Deposition Diamonds for Detector Applications	57
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-06ER46276 03/14/2009 Miao	SC-22.21	Three-Dimensional Imaging of Nanoscale Materials by Using Coherent X-rays	195
CALIFORNIA, UNIV. OF LA Los Angeles, CA	DE-FG02-07ER46272 06/30/2010 Pellegrini, Rosenzweig	SC-22.3	The Physics of Gain Mechanisms in Self-Amplified Spontaneous Emission Free Electron Lasers	300
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER15502 02/14/2011 Kelley	SC-22.13	Exciton Transport and Charge Separation in Quantum Dot Arrays	130
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER25625 08/31/2009 Colvin	SC-21.1	A Center for Computational Biology	0
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-07ER64457 07/31/2011 Kueppers	SC-23.3	Subalpine and Alpine Species Range Shifts with Climate Change: Temperature & Soil Moisture Manipulations to Test Species & Population Responses	810

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CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-06ER46296 07/14/2010 Wu	SC-22.22	Atomic Density Functional Theory for Crystal Nucleation and Growth	143
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46138 04/14/2010 Haddon	SC-22.23	Solid State Electronic Structure and Properties of Neutral Carbon-Based Radicals	237
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46131 04/14/2010 Mohideen	SC-22.22	Investigating the Material Property Dependences in the Casimir Force for Applications in Semiconductor	127
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER41325 06/30/2010 Barish	SC-26.1	SPIN PHYSICS WITH PHENIX AT RHIC	192
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41487 08/14/2010 Hanson	SC-25	Neutrino Factory & Muon Collider Fellow	95
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41465 05/31/2010 Hanson	SC-25	High Energy Physics Research with the CMS Experiment at CERN	166
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER46351 11/14/2011 Shi	SC-22.22	Study of Materials and Interface Properties for High-Efficiency Spin Injection	96
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-86ER40271 12/31/2011 Seto, Barish	SC-26.1	Central Collisions of Heavy Ions	420
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-94ER40837 01/31/2012 Wimpenny, Ma, Gary	SC-25	High Energy Physics	1,263
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER15555 07/14/2010 Yang	SC-22.13	ROP GTPase Signaling in the Hormonal Regulation of Plant Growth	145
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-03ER15464 09/14/2009 Bartels	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	152
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-03ER15472 09/14/2009 Zaera	SC-22.12	Molecular-level Design of Heterogeneous Chiral Catalysts	635
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-05ER15660 05/14/2011 Bocian	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	135
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-05ER15649 06/14/2009 Springer	SC-22.13	Transcription Factors Expressed in Lateral Organ Boundaries: Identification of Downstream Targets	114
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-02ER15295 04/14/2011 Raikhel	SC-22.13	Trafficking to the Protein Storage Vacuoles in Plants	143

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CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-05ER63984 12/31/2010 Ziemann	SC-23.3	Hygroscopicity and CCN Activity of Secondary & Processed Primary Organic Aerosols	136
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER64119 08/14/2010 McClellan	SC-23.3	Towards a Fine-Resolution Global Coupled Climate System for Prediction on Decadal/Centennial Scales	142
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER64362 09/14/2010 Keeling	SC-23.3	A Study of the Role of Terrestrial Processes in the Carbon Cycle Based on Measurements of the Abundance and Isotopic Composition of Atmospheric CO <sub>2</sub>	339
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER64324 11/14/2010 Tartakovsky	SC-23.4	Hybrid Numerical Methods for Multiscale Simulations of Subsurface Biogeochemical Processes	80
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER15449 09/14/2009 Schroeder	SC-22.13	Molecular and Genetic Basis of Sodium/Potassium Transport and Distribution in Plants	166
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER15748 11/14/2009 Fox, Whitesell	SC-22.13	Functionalized Nanoparticles and Surfaces for Controlled Chemical Catalysis and Effective Light Harvesting	155
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-98ER14879 10/31/2010 Continetti	SC-22.1	Dynamics and Energetics of Elementary Combustion Reactions and Transient Species	137
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER15859 04/30/2008 Continetti	SC-22.11	International Symposium on Free Radicals - August 12-17, 2007	7
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-01ER25486 08/14/2007 Ludaescher, Moore	SC-21.1	Scientific Data Management Integrated Software Infrastructure Center	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER25679 05/31/2008 Pevzner	SC-21.1	RECOMB Conference Support - 2005	12
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER25707 08/14/2009 Holst	SC-21.1	Multiscale Design of Advanced Materials Based on Hybrid Ab Initio and Quasicontinuum Methods	271
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-90ER40546 12/31/2009 Kuti, Branson, Sharma, Griest	SC-25	Elementary Particle Physics	1,350
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-06ER25760 12/14/2011 Snively	SC-21.1	Collaborative Research: Performance Engineering Research Center	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER25815 03/31/2010 Tartakovsky	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in	101
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-06ER25785 09/14/2011 Reynolds	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	80

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54804 08/14/2009 Rosenberg	SC-24.2	Dust-Plasma Interactions	90
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER54809 04/14/2011 Moyer	SC-24.2	Modeling Plasma Response to Non-Axisymmetric Magnetic Field Perturbations in Tokamak Boundaries	106
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54757 12/31/2009 Najmabadi, Raffray, Tillack, Mau	SC-24.2	Advanced Design Program (ARIES)	934
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54758 04/30/2007 Moyer, Boedo	SC-24.2	DIII-D Edge Plasma Disruptions and Radiative Processes	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54738 12/14/2010 Diamond	SC-24.2	Investigations in Anomalous Transport and Ignition Physics	549
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54739 01/14/2010 Krasheninnikov	SC-24.2	Turbulence, Structures, and Macroscopic Transport in Edge, SOL, and Divertor Plasmas	227
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54734 04/30/2007 Conn, Najmabadi, Tynan	SC-24.2	UCSD PISCES and Plasma Surface Interaction Theory and Modeling	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER54731 03/14/2009 Boedo, Moyer	SC-24.2	Edge Physics Studies on the NSTX Spherical Tokamaks	146
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46449 08/14/2010 Butov	SC-22.22	Cold Exciton Gases in Semiconductor Heterostructures	140
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46355 01/14/2010 Qiao	SC-22.22	Understanding Size Effect in Cleavage Cracking in Thin Film Materials	282
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER63857 09/14/2008 Miller	SC-23.3	Predictability and Diagnosis of Low-Frequency Climate Processes in the Pacific	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER63865 07/31/2008 Zhang	SC-23.3	Evaluating the Representation and Impact of Convective Momentum Transport in CCSM Atmosphere Model	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER63538 12/14/2007 Lubin	SC-23.3	A Study of Arctic Cloud and Aerosol Using AERI Data: Radiative Properties, Thermodynamic Phase, and a Search for the	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER63532 12/14/2009 Zhang	SC-23.3	Improving Convection Parameterization Using ARM Observations and NCAR Community Atmosphere Model	112
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-01ER63252 09/14/2010 Cessi	SC-23.3	The Role of Eddy-Transport in the Thermohaline Circulation	117

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CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54917 01/14/2010 Moyer	SC-24.2	DIII-D Edge Physics and Disruptions	883
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54912 12/14/2009 Tynan	SC-24.2	UCSD PISCES Program: Plasma Boundary Science, Materials Interactions, and Collaborative Fusion Research	1,880
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-97ER62338 11/30/2007 Somerville	SC-23.3	Single-Column Modeling, GCM Parameterizations and ARM Data	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54871 05/31/2009 Tynan	SC-24.2	Nonlinear Drift Turbulence-Zonal Flow Interactions in a Laboratory Plasma Device	239
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER54908 01/14/2012 Krasheninnikov	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	90
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER54842 08/14/2008 Beg	SC-24.2	High Energy Density Physics and Applications with a State-of-the-Art Compact X-Pinch	190
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54852 02/28/2009 Krasheninnikov	SC-24.2	Basic Physical Processes Involving Dust in Fusion Plasmas	100
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-87ER45332 06/30/2011 Schuller	SC-22.22	Nanostructured Materials: From Superlattices to Quantum Dots	131
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-00ER45799 11/30/2011 Basov	SC-22.22	Electromagnetic Response of Correlated Electron Systems in the Regime of Charge and Spin Inhomogeneity	120
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER46105 11/30/2009 Maple	SC-22.22	Superconductivity and Magnetism in d- and f-Electron Materials	295
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER46135 10/14/2007 Tsimring	SC-22.23	Modeling for Process Control: High-Dimensional Systems	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER46178 09/14/2008 Maple	SC-22.22	Acquisition of Single Crystal Growth and Characterization Equipment	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER46204 05/31/2011 Di Ventra	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport in Nanoscale Conductors	100
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-03ER63630 01/31/2009 Balmain	SC-23.2	Identification of Mouse Genetic Susceptibility to Radiation Carcinogenesis	192
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-05ER64120 08/31/2009 Miller	SC-23.4	Functions, Evolution, and Application of the Supramolecular Machines of Hg Detoxification	190

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CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-07ER64420 05/31/2010 Weaver	SC-23.2	Extracellular Matrix Force and Radiation Resistance	99
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-07ER64409 05/14/2010 Miller	SC-23.4	Identifying Biomarkers and Mechanisms of Toxic Metal Stress with Global Proteomics	125
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-06ER46324 05/14/2008 Heeger	SC-22.2	Functional Interfaces in Polymer-Based Bulk Heterojunction Solar Cells: Establishment of a Cluster for	150
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-06ER46314 07/31/2010 Safinya	SC-22.23	Miniaturized Hybrid Materials Inspired by Nature	200
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER46080 03/14/2008 Ahlers, Cannell	SC-22.23	Heat Transport by Turbulent Rayleigh-Benard Convection	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-02ER46006 05/30/2009 Morse	SC-22.23	Biological and Biomimetic Low-Temperature Routes to Materials for Energy Applications	350
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-02ER45994 08/31/2009 Stemmer	SC-22.21	Microstructural Origins of the Dielectric Behavior of Ferroelectric Thin Films	120
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FC02-06ER41437 03/14/2011 Sugar	SC-25	National Computational Infrastructure for Lattice Gauge Theory	30
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-87ER45331 10/31/2010 Israelachvili	SC-22.23	Properties of Surfaces and Films over Large Length and Time Scales	247
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-07ER46434 08/14/2010 Van de Walle	SC-22.22	Computational Studies of Hydrogen Interfaces with Storage Materials	135
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-94ER54275 05/31/2013 Odette	SC-24.2	A Science-Based Fast Track for Advanced Fusion Structural Materials Development	498
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-91ER40618 03/31/2011 Richman	SC-25	UCSB High Energy User Group	2,159
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-05ER25704 08/14/2008 Leal	SC-21.1	Localized Scale Coupling and New Educational Paradigms in Multiscale Mathematics and Science	132
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-04ER25632 09/14/2008 Gilbert	SC-21.1	PetaScale Application Development Analysis	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-04ER25621 08/31/2009 Petzold	SC-21.1	Multiscale Simulation Algorithms for Biochemical Systems	0



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FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-06ER15835 08/31/2009 Buratto	SC-22.12	Chemical Imaging with 100nm Spatial Resolution	165
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-96ER14620 01/31/2010 Boles	SC-22.1	Physiochemical Evidence of Faulting Processes and Modeling of Fluid Flow in Evolving Fault Systems in Southern	94
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-98ER14910 05/31/2011 Bazan	SC-22.1	Ring Walking/Oxidative Addition Reactions for the Controlled Synthesis of Conjugated Polymers	128
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-89ER14048 06/30/2011 McFarland	SC-22.1	Investigations of C-H Bond Activation and Doped Metal Oxide Catalysts	138
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-05ER15725 07/14/2009 Seshadri	SC-22.12	Nanostructured Catalysts for the Hydrogen Economy	256
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15467 09/14/2009 Scott	SC-22.12	Hierarchical Design of Supported Organometallic Catalysis for Hydrocarbon Transformations: Structures and Dynamics	470
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-04ER15544 07/14/2009 Finkelstein	SC-22.13	ABI8: Prototype of a novel signaling factor	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15441 12/14/2009 Wodtke	SC-22.11	Electronically Non-Adiabatic Interactions in Molecule Metal-Surface Scattering: Can We Trust the Born-Oppenheimer	138
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-05ER63949 11/14/2007 Holden	SC-23.4	Stabilization of Plutonium in Subsurface Environments via Microbial Reduction and Biofilm Formation	86
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER25768 12/14/2011 Long	SC-21.1	Petascale of Data Storage Institute	0
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-07ER46388 05/31/2010 Bridges	SC-22.22	Doped Semiconductor Nanomaterials for Solid State Lighting Applications	201
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER63750 12/14/2010 Liu	SC-23.2	Artificial Retina Project: Wireless Link and Microelectronics	228
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER41286 10/31/2009 Seiden	SC-25	Research in High Energy Physics	1,895
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER41438 03/14/2011 Woosley	SC-25	Computational Astrophysics Consortium: 3 Supernovae, Gamma Ray Bursts, and Nucleosynthesis	256
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-06ER46319 08/31/2009 Shastry	SC-22.22	Dynamical Thermal Transport in Correlated Matter	110

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ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-05ER46181 11/30/2008 Belanger	SC-22.21	Ordering Process in Complex Magnetic Systems	129
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-05ER46232 08/14/2011 Zhang	SC-22.21	Hydrogen Generation Using Integrated Photovoltaic and Photoelectrochemical Cells	150
KECK GRADUATE INSTITUTE Claremont, CA	DE-FG02-04ER63804 12/14/2007 Sauro	SC-23.2	Computational Resources for GTL	0
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-07ER64348 01/31/2010 Green	SC-23.2	The Contribution of Tissue Level Organization to Genomic Stability Following Low Dose/Low Dose Rate Gamma and Proton Irradiation	351
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-07ER64345 12/31/2009 Gridley	SC-23.2	Th Cell Gene Expression and Function in Response to Low Dose and Acute Radiation	200
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-05ER64097 07/31/2008 Bush	SC-23.2	Development of a Helium-Ion Beam Research and Clinical Application Platform at Loma Linda University Medical Center's Proton Beam Treatment Center	0
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-05ER64098 07/31/2008 Gridley	SC-23.2	Mechanisms of Low Dose Radiation-Induced T Helper Cell Function	158
OCCIDENTAL COLLEGE Los Angeles, CA	DE-FG02-06ER54882 07/14/2009 Eggleston	SC-24.2	Resonance Overlap, Axial Trapping, and Magnetic Field Scaling in Asymmetry-Induced Transport	60
O STATE UNIVERSITY RES. FOUND. San Diego, CA	DE-FG02-03ER41272 05/31/2009 Johnson	SC-26.1	Mean-Field and Moment Methods Applied to Nuclear Structure and Reactions	85
SAN DIEGO, UNIVERSITY OF San Diego, CA	DE-FG02-03ER54728 09/14/2009 Severn	SC-24.2	Collaborative Research: Understanding Sheaths and Pre-sheaths in Plasmas	46
SAN FRANCISCO STATE UNIVERSITY San Francisco, CA	DE-FG02-92ER40711 01/31/2011 Greensite	SC-25	Research in Theoretical High Energy Physics	95
N JOSE STATE UNIVERSITY FOUND. San Jose, CA	DE-FG02-07ER15853 02/29/2012 Silber	SC-22.12	Support for the American Chemical Society's Summer Schools in Nuclear and Radiochemistry	98
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-06ER54886 07/14/2009 Katsouleas	SC-24.2	Collaborative Research: Simulation of Beam-Electron Cloud Interactions in Circular Accelerators Using Plasma Models	75
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER63882 08/14/2008 Nealson	SC-23.2	Genome-Facilitated Analyses of Geomicrobial Processes	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-07ER46376 05/31/2010 Cronin	SC-22.22	Structure-Optical-Thermal Relationships of Carbon Nanotubes	82

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SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER46130 04/14/2010 Vashishta	SC-22.22	Multimillion-to-Billion Atom Simulations of Nanoscale Systems	160
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER46146 12/31/2007 Kassner	SC-22.22	Long-Range Internal Stresses and Mechanisms of Cyclic and Monotonic Deformation	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER46240 08/31/2011 Haas	SC-22.22	Quantum to Classical Crossover of Collective Modes in Correlated Matter	80
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-99ER14956 04/14/2010 Haw	SC-22.12	Fundamental Studies of Catalysis by Solid Acids	122
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER15509 10/31/2008 Wittig	SC-22.1	Photoinitiated Processes in Small Hydrides	130
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER15598 12/14/2010 Haw	SC-22.12	Supported Molecular Catalysts: Synthesis, In-Situ Characterization and Performance	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15629 03/31/2011 Reisler	SC-22.11	Photoinitiated Reactions of Radicals and Diradicals in Molecular Beams	135
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15685 12/14/2011 Krylov	SC-22.11	Theoretical Modeling of Spin-Forbidden Channels in Combustion Reactions	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-92ER40745 11/14/2010 Muggli	SC-25	Program for Plasma-Based Concepts for Future High Energy Accelerators	515
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-84ER40168 02/28/2011 Warner, Bars	SC-25	Theoretical Particle Physics	270
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-06ER25741 08/14/2009 Lehman	SC-21.1	Hybrid Multi-Layer Network Control for Emerging Cyber-Infrastructures	200
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25765 12/14/2011 Lucas	SC-21.1	Performance Engineering Research Center (PERC-3)	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-07ER64385 05/31/2010 Nealson	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	396
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER46287 08/14/2009 Kivelson	SC-22.22	Properties of Locally Charge Ordered Conductors	73
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER46163 04/30/2011 Nix	SC-22.21	Mechanical Properties of Materials with Nanometer Scale Microstructures	144

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STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER41295 12/31/2009 Cabrera, Gratta	SC-25	Stanford Non-Accelerator High Energy Physics Program	1,225
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER41276 07/31/2010 Byer	SC-25	Development of High-Gradient Extended Dielectric Based Laser-Driven Particle Accelerator Structures	330
STANFORD UNIVERSITY Stanford, CA	DE-FG02-90ER45435 12/31/2009 Osheroff	SC-22.22	Ultra-Low Temperature Properties of Amorphous and Glassy Materials	117
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER41480 07/14/2010 Cabrera	SC-25	DUSEL Research and Development on Sub-Kelvin Germanium Detectors for Ton Scale Dark Matter Search	135
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46391 06/30/2010 Dauskardt	SC-22.22	Nanomaterial Thin-Film Structures: Fracture and Complex Environments	153
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46426 08/31/2010 Fan	SC-22.22	Nanophotonics-Enhanced Solar Cells	250
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER63891 08/31/2009 Arrigo	SC-23.3	Photosynthetic Characteristics, Carbon Metabolism, and Nutrient Requirements of Phaeocystis Antarctica and Diatoms from	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER63609 03/31/2008 Fendorf	SC-23.4	Elucidating Bioreductive Transformations within Physically Complex Media: Impact on the Fate and Transport of Uranium and Chromium	10
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER63763 04/30/2007 Criddle	SC-23.4	Field-Scale Evaluation of Biological Uranium Reduction and Reoxidation in the Near-Source Zone at the NABIR Field	0
STANFORD UNIVERSITY Stanford, CA	DE-FC02-99ER62873 12/15/2010 Myers	SC-23.2	Genome Improvement at JGI-SHGC	8,098
STANFORD UNIVERSITY Stanford, CA	DE-FG02-01ER63219 06/14/2008 McAdams	SC-23.2	Global Characterization of Genetic Regulatory Circuitry Controlling Adaptive Metabolic Pathways	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-95ER62051 06/14/2011 Weyant	SC-23.3	Summer Workshops on Climate Change Impacts and Integrated Assessment of Climate Change	127
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER54897 07/31/2009 Cappelli	SC-24.2	High Density Magnetized Microdischarge Plasmas	100
STANFORD UNIVERSITY Stanford, CA	DE-FG02-88ER13857 02/28/2009 Hanson, Bowman	SC-22.11	Kinetics and Spectroscopy of Combustion Gases at High Temperatures	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-84ER13251 01/14/2011 Fayer	SC-22.1	Nanoconfinement and Interfaces-Water and Proton Dynamics	190

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER15810 07/31/2009 Bergmann	SC-22.13	Manipulating Signaling in Stomatal Development	123
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER15588 11/14/2010 Pollard, Aydin	SC-22.1	Structural Heterogeneities and Paleo Fluid Flow in An Analog Sandstone Reservoir	273
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15382 12/31/2007 Knight	SC-22.1	Geochemical Controls on Nuclear Magnetic Resonance Measurements	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15454 10/31/2009 Borja	SC-22.1	Framework for constitutive branching in porous rocks undergoing brittle faulting and cataclastic flow	110
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15443 08/31/2008 Mudgett	SC-22.13	Biochemical Characterization of the Interaction between Xanthomonas Type III Effector XopN and a Tomato LLR-RLK	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15423 02/28/2010 Nur	SC-22.12	Porous Rock with Fluid: Impact of Heterogeneity on Reservoir Transport and Elastic Properties and Application to	206
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER25726 03/31/2009 Durlafsky	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	80
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER15892 02/28/2011 Moerner	SC-22.13	Imaging of Conformational Changes for Single Proteins in Solution by Suppression of Brownian Motion	230
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER64386 03/31/2010 Spormann	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	200
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER64430 07/14/2008 Matin	SC-23.4	Soluble Enzyme-Mediated Metal and Radionuclide Remediation by Genetically Improved Bacteria in Model ERSP-FRC Site	37
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER64237 05/14/2009 Brown	SC-23.4	Microscopic Controls on the Description/Dissolution of Sorbed U(VI) and their Influence on Reactive Transport	100
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER64164 06/30/2007 Paytan	SC-23.3	Organic Matter Composition, Recycling Susceptibility, and the Effectiveness of the Biological Pump - An Evaluation Using	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER64364 03/14/2010 Criddle	SC-23.4	Monitoring Uranium Transformations Determined by the Evolution of Biogeochemical Processes	25
STANFORD UNIVERSITY Stanford, CA	DE-FG02-05ER64122 09/14/2008 Matin	SC-23.4	Molecular Mechanisms of Uranium Reduction by Clostridia and its Manipulation	176
STANFORD UNIVERSITY Stanford, CA	DE-FG02-05ER64136 08/31/2010 McAdams	SC-23.2	Dynamic Spatial Organization of Multi-Protein Complexes Controlling Microbial Polar Organization, Chromosome Replication, and Cytokinesis	2,129

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER63896 08/14/2009 Arrigo	SC-23.3	Iron Fertilization of the Southern Ocean: Regional Simulation and Analysis of C-Sequestration in the Ross Sea	0
STEFAN UNIVERSITY La Jolla, CA	DE-FG02-07ER54926 06/30/2008 Stefan	SC-24.2	The Marshall Rosenbluth International Summer School-2007: Plasma Thermonuclear Fusion and Plasma Astrophysics - 2007	5
Total for CA :				89,461

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER46397 07/14/2010 Reimanis	SC-22.22	Mechanical Behavior in Lithium Aluminum Silicate Composites	114
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-04ER54775 05/31/2010 Cecil	SC-24.2	Collaboration on Energetic Ion Diagnostics on JET and ITER	30
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-05ER46242 08/31/2011 Sloan	SC-22.23	Molecular Hydrogen Storage in Novel Clathrate Materials	250
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-05ER15739 12/31/2008 Tsvankin	SC-22.12	Prestack Amplitude Analysis of Wide-Azimuth Seismic Data for High-Resolution Reservoir Characterization	75
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-06ER15778 04/30/2009 Snieder	SC-22.12	Monitoring the Subsurface with Multiple Scattered Waves and Quasi-Static Deformation	101
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-93ER14363 10/31/2009 Way	SC-22.1	A Mechanistic Study of Inorganic Membranes for Gas Separations	104
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER15841 12/14/2009 Benson	SC-22.12	Investigation into the Relationship Between Heterogeneity and Heavy-Tailed Solute Transport	79
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-93ER40789 03/31/2011 Greife	SC-26.1	Nuclear Structure and Astrophysics with Unstable Beams	255
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER64423 05/31/2010 Posewitz	SC-23.2	Filling Knowledge Gaps in Biological Networks: Integrated Global Approaches to Understand H2 Metabolism in Chlamydomonas	190
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER64419 05/31/2009 Ranville	SC-23.4	Relating Pore-Scale Uranium Aquatic Speciation to Intermediate-Scale Aquifer Heterogeneity: Determining pH-Dependent Uranium...	74
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-04ER63900 03/31/2008 Honeyman	SC-23.4	Biogeochemical Cycling and Environmental Stability of Pu Relevant to Long-Term Stewardship of DOE Sites	0
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-06ER64233 12/14/2009 Honeyman	SC-23.4	Upscaling of Long-Term U(VI) Desorption from Pore Scale Kinetics to Field-Scale Reactive Transport Models	200
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER64350 01/14/2010 Bedford	SC-23.2	Genetic Factors Affecting Susceptibility to Low Dose and Dose Rate Irradiation	250
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-06ER64317 08/31/2009 Denning	SC-23.3	Multi-Year Regional Synthesis of Atmospheric Flux and mixing Ratio Measurements in Support of the North American Carbon Program	122
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-06ER64302 08/31/2011 Randall	SC-23.3	Design and Testing of a Global Cloud-resolving Model	855

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-05ER63946 11/14/2009 Weil, Ullrich	SC-23.2	Radiation Leukemogenesis at Low Dose Rates	275
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-05ER63961 03/31/2008 Austin	SC-23.3	Operational Retrieval of Cloud Microphysical Properties using Combined Measurements by Diverse Instruments	107
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-05ER64087 03/31/2009 Zimbrick	SC-23.2	Transgenerational Effects of Chronic Low-Dose Irradiation in a Medaka Fish Model System	340
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-93ER40788 12/14/2010 Toki, Harton, Wilson	SC-25	Research in High Energy Physics	698
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER15871 05/14/2008 Rocca	SC-22.11	Request for Student Support for the 2007 Joint Conference on "Ultrafast Optics VI -and "Applications of High Fields and Short Wavelengths Sources XII"....	5
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER25620 02/28/2009 Estep	SC-21.1	A Posteriori Analysis of Interface Effects in the Discretization of Multi-Scaled and Multi-Physics Problems by Decomposition	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-05ER25699 08/14/2009 Estep	SC-21.1	A Mathematical Analysis of Atomistic-to-Continuum (AtC) Multiscale Coupling Methods	72
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-06ER25724 02/28/2009 Strout	SC-21.1	Representation-Independent Compiler Technology for Domain-Specific Analysis with the Open-Analysis Toolkit	76
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-96ER14647 10/31/2011 Lundeen	SC-22.11	Properties of Actinide Ions from Measurements of Rydberg Ion Fine Structure	210
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-96ER14625 03/31/2009 Elliott	SC-22.13	Surface Binding and Organization of Sensitizing Dyes on Metal Oxide Single Crystal Surfaces	144
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-05ER15750 11/15/2008 Parkinson, Elliott	SC-22.13	A Combinatorial Approach to Realization of Efficient Water Photoelectrolysis	190
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER15453 10/31/2009 Finke	SC-22.1	Nanocluster Catalyst Nucleation Kinetic and Mechanistic, Then Scaled-Up Synthetic, Fundamental Studies	140
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER15451 08/14/2008 Bush	SC-22.13	Genetic and Molecular Analysis of a New Control Pathway in Assimilate Partitioning	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15591 10/31/2010 Elliott	SC-22.13	Transition Metal Polypyridine Complexes: Studies of Mediation in Dye-Sensitized Solar Cells and Charge Separation in	145
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15592 12/31/2010 Rocca	SC-22.11	High Harmonic Generation in Discharge-Ionized Plasma Channels	143



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COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15556 08/31/2008 Reddy	SC-22.13	Functional analysis of U1-70K interacting SR proteins and regulation of alternative splicing of pre-mRNA in Arabidopsis	49
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER41255 06/30/2011 Fairbank	SC-25	New Technique for Barium Daughter Ion Identification in a Liquid Xe-136 Double Beta Decay Experiment	73
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER46448 08/14/2010 Wang	SC-22.23	Achieving Three-Dimensional Well-Ordered Nanostructures in Block Copolymer Films by Combined External Fields	150
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-94ER61748 01/31/2009 Stephens, Gabriel, Platt	SC-23.3	Refinement, Validation and Application of Cloud-Radiation Parameterization in a GCM	172
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-07ER54909 02/14/2012 Estep	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	89
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER63890 08/14/2010 Paul, Paustian	SC-23.3	Ecosystem Controls on C and N Sequestration Following Afforestation of Agricultural Lands	276
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-02ER63370 12/14/2007 Randall	SC-23.3	Further Development and Applications of a Multi-scale Modeling Framework	400
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER63561 05/31/2009 Pincus	SC-23.3	Accounting for Unresolved Variability in Clouds and Water Vapor in Large-Scale Models: Precipitation Rate, Clear-Sky Radiation, and Convection	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER63637 09/14/2007 Monson	SC-23.3	Advective Flux in Relation to Net Ecosystem CO2 Exchange at the Niwot Ridge AmeriFlux Site	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-06ER54896 07/31/2009 Robertson	SC-24.2	Ionospheric Dusty Plasma in the Laboratory	124
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER54841 08/14/2009 Munsat	SC-24.2	Fundamental Studies of FRC Turbulence	173
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER54846 01/14/2011 Parker	SC-24.2	SciDAC - Center for Plasma Edge Simulation	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-05ER54816 07/14/2008 Parker	SC-24.2	Center for Gyrokinetic Particle Simulations of Turbulent Transport in Burning Plasmas	100
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER46403 07/31/2010 Raj	SC-22.22	The Coupling Between Interfacial Charge and Mechanical Deformation at High Temperatures in Ceramics	142
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER54735 12/31/2009 Cary	SC-24.2	Analysis and Direct Numerical Simulation of RF Heating Processes and Advanced Computational Methods for Fusion	100

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER54743 12/31/2007 Barnes	SC-24.2	Validation of Numerical Two-Fluid and Kinetic Plasma Models	49
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-02ER54685 08/14/2009 Goldman	SC-24.2	Nonlinear Structures in 2-D and 3-D Current-Driven Plasmas with Shear	127
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER41244 02/28/2009 Nagle	SC-26.1	Experimental Relativistic Heavy Ion Physics at the University of Colorado at Boulder	260
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41290 11/30/2009 Ford	SC-25	Elementary Particles and High Energy Phenomena, Tasks A, B, C, & T	1,713
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41301 02/14/2010 Kinney, Peterson	SC-26.1	Intermediate Energy Nuclear Physics	435
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41317 05/31/2010 Cary	SC-25	Chaotic Dynamics and Advanced Computation for Beams and Accelerators	195
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER41371 04/30/2006 Nauenberg	SC-25	International Linear Collider Workshop at Snowmass - August 14-27, 2005	-12
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER46066 01/14/2010 Dessau	SC-22.22	New Techniques for Electronic Structure Studies of Correlated Electron Systems	230
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-02ER15346 11/30/2011 Cundiff	SC-22.11	Optical Two-dimensional Spectroscopy of Disorder Semiconductor Quantum Wells and Quantum Dots	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-06ER15779 04/30/2009 Spetzler	SC-22.12	Monitoring the Subsurface with Multiple Scattered Waves and Quasi-Static Deformation	60
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER15711 12/31/2011 Ye	SC-22.11	Cold and Ultracold Molecules - Dipolar Collisions and Anisotropic Quantum Gas	135
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER15613 11/14/2010 Bohn	SC-22.11	Strongly Anisotropic Bose and Fermi Gases	70
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER15691 04/14/2009 Nesbitt	SC-22.11	Spectroscopy, Kinetics, and Dynamics of Combustion Radicals	145
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14982 11/14/2011 Kapteyn, Murnane	SC-22.11	Molecular Dynamics Probed by Coherent Electron and X-rays	170
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14990 06/30/2009 Holland	SC-22.11	Strongly-Interacting Quantum Gases	145

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COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-93ER14364 01/31/2011 Ellison	SC-22.11	Interfacial Oxidation of Complex Organic Molecules	160
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-94ER14413 04/30/2009 Greene	SC-22.11	Physics of Correlated Systems	145
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER25667 03/14/2008 Vasilyev	SC-21.1	Adaptive LES Methodology for Turbulent Flow Simulations	152
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER25574 11/14/2009 Manteuffel	SC-21.1	First-Order System Least Squares, (FOSLS), for Nonlinear Systems Arising from DOE Applications	200
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER25583 05/14/2009 Beylkin	SC-21.1	Integrated Multiscale Modeling of Molecular Computing Devices	117
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-01ER25479 12/31/2007 McCormick	SC-21.1	Terascale Optimal PDE Simulations (TOPS) Center	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15890 01/14/2011 Damrauer	SC-22.13	Applications to Adaptive Quantum Control to Research Questions in Solar Energy Conversion	75
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15912 08/31/2010 Jonas	SC-22.13	Study of Multiple Exciton Generation with New Multi-Dimensional Spectroscopies	330
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-93ER40774 01/31/2009 Shepard, Pollock	SC-26.1	Theoretical Nuclear Physics	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER25784 09/14/2011 McCormick	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	180
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER64015 02/14/2008 Westwater	SC-23.3	Microwave and Millimeter-Wave Radiometric Studies of Temperature, Water Vapor, and Clouds	165
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER64024 02/14/2008 Pilewskie	SC-23.3	Retrieval of Cloud Water Path Using Visible and Near-Infrared Remote Sensing	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER63954 11/30/2010 Matrosov	SC-23.3	Development, Application & Enhancement of Methods to Retrieve & Parameterize Properties of Precipitation Clouds with	62
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER63965 12/14/2010 Shupe	SC-23.3	An Investigation of the Microphysical, Radiative, and Dynamical Properties of Mixed Phase Clouds	34
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER63981 12/31/2007 Jimenez	SC-23.3	Characterization of Fine Particulate Matter (PM) and Secondary PM Precursor Gases in the Mexico City Metropolitan Area	72

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-06ER64182 01/31/2010 Pincus	SC-23.3	Evaluation and Improvement of the Cloud Resolving Model Component of the Multi-Scale Modeling Framework	109
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64462 08/14/2011 Cassano	SC-23.3	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	184
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64464 08/14/2011 Tufo	SC-23.3	Petascale Atmospheric General Circulation Models for CCSM	712
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64468 08/14/2011 Vasilyev	SC-23.3	An Integrated Physics-and Numbers-Based Mesoscale Modeling and Simulation of Global Ocean Circulation	175
DENVER, UNIVERSITY OF Denver, CO	DE-FG02-05ER64150 09/30/2007 Gardiner	SC-23.2	Fifteenth Human Genome Conference: Beyond the Identification of Transcribed Sequences: Functional, Expression and Evolutionary Analysis	0
Total for CO :				14,046

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-04ER41309 04/14/2010 Joo	SC-26.1	Q2 Evolution of Quadrupole Strength of N Delta (1232) Transition	194
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-00ER45801 11/30/2011 Wells	SC-22.22	Charge Inhomogeneity in Correlated Electron Materials	85
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-05ER46184 08/15/2008 Pease	SC-22.22	Study of Phase Separation as Related to the Metal-Insulator for Transition in Chromium Doped V2O3	116
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-05ER15734 10/31/2011 Cote	SC-22.11	Formation of Ultracold Molecules	102
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-06ER15805 07/14/2009 Gage	SC-22.13	Signal-transduction networks mediating catabolite repression in the nitrogen-fixing symbiont Sinorhizobium	123
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER14528 05/14/2009 Torgersen	SC-22.12	Air-Derived Noble Gases in Sediments: Sites and Mechanisms for Trapped Components	33
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-86ER13622 11/30/2009 Suib	SC-22.1	Porpus Nano-sized Transition Metal Oxides: Preparation, Characterization, and Application	130
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER14263 03/31/2010 Gould	SC-22.11	Experiments in Ultracold Collisions and Ultracold Molecules	160
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER20203 04/14/2011 Reiter	SC-22.13	Regulation of Xyloglucan Galactosylation in Arabidopsis	123
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER40716 11/30/2009 Dunne	SC-25	Investigations in Particle and Field Theory	200
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-94ER40870 04/14/2010 Gai	SC-26.1	Studies in Low Energy Nuclear Physics	147
FAIRFIELD UNIVERSITY Fairfield, CT	DE-FG02-07ER41503 08/31/2010 Winn	SC-25	CMS Fast Optical Calorimetry	30
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER15909 08/31/2010 Brudvig	SC-22.13	Oxomanganese Catalysts for Solar Fuel Production	480
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15834 09/14/2009 Schwarz	SC-22.11	Atomic Resolution Imaging and Quantification of Chemical Functionality of Surfaces	171
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER15838 12/31/2007 Bolton	SC-22.12	Code and Documentation Release for Fluid-Rock Interaction Models	77

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YALE UNIVERSITY New Haven, CT	DE-FG02-98ER20311 08/31/2010 Soll	SC-22.13	Selenocysteine: Biosynthesis and Significance for Hydrogen Utilization	153
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40608 12/31/2009 Iachello, Alhassid	SC-26.1	Nuclear Theory	422
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40609 12/31/2009 Harris	SC-26.1	Nuclear Physics - Experimental Research	4,154
YALE UNIVERSITY New Haven, CT	DE-FG02-92ER40704 10/31/2010 Tipton	SC-25	High Energy Physics Research, Tasks A, B, C, D, F, G, K and J	2,620
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15646 03/31/2009 Brudvig	SC-22.13	Carotenoid Function in Natural Photosynthetic Systems	130
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15677 12/31/2011 Tully	SC-22.11	The Role of Electronic Excitations on Chemical Reaction Dynamics at Metal, Semiconductor, and Nanoparticle Surfaces	160
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15800 06/30/2009 Johnson	SC-22.11	Understanding the Electron-Water Interaction at the Molecular Level: Integrating Theory and Experiment in the Cluster Regime	100
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15741 11/30/2008 Wettlaufer	SC-22.12	Freezing in Porous Media: Phase Behavior, Dynamics and Transport Phenomena	100
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15732 07/14/2009 Pfefferle	SC-22.12	Novel Reforming Catalysts	238
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15714 01/31/2012 DeMille	SC-22.11	Production and Trapping of Ultracold Polar Molecules	135
YALE UNIVERSITY New Haven, CT	DE-FG02-96ER14678 11/14/2006 Hartwig	SC-22.1	Chemistry of Complexes with Transition Metal-Heteroatom Bonds: Novel Insertion Chemistry and X-H Bond Activation	-123
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER14882 07/14/2011 Altman	SC-22.1	Structure-Reactivity Relationships in Multi-Component Transition Metal Oxide Catalysts	139
YALE UNIVERSITY New Haven, CT	DE-FG02-01ER15183 10/31/2010 Haller	SC-22.1	Nanoporous Structured Silica (MCM-41 and SBA-15) Catalysts and Catalyst Supports for C1 Reactions	128
YALE UNIVERSITY New Haven, CT	DE-FG02-88ER13966 11/30/2010 Smooke, Long	SC-22.11	Computational and Experimental Study of Laminar Flames	220
YALE UNIVERSITY New Haven, CT	DE-FG02-84ER13297 11/30/2011 Crabtree	SC-22.12	Nitrogen-Rich Ligands for Catalytic C-H, N-H and O-H Activation	133

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER46322 08/14/2009 Pfefferie	SC-22.23	Nanostructures of Boron and Magnesium Diboride for High Temperature Superconductivity and Other 1-D Electronic	250
YALE UNIVERSITY New Haven, CT	DE-FG02-01ER45937 03/14/2005 Ahn	SC-22.21	The Nanoscale Materials Physics of Epitaxial Ferroelectric Oxide Systems	-3
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER41515 08/31/2009 Baltay	SC-25	High Statistics Study of Nearby Type Ia Supernovae	50
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER41504 08/31/2010 Hirshfield	SC-25	Ka-Band Test Facility for High-Gradient Accelerator R&D	275
YALE UNIVERSITY New Haven, CT	DE-FG02-04ER63892 04/14/2009 Smith	SC-23.3	Bridging the Divide: Linking Genomics to Ecosystem Responses to Climate Change	0
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER64181 01/31/2009 Nordhaus	SC-23.3	Model Developments for Development of Improved Emissions Scenarios: Developing Purchasing-Power Parity Models, Analyzing Uncertainty & Developing Data Sets ...	91
Total for CT :				11,543

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Listing of Awards for State (DC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40901 12/31/2011 Berman	SC-26.1	A Program in Medium Energy Nuclear Physics	200
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40907 01/31/2010 Lee	SC-26.1	Structure and Dynamics of Hadrons and Light Nuclei	165
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-05ER15736 05/31/2009 Cahill	SC-22.12	Hydrothermal Chemistry of UO <sub>2</sub> n+ Phases: Formation and Stabilization of Pentavalent Uranium Compounds	0
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-02ER15366 06/30/2009 Teng	SC-22.1	Crystal Defects, Etch Pits, and Rough Surfaces: A More Complete Picture of Mineral-Water Interactions during Dissolution and Growth	48
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-01ER15129 01/14/2010 Vertes	SC-22.1	Nanostructured Substrates and Imaging Applications of Soft Laser Desorption Ionization	169
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-99ER41110 05/31/2011 Briscoe	SC-26.1	Data Analysis Center for Electromagnetic and Hadronic Scattering Processes	338
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-06ER41422 03/31/2009 Feldman	SC-26.1	Low-Energy Photonuclear Studies at HIGS and Lund	119
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-07ER46472 08/31/2010 Kertesz	SC-22.23	Silicon Carbide Derived Carbons: Experiments and Modeling	100
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-07ER15895 08/14/2010 Tong	SC-22.12	An In-Situ Electrode-Potential-Controlled Nuclear Magnetic Resonance Investigation of Sulfur-Poisoning Effect on Pt-Based	150
HOWARD UNIVERSITY Washington, DC	DE-FG02-94ER40854 05/31/2009 Hubsch	SC-25	Superstrings and Quantum Superfields	40
HOWARD UNIVERSITY Washington, DC	DE-FG02-97ER25341 09/14/2007 Sadosky	SC-21.1	Perturbation Theory, Scattering Systems, Interpolation and Control	0
Total for DC :				1,329



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Listing of Awards for State (DE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-84ER40163 02/28/2007 Leung	SC-25	Elementary Particle Theory	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-91ER40626 01/31/2012 Shafi	SC-25	Particle Theory and Cosmology	410
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-05ER25702 08/14/2009 Vlachos	SC-21.1	Multiscale Modeling of Spatially Distributed Biological Systems	332
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER15921 08/14/2010 Lobo	SC-22.12	Novel Photocatalysts With One- and Two-Dimensional Nanostructures	175
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-85ER13436 01/31/2008 Sandler	SC-22.1	New Group Contribution and Equation of State Models for Improved Engineering Practice	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-84ER13290 03/14/2009 Barteau	SC-22.1	Promoter Effects on Surface Oxametallacycles Chemistry and the Rational Design of Olefin Epoxidation	147
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-92ER14273 08/31/2009 Theopold	SC-22.1	Catalysis of Small Molecule Activation by Proton Coupled Electron Transfer	124
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-00ER15104 11/14/2009 Chen	SC-22.12	Structure-Property Relationship in Metal Carbides and Bimetallic Alloys	130
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-99ER14998 12/31/2006 Lobo	SC-22.1	Catalytic Activation of Oxygen for Conversion of Hydrocarbons to Fuels and Chemicals	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-06ER15795 06/30/2009 Vlachos	SC-22.12	An Integrated Approach Toward Rational Nanocatalyst Design for Hydrogen Production	304
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-05ER15688 08/14/2011 Chen	SC-22.12	Dedicated Beamline for Catalytic Research	285
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-04ER15541 05/31/2009 Green	SC-22.13	Regulated mRNA Decay in Arabidopsis: A global analysis of differential control by hormones and the circadian clock	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER15468 09/14/2009 Lobo, Barteau	SC-22.12	Catalysis Science Initiative: From First Principles Design to Realization of Bimetallic Catalysts for Enhanced Selectivity	771
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-97ER62479 09/14/2008 Kirchman	SC-23.3	Cycling of DOC and DON by Novel Heterotrophic and Photoheterotrophic Bacteria in the Ocean	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-06ER54853 11/30/2009 Matthaeus, Mitchell	SC-24.2	Experimental Studies of Self Organization with Electron Plasmas	51

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46404 07/31/2010 Appelbaum	SC-22.21	Imaging of Buried Nanoscale Optically Active Materials	141
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46359 01/31/2010 Bremner	SC-22.21	Key Physical Mechanisms in Nanostructured Solar Cells	149
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46360 01/31/2010 Chui	SC-22.21	Nanomagnetism	150
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46374 06/30/2010 Xiao	SC-22.21	Center for Spintronics and Biodetection	500
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER46038 02/14/2012 Glyde	SC-22.21	Neutron Scattering Studies of Classical and Quantum Fluids in Nanoporous Media	150
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-90ER45413 06/18/2010 Hadjipanayis	SC-22.22	Studies of Artificially Structured Composite Magnets	81
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-00ER45800 05/31/2007 Buttrey	SC-22.22	Charge Inhomogeneity in Correlated Electron Systems	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-06ER64246 12/31/2008 Veron	SC-23.3	Application of Stochastic Radiative Transfer Theory to the ARM Cloud-Radiative Parameterization Problem	93
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER64450 08/31/2010 Green	SC-23.2	Analysis of Small RNAs and mRNAs Associated with Abiotic Stress in Brachypodium Distachyon	200
Total for DE :				4,193

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-04ER63916 09/30/2008 Yeh	SC-23.4	Reaction-Based Transport Modeling of Iron Reduction and Uranium Immobilization at Area 2 of the NABIR Field Research Center	0
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER64455 07/31/2011 Winterhalter	SC-23.3	The Response of a Seasonal Ectotherm (Allenemobius Socius) to Global Warming	282
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-06CH11446 07/31/2009 Cronan, Richardson	SC-23	X-Ray Photonics Facility	0
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER25747 02/28/2010 Wang	SC-21.1	A Lightweight, High-Performance I/O Management Package for Data-Intensive Computing	190
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER15842 12/31/2009 Rahman	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	145
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER46354 01/14/2012 Rahman	SC-22.22	Theoretical and Computational Studies of Characteristics of Metallic Nanoalloys	106
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-04ER46171 05/30/2007 Hickman	SC-22.23	Function-Based Biosensors for Use in Hazardous Waste Remediation	0
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-97ER54417 03/31/2010 Johnson	SC-24.2	Turbulent Transport Diagnostics for Fusion Plasmas	153
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-96ER40998 07/31/2009 Williams	SC-25	Electron Beam Transport in Advanced Plasma Wave Accelerators	105
FLORIDA ATLANTIC UNIVERSITY Boca Raton, FL	DE-FG02-05ER25713 02/28/2009 Kalies	SC-21.1	Multiscale Analysis of Nonlinear Systems Using Computational Topology	90
FLORIDA INSTITUTE OF TECH. Melbourne, FL	DE-FG02-03ER41264 05/31/2009 Baarmand	SC-25	Experimental Investigation of Hadron Collisions at the Highest Center-of-Mass Energies	173
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-01ER41172 04/14/2010 Sargsian	SC-26.1	Theoretical Studies of High Energy Electronuclear Processes	59
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-04ER46125 03/31/2008 Zhang	SC-22.21	Research and Training of Using Neutron Scattering to Probe the Collective Phenomena in Doped Transition-Metal Oxides	0
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-07ER46461 08/14/2010 Chen	SC-22.21	Influence of Pressure on Physical Property of Ammonia Borane and its Re-Hydrogenation	240
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-99ER41065 01/31/2011 Reinhold, Boeglin, Markowitz, Raue	SC-26.1	Nuclear Physics Research at Jefferson Lab	418

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-06ER25739 08/14/2009 Rangaswami	SC-21.1	QoS-Enabled, High-Performance Storage Systems for Data-Intensive Scientific Computing	100
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-04ER15570 10/31/2010 Mebel	SC-22.11	Theoretical studies of chemical reactions related to the formation and growth of polycyclic aromatic hydrocarbons and molecular properties of their key intermed	90
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-96ER14618 06/30/2009 Choppin	SC-22.12	Research in Actinide Chemistry	100
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER41022 12/31/2011 Prosper, Owens	SC-25	High Energy Physics	1,129
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-96ER40952 01/31/2011 Van Sciver	SC-25	Liquid Helium Fluid Dynamics Studies	255
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40735 10/31/2010 Eugenio	SC-26.1	Experimental Hadronic Nuclear Physics	200
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40750 03/14/2010 Piekarewicz	SC-26.1	From Quarks to the Cosmos	195
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER25698 08/14/2009 Gunzburger	SC-21.1	A Mathematical Analysis of Atomistic-to-Continuum (AtC) Multiscale Coupling Methods	129
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER46451 08/14/2010 Wang	SC-22.22	Infrared Optical Study of Graphene in High Magnetic Fields	130
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER46367 04/30/2010 El-Azab	SC-22.22	Multiscale Simulation of Thermo-Mechanical Processes in Irradiated Fission-Reactor Materials	29
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-06ER54881 06/30/2011 Lee	SC-24.2	Understanding and Development of High Field Superconductors for Fusion	90
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-03ER63526 11/30/2008 Liu	SC-23.3	Determination of Large-Scale Cloud Ice Water Concentration by Combining Surface Radar and Satellite Data in Support of ARM SCM Activities	100
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-02ER63338 01/31/2011 Ellingson	SC-23.3	Development, Validation and Testing of 3-D Longwave Cloud Parameterizations for General Circulation Models	299
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-02ER41220 07/14/2011 Wiedenhoever	SC-26.1	Spectroscopy of Resonances in the Astrophysical rp-Process Path	58
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-06ER41450 08/31/2008 Lee	SC-25	Magnetic Investigation of High Purity Niobium for Superconduction RF Cavities	64

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FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER41451 03/31/2009 Larbalestier	SC-25	High Field Superconductor Development and Understanding	555
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-98ER45707 08/14/2010 Schlottmann	SC-22.22	Strongly Correlated Electrons	55
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER45635 10/31/2004 Safron, Van Winkle	SC-22.22	Investigation of the Dynamics and Growth of Surfaces and Ultrathin Films by Helium Atom Scattering	-1
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER45639 01/31/2011 Bonesteel	SC-22.22	Correlated Electrons in Reduced Dimensions	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64373 03/14/2010 Kostka	SC-23.4	Structure and Function of Subsurface Microbial Communities Affecting Radionuclide Transport and Bioimmobilization	172
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER64070 06/14/2008 Thistle	SC-23.3	The Influence of Deep-Seabed CO2 Sequestration on Small Metazoan (Meiofaunal) Viability and Community	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER63950 11/14/2007 Kostka	SC-23.4	An Integrated Assessment of Geochemical and Community Structure Determinants of Metal Reduction Rates in Subsurface Sediments	92
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER63987 08/31/2009 Balkwill	SC-23.4	Investigating In Situ Bioremediation Approaches for Sustained Uranium Immobilization Independent of Nitrate	60
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64432 07/14/2011 Gunzburger	SC-23.3	New Grid and Discretization Technologies for Ocean and Ice Simulations	213
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64470 08/14/2011 Chassignet	SC-23.3	Incorporation of the Hybrid Coordinate Ocean Model (HYCOM) into the Community Climate System Model (CCSM): Evaluation	173
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER64458 08/14/2010 Vermerris	SC-23.2	Genetic Dissection of Brown Midrib Sweet Sorghum, a Dual-Source Feedstock for Ethanol Productions	500
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER64498 08/31/2010 de Crecy-Lagard	SC-23.2	Phylogenomics-Guided Validation of Function for Conserved Unknown Genes	500
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER64499 08/31/2010 Peter	SC-23.2	Integrated Nondestructive Spatial and Chemical Analysis of Lignocellulosic Materials During Pretreatment and Bioconversion to Ethanol	650
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER64114 08/14/2009 Kirst	SC-23.2	Genomic Mechanisms of Carbon Allocation and Partitioning in Poplar	193
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-99ER45748 01/31/2011 Andraka	SC-22.22	Novel States of matter in filled skutterudites and related materials	90

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-97ER45660 11/30/2008 Cheng	SC-22.22	Interfacial Phenomena in Noble Metal-C60 Interaction	150
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-86ER45268 11/30/2009 Stewart	SC-22.22	Novel Strongly Correlated f- Electron Materials	125
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45995 11/30/2011 Cheng	SC-22.22	A Computational Approach to Complex Junctions and Interfaces	195
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45984 05/14/2009 Tanner	SC-22.22	Time-resolved Far-infrared Spectroscopy of Superconductors and Spintronic Systems	125
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46247 08/31/2011 Chan	SC-22.22	Collective behaviors of the Casimir force in micromechanical systems	104
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46236 08/31/2011 Hirschfeld	SC-22.22	Surfaces and Interfaces of Cuprate Superconductors and other Complex Oxides	99
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER54946 07/31/2010 Dufty	SC-24.2	Correlations in Confined Quantum Plasmas	70
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER46368 04/30/2010 Phillpot	SC-22.22	Multiscale Simulation of Thermo-Mechanical Processes in Irradiated Fission-Reactor Materials	120
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER46464 05/31/2010 So	SC-22.23	Exploitation of Interface Dipoles to Enhance Electron Injection in Organic Semiconductors	130
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-96ER20222 06/30/2009 Ingram	SC-22.13	Genetic Improvement of Escherichia coli for Production of Fuel Ethanol and L-Lactate	123
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-97ER41029 02/28/2010 Yelton	SC-25	High Energy Experimental and Theoretical Research	1,832
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-98ER14853 05/31/2009 Ladd	SC-22.12	Pore-Scale Simulations of Dissolution Breakthrough in Rough Fractures	110
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-99ER14960 08/31/2008 Winefordner	SC-22.1	Atomic Emission Absorption and Fluorescence in the Laser Induced Plasma	125
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15484 03/14/2010 Schanze, Kleiman, Reynolds	SC-22.1	Conjugated Polyelectrolytes: Disrupted Interactions, Self-Assembled Structures and Hybrid Polymer Solar Photoconversion	275
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15478 08/31/2009 Weaver	SC-22.1	Non-Thermal Reactions of Gas-Phase Oxygen Atoms with Atoms Absorbed on Transition Metal Surfaces	119

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-04ER15621 10/31/2010 Hirata	SC-22.11	Breakthrough Design and Implementation of Many-Body Electron and Vibrational Theories	110
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER15650 07/14/2011 Maupin-Furlow	SC-22.13	Proteasomes and Post-translational Modification of Haloferax volcanii Proteins	114
JACKSONVILLE UNIVERSITY Jacksonville, FL	DE-FG02-04CH11188 12/31/2009 White	SC-23	Marine Science Research Institute	0
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-05ER64035 04/14/2009 Soden	SC-23.3	Testing Climate Model Simulations of Tropical Cirrus Lifecycles: A Lagrangian Analysis Using ARM Data	103
MIAMI, UNIVERSITY OF Miami, FL	DE-FG02-05ER63962 12/31/2008 Albrecht	SC-23.3	Development and Evaluation of Boundary Layer Cloudiness Parameterization Using ARM Observations	127
ROLLINS COLLEGE Winter Park, FL	DE-FG02-96ER54367 08/31/2009 Griffin	SC-24.2	Theory of Electron-Ion Collisions	44
SOUTH FLORIDA, UNIVERSITY OF St. Petersburg, FL	DE-FG02-97ER62452 03/31/2008 Paul	SC-23.3	The Ecology and Genomics of CO2 Fixation in Oceanic River Plumes	0
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-07ER46470 08/14/2010 Eddaoudi	SC-22.23	Design and Synthesis of Novel Porous Metal-Organic Frameworks (MOFs) Toward High Hydrogen Storage Capacity	293
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-07ER46438 08/31/2010 Srikanth	SC-22.22	Magnetization Dynamics and Cooperative Phenomena in Charge and Spin Frustrated Correlated Electron Materials	130
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-06ER46297 07/14/2009 Woods	SC-22.22	Theoretical Studies of Carbon Nanotube Interactions	82
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-04ER46145 06/14/2011 Nolas	SC-22.23	A Fundamental Study of Bulk and Thin Film Type II Clathrate Materials	126
Total for FL :				13,012

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CLARK ATLANTA UNIVERSITY Atlanta, GA	DE-FG02-97ER45647 06/30/2006 Williams	SC-22.22	Characterization of Hydrogen Complex Formation in III-V Semiconductors	-3
CLARK ATLANTA UNIVERSITY Atlanta, GA	DE-FG02-02ER25515 12/31/2008 Mickens	SC-21.1	Mathematical and Numerical Studies of Nonstandard Difference Equation Models of Differential Equations	0
CLARK ATLANTA UNIVERSITY Atlanta, GA	DE-FG02-97ER14743 03/31/2010 Msezane	SC-22.11	Electron/Photon Interactions with Atoms/Ions	80
EMORY UNIVERSITY Atlanta, GA	DE-FG02-05ER25696 08/14/2009 Haber	SC-21.1	Applied Mathematics Research: Simulation Based Optimization and Application to Electromagnetic Inverse Problems	98
EMORY UNIVERSITY Atlanta, GA	DE-FG02-07ER15906 08/31/2010 Hill	SC-22.13	Solar Energy-Driven Robust Multi-Electron-Transfer Catalysts for Water Oxidation	300
EMORY UNIVERSITY Atlanta, GA	DE-FG02-06ER25729 07/31/2009 Sunderam	SC-21.1	The Harness Workbench: Unified and Adaptive Access to Diverse HPC Platforms	154
EMORY UNIVERSITY Atlanta, GA	DE-FG02-01ER15153 08/14/2010 Heaven	SC-22.12	Spectroscopic and Theoretical Studies of Prototype Actinide Compounds	130
EMORY UNIVERSITY Atlanta, GA	DE-FG02-98ER14918 04/30/2009 Lian	SC-22.1	Ultrafast Interfacial Electron Transfer on Nanocrystalline Thin Films and Single Crystal Surfaces	135
EMORY UNIVERSITY Atlanta, GA	DE-FG02-97ER14782 10/31/2009 Bowman	SC-22.11	Theoretical Studies of Combustion Dynamics	114
EMORY UNIVERSITY Atlanta, GA	DE-FG02-97ER14784 04/30/2008 Heaven, Lin	SC-22.1	Kinetics of Elementary Processes Relevant to Incipient Soot Formation	185
EMORY UNIVERSITY Atlanta, GA	DE-FG02-02ER15377 06/14/2011 Lynn, Conticello	SC-22.13	Engineering Functional Scaffolds by Supramolecular Self-Assembly	142
EMORY UNIVERSITY Atlanta, GA	DE-FG02-03ER15461 09/14/2009 Musaev	SC-22.12	Principles of Selective O <sub>2</sub> -Based Oxidation by Optimal (Multinuclear) Catalytic Sites	296
EMORY UNIVERSITY Atlanta, GA	DE-FG02-07ER54914 12/31/2009 Braams	SC-24.2	Research Dynamics and Spectroscopy of Hydrocarbons in Plasma	108
S INST., INC., MEDICAL COL. OF Augusta, GA	DE-FG02-03ER63649 12/14/2008 Dynan	SC-23.2	Mechanisms and Pathways Controlling Genomic Instability In Vivo	249
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-98ER41068 03/31/2011 He	SC-26.1	Research in Heavy Ion Nuclear Reactions	138



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-01ER15213 10/31/2010 Stockman	SC-22.1	Novel Nanoplasmonics Theory: Energy Transformation Processes at the Nanoscale in Ultrafast and Strong Laser Fields	95
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-03ER15428 10/31/2009 Manson	SC-22.1	Ionization of Free and Confined Atoms and Ions	50
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-03ER15486 11/14/2009 Stockman	SC-22.11	Computational Nanophotonics: Modeling Optical Interactions and Transport in Tailored Nanosystem Architectures	100
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-07ER64376 03/14/2010 Chin	SC-23.4	Structure and Function of Subsurface Microbial Communities Affecting Radionuclide Transport and	81
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER64107 09/14/2008 Loeffler	SC-23.4	Biomolecular Mechanisms Controlling Radionuclide Transformations Under Complex Respiratory Conditions	207
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER64124 09/14/2009 DiChristina	SC-23.4	Molecular Mechanism of Microbial Technetium Reduction	222
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER63906 10/31/2009 Sobecky	SC-23.4	Promoting Uranium Immobilization by the Activities of Microbial Phosphatases	211
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER15510 12/14/2011 Koros	SC-22.12	Robust Crosslinked Polyimide Membrane Materials for Natural Gas Separations	119
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15459 09/14/2009 Jones	SC-22.12	Developing the Science of Immobilized Molecular Catalysts	635
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15450 10/31/2009 Raman	SC-22.11	Dual Quantum Gases of Bosons: From Atomic Mixtures to Heteronuclear Molecules	173
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-02ER15337 10/31/2011 Orlando	SC-22.1	Low-Energy Electron Interactions with Liquid Interfaces and Biological Targets	145
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER14799 05/31/2009 El-Sayed	SC-22.1	Time Resolved Optical and Thermal Studies and the Proton Pump Mechanism of Bacteriorhodopsin: The Effect and	135
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-96ER40958 02/14/2011 Wood	SC-26.1	Nuclear Structure Research	152
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER15837 09/14/2009 Liu	SC-22.12	Understanding the Interfacial Structures - Chemistry Relationships in Solid Oxide Fuel Cells (SOFC)	134
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-07ER15901 08/31/2009 Stack	SC-22.12	Barite Growth and Dissolution at the Molecular Scale	209

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER25711 08/31/2009 Mischaikow	SC-21.1	Multiscale Analysis of Nonlinear Systems Using Computational Topology	191
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER25690 08/14/2009 Lee	SC-21.1	Toward Highly Secure and Autonomic Computing systems: A Hierarchical Approach	99
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-99ER54538 03/31/2011 Stacey	SC-24.2	Collaborative Analysis of DIII-D	130
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-01ER54656 01/31/2010 Yoda	SC-24.2	Advanced Design Studies	80
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-07ER46394 07/31/2011 Wang	SC-22.22	Piezoelectric Nanogenerators for Self-Powered Nanosystems and Nanosensors	130
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-01ER63198 08/31/2011 Dickinson	SC-23.3	Systematic Development of a Sub-Grid Scaling Framework to Improve Land Simulation	286
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER63539 12/14/2008 Curry	SC-23.3	A Coordinated Effort to Improve Parameterization of High Latitude Cloud and Radiation Processes	160
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER63718 07/31/2007 Loeffler	SC-23.4	Towards a More Complete Picture: Dissimilatory Metal Reduction by Anaeromyxobacter Species	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER63785 03/14/2008 Bao	SC-23.2	Probing Single Microbial Proteins and Multi-Protein Complexes with Bioconjugated Quantum Dots	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-85ER45194 08/31/2010 Tolbert	SC-22.23	The Organic Chemistry of Conducting Polymers: From Molecular Wires to Photovoltaics	205
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-86ER45234 11/30/2009 Landman	SC-22.22	Structure and Dynamics of Material Surfaces, Interphase-Interfaces and Finite Aggregates	225
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER45632 12/31/2009 Chou	SC-22.22	First-Principles Investigation of Complex Materials Properties	80
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER46229 08/31/2011 Chou	SC-22.22	First-Principles Studies of Phase Stability and Reaction Dynamics in Complex Metal Hydrides	150
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER46170 08/31/2009 Zangwill	SC-22.22	Spin-Torque in Systems with Inhomogeneous Magnetization	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46281 03/31/2009 Davidovic	SC-22.22	Spin Polarized Electron Transport Through Aluminum Nanoparticles	117

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GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46293 07/31/2010 Riedo	SC-22.22	NanoMechanics: Elasticity and Friction in Nano-Objects	132
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER46035 08/14/2010 Gerhardt	SC-22.21	Microstructural Evolution Detection in Metallic Alloys Using Scattering and Electrical Methods	177
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER46141 05/14/2010 Bunz	SC-22.23	Hyperbranched Conjugated Polymers and Their Nanodot Composites as Universal Bioinspired Architectures	219
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-05ER46251 08/31/2009 Zhao	SC-22.21	Integrated Nanoscale Metal Hydride-Catalyst Architectures for Hydrogen Storage	300
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-03ER63620 08/31/2007 Meagher	SC-23.4	A Phytoremediation Strategy for Arsenic	0
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-99ER62865 08/31/2006 Summers	SC-23.4	Engineering MerR for Sequestration and MerA for Reduction of Toxic Metals and Radionuclides	0
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-97ER20275 06/14/2008 Momany	SC-22.13	Identification of Novel Cell Wall Components	0
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-96ER20220 06/14/2011 Darvill	SC-22.13	Structural Studies of Complex Carbohydrates of Plant Cell Walls	361
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-96ER20221 06/14/2009 Bergmann, Albersheim	SC-22.13	Structures and Functions of Oligosaccharins	156
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-95ER20175 04/14/2011 Adams	SC-22.13	Hypothermophilic Multiprotein Complexes and Pathways for Energy Conservation and Catalysis	133
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-93ER20097 12/31/2012 Darvill	SC-22.13	Center for Plant and Microbial Complex Carbohydrates	647
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-97ER14748 07/14/2009 Schaefer	SC-22.1	Theoretical Studies of Elementary Hydrocarbon Species and Their Reactions	193
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-96ER14658 11/14/2011 Duncan	SC-22.11	Transition Metal-Molecular Interactions Studied with Cluster Ion Infrared Spectroscopy	132
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-03ER15415 08/14/2009 Ye	SC-22.13	Secondary Wall Formation in Fiber Cells	123
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-05ER15710 08/31/2011 Adams	SC-22.13	Fundamental Studies of Recombinant Hydrogenases	233

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GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-04ER63893 08/14/2008 Bradford	SC-23.3	Heterotrophic Soil Respiration in Warming Experiments: Using Microbial Indicators to Partition Contributions from Labile and	0
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-05ER64121 09/14/2009 Seaman	SC-23.4	Molecular Mechanism of Bacterial Attachment to Fe(III)-Oxide Surfaces	231
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-05ER64108 08/31/2009 Summers	SC-23.4	Integrating the Molecular Machines of Mercury Detoxification into Host Cell Biology	190
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-05ER64018 07/31/2007 Bertsch	SC-23.4	Linking Chemical Speciation, Desorption Kinetics & Bioavailability of U & Ni in Aged-Contaminated Sediments: A Scientific Basis for Natural Attenuation & . . .	0
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-07ER64352 12/31/2008 Wiegel	SC-23.2	A Conference Entitled "Incredible Anaerobes: From Physiology Genomics to Fuel" (March 2007)	8
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-07ER64326 10/31/2010 Adams	SC-23.2	Molecular Assemblies, Genes and Genomics Integrated Efficiently (MAGGIE)	520
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-06ER64321 08/31/2009 Leclerc	SC-23.3	A Carbon Flux Super Site: New Insights and Innovative Atmosphere-Terrestrial Carbon Exchange Measurements and Modeling	299
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-06ER64166 05/31/2009 Meagher	SC-23.4	Phytoremediation of Ionic and Methylmercury Pollution	450
GEORGIA, UNIV. OF RES. FOUND. Athens, GA	DE-FG02-07ER64408 05/14/2010 Summers	SC-23.4	Identifying Biomarkers and Mechanisms of Toxic Metal Stress with Globabl Proteomics	125
H GEORGIA COLLEGE & STATE UNIV Dahlonega, GA	DE-FG02-97ER41046 02/28/2009 Prior	SC-26.1	Radiative Capture and Gamma-Induced Reactions at Low Energies	107
Total for GA :				11,383

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER64469 08/14/2010 Schneider	SC-23.3	Understanding Annual Cycle-ENSO Interactions in Climate Change Simulations	142
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER64445 07/31/2011 Annamalai	SC-23.3	Future Projections of Mean and Variability of the Asian Summer Monsoon and Indian Ocean Climate Systems	165
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-03ER15411 07/14/2009 Kaiser	SC-22.11	Probing the Reaction Dynamics of Hydrogen-Deficient Hydrocarbon Molecules and Radical Intermediates via Crossed	128
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER15885 07/31/2009 Vicic	SC-22.12	Mild Catalytic Methods of Alkyl-Alkyl Bond Formation	130
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-04ER41291 11/30/2009 Olsen, Tata	SC-25	Research in High Energy Physics	1,680
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER46408 08/31/2010 Ming	SC-22.23	Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures	177
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-04ER63862 09/14/2008 Schneider	SC-23.3	Predictability and Diagnosis of Low-Frequency Climate Processes in the Pacific	0
Total for HI :				2,422

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-87ER40371 06/14/2011 Vary, Qiu	SC-26.1	Intermediate/High Energy Nuclear Physics	310
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-92ER40692 11/14/2009 Hill	SC-26.1	Relativistic Heavy Ion Physics	486
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-94ER20147 08/31/2010 Rodermel	SC-22.13	Regulation of chloroplast biogenesis: the immutans mutant of Arabidopsis	145
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-03ER25550 08/14/2007 Subramaniam	SC-21.1	Developing New Mathematical Models for Multiphase Flows Based on a Fundamental Probability Density Function Approach	0
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-05ER25677 08/14/2009 Wang	SC-21.1	High-Order Spectral Volume Method for the Navier-Stokes Equations on Unstructured Tetrahedral Grids	125
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-05ER15706 07/31/2009 James	SC-22.13	Regulation of Starch Biosynthesis in Maize Kernels: Function of Starch Synthase III	114
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER15170 07/31/2008 Nikolau	SC-22.13	Acetyl-CoA: the precursor for high-energy phytochemicals	0
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-07ER41497 08/31/2009 Krennrich	SC-25	A Fast Topological Trigger for Real Time Analysis of Nanosecond Time Scale Phenomena: Opening the Gamma Ray Window to	90
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER41155 10/31/2009 Krennrich, Cochran	SC-25	Investigations in Experimental and Theoretical High Energy Physics	1,153
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-01ER63250 03/14/2011 Gutowski	SC-23.3	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	0
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-04ER63868 07/31/2008 Wu	SC-23.3	Evaluating the Representation and Impact of Convective Momentum Transport in CCSM Atmosphere Model	0
IOWA STATE UNIVERSITY Ames, IA	DE-FG02-07ER64463 08/14/2011 Gutowski	SC-23.3	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	106
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-05ER64050 01/14/2009 Spitz	SC-23.2	Mitochondrial-Derived Oxidants and Cellular Responses to Low Dose/Low LET Ionizing Radiation	346
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-07ER64368 03/14/2010 Scherer	SC-23.4	Coupled Microbial, Geochemical, and Minerological Controls on Biogenic Fe II Speciation and Reactivity	71
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-07ER54943 07/31/2010 Pickett	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves on Current Layers	16

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IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-06ER54890 07/31/2009 Kletzing	SC-24.2	Collaborative Research: Laboratory Investigation of Alfvénic Field Line Resonances and Electron Acceleration	166
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-06ER54893 07/31/2009 Scudder	SC-24.2	Role of Electron Kinetic Effect on the Macroscopic Structure and Evolution of Collisionless Reconnection in Simulations with Open Boundary Conditions	100
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-00ER54607 08/14/2009 Goree	SC-24.2	Strongly-Coupled Dusty Plasmas	199
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-99ER54543 06/30/2009 Skiff	SC-24.2	Linear and Nonlinear Phenomena in Weakly Collisional Plasma	149
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-04ER54795 08/14/2010 Merlino	SC-24.2	Basic Laboratory Studies of Shear Driven Ion Cyclotron Waves and Dusty Plasmas with Positively Charged Particles	200
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-06ER41415 05/31/2009 Onel	SC-26.1	Forward Angle Physics at CMS	60
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-91ER40664 02/28/2010 Mallik	SC-25	High Energy Physics	613
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-86ER40286 05/31/2010 Polyzou	SC-26.1	Relativistic Few-Body Hadronic-Physics Calculations	160
Total for IA :				4,609

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
BOISE STATE UNIVERSITY Boise, ID	DE-FG02-07ER46396 07/14/2011 Mullner	SC-22.22	The Inverse Magnetoplastic Effect of Magnetic Shape-Memory Alloys	192
BOISE STATE UNIVERSITY Boise, ID	DE-FG02-05ER64056 12/31/2008 Benner	SC-23.4	Elucidating Bioreductive Transformations within Physically Complex Media: Impact on the Fate and Transport of Uranium and Chromium	0
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-06ER15824 08/31/2009 Magnuson	SC-22.12	Redox Interactions of Cytochromes and Bacteria With Oxide Surfaces: Probing Redox-Linked Conformational Change	90
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-04ER46142 08/14/2010 Rodriguez	SC-22.21	Incorporation of Novel Nanostructured Materials into Solar Cells and Nanoelectronic Devices	440
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-07ER41523 08/31/2009 Dale	SC-26.1	Studies of the Electromagnetic Structure of Mesons at Jefferson Lab	68
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-04ER63626 05/14/2008 Magnuson	SC-23.4	Comparative Biochemistry and Physiology of Iron-Respiring Bacteria From Acidic and Neutral pH Environments	0
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG07-02ER63486 09/14/2006 Smith	SC-23.4	Co-precipitation Trace Metals in Groundwater & Vadose Zone Calcite: In Situ Containment & Stabilization of	0
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG07-02ER63500 09/14/2005 Crawford	SC-23.4	Coupling of Realistic Rate Estimates with Genomics for Assessing Contaminant Attenuation and Long-Term Plume Containment	0
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-06ER15777 04/30/2009 Qiang	SC-22.12	Reaction Specificity of Nanoparticles in Solution: Application to the Reaction of Nanoparticulate Iron & Iron-Bimetal	53
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-06ER64244 02/28/2009 Smith	SC-23.4	Coupling Between Flow and Precipitation in Heterogeneous Subsurface Environments and Effects on Contaminant Fate and Transport	110
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-06ER64198 11/30/2009 Crawford	SC-23.4	Coupled Biogeochemical Process Evaluation for Conceptualizing Trichloroethylene Co-metabolism	220
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-07ER64404 05/31/2010 Smith	SC-23.4	Field Investigations of Microbially Facilitated Calcite Predipitation for Immobilization of Strontium-90 and Other Trace Metals in the Subsurface	113
Total for ID :				1,286



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
BENEDICTINE UNIVERSITY Lisle, IL	DE-FG02-06CH11386 09/30/2007 Taylor	SC-23	Science Lab Equipment Project to Upgrade Science Laboratory Facilities	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-06ER46321 08/14/2009 Rice	SC-22.23	Experimental and Theoretical Studies of the Liquid-Solid and Liquid-Vapor Interfaces of Metals and Alloys	150
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-06ER46326 08/14/2009 Guyot-Sionnest	SC-22.22	Colloidal Quantum Dot Films. Transport and Magnetotransport	130
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-03ER46088 04/30/2010 Nagel	SC-22.22	Studies of the Marginally Jammed Solid	115
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-99ER45789 11/30/2011 Rosenbaum	SC-22.22	Coherent Excitations in Disordered Quantum Materials	143
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-06ER41426 08/31/2009 Frisch	SC-25	The Development of Large-Area, Picosecond Resolution, Time-of-Flight Detectors	150
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-04ER63786 03/14/2008 Kent	SC-23.2	Chemical Methods for the Production of Proteins, of Protein and Peptide Reagents, and for the Characterization of Protein	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15865 05/14/2010 He	SC-22.12	Selective Recognition of Heavy Elements by Protein-Based Reagents	135
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15910 08/31/2010 Hopkins	SC-22.13	New Transition Metal Building Blocks and Assemblies for Photocatalytic Fuel Production	160
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-96ER20240 08/31/2008 Preuss	SC-22.13	Cell-Cell Interactions during pollen tube guidance	132
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-04ER25650 09/14/2006 Kirby	SC-21.1	Automatic Parallel Finite Element Computation: General Variational Forms with Arbitrary Finite Element Spaces	-28
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-90ER40560 10/31/2009 Martinec	SC-25	Participation in High Energy Physics	1,072
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14244 11/14/2011 Sutton	SC-22.1	Synchrotron X-Ray Microprobe and Microspectroscopy Research In Low Temperature Geochemistry	139
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14305 03/31/2011 Butler	SC-22.1	Dynamics of Product Branching in Elementary Combustion Reactions	140
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-94ER14466 08/14/2011 Sutton	SC-22.1	GeoSoilEnviroCARS: A National Resource for Earth, Planetary, Soil and Environmental Science Research at the	717

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CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-96ER14675 08/14/2009 Norris	SC-22.13	Supermolecular Photosynthetic Arrays: Construction, Characterization, Exploration and Utilization	200
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-98ER14849 04/30/2007 Bosnich	SC-22.1	Supramolecular Recognition in Separation Technology	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-01ER15254 01/31/2011 Richter	SC-22.12	Kinetic Isotope Fractionation by Diffusion in Liquids	147
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-00ER15036 08/31/2009 Jordan	SC-22.12	Electrophilic Metal Alkyl Chemistry in New Ligand Environments	138
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-04ER15615 08/31/2008 Bray	SC-22.13	Molecular-Genetic Analysis of Osmoregulation, Osmotic Adjustment and Growth in Arabidopsis	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER64501 08/31/2010 Kent	SC-23.2	Use of Modern Chemical Protein Synthesis and Advanced Fluorescent Assay Techniques to Experimentally Validate the Functional	800
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-05ER64086 12/31/2009 Grdina	SC-23.2	Prevention of Low Dose Radiation-Induced Genomic Instability with Clinically Relevant Non-Protein Thiols and Vitamin E	237
DEPAUL UNIVERSITY Chicago, IL	DE-FC02-06ER41441 03/14/2011 Di Pierro	SC-25	National Computational Infrastructure for Lattice Gauge Theory	66
DEPAUL UNIVERSITY Chicago, IL	DE-FG02-05CH11284 08/30/2006 Janis, Petcher	SC-23	Congressionally-mandated Construction Grant for "Biology Laboratory Renovations"	0
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-06ER64276 07/14/2008 Andrews	SC-23.2	Incidence and Impacts of Nano Patents	0
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-05ER64004 06/30/2007 Wasan	SC-23.4	Foaming and Antifoaming and Gas Entrainment in Radioactive Waste Pretreatment and Immobilization Processes	0
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-94ER40840 03/31/2009 White	SC-25	Participation in High Energy Physics	335
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-01ER41159 01/14/2011 Kaplan	SC-25	Participation in Muon Collider/Neutrino Factory Research and Development	85
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FC02-06ER41442 03/14/2011 Sun	SC-25	National Computational Infrastructure for Lattice Gauge Theory	30
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-01ER45923 03/14/2011 Zuo	SC-22.21	Quantitative Electron Nano-Crystallography	162

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				FY 2007
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER46011 08/31/2007 Flynn	SC-22.23	Fundamental Investigations of Nanoscale Phenomena in Beam-Assisted Nucleation, Growth and Surface-Smoothing, Using In	0
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER46019 11/30/2009 Granick	SC-22.23	Structure, Stabilized Phospholipid Vesicles	259
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-03ER46026 07/31/2010 Johnson	SC-22.22	A Thermodynamic Density-Functional Theory and High-Performance Code for Complex Materials with up to Multi-Million-Atom	195
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER46260 09/14/2011 Gewirth	SC-22.23	Cathode Catalysis in Hydrogen/Oxygen Fuel Cells: Mechanism, New Materials, and Characterization	250
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER46217 08/14/2010 Averback	SC-22.22	Microstructural Evolution and Mechanical Response of Complex Alloys Under Prolonged Particle Irradiation	300
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-06ER46285 06/30/2009 Abbamonte	SC-22.21	Intrinsic and Engineered Electronic Nanostructure in Transition Metal Oxides	203
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER63337 12/31/2009 McFarquhar	SC-23.3	Improvements in Representations of Cloud Microphysics for BBHRP and Models Using Data Collected during MFACE and TWP-ICE	148
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER54928 05/21/2008 Miley	SC-24.2	The 2007 US-Japan IEC Workshop on Small Plasma and Accelerator Neutron Sources (May 22-24, 2007)	7
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-04ER54765 04/14/2009 Ruzic	SC-24.2	Study of Breakdown/Arcing in High Power RF Antennas	55
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-99ER54515 01/14/2011 Ruzic	SC-24.2	Surface Interactions for Controlled Nuclear Fusion	174
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46383 05/31/2010 Chiang	SC-22.21	Quantum Physics of Surface-Based Nanoscale Systems	225
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46418 07/31/2010 Suslick	SC-22.22	Nano-Oxide Photocatalysis for Solar Energy Conversion	250
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46453 07/31/2010 Goldbart	SC-22.22	Quantum Materials at the Nanoscale	1,715
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46443 04/30/2011 Robertson	SC-22.21	Visualization and Qualification of Deformation Processes Controlling the Mechanical Response of Alloys in Aggressive Environments	235
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46459 07/31/2010 Cahill	SC-22.21	Strongly Driven Transformations in Materials	300

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ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46469 10/31/2007 Strano	SC-22.23	Self Assembly & Self-Repair of Novel Photosynthetic Reaction Center/Single Walled Carbon Nanotube Complexes for Solar Energy Conversion-Synthetic Analogs of ...	200
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER46471 07/31/2010 Moore	SC-22.23	Programming Function via Soft Materials	1,500
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-91ER40677 10/31/2009 Liss, Thaler	SC-25	Research on Elementary Particle Physics	2,314
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-06ER25752 09/14/2011 Johnson, Snir	SC-21.1	Center for Programming Models for Scalable Parallel Computing	200
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER15843 12/31/2011 Hartwig	SC-22.12	Chemistry of Complexes With Transition Metal-Heteroatom Bonds: Novel Insertion Chemistry and X-H Bond Activation	180
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER15879 06/30/2008 Gennis	SC-22.13	Workshop on Proton Transport in Biological and Model Systems - July 29 - August 3, 2007	5
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER25688 08/14/2008 Zhou	SC-21.1	Run-Time Support for Debugging Parallel Programs on Large Scale Systems	98
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-00ER15028 12/31/2007 Kirkpatrick	SC-22.1	Computational and Spectroscopic Investigations of the Molecular Scale Structure and Dynamics of Geologically	223
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER15317 06/30/2011 Bethke	SC-22.1	Field-Constrained Quantitative Model of the Origin of Microbial and Geochemical Zoning in a Confined Fresh-Water Aquifer	135
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-02ER15296 05/31/2011 Metcalf	SC-22.13	Genetic Analysis of Hydrogenotrophic Methanogenesis in Methanosarcina Species	123
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-90ER14146 02/28/2009 Rauchfuss	SC-22.12	Cyanometallates, Their Cages, and Associated Host-Guest Behavior	155
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-05ER64144 09/14/2009 Woese	SC-23.2	Role of Horizontal Gene Transfer as a Control on the Coevolution of Ribosomal Proteins and the Genetic Code	298
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FC02-07ER64323 11/14/2011 Valocchi	SC-23.4	Modeling Multiscale-Multiphase-Multicomponent Subsurface Reactive Flows Using Advanced Computing	114
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER64374 03/14/2010 Stucki	SC-23.4	Structure and Function of Subsurface Microbial Communities Affecting Radionuclide Transport and	63
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-06ER64261 06/30/2009 Walsh	SC-23.3	Use of ARM Products in Reanalysis Applications and IPCC Model Assessment	97

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ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-06ER64207 03/14/2009 Werth	SC-23.4	Influence of Wetting and Mass Transfer Properties of Organic Chemical Mixtures in Vadose Zone Materials on Groundwater	315
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER64405 05/31/2010 Johnson	SC-23.4	Chromium Isotopes as Indicators of Hexavalent Chromium Reduction	69
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER64378 03/31/2012 McFarquhar	SC-23.3	Chief Scientist for Atmospheric Radiation Measurement (ARM) Aerial Vehicle Program (AAVP)	50
ILLINOIS, UNIVERSITY OF Champaign, IL	DE-FG02-07ER64503 08/31/2010 Khanna	SC-23.2	Meeting the Demand for Biofuels: Impact on Land Use and Carbon Mitigation	175
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-06ER64193 02/28/2009 Nagy	SC-23.4	Nucleation and Precipitation Processes in the Vadose Zone During Contaminant Transport	350
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-85ER13384 04/14/2009 Kiefer	SC-22.1	Kinetics of Combustion-Related Processes at High Temperatures	125
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-96ER14680 06/14/2009 Murad	SC-22.1	Computer Simulation of Transport Processes Across Structured Membranes	0
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-05ER15726 06/14/2009 Trenary	SC-22.12	Reversible Dehydrogenation of Boron Nanoclusters	115
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-03ER15381 01/14/2012 Sturchio	SC-22.1	Mineral-Fluid Interactions: Synchrotron Radiation Studies at the Advanced Photon Source	52
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-02ER15364 10/31/2007 Nagy	SC-22.1	Nanoscale Reactivity of Clays, Clay Analogues (Micas), and Clay Minerals	0
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-03ER15488 11/14/2009 Ogut	SC-22.11	Computational Nanophotonics: Modeling Optical Interactions and Transport in Tailored Nanosystem Architectures	100
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-84ER40173 06/30/2009 Keung	SC-25	Studies in Theoretical High Energy Particle Physics	45
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-94ER40865 05/14/2010 Hofman	SC-26.1	Heavy Ion Nuclear Physics Research at the University of Illinois at Chicago	585
ILLINOIS, UNIVERSITY OF Chicago, IL	DE-FG02-01ER41195 07/31/2010 Stephanov	SC-26.1	Theoretical Studies of Strongly Interacting Matter	140
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-91ER45439 06/30/2008 Lewis	SC-22.21	Functional and Nanoscale Materials Systems: Frontier Programs of Science at the Frederick Seitz Materials Research	3,500

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ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-03ER15476 09/14/2009 Johnson, Nuzzo	SC-22.12	Reactivity & Structural Dynamics of Supported Metal Nanoclusters using Electron Microscopy, In-Situ X-Ray Spectroscopy, Elec. Struc. Theories, &	459
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-87ER13716 08/31/2010 Gennis	SC-22.13	Studies on Cytochrome bo3 from E. coli	155
ILLINOIS, UNIVERSITY OF Urbana, IL	DE-FG02-06ER64195 04/30/2009 Jain	SC-23.3	Integrated Dynamic Global Modeling of Land Use, Energy, and Economic Growth	169
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-04ER63869 07/31/2008 Song	SC-23.3	The Role of Soil and Vegetation in the Future Climate	0
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-07ER46385 05/14/2008 van Veenendaal	SC-22.22	Workshop to Form the CMSN Team: Building a Unified Computational Model for the Resonant X-ray Scattering of Strongly Correlated Materials- held May 21-23, 2007	11
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-06ER46334 08/14/2009 Xiao	SC-22.23	One-Dimensional Mesostructures of NbSe2 and NbN Superconductors	72
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-06ER41435 08/31/2009 Piot	SC-25	Longitudinal Phase Space Monitors for the ILC Injectors and Bunch Compressors	55
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-04ER41323 01/31/2008 Piot	SC-25	Nonlinear Dynamics of High-Brightness Electron Beams and Beam-Plasma Interactions: Theories, Simulations, and	0
NORTHWESTERN UNIVERSITY Chicago, IL	DE-FG02-07ER64342 12/14/2009 Woloschak	SC-23.2	Radioprotectors and Tumors: Molecular Studies in Mice	249
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER41395 08/31/2008 Seidman	SC-25	3D Atom-Probe Microscopy on Niobium for SRF Cavities	45
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER41397 08/31/2009 Velasco	SC-25	Development of Beam Instrumentation for CLIC at the CTF3 Facility at CERN	47
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-84ER45125 10/31/2010 Dutta	SC-22.23	In Situ X-ray Studies of Adsorption, Nucleation, and Self-Assembly at Soft and Hard Surfaces	173
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-88ER45372 03/31/2009 Freeman	SC-22.22	Electronic Structure and Novel Properties in Complex Oxides and Hetero-Interfaces	85
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER45721 03/14/2011 Dunand	SC-22.22	Mechanical Properties and Microstructural Evolution in Al-Li-Sc-Yb Alloys Containing Multi-Shell Nanosize Precipitates	112
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER45782 08/14/2011 Voorhees	SC-22.23	Three-Dimensional Evolution of Dendritic Mixtures	75

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-06ER46320 07/31/2008 Marks	SC-22.23	Engineered Electrodes and Electrode-Organic Interfaces for High-Efficiency Organic Photovoltaics	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46255 08/31/2011 Barnett	SC-22.22	High Performance Nano-Crystalline Oxide Fuel Cell Materials: Defects, Structures, Interfaces, Transport, and Electrochemistry	500
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46248 06/30/2011 Halperin	SC-22.22	Antiferromagnetism and Superconductivity	170
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-03ER46069 02/14/2008 Golovin	SC-22.23	Self-Organized Highly Regular Nanostructures in Polymer Films	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER45945 03/14/2011 Marks	SC-22.21	New Methods for Atomic Structure Determination of Materials	103
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-00ER45810 05/14/2011 Stupp	SC-22.23	Nanoengineering of Complex Materials	499
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-02ER46002 08/31/2007 Weertman	SC-22.21	Microstructural Changes and Deformation Processes of Nanocrystalline Cu Under Constant and Time-Dependent Stresses	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46401 07/14/2011 Lauhon	SC-22.22	Imaging Carrier Generation, Transport, and Collection in Nanostructured Materials	162
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-06ER46346 08/31/2009 Chandrasekhar	SC-22.21	Epitaxial Multifunctional Oxide Heterostructures	174
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46356 10/31/2009 Kanatzidis	SC-22.23	Metal Flux Synthesis of Heterometallic Aluminum Silicides	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46433 08/14/2010 Wolverton	SC-22.22	Kinetics and Thermodynamics of Metal and Complex Hydride Nanoparticles	259
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46444 07/31/2010 Dravid	SC-22.21	Statics and Dynamics of Dimensionally and Spatially Constrained Ceramic Oxides	165
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-03ER15457 05/31/2009 Stair	SC-22.1	Institute for Catalysis in Energy Processes	950
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15522 06/30/2010 Ibers	SC-22.12	Actinide Transition-Metal Chalcogenides and Pnictides	156
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-03ER15487 05/14/2009 Schatz	SC-22.11	Computational Nanophotonics: Modeling Optical Interactions and Transport in Tailored Nanosystem Architectures	180

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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15612 10/31/2010 Seideman	SC-22.11	New Directions in Intense Laser Alignment	100
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-06ER15787 05/31/2009 Geiger	SC-22.12	Surface Charge Densities and Acidities of Biogeochemically Important Organic Adlayers at Mineral/Water Interfaces	50
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-95ER14534 11/30/2007 Ottino	SC-22.23	Dynamics of Segregation and Mixing of Granular Matter	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-96ER14684 07/14/2011 Lewis	SC-22.13	Light-Driven Charge Transfer in Face-to-Face Donor-Spacer-Acceptor Supramolecular Systems	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-97ER14789 10/31/2009 Stair	SC-22.1	Raman Spectroscopy of Working Catalysts	119
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER14999 04/14/2009 Wasielewski	SC-22.13	Approaches to Integrated Photochemical Systems for Solar Energy Conversion	280
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER15244 04/30/2011 Hupp	SC-22.1	Coordination-Chemistry-Derived Materials Featuring Nanoscale Porosity and Selective Chemical Separation	205
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER15184 10/31/2010 Kung	SC-22.1	Molecular Nanocages for Catalysis: An Investigation of Effect of Active Site Environment	131
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-86ER13511 11/14/2010 Marks	SC-22.12	Supported Organometallic Complexes: Surface Chemistry, Spectroscopy, Catalysis, and Homogeneous Models	171
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER13808 05/14/2009 Hupp	SC-22.1	Fundamental Studies of Light-Induced Charge Transfer, Energy Transfer, and Energy Conversion with Supramolecular	195
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-93ER14344 08/31/2009 Rudnicki	SC-22.12	Approaches to Some of the Outstanding Problems in the Heterogeneous Compactive Deformation of Geomaterials	114
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER41086 12/31/2009 Segel	SC-26.1	Physics with Rare Isotope Beams	64
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-91ER40684 11/30/2009 Buchholz	SC-25	High Energy Physics Research	1,160
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-07ER25808 11/14/2011 Choudhary	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	194
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER40344 11/30/2010 Seth	SC-26.1	Strong Interaction Studies with Medium Energy Probes	325



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NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER25047 01/14/2011 Nocedal	SC-21.1	Nonlinear Optimization and Applications	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-01ER25485 08/14/2008 Choudhary	SC-21.1	Scientific Data Management Integrated Software Infrastructure Center	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER25683 08/31/2007 Choudhary	SC-21.1	Programming Models for HPCS: I/O Models and Runtime Interface	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER25691 08/14/2008 Memik	SC-21.1	High Performance Networking Hardware Design	99
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER25692 08/14/2009 Chen	SC-21.1	HPNAIDM: The High-Performance Network Anomaly/Intrusion Detection and Mitigation System	99
OLIVEIT NAZARENE UNIVERSITY Bourbonnais, IL	DE-FG02-06CH11385 05/31/2007 Alderson	SC-23	University Science Lab	0
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-88ER13941 06/30/2008 Clark	SC-22.13	Regulation of Alcohol Fermentation by Escherichia coli	0
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-05ER46231 08/31/2011 Ge	SC-22.22	First Principles Based Simulation of Hydrogen Interactions in Complex Hydrides and Other Hydrogen Storage Materials	200
SOUTHERN ILLINOIS UNIVERSITY Carbondale, IL	DE-FG02-06ER46291 06/30/2010 Ali, Stadler	SC-22.22	Understanding Compound Phase Transitions in New Heusler Alloy Colossal Magnetocaloric Materials	153
WESTERN ILLINOIS UNIVERSITY Macomb, IL	DE-FG02-07ER41458 11/14/2009 Incera	SC-26.1	Cold and Dense Quark Matter in Magnetic Fields	60
Total for IL :				30,041

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BALL STATE UNIVERSITY Muncie, IN	DE-FG02-06ER64286 08/14/2008 Smitherman	SC-23.2	Science Literacy	0
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-04ER63903 12/31/2007 Schmid	SC-23.3	Scaling up of Carbon Exchange Dynamics from AmeriFlux Sites to a Super-Region in the Eastern United States	131
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER64371 09/14/2010 Schmid, Dragoni	SC-23.3	Ecosystem-Atmosphere Exchange of Carbon, Water and Energy Over a Mixed Deciduous Forest in the Midwest	200
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-98ER14890 12/14/2010 Hieftje	SC-22.12	Elucidation and Reduction of Interference Effects in Inductively Coupled Plasma Spectrometry	130
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-01ER15223 09/14/2008 Hangarter	SC-22.13	Regulation of Plastid Development During Embryo Maturation and Seed Germination	114
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-00ER15032 03/31/2009 Schimmelmann	SC-22.12	Significance of Isotopically Labile Organic Hydrogen in the Thermal Maturation of Source Rocks	133
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-02ER15312 02/14/2009 Estelle	SC-22.13	Function of the Arabidopsis TIR1/AFB Auxin Receptors in Growth and Development	170
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-91ER40661 10/31/2009 Ogren, Kostelecky, Musser	SC-25	High Energy Experimental and Theoretical Particle Physics	1,397
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-92ER40747 08/14/2009 Lee	SC-25	Physics of Beam Cooling, Space Charge Effects, and Beam Manipulation Technologies in High Energy Accelerators	230
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-87ER40365 03/31/2011 Horowitz, Serot, Szczepaniak	SC-26.1	Theoretical Studies in Nuclear and Hadronic Physics	266
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-88ER40404 12/31/2009 De Souza	SC-26.1	Many-Body Nuclear Dynamics	338
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER25750 09/14/2011 Lumsdaine	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	0
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-07ER25804 11/14/2011 Bramley	SC-21.1	Center for Technology for Advanced Scientific Component Software, (TASCS)	127
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-05ER25676 05/14/2008 Ortoleva	SC-21.1	Intercellular Genomics of Subsurface Microbial Colonies	292
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-04ER25600 08/14/2008 Plale	SC-21.1	Time-Based Data Streams: Fundamental Concepts for a Data Resource for Streams	0

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INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER15889 01/31/2011 Jarrold	SC-22.11	Probing Catalytic Activity in Defect Sites in Transition Metal Oxides and Sulfides Using Cluster Models: A Combined Experiment and Theoretical Approach	112
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-07ER15893 08/14/2010 Mindiola	SC-22.12	Carboamination and Hydrophosphination of Alkynes Using Titanium Precatalysts. An Efficient Approach to Catalytic C-N, C-C,	140
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER41443 03/14/2011 Gottlieb	SC-25	National Computational Infrastructure for Lattice Gauge Theory	51
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-05ER41374 04/14/2010 Shepherd	SC-26.1	Understanding QCD in the Light Meson Sector (With Emphasis on Mapping Gluonic Excitations) Using Pion and Photon Probes	325
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-06ER46279 03/14/2009 Pynn	SC-22.21	Development of New Methods to Study Materials Structure using Spin Echo Scattering Angle Measurement (SESAME) of Neutrons	202
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-00ER45807 10/15/2003 Snow	SC-22.21	Polarized 3He in Neutron Scattering	-5
INDIANA UNIVERSITY Bloomington, IN	DE-FG02-03ER46093 11/14/2009 Snow	SC-22.21	Polarized 3He in Neutron Scattering	276
INDIANA UNIVERSITY Bloomington, IN	DE-FC02-06ER54865 01/14/2011 Bramley	SC-24.2	Computational Science in Fusion Energy - Center for Simulation of Wave Interactions with Magnetohydrodynamics	85
N UNIVERSITY ASSOCIATION, INC. Valparaiso, IN	DE-FG02-88ER40416 01/15/2012 Manweiler	SC-26.1	Measuring the Spin Structure of the Proton at RHIC	140
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-06ER15830 08/31/2009 Schneider	SC-22.12	Towards Realistic Models of Heterogeneous Catalysis: Simulations of Redox Catalysis From First Principles	134
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15851 02/14/2010 Bohn	SC-22.12	Molecular Aspects of Transport in Thin Films of Controlled Architecture	125
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15880 06/30/2010 Burns	SC-22.12	Topological Structural Relationships, Properties, and Nano-Structures of U(VI), Np(V), Pu(V) and Pu(IV) Materials	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-95ER40934 06/14/2010 Mathews	SC-26.1	Nuclear Properties at Extreme Density, Temperature, Spin and Isospin	180
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-01CH11097 12/31/2007 Incropera	SC-23	Notre Dame Multi-Discipline Engineering Center	0
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-02ER15323 11/14/2007 Maurice	SC-22.1	Controls on Molecular-Scale Microbial Responses to Metals: Interactions of Bacteria, Metals, and Environmental Nanoparticles	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FC02-04ER15533 10/31/2010 Carmichael	SC-22.13	Radiation and Photochemistry in the Condensed Phase and at Interfaces	2,995
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER46476 08/31/2010 Sevov	SC-22.23	Nanorods of Silicon and Germanium with Well-Defined Shapes and Sizes	118
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER46390 06/14/2011 Zhu	SC-22.23	Water-Immersed Polymer Interfaces and the Roles of Their Materials Properties on Biolubrication	95
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-04ER63744 12/14/2007 LaVerne	SC-23.4	Hazardous and Corrosive Gas Production in the Radiolysis of Water/Organic Mixtures in Model TRU Waste	0
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-00ER41145 07/31/2009 Losecco	SC-25	Research in CP Violation in the B Meson Sector & OJI Task-Optimizing Higgs Discovery Prospects at the Fermilab	110
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-06ER64263 06/30/2009 Hellmann	SC-23.2	Genomics Research on Terrestrial Insects and Aquatic Microorganisms as Indicators of Global Change	0
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-05ER64023 02/28/2010 Hellmann	SC-23.3	Predicting the Impact of Climate Change on Animal Distributions: The Importance of Local Adaptation and Species' Traits	166
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER64497 08/31/2010 Bohn	SC-23.2	Three Dimensional Molecular Imaging of Ionic Liquid Processing of Lignocellulosic Materials	500
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER64395 03/14/2010 Fein	SC-23.4	An Integrated Approach to Quantifying the Coupled Biotic and Abiotic Mechanism, Rates and Long-Term Performance of	79
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-02ER45976 06/30/2011 Harris	SC-22.23	Virus Assemblies as Templates for Nanocircuits	103
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-96ER45581 08/14/2000 Durbin, Colella	SC-22.21	X-Ray Physics of Materials	-57
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-88ER40412 12/31/2011 Scharenberg	SC-26.1	The Experimental Study of the Phase Structure of Hadronic Matter	663
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-99ER20342 08/31/2009 Sherman	SC-22.13	Diurnal Cycles and the Regulation of Metabolism in the Cyanobacterium Synechocystis sp. PCC 6803	114
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-94ER20138 08/31/2007 Chapple	SC-22.13	Secondary metabolism in Arabidopsis	0
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-02ER15357 09/14/2009 Szymanski	SC-22.13	The DISTORTED Genes: Functional Linkage of WAVE-ARP2/3, Endomembrane Dynamics, and Morphogenesis	114

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PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-03ER15391 10/31/2010 Lucht	SC-22.11	Advanced Nonlinear Optical Methods for Quantitative Measurements in Flames	100
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-03ER15445 08/31/2008 McCann	SC-22.13	Rhamnogalacturonan I is a Principal Scaffolding Element in Plant Cell Wall Architecture	0
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-03ER15466 09/14/2009 Delgass	SC-22.12	Catalyst Design by Discovery Informatics	790
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-04ER15526 05/14/2010 Staiger	SC-22.13	Regulation of Actin Filament Ends: The Role of Capping Proteins in Plant Growth and Lipid Signaling	145
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-96ER14656 02/14/2010 Zwier	SC-22.11	Experimental Characterization of the Potential Energy Surfaces for Conformational and Structural Isomerization in Aromatic Fuels	130
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-96ER14641 10/31/2011 Basaran	SC-22.12	Electrohydrodynamic Tip Streaming	125
PURDUE RESEARCH FOUNDATION West Lafayette, IN	DE-FG02-05CH11334 12/31/2007 Bertoline	SC-23	Northwest Indiana Computational Grid (NWIC-Grid): A Joint Project of the Univ. of Notre Dame, Purdue University-West Lafayette, and Purdue University-Calumet	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-00ER15105 05/31/2009 McLuckey	SC-22.1	The Dynamics and Thermodynamics of Gaseous Macro-ions	125
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER15654 08/14/2008 Carpita	SC-22.13	Identifying the catalytic components of the maize mixed-linkage B-glucan synthase	114
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER15752 05/31/2011 Choi	SC-22.13	Construction of High Performance, Low Cost Photoelectrodes with Controlled Polycrystalline Architectures	110
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15794 06/30/2009 Abu-Omar	SC-22.12	Silane Activation on a Single-Site Oxorhenium(V) Oxazoline Catalyst: A New Mechanistic Paradigm for Hydrogen Production and Hydrosilation	139
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15804 07/14/2009 Murphy	SC-22.13	Analysis of MDR/PGP Auxin Transport Proteins and Their Contribution to Monocot Biomass, Structural Stability, and	123
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15807 07/14/2009 Cooks	SC-22.12	Preparative Mass Spectrometry to Create and Evaluate Size- and Composition-Selected Catalytic Particles	125
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15408 08/14/2009 Ribeiro	SC-22.12	Fundamental Studies on the Kinetics of Oxidation Reactions	140
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER15905 08/31/2010 Chapple	SC-22.13	Phenylpropanoid Metabolism in Arabidopsis: The Role of REF4	130

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-91ER40681 10/31/2011 Shipsey, Barnes, Gutay, Miller	SC-25	Experimental and Theoretical High Energy Physics Program	1,875
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46398 07/14/2010 Koslowski	SC-22.22	Plasticity in Ultra Fine Grained Materials	66
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46399 07/31/2010 Strachan	SC-22.22	Shape Memory in Nanoscale Metallic Alloys	99
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER63945 03/31/2009 Li	SC-23.2	Regulation of NF-kB and MnSOD in Low Dose Radiation Induced Adaptive Protection of Mouse and Human Skin Cells	76
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER64152 11/14/2009 Meilan	SC-23.2	Genome-enabled Modification of Poplar Root Development for Increased Carbon Sequestration	117
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER64478 08/31/2010 Tyner	SC-23.2	Analysis of Global Economic and Environmental Impacts of a Substantial Increase in Bioenergy Production	211
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER64391 03/14/2010 Thompson	SC-23.4	Optimization and Directed, Natural Evolution of Biologically-Mediated Chromate Reduction in Subsurface Soil	196
SAINTE FRANCIS, UNIVERSITY OF Fort Wayne, IN	DE-FG02-06CH11428 01/31/2008 Tieben, Frazier	SC-23	Upgrading of and Replacement of Science Equipment at University of Saint Francis	0
Total for IN :				15,364

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER15504 12/31/2009 Chu	SC-22.1	Atomic and Molecular Physics in Strong Fields	105
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-05ER15708 03/14/2012 Thompson	SC-22.11	Understanding Nanoscale Confinement Effects in Solvent-Driven Chemical Reactions	133
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-06ER15792 06/30/2009 Malinakova	SC-22.12	Bis-pi-allylpalladium Complexes in Catalysis of Multi-component Reactions	125
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-96ER40981 05/31/2011 Sanders	SC-26.1	Research in Heavy-Ion Nuclear Physics at CMS	283
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER41288 02/14/2009 Shi	SC-25	Study of the Stability of Particle Motion in Storage Rings	82
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER41308 04/30/2010 Ralston	SC-25	Research in Theoretical Particle Physics	0
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-03ER63656 12/14/2008 Steeple, Tsoulias	SC-23.4	Automating Shallow 3D Seismic Imaging	0
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER63745 11/30/2007 Bowman-James	SC-23.4	Supramolecular Chemistry of Selective Anion Recognition for Anions of Environmental Relevance	0
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-07ER54940 07/31/2010 Medvedev	SC-24.2	Properties and Nonlinear Dynamics of Weibel Turbulence	45
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER54790 07/31/2008 Medvedev	SC-24.2	Nonlinear Weibel Instability and Turbulence in Strong Collisionless Shocks	0
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-07ER64476 08/31/2010 Selfa	SC-23.2	The Biofuels Revolution: Understanding the Social, Cultural and Economic Impacts of Biofuels Development on Rural Communities	227
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-03ER46058 09/30/2006 Rahman	SC-22.22	Theoretical and Computational Studies of Characteristics of Metallic Nanostructures	-106
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-96ER45604 10/31/2008 Jiang, Lin	SC-22.22	Optical and Electrical Properties of III-V Nitrides Wide Bandgap Semiconductors	169
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-06ER15832 08/31/2009 Lin	SC-22.11	Time-Resolved Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons	145
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-06ER15829 08/31/2009 Litvinyuk	SC-22.11	Developing Laser-Induced Re-Collision Electron Self-Diffraction for Ultra-Fast Imaging of Transient Molecular Structure	153

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-99ER41093 10/31/2010 Bolton	SC-25	Heavy Quark and Neutrino Physics	616
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-03ER15465 10/31/2006 Rahman	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	-145
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-86ER13491 02/14/2010 Ben-Itzhak	SC-22.11	Structure and Dynamics of Atomics, Ions, Molecules and Surfaces	2,500
Total for KS :				4,332



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-84ER40154 01/31/2010 Liu	SC-26.1	Research in Theoretical Nuclear Physics	170
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-99ER41101 04/30/2011 Korsch	SC-26.1	Fundamental Studies of the Neutron at Jefferson Lab and the SNS	153
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-92ER20075 06/30/2009 Houtz	SC-22.13	Structure/Function Relationships in the Chloroplast-Localized SET Domain Protein Methyltransferase Rubisco LSMT and	0
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-97ER20270 08/31/2008 DeMoll	SC-22.13	Acetyl-CoA Cleavage and Synthesis in Methanogens: Biochemistry and Targeted Mutational Analysis of Electron Transfer Steps in Conversion of Acetate to Methane	0
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-00ER45817 05/31/2009 Menon	SC-22.22	Magnetism in Low-Dimensional Carbon Materials	130
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-97ER45653 05/14/2011 De Long	SC-22.22	Investigation of Novel Magnetic Order in Complex Transition Metal Oxides	74
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-07ER46375 03/14/2011 Grulke	SC-22.21	Nanoscale Materials and Architectures for Energy Conversion	500
LE RES. FOUND., INC., UNIV. OF Louisville, KY	DE-FG02-98ER41089 09/14/2009 Brown	SC-25	Contributions to Studies of CP Violation and Hadronic Physics with the Babar Collaboration	100
Total for KY :				1,127

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
LOUISIANA BOARD OF REGENTS Baton Rouge, LA	DE-FG02-04ER46136 04/14/2011 Khonsari	SC-22.21	Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources	300
LOUISIANA STATE UNIV. AND A&M COL. Baton Rouge, LA	DE-FG02-06ER25730 08/14/2009 Sterling	SC-21.1	A Framework for Adaptable Operating and Runtime Systems	200
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-04ER46155 08/31/2007 Daniels-Race	SC-22.22	Growth and Characterization of MBE Parametric Variation Upon Polarization Independent Strained Films	0
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-03ER46041 05/14/2008 Dutrow	SC-22.21	Thermal-Chemical-Mechanical Feedback During Fluid-Rock Interactions: Implications for Chemical Transport & Scales of Equilibria in the Crust	0
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-07ER46420 07/31/2010 Adams	SC-22.22	Quantum Transport in Thin Film Correlated Insulators	169
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-02ER63456 08/31/2009 Carman	SC-23.3	The Influence of Deep-Sea-Bed CO2 Sequestration on Small Metazoan (Meiofaunal) Viability and Community Structure	0
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-01ER15178 10/31/2010 Poliakoff	SC-22.11	Resonant and Nonresonant Vibrational Effects in the Photoionization Dynamics of Asymmetric Systems	77
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-01ER15267 08/31/2007 Maverick	SC-22.1	Inorganic-Organic Molecules and Solids with Nanometer-Sized Pores	0
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-98ER20310 08/31/2011 Bricker	SC-22.13	Protein - Chloride Interactions in Photosystem II	0
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-96ER40978 03/14/2011 Blackmon	SC-26.1	The Structure of Nuclei Far from Stability and Nuclear Astrophysics Using Radioactive Ion Beams	145
LOUISIANA STATE UNIVERSITY Baton Rouge, LA	DE-FG02-91ER40617 03/31/2010 Metcalf	SC-25	Research in Elementary Particle Physics and Cosmic Ray Physics	610
LOUISIANA STATE UNIVERSITY New Orleans, LA	DE-FG02-02CH11117 03/31/2009 Fontham, Hymel, Sartor	SC-23	Building to Support Cancer Center Research and Prevention	0
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-05ER25659 01/31/2008 Leangsuksun	SC-21.1	MOLAR: MOdular Linux and Adaptive Runtime support for HEC OS/R research	98
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-05ER46246 08/31/2009 Dobbins	SC-22.21	Understanding the Local Atomic-Level Effect of Dopants in Complex Metal Hydrides Using Synchrotron X-Ray Absorption Spectroscopy and Density	96
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-99ER41117 06/14/2011 Sawyer	SC-25	Research in High Energy Physics	203

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-06ER41430 08/31/2009 Sawyer	SC-25	Neutron-Enhanced Calorimetry for Hadrons (NECH)	39
SOUTHEASTERN LOUISIANA UNIV. Hammond, LA	DE-FG02-96ER54370 01/31/2008 McCarthy	SC-24.2	Numerical Simulations of Plasma Turbulence in the Tokamak Edge	0
TULANE UNIVERSITY New Orleans, LA	DE-FG02-05ER15702 08/14/2011 Diebold	SC-22.12	Towards a Molecular-Scale Understanding of Surface Chemistry and Photocatalysis on Metal Oxides: Surface Science Experiments and First-Principles Theory	190
TULANE UNIVERSITY New Orleans, LA	DE-FG02-96ER14617 05/31/2011 Schmehl	SC-22.1	Light Induced Energy and Electron Transfer Reactions of Photoactive Transition Metal Complexes	135
TULANE UNIVERSITY New Orleans, LA	DE-FG02-05ER46243 08/31/2009 John	SC-22.23	Molecular Design Basis for Hydrogen Storage in Clathrate Hydrates	0
TULANE UNIVERSITY New Orleans, LA	DE-FG02-07ER46358 01/31/2010 Mao	SC-22.21	Studies of Novel Quantum Phenomena in Ruthenates	150
TULANE UNIVERSITY New Orleans, LA	DE-FG02-98ER62704 09/30/2008 Blake	SC-23.4	Field-Portable and Automated Immunosensors for Hexavalent Uranium, Other Heavy Metals, and Chelators	270
TULANE UNIVERSITY New Orleans, LA	DE-FC02-06ER64298 08/31/2011 Tornqvist	SC-23.3	Center for Riparian and Coastal Ecosystem Research	1,521
XAVIER UNIVERSITY New Orleans, LA	DE-FG02-96ER20228 08/14/2008 Blake	SC-22.13	Molecular Characterization of Bacterial Respiration on Minerals	102
Total for LA :				4,305

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-99ER45747 05/31/2011 Wang	SC-22.22	Disorder and Interaction in Correlated Electron Systems	80
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-00ER45805 03/14/2011 Ren	SC-22.22	Nanoscale Coaxial Cables for Field Emission and Solar Energy Conversion	132
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-93ER14359 06/30/2009 Scott	SC-22.1	High Temperature Chemistry of Aromatic Hydrocarbons	152
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-91ER20025 08/31/2009 Roberts	SC-22.13	Osmoregulation in Methanogens	123
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-05ER63995 12/31/2010 Davidovits	SC-23.3	Laboratory Experiments and Instrument Development for the Study of Atmospheric Aerosols	89
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER64178 01/14/2009 Schaaf	SC-23.3	Assessment and Enhancement of MODIS BRDF/Albedo Product at the ARM Southern Great Plains Site	63
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER64204 02/28/2009 Sue Wing	SC-23.3	Empirical & Computational Investigations of International Technology Spillovers: Effects on Income Convergence, Greenhouse	163
BOSTON UNIVERSITY Boston, MA	DE-FG02-07ER64483 09/14/2010 Collins	SC-23.2	A Systems Biology Platform for Characterizing Regulatory and Metabolic Pathways that Influence and Control Microbial Hydrogen Production	700
BOSTON UNIVERSITY Boston, MA	DE-FG02-07ER64388 05/31/2010 Segre	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	581
BOSTON UNIVERSITY Boston, MA	DE-FG02-04ER25605 08/14/2008 Starobinski	SC-21.1	A Theory of Stability for Communication Networks	0
BOSTON UNIVERSITY Boston, MA	DE-FG02-04ER25648 09/01/2006 Oberai	SC-21.1	New Directions in the Variational Multiscale Formulation of Large Eddy Simulation of Turbulence	-135
BOSTON UNIVERSITY Boston, MA	DE-FG02-91ER40676 01/31/2010 Stone	SC-25	Research in Particle Physics	2,045
BOSTON UNIVERSITY Boston, MA	DE-FG02-03ER46037 02/14/2012 Ludwig	SC-22.22	Real-time X-ray Studies of Surface and Thin Film Processes	111
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46332 08/14/2009 Paiella	SC-22.23	Plasmonic Band-Structure Engineering for Light-Emission Efficiency Enhancement	99
BOSTON UNIVERSITY Boston, MA	DE-FG02-98ER45680 12/14/2009 Smith	SC-22.22	Electronic Structure in Low Dimensional and Correlated Solids	164

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BOSTON UNIVERSITY Boston, MA	DE-FG02-85ER45222 12/31/2010 El-Batanouny	SC-22.23	Investigation of Spin, Charge and Orbital Ordering and Dynamics on the Surfaces of Cobaltate and Cuprate Crystals by Helium Scattering Spectroscopies	185
BOSTON UNIVERSITY Boston, MA	DE-FC02-06ER41440 03/14/2011 Brower, Rebbi	SC-25	National Computational Infrastructure for Lattice Gauge Theory	183
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-92ER40706 12/31/2009 Blocker	SC-25	Research in Elementary Particle Physics	768
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-06ER15815 08/14/2009 Ozerov	SC-22.12	Catalysis of C-F Activation by Highly Electrophilic Si Compounds	151
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-05ER15699 08/14/2010 Kern	SC-22.12	Catalysis, Dynamics and Stability of Enzymes Under Extreme Conditions	154
CLARK UNIVERSITY Worcester, MA	DE-FG02-02ER15367 01/14/2012 Kudrolli	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	53
CLARK UNIVERSITY Worcester, MA	DE-FG02-05ER46214 07/31/2009 Agosta	SC-22.22	Novel Superconducting States in Actinides and Other Anisotropic Superconductors	105
HARVARD COLLEGE Boston, MA	DE-FG02-07ER64332 04/30/2008 Demple	SC-23.2	John B. Little Center Annual Symposium	20
HARVARD COLLEGE Boston, MA	DE-FG02-05ER64089 06/30/2009 Little	SC-23.2	Bystander Effects of Ionizing Radiation	59
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER64358 07/31/2010 Munger	SC-23.3	Detection of Long-Term Trends in Carbon Accumulation by Forests in Northeastern U.S. and Determination of Causal Factors	383
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER64500 08/31/2010 Xie	SC-23.2	Study of Lignocellulosic Material Degradation with CARS Microscopy	910
HARVARD COLLEGE Cambridge, MA	DE-FG02-01ER15197 10/31/2007 Herschbach	SC-22.1	Chemistry with Ultracold Molecules	0
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER15875 11/30/2009 Xie	SC-22.11	Coherent Anti-Stokes Raman Scattering Spectroscopy of Single Molecules in Solution	50
HARVARD COLLEGE Cambridge, MA	DE-FG02-04ER63784 11/14/2007 Xie	SC-23.2	Real-Time Gene Expression Profiling of Live <i>Shewanella Oneidensis</i> Cells	0
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER46422 08/14/2010 Westervelt	SC-22.22	Electron Imaging in 2DEG's	140

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
HARVARD COLLEGE Cambridge, MA	DE-FG02-06ER46335 08/14/2010 Aziz	SC-22.23	Nanoscale Morphology Evolution under Ion Irradiation	178
HARVARD COLLEGE Cambridge, MA	DE-FG02-02ER45978 03/31/2009 Silvera	SC-22.22	Experimental and Theoretical Study of Confined Charged Fermions: Multielectron Bubbles	149
HARVARD COLLEGE Cambridge, MA	DE-FG02-01ER45921 03/14/2011 Parks	SC-22.21	Electron Diffraction Determination of Nanoscale Structures	120
HARVARD COLLEGE Cambridge, MA	DE-FG02-00ER45852 01/31/2011 Whitesides	SC-22.23	Dynamic Self-Assembly, Emergence, and Complexity	260
HARVARD COLLEGE Cambridge, MA	DE-FG02-98ER45724 11/14/1999 Evans	SC-22.21	Oxide/Metal Interfaces and Their Role in the Performance of Coated Components For Automotive and Power Applications	-120
HARVARD COLLEGE Cambridge, MA	DE-FG02-07ER41513 08/31/2008 Stubbs	SC-25	Developing the Optimal Technique for Cluster Photometric Redshift Determination: An Essential Ingredient in Measuring Dark Energy with Cluster	50
HARVARD MEDICAL SCHOOL Boston, MA	DE-FG02-02ER63445 11/30/2011 Church	SC-23.2	Microbial Ecology, Proteogenomics and Computational Optima	3,055
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-88ER45379 02/14/2010 Pershan	SC-22.23	Surface Studies of Liquid Metal: Electronic and Tokamak Interests	249
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-05ER46226 08/14/2008 Kaxiras	SC-22.22	Multiscale Studies of the Formation and Stability of Surface-Based Nanostructures	30
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-91ER40654 10/31/2011 Franklin, Strominger	SC-25	Research in High Energy Physics	2,410
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-02ER15316 04/14/2011 Doyle	SC-22.11	Ultracold Molecules: Physics in the Quantum Regime	168
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-84ER13289 11/30/2009 Friend	SC-22.1	Exploiting Metastable Oxygen on Gold Surfaces for the Selective Functionalization of Olefins	160
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-88ER13861 03/31/2009 Dalgarno	SC-22.1	Theoretical Investigations of Atomic Collision Physics	104
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-03ER15384 01/31/2009 Martin	SC-22.1	Growth and Dissolution of Iron and Manganese Oxide Films	99
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-04ER63922 10/14/2006 Laub	SC-23.2	Global Analysis of Two-Component Signal Transduction Systems in <i>Caulobacter crescentus</i>	-881

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-02ER45977 12/31/2010 Chen	SC-22.22	Heat Conduction in Nanowire Structures	140
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46134 04/30/2010 Lee	SC-22.21	A Unified Effort for Crystal Growth, Neutron Scattering, and X-ray Scattering Studies of Novel Correlated Electron	270
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46149 05/31/2011 Benedek	SC-22.23	Self-Assembling Biological Springs: Force Transducers on the Micron and Nanoscale	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER46076 11/30/2009 Lee	SC-22.22	Strongly Correlated Electronic Systems: Local Moments and Conduction Electrons	140
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER46241 10/31/2009 Chen	SC-22.23	High Throughput Screening of Nanostructured Hydrogen Storage Materials	685
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER46253 08/31/2011 Ceder	SC-22.22	Thermodynamics and Kinetics of Phase Transformations in Hydrogen Storage Materials	350
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER41519 02/28/2009 Fisher	SC-25	Experimental Studies of a Neutron Tagger and Shield for Dark Matter	70
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER45778 07/31/2009 Joannopoulos	SC-22.22	Design and Fabrication of Photonic Crystals for Thermal Energy Conservation	199
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-96ER45571 08/31/2010 Ceder	SC-22.22	First Principles Determination of Structure, Thermodynamics, and Transport in Metals and Oxides	161
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-90ER45429 10/31/2011 Chen	SC-22.23	Neutron and X-Ray Scattering Studies of the Liquid-Liquid Transition in Supercooled Confined Water and the Slow	329
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER41420 06/30/2009 Formaggio	SC-26.1	OJI - Probing the Absolute Mass Scale	191
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER41444 03/14/2011 Negele	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	235
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER41360 10/31/2010 Milner	SC-25	Laboratory for Nuclear Science - High Energy Physics Program	9,376
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54563 11/30/2011 Porkolab	SC-24.2	Fast Particle-Wave Interaction and Alfvén Eigenmodes in the JET Tokamak Plasma	127
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-99ER54512 10/31/2013 Marmar, Porkolab, Hutchinson	SC-24.2	Alcator C-Mod Fusion Research Program	20,251

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54525 03/14/2011 Bonoli	SC-24.2	Full-wave Studies of High Harmonic Heating in NSTX with Application to Transport Analysis, Fast Ion Interactions and	50
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54521 03/14/2009 Ram	SC-24.2	Heating and Current Drive in NSTX with Electron Bernstein Waves and High Harmonic Fast Waves	99
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54186 11/14/2012 Minervini	SC-24.2	Fusion Development and Technology	628
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54209 11/30/2009 Temkin	SC-24.2	Electron Cyclotron Resonance Heating Technology Development	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER54109 11/14/2011 Catto	SC-24.2	Theoretical Research in Advanced Physics and Technology	1,203
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER54458 10/31/2009 Kesner	SC-24.2	Levitated Dipole Experiment	809
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER54235 12/14/2010 Porkolab, Woskov, Whyte	SC-24.2	Experimental Research in Advanced Physics and Technology	601
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-04ER54786 07/31/2009 Porkolab	SC-24.2	MIT Participation in The Center for Multiscale Plasma Dynamics	62
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-04ER54802 02/14/2011 Sugiyama	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-01ER54648 03/31/2011 Bonoli	SC-24.2	Center for Simulation of Wave-Plasma Interactions	204
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER54700 03/31/2009 Coppi	SC-24.2	Physics of High Energy Plasmas	412
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46454 08/31/2010 Bawendi	SC-22.22	Probing Nanocrystal Electronic Structure and Dynamics in the Limit of Single Nanocrystals	200
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46474 08/31/2010 Baldo	SC-22.23	High Efficiency Biomimetic Organic Solar Cells	258
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-93ER61677 08/14/2010 Stone, Marotzke	SC-23.3	Coupled Atmosphere-Ocean Models	185
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER61937 12/14/2010 Prinn, Jacoby	SC-23.3	An Integrated Framework for Climate Change Assessment	600



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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER54836 07/31/2011 Chen	SC-24.2	Exploration of Plasma Jets Approach to High Energy Density Physics	70
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54855 01/14/2011 Ramos	SC-24.2	SciDAC - Simulation of Wave Interactions with MHD	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER54891 07/31/2009 Hutchinson	SC-24.2	Interactions of a Flowing Plasma with a Collecting Sphere	50
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER54878 07/14/2009 Egedal-Pedersen	SC-24.2	Laboratory Studies of Reconnection in Magnetically Confined Plasmas	178
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54859 01/14/2011 Sugiyama	SC-24.2	SciDAC - Center for Plasma Edge Simulation	70
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-01ER63257 09/14/2009 Lindzen	SC-23.3	Mechanistically Based Diagnostics and Parameterizations for Climate Models	429
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG07-02ER63490 09/14/2006 Rothman	SC-23.4	Multiphase Flow in Complex Fracture Apertures Under a Wide Range of Flow Conditions	-2
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER14914 12/14/2010 Green, Jr.	SC-22.11	Computer-Aided Construction of Chemical Kinetic Models	130
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER14988 10/31/2010 Tokmakoff	SC-22.11	Structural Dynamics in Complex Liquids Studied with Multidimensional Vibrational Spectroscopy	220
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-97ER14760 06/30/2009 Evans	SC-22.1	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	317
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-00ER15087 12/31/2010 Nelson	SC-22.1	Nonlinear Photoacoustic Spectroscopies Probed by Ultrafast EUV Light	145
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER15015 09/14/2007 Stephanopoulos	SC-22.23	Enhancing Biopolymer Synthesis by Combinatorial Metabolic Engineering of Photosynthetic Cyanobacteria	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER15004 01/14/2012 Rothman	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	167
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-00ER15041 06/30/2003 Toksoz	SC-22.1	Fluid Mobility Estimation from Electrostatic Measurements: Laboratory, Field, and Theoretical Study	-1
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-87ER13671 10/31/2011 Field	SC-22.11	Spectroscopic and Dynamical Studies of Highly Energized Small Polyatomic Molecules	160

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-86ER13564 11/30/2009 Schrock	SC-22.1	The Living Polymerization of 1,6-Heptadiynes	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15728 06/14/2011 Shao-Horn	SC-22.12	Activity and Stability of Nanoscale Oxygen Reduction Catalysts	190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15745 10/31/2011 Nocera	SC-22.13	Hangman Catalysts for Photo- and Photoelectro- Chemical Activation of Water	210
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15665 05/14/2009 Ceyer	SC-22.1	An Exploration of Catalytic Chemistry on Au/Ni(111)	148
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER40648 11/30/2009 Temkin	SC-25	17 GHz High Gradient Accelerator Research	305
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER40818 10/31/2010 Milner	SC-26.1	Research in Nuclear Physics	9,868
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-95ER40919 03/31/2010 Chen	SC-25	Theoretical and Computational Investigation of Periodically Focused Intense Charged Particle Beams	180
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER15839 11/30/2009 Durham	SC-22.12	Rheological Properties of Earth's Lithosphere: Experimental Constraints on Low-Temperature Plasticity of Olivine-Rich Rocks at High Pressures	40
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER25631 09/14/2008 Edelman	SC-21.1	PetaScale Application Development Analysis	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER25647 09/14/2008 Demaine	SC-21.1	Geometric Folding Algorithms	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER25681 08/14/2010 Negele	SC-21.1	Scientific Discovery with the Blue Gene/L	292
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER25355 03/14/2008 Ghoniem	SC-21.1	Lagrangian Simulation of Combustion	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER64379 08/31/2008 Laub	SC-23.2	Global Analysis of Two-Component Signal Transduction Systems in <i>Caulobacter</i> <i>Crescentus</i>	873
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER64465 08/14/2010 Emanuel	SC-23.3	Collaborative Research: The Influence of Cloud Microphysics and Radiation on the Response of Water Vapor and Clouds to Climate Change	113
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER64506 08/31/2010 DeLong	SC-23.2	Microbial Gene Expression in the Ocean: Community Gene Function and Dynamics Revealed	999

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MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER63978 12/14/2007 Woskov	SC-23.4	Millimeter-Wave High Level and Low Activity Waste Glass Research	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER63980 06/30/2008 Molina	SC-23.3	Characterization of Fine Particulate Matter (PM) and Secondary PM Precursor Gases in the Mexico City Metropolitan Area	175
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER64053 05/14/2009 Engelward	SC-23.2	Mechanisms of Low Dose Radio-Suppression of Genomic Instability	397
MASSACHUSETTS, UNIV. OF-LOWELL Lowell, MA	DE-FG02-94ER40848 03/31/2011 Chowdhury	SC-26.1	Single-Particle and Collective Phenomena in Nuclei	153
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-92ER40715 12/31/2009 Willcoq	SC-25	Experimental Elementary Particle Physics Research	467
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-88ER40415 12/31/2011 Miskimen, Kumar	SC-26.1	Precision Studies of QCD and Electro-Weak Interactions	444
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER15918 08/14/2010 Conner, Auerbach	SC-22.1	Nanostructured Basic Catalysts: Opportunities for Renewable Fuels	155
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-05ER15695 11/14/2011 Barnes	SC-22.12	Chemical Microscopy of Conjugated Molecules and Hybrid Nanostructures	145
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-05ER15740 08/14/2009 Boutt	SC-22.12	Quantifying the Micromechanical Effects of Variable Cement in Granular Porous Media	40
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-03ER15421 08/14/2009 Baskin	SC-22.13	Cellulose and the Control of Growth Anisotropy	114
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-87ER13744 05/31/2011 Jackson	SC-22.11	Theory of the Reaction Dynamics of Small Molecules on Metal Surfaces	125
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-91ER14192 05/31/2009 Westmoreland	SC-22.11	Probing Flame Chemistry with MBMS, Theory, and Modeling	150
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FC02-02ER63446 08/31/2010 Lovley	SC-23.2	Genome-Based Models to Optimize In Situ Bioremediation of Uranium and Harvesting Electrical Energy from Waste Organic Matter	2,000
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-02ER63423 07/31/2008 Lovley	SC-23.4	Nanowires, Capacitors, and Other Novel Outer-Surface Components Involved in Electron Transfer to Fe(III) Oxides in	347
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-99ER62844 10/31/2004 Frasier	SC-23.3	4D-Radar/Acoustic Measurement of Atmospheric Turbulence in the Stable Boundary Layer	-22

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MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-98ER62604 06/30/2010 Bradley	SC-23.3	Regional-Scale Climate Variability on Decadal to Multi-Century Timescales	109
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER46466 08/31/2010 Monson	SC-22.22	Modeling the Self-Assembly of Ordered Nanoporous Materials	185
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER46407 07/31/2010 Maroudas	SC-22.22	Surface Engineering by Simultaneous Action of Multiple External Fields	214
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-96ER45612 06/14/2010 Russell	SC-22.23	Interfacial Behavior of Polymers: Using Interfaces to Manipulate Polymers	354
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-04ER46126 03/14/2011 Russell	SC-22.21	Interfacial Assembly and Chemical Activity of Nanoparticles	115
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER64377 03/14/2010 Lovley	SC-23.4	Molecular Analysis of Rates of Metal Reduction and Metabolic State of Geobacter Species During In Situ Uranium Bioremediation	287
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER64367 03/14/2010 Lovley	SC-23.4	Coupling in Silico Microbial Models with Reactive Transport Models to Predict the Fate of Contaminants in the Subsurface	291
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-06ER64203 02/29/2008 Baker	SC-23.3	Climate Change Technology R&D Portfolio Decision Making Under Uncertainty	147
MASSACHUSETTS, UNIVERSITY OF Amherst, MA	DE-FG02-07ER64493 02/29/2008 Lovley	SC-23.4	Role of U(VI) Adsorption in U(VI) Reduction by Geobacter Species	39
MASSACHUSETTS, UNIVERSITY OF Boston, MA	DE-FG02-03CH11172 03/31/2009 Antonak	SC-23	Infrastructure Enhancement for UMASS Boston Venture Development Center	0
MASSACHUSETTS, UNIVERSITY OF Boston, MA	DE-FG02-04ER15585 10/31/2008 Licht	SC-22.12	Alkaline Fe (VI) Electrochemistry and Charge Storage	0
MASSACHUSETTS, UNIVERSITY OF Worcester, MA	DE-FG02-03ER63602 12/30/2007 Hnatowich	SC-23.2	Targeting Cancer with Radiolabeled Antisense Oligomers	0
MOUNT HOLYOKE COLLEGE South Hadley, MA	DE-FG02-90ER40553 01/31/2010 Sutton	SC-25	Physics at BaBar and Double Beta Decay	26
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46400 07/14/2010 Karma	SC-22.22	Bridging Atomistic and Continuum Scales in Phase-Field Modeling of Solid-Liquid Interface Dynamics and Coalescence	117
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46352 12/14/2009 Bansil	SC-22.22	Electronic Structure, Spectroscopy, and Correlation Effects in Novel Materials	235

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NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER64370 03/14/2010 Epstein	SC-23.4	Role of Microbial Synergies in Immobilization of Metals	264
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER64507 08/31/2010 Epstein	SC-23.2	To Bioethanol Through Genomics of Microbial Synergies	349
TUFTS UNIVERSITY Medford, MA	DE-FG02-05ER15730 09/14/2011 Flytzani-Stephanopou	SC-22.12	Nanostructured, Metal-ion Modified Ceria and Zirconia Oxidation Catalysts	380
TUFTS UNIVERSITY Medford, MA	DE-FG02-06ER15799 06/30/2009 Rybak-Akimova	SC-22.12	Mechanism-Based Design of Biomimetic Green Oxidation Catalysts	139
TUFTS UNIVERSITY Medford, MA	DE-FG02-92ER40702 01/14/2012 Mann, Schneps	SC-25	High Energy Physics at Tufts University	825
TUFTS UNIVERSITY Medford, MA	DE-FG02-07ER15900 08/31/2009 Garven	SC-22.12	Physiochemical Evidence of Faulting Processes and Modeling of Fluid Flow in Evolving Fault Systems in Southern	226
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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-89ER14074 02/28/2010 Veblen	SC-22.12	Crystal Chemistry of Toxic Metal Sequestration	250
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-91ER14189 06/14/2011 Yarkony	SC-22.1	Theoretical Studies of the Reactions, and the Spectroscopy of Radical Species Relevant to Combustion Reactions and	140
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14662 11/14/2011 Meyer	SC-22.13	Electron Transfer Dynamics in Efficient Molecular Solar Cells	125
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14619 08/31/2007 Garven	SC-22.1	Physiochemical Evidence of Faulting Processes and Modeling of Fluid Flow in Evolving Fault Systems in Southern	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14616 03/31/2011 Sverjensky	SC-22.12	Predictive Single-Site Protonation and Cation Adsorption Modeling	162
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-05ER15727 07/14/2011 Erlebacher	SC-22.12	Engineering Catalytic Nanoporous Metals for Reactions Important to the Hydrogen Economy	115
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER25578 09/14/2008 Cohen	SC-21.1	A Level-of-Detail Approach to Cluster-based Visualization	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-04ER25626 08/31/2008 Paulaitis	SC-21.1	Institute for Multiscale Modeling and Analysis of Complex Interactions in Biology	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-06ER15831 06/30/2008 Jahren	SC-22.12	Development of New Biomarkers for Surficial Earth Processes	104
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FC02-06ER14154 08/31/2007 Kasen	SC-25	Computational Astrophysics Consortium: 3. Supernovae, Gamma Ray Bursts, and Nucleosynthesis	50
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER41271 09/30/2008 Kaplan	SC-25	High-Energy Physics Outstanding Junior Investigator Program	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER41506 08/31/2008 Kaiser	SC-25	Calibration Monitor for Dark Energy Experiments	200
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER41507 08/31/2008 Bennett	SC-25	Advanced Dark Energy Physics Telescope (ADEPT)	100
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-95ER45538 01/31/2009 Bowen	SC-22.21	Toward the Development of Cluster-Based Materials	128
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER46090 09/30/2007 Spicer	SC-22.23	Theory and Modeling of Laser ultrasonic Interactions with Grain Boundaries	0

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JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER46056 01/31/2010 Ma	SC-22.22	Amorphous Structures and Polymorphic Transitions in Metallic Glasses	180
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-99ER54523 02/28/2009 Finkenthal	SC-24.2	USXR Based MHD, Transport, Equilibria and Current Profile Diagnostics for NSTX	313
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46465 05/14/2010 Katz	SC-22.23	New Energy-Efficient Circuit Elements Incorporating Organic Semiconductors and Dielectrics with Stored Electric Fields	219
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-86ER53214 12/31/2010 Finkenthal	SC-24.2	USXR-XUV Diagnostics for Edge and Core of Magnetically Confined Plasmas	401
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46437 08/14/2011 Hemker	SC-22.22	Stress-Coupled Grain Boundary Migration	136
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-04ER63736 12/31/2005 Sugarman	SC-23.2	Accessible Genetics Research Ethics Education (AGREE): A Web-Based Program for IRBs and Investigators	-6
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER64387 03/31/2010 Ward	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	33
MARYLAND, UNIV OF BIOTECH INST Baltimore, MD	DE-FG02-07ER64502 09/14/2010 Orban	SC-23.2	Annotation of Novel Enzymatic Functions in Methanogens	1,200
MARYLAND, UNIV OF BIOTECH INST Baltimore, MD	DE-FG02-04ER63787 07/14/2008 Moult	SC-23.2	A Combined Informatics and Experimental Strategy for Improving Protein Expression	0
MARYLAND, UNIV OF BIOTECH INST Baltimore, MD	DE-FG02-93ER20106 08/31/2008 Sowers	SC-22.13	Physiology and Genetics of Biogenic Methane-Production from Acetate	0
MARYLAND, UNIV. OF/BALT. CO. Baltimore, MD	DE-FG02-07ER64354 03/14/2009 Norris	SC-23.3	Evaluation of GCM Column Radiation Models Under Cloudy Conditions With the ARM BBHRP Value Added Product	130
MARYLAND, UNIVERSITY OF Baltimore, MD	DE-FG02-99ER62859 08/31/2006 Morgan	SC-23.2	Genetic Factors Affecting Susceptibility to Low-Dose Radiation	-33
MARYLAND, UNIVERSITY OF Baltimore, MD	DE-FG02-05ER64082 06/30/2008 Morgan	SC-23.2	A Mechanistic Study of the Radiation Quality Dependence of Bystander Effects in Human Cells	187
MARYLAND, UNIVERSITY OF Baltimore, MD	DE-FG02-07ER64339 11/30/2009 Baulch	SC-23.2	Identification and Characterization of Soluble Factors Involved in Delayed Effects of Low Dose Radiation	100
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER64437 07/14/2011 Kalnay	SC-23.3	Carbon Data Assimilation with a Coupled Ensemble Kalman Filter	180

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-04ER25619 08/31/2011 Elman	SC-21.1	Navier-Stokes Solvers and Generalizations for Reacting Flow Problems	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-04ER25655 01/14/2009 O'Leary, Tits	SC-21.1	Interior Point Algorithms for Optimization Problems With Many Constraints	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15916 08/31/2009 Zhu	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	129
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15882 06/30/2008 Davis	SC-22.12	Calix 2007: The Ninth International Conference on Calixarene Chemistry (August 6-9, 2007)	10
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER15883 08/31/2010 Sze	SC-22.13	Integrating Cation Transport and pH Across Endomembranes With the Secretory System	140
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-97ER41039 06/14/2009 Milchberg	SC-25	Application of Plasma Waveguides to Advanced High Energy Accelerators	247
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-97ER41015 10/31/2009 Hadley, Skuja	SC-25	High Energy Accelerator and Colliding Beam User Group	1,756
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-96ER40949 04/30/2009 Dragt	SC-25	Advanced Methods for the Computation of Particle Beam Transport & Computation of Electromagnetic Fields & Beam-Cavity	40
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-94ER40834 01/31/2009 Walters	SC-26.1	Nuclear Structure Research	245
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-94ER40855 06/30/2009 O'Shea, Haber	SC-25	Accelerator Research Studies	860
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER40762 11/30/2010 Wallace	SC-26.1	Theoretical Studies in Hadronic and Nuclear Physics	685
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER40802 04/30/2009 Mignerey	SC-26.1	Reaction Mechanism Studies of Heavy-Ion Induced Nuclear Reactions	235
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-07ER25812 02/29/2012 Sussman	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	62
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-06ER25763 12/14/2011 Hollingsworth	SC-21.1	Performance Engineering Research Center (PERC-3)	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-01ER15227 10/31/2008 Trouve	SC-22.1	Terascale High-Fidelity Simulations of Turbulent Combustion with Detailed Chemistry	80



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MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-98ER14888 10/31/2011 Davis	SC-22.12	Self-Assembled Ionophores: Continuing in New Directions	135
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-01ER63247 02/14/2007 Baer	SC-23.3	Multi-Resolution Climate Modeling - SciDAC	0
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-01ER63197 08/31/2009 Fox-Rabinovitz	SC-23.3	Collaborative Research: Decadal-to-Centennial Climate & Climate Change Studies with Enhanced Variable &	186
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER54944 07/31/2010 Antonsen	SC-24.2	Interaction of Radiation and Charged Particles in Miniature Plasma Structures	105
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER46441 08/14/2010 Yang	SC-22.22	Suspensions of Monodisperse Nanoparticles as Model Systems for Probing Heat Transfer Mechanisms in Nanofluids	146
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-02ER54672 06/14/2009 Haber	SC-24.2	Heavy Ion Ignition Accelerator Theory and Simulation	103
MARYLAND, UNIVERSITY OF College Park, MD	DE-FC02-04ER54784 07/31/2009 Dorland	SC-24.2	The Center for Multiscale Plasma Dynamics	498
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-93ER54197 12/31/2010 Dorland	SC-24.2	Maryland Controlled Fusion Research	597
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-92ER54178 08/14/2011 Kishek, Reiser, O'Shea	SC-24.2	Physics of Beams at Extreme Intensity for Heavy Ion Inertial Fusion	233
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-95ER54325 01/14/2011 Nusinovich, Granatstein	SC-24.2	Theory of Gyrotrons for Controlled Fusion Reactors	149
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-99ER54516 01/31/2010 Hassam	SC-24.2	Theoretical Considerations for Centrifugally Confined Plasmas	85
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-00ER54605 11/30/2010 Ellis	SC-24.2	The Maryland Centrifugal Experiment (MCX): Centrifugally Confined Plasmas for Magnetic Fusion	446
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-07ER41489 07/31/2010 Nusinovich	SC-25	High Gradient Accelerating Structures	195
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-05ER46227 08/14/2008 Einstein	SC-22.22	Multiscale Studies of the Formation and Stability of Surface-Based Nanostructures	30
MARYLAND, UNIVERSITY OF College Park, MD	DE-FG02-02ER45975 06/30/2011 Culver	SC-22.23	Virus Assemblies as Templates for Nanocircuits	106

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MONTGOMERY COLLEGE Rockville, MD	DE-FG02-06CH11429 09/30/2013 McLean	SC-23	Biotechnology Project	0
MORGAN STATE UNIVERSITY Baltimore, MD	DE-FG02-03ER63580 08/14/2008 Kennedy, Hill	SC-23.2	Development of Fluorescent Microsensors to Determine the Activity of Intracellular Proteins	0
			Total for MD :	11,917

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MAINE, UNIVERSITY OF Orono, ME	DE-FG02-07ER46373 06/30/2010 Pendse	SC-22.21	Thermochemical Conversion of Woody Biomass to Fuels and Chemicals	500
Total for ME :				500

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2007
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FG02-03ER15489 11/14/2009 Jackson	SC-22.11	Computational Nanophotonics: Modeling Optical Interactions and Transport in Tailored Nanosystem Acrhitectures	100
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-04ER63933 08/31/2009 Garrity	SC-23.2	Pipelining RDP Data to the "Taxomatic"	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-04ER63923 08/31/2008 Tiedje	SC-23.2	Exploring the Genome and Proteome of Desulfitobacterium Hafniense DCB2 for its Protein Complexes Involved in Metal	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64365 03/14/2010 Marsh	SC-23.4	Monitoring Uranium Transformations Determined by the Evolution of Biogeochemical Processes	16
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64381 03/14/2008 Walton	SC-23.2	2007 24th Annual Fungal Genetic Meeting (March 20-25, 2007)	8
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64389 05/31/2010 Tiedje	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	350
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64398 03/14/2010 Tiedje	SC-23.4	Metagenomics-Enabled Understanding of the Functions and Activities of Microbial Communities at ERSP Field Research Center	395
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41501 07/14/2008 Thoennesen	SC-26.1	Sixth Summer School on Exotic Beam Physics (August 6-11, 2007)	10
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41461 05/31/2007 Grimm	SC-26	Development of Advanced Concepts for the Efficient RF Control of RIA Superconducting Cavities and the	25
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41472 04/30/2008 Kostin	SC-26.2	Measuring Radiation Damage from Heavy Energetic Ions in Aluminum	50
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41473 04/30/2009 Kostin	SC-26.2	Development of Parallel Computing Framework to Enhance Radiation Transport Code Capabilities for Rare Isotope Beam	98
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41474 04/30/2009 Ronningen	SC-26.2	Optimization Studies for ISOL Type High-Powered Targets	28
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41475 04/30/2009 Ronningen	SC-26.2	Studies of Limits on Uncontrolled Heavy Ion Beam Losses for Allowing Hands-On Maintenance in a Rare Isotope Beam	103
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER41479 05/31/2009 York	SC-26.2	Beam-Loss Studies for Rare-Isotope Driver Linacs	40
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-97ER45651 05/31/2009 Billinge, Thorpe	SC-22.21	Nanostructure Determination by Co-Refining Models to Multiple Data-Sets	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-99ER45793 08/31/2006 Kanatzidis	SC-22.23	Metal Flux Synthesis of Heterometallic Aluminum Silicides	-107
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER41411 10/31/2008 Grimm	SC-26.1	Half-Reentrant Reduced-Beta SRF Elliptical Cavities	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER41412 04/30/2008 Grimm	SC-26.1	RIA Superconducting Drift Tube Linac R&D	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER41413 04/30/2009 Bollen	SC-26.2	Development of a Fast Cyclotron Gas Stopper for Rare Isotope Beams from Projectile Fragmentation: Study of Ion	250
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER41414 04/30/2009 Zeller	SC-26.2	Design and Construction of a Radiation Resistant Quadrupole using Metal Oxide Insulated CICC	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER41433 08/31/2008 Bieler	SC-25	Relationships Between Deformation & Microstructure Evolution	50
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-03ER41259 05/31/2009 Pratt	SC-26.1	Determining Properties of Matter Created at RHIC	90
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-05ER46211 05/31/2011 Mackay	SC-22.23	Nanoparticles Stabilize Thin Polymer Films; A Fundamental Study to Understand the Phenomenon	150
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46309 07/31/2009 Ruan	SC-22.21	Ultrafast Dynamics of Nano-Interfaces	145
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46341 08/31/2009 Birge	SC-22.22	Novel Behavior of Ferromagnet/Superconductor Hybrid Systems	130
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-99ER62848 08/31/2009 Tiedje	SC-23.2	The Ribosomal Database Project: Tools and Sequences for Microbial Analysis	350
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-02ER63342 07/31/2008 Tiedje	SC-23.2	Integrated Analysis of Protein Complexes and Regulatory Networks Involved in Anaerobic Energy Metabolism of Shewanella	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER62535 11/14/2007 Tiedje	SC-23.3	Molecular Approaches to Understanding C and N Dynamics in Marine Sediments and Their Role in Global Carbon Cycling	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-87ER13729 05/31/2009 Ohlrogge, Pollard	SC-22.13	Understanding Acyl Chain and Glycerolipid Metabolism in Plants	114
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15143 12/31/2007 Dantus	SC-22.1	Probing and Controlling Intense Laser-Matter Interactions Using Phase, Amplitude and Polarization Shaped Femtosecond Pulses	125

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MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15120 06/30/2008 Swain	SC-22.1	Advanced Electrocatalytic Carbon Electrodes for PEMFCs	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15228 05/31/2010 Piecuch	SC-22.1	New Single-and Multi-Reference Coupled-Cluster Methods for High Accuracy Calculations of Ground and Excited States	120
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15282 08/14/2009 McCusker	SC-22.13	First-Row Transition Metal-Based Chromophores for Dye-Sensitized Solar Cells: Fundamental Issues and	130
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-99ER15001 08/31/2008 Blanchard	SC-22.1	Nanoporous Structures for Rapid Size - and Stereo-Selective Chemical Separations	130
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER14907 07/31/2010 Bruening	SC-22.1	Exploring New Methods and Materials in the Formation of Selective, High-Flux Membranes for CO2 Removal	140
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-91ER20021 12/31/2011 Thomashow	SC-22.13	Interdisciplinary Research and Related Training Program in the Plant Sciences	4,085
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER15854 02/29/2012 Mantica	SC-22.12	Support for the American Chemical Society's Summer Schools in Nuclear and Radiochemistry	234
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15822 08/31/2009 Geiger	SC-22.13	Structure, Function, and Regulation of the Enzymes in the Starch Biosynthetic Pathway	114
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15808 07/31/2009 Osteryoung	SC-22.13	Functional Analysis of ARC6 and Ftn2, Orthologous Regulators of Chloroplast and Cyanobacterial Cell Division	123
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER20305 07/31/2010 Benning	SC-22.13	Regulation of Thylakoid Lipid Biosynthesis in Plants	160
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-95ER40931 03/14/2008 Berz	SC-25	Advanced Map Methods for the Description of Particle Beam Dynamics	335
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER41070 06/30/2010 Westfall	SC-26.1	Study of the QCD Phase Diagram using STAR at RHIC	204
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-99ER41107 04/14/2011 Nitz	SC-25	Studies of High Energy Particle Astrophysics	225
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-92ER14282 10/31/2007 Beck	SC-22.1	Properties of Transition Metal Atoms and Ions	40
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-95ER62125 03/31/2012 Burton, Pregitzer	SC-23.3	Impacts of Interacting Elevated Atmospheric CO2 & O3 on the Structure & Functioning of a Northern Forest	1,592

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MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-04ER63792 03/31/2008 Karnosky	SC-23.2	An Integrated Functional Genomics Consortium to Increase Carbon Sequestration in Poplars: Optimizing Aboveground Carbon Gain	55
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-04ER63821 12/31/2007 Mullins	SC-23.2	Michigan Technological University Center for Nanostructure and Light Weight Materials - Fuel Cells Research	0
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-06ER46294 07/31/2010 Yap	SC-22.22	Hetero-Junctions of Boron Nitride and Carbon Nanotubes: Synthesis and Characterization	135
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FC02-06ER64158 11/30/2010 Burton	SC-23.3	Midwestern Regional Center of the National Institute for Climatic Change Research	1,521
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-06ER64151 11/14/2009 Busov	SC-23.2	Genome-Enabled Modification of Poplar Root Development for Increased Carbon Sequestration	145
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-05ER64109 08/14/2009 Busov	SC-23.2	Genetic Modification of Gibberellic Acid Signaling to Promote Carbon Sequestration in Tree Roots and Stems	70
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-05ER64112 05/21/2008 Harding	SC-23.2	A Genomics Investigation of Partitioning Into and Among Flavonoid-Derived Condensed Tannins for Carbon Sequestration in Populus	478
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER64446 07/31/2011 Rood	SC-23.3	Subgrid-Scale Mixing in Climate Models: A Novel Look at Diffusion, Accuracy, Stability and Climate Sensitivity	456
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46273 01/31/2009 Clarke	SC-22.22	Synchrotron Radiation Studies of Materials Dynamics	159
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46339 08/14/2009 Goldman	SC-22.21	Determining the Origins of Electronic States in Semiconductor Nanostructures	120
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER46172 08/31/2010 Mirecki-Millunchick	SC-22.22	Mechanisms for Surface Segregation in Compound Semiconductor Thin Films	150
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-05ER46191 08/14/2008 Thornton	SC-22.23	The Evolution of Topologically Complex Structures: Coarsening of Dendritic Mixtures	36
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-03ER46062 05/31/2008 Zikanov	SC-22.23	Large-Eddy Simulations of Anisotropic MHD Turbulence	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-03ER46094 11/14/2009 Glotzer	SC-22.22	Integrated Multiscale Modeling of Molecular Computing Devices	110
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-02ER46000 11/30/2011 Glotzer	SC-22.23	Simulation of Self-Assembly of Tethered Nanoparticle Shape Amphiphiles	150

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MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-02ER46005 11/30/2009 Wang	SC-22.22	Nanostructure Patterning under Energetic Particle Beam Irradiation	165
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-00ER45851 08/31/2007 Kaviany	SC-22.23	Structural Metrics for Low Thermal Conductivity Porous Crystals	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER41331 07/14/2010 Chupp	SC-26.1	CP Odd Electric Dipole Moment Measurements with Rare Isotopes: The Radon-EDM Experiment	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER45656 01/31/2011 Ewing	SC-22.22	Particle-Induced Modification of Complex Ceramics: Response of Materials to Extreme Conditions	250
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-94ER45526 11/30/2007 Campbell	SC-22.22	Unconventional Magnetism in Low Carrier Density Materials and Nanoparticle Composites	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-01ER63248 09/14/2011 Penner	SC-23.3	Development of an Atmospheric Climate Model with Self-Adapting Grid and Physics	505
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-02ER63479 08/31/2007 Kilbourn	SC-23.2	In Vivo Radionuclide Imaging of Mesenchymal Stem Cells	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER62370 12/14/2010 Penner	SC-23.3	Cloud/Aerosol Parameterizations: Application and Improvement of General Circulation Models	142
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-93ER61666 08/14/2009 Zak	SC-23.3	Ecosystem Response to Elevated Tropospheric Carbon Dioxide (CO2) and Ozone (O3) is Regulated by Plant-Microbe	400
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46412 08/14/2011 Green	SC-22.23	Thin Film Polymer Nanoparticle Composites: Morphology and Dynamics	230
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46416 07/31/2010 Pan	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures	150
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46379 05/31/2010 Allen	SC-22.21	Synchrotron Studies of Quantum Emergence in Non-Low Dimensional Materials	162
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-04ER54788 07/31/2008 Gombosi	SC-24.2	The Center for Multiscale Plasma Dynamics	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-99ER14972 11/14/2009 Raithel	SC-22.11	Interactions of Cold Rydberg Atoms in a High-Magnetic-Field Atom Trap	130
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-01ER15229 10/31/2008 Im	SC-22.1	Terascale High-Fidelity Simulations of Turbulent Combustion with Detailed Chemistry	85



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MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-00ER15031 02/28/2009 Reis	SC-22.1	Ultrafast X-Ray Coherent Control	150
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER15783 06/30/2009 Ewing	SC-22.12	Actinide Incorporation and Radiation Effects in U(VI) Solids	95
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-05ER15686 08/31/2011 Linic	SC-22.12	Adsorbate-Adsorbate Interactions on Metal Surface: First Principles DFT and ab-initio Thermodynamics Studies of Alkali Promotion in Heterogeneous Catalysis	143
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-05ER15673 08/14/2009 Li	SC-22.13	Perception of Plant Steroid Hormones at the Cell Surface	114
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-95ER40899 10/31/2011 Amidei	SC-25	Properties and Interactions of Elementary Particles	3,627
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-06ER25766 12/14/2011 Honeyman	SC-21.1	Petascale of Data Storage Institute	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15887 07/31/2009 Nielsen	SC-22.13	The Role of RabA4b in Polarized Secretion of Cell Wall Components in Arabidopsis Root Hair Cells	129
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15904 08/31/2010 Ogilvie	SC-22.13	Two-Dimensional Electronic Spectroscopy of Light-Harvesting Complexes	203
RPORATION FOR ADVANCED INT DEV Ann Arbor, MI	DE-FG02-06ER25740 08/14/2009 Summerhill	SC-21.1	Hybrid Multi-Layer Network Control for Emerging Cyber-Infrastructures	49
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-96ER41005 02/28/2009 Karchin	SC-25	Particle Physics Research Program	310
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-92ER40713 04/30/2011 Cormier	SC-26.1	Relativistic Heavy Ion Research	580
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-88ER13944 11/30/2007 Endicott	SC-22.1	Photoinduced Charge and Energy Transfer Processes in Molecular Aggregates	0
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-04ER15593 10/31/2010 Suits	SC-22.11	Universal and State-Resolved Imaging Probes of Chemical Reaction Dynamics	160
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-04ER41320 05/14/2010 Wuosmaa	SC-26.1	Study of Light Exotic Nuclei Using Nucleon Transfer Reactions with Exotic Beams	120
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-99ER45772 12/31/2011 Burns	SC-22.21	X-ray and Transport Studies of Highly Correlated Systems	101

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-02ER45969 01/31/2008 Burns	SC-22.21	Development of a Sector Dedicated to Inelastic X-ray Scattering	0
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-92ER14299 03/14/2011 Berrah	SC-22.11	Probing Complexity Using the ALS and the LCLS	185
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-06CH11371 06/30/2008 Grammer, Emmert	SC-23	Western Michigan University Geosciences Initiative	0
Total for MI :				21,922

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MINNESOTA, UNIVERSITY OF Duluth, MN	DE-FG02-98ER41087 05/31/2010 Hiller	SC-25	Nonperturbative Analysis of Field Theories Quantized on the Light Cone	42
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-94ER40823 10/31/2010 Rusack, Olive	SC-25	Experimental and Theoretical High Energy Physics	2,234
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-87ER40328 01/31/2011 Kapusta, Qian, Heger	SC-26.1	Research in Theoretical Nuclear Physics	320
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER15913 08/31/2010 Gladfelter	SC-22.13	Monodispersed Zinc Oxide Nanoparticle-Dye Dyads and Triads: Characterization of the Early Events in Dye-Sensitized Solar Cells	285
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-95ER20191 07/31/2008 Hooper	SC-22.13	Biochemistry of Ammonia Monooxygenase of Nitrosomonas	114
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER15886 07/31/2010 Ward	SC-22.13	Functional Analysis of Plant Sucrose Transporters	142
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-03ER25585 05/14/2009 Saad	SC-21.1	Scalable Methods for Electronic Excitations and Optical Responses of Nanostructures: Mathematics to Algorithms to Observables	100
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-03ER25569 06/30/2008 Woodward	SC-21.1	Piecewise-Parabolic Methods for Parallel Computation with Applications to Unstable, Turbulent Fluid Flows	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER25706 08/14/2009 Luskin	SC-21.1	Multiscale Design of Advanced Materials Based on Hybrid Ab-Initio and Quasicontinuum Methods	315
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-04ER25629 09/14/2008 Numrich	SC-21.1	Petascale Application Development Analysis	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER15670 08/31/2011 Glazebrook	SC-22.13	Functional Genomics Analysis of Plant Resistance to Pathogens: Impact of the Cell Wall	114
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-04ER15500 11/30/2009 Kohlstedt	SC-22.12	Rheological Properties of Earth's Lithosphere: Experimental Constraints on Low-Temperature Plasticity of Olivine-Rich	184
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-03ER15455 08/31/2009 Que	SC-22.12	Bio-inspired Iron Catalysts for Hydrocarbon Oxidations	143
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-02ER15353 09/14/2009 Olszewski, Hartweck	SC-22.13	Understanding the Role of O-GlcNAc Modifications in Plant Development	114
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-01ER15201 02/28/2008 VandenBosch	SC-22.13	Nodulation Genes of Medicago Truncatula Governing Early Responses to Rhizobia	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-86ER13579 11/30/2010 Truhlar	SC-22.11	Variational Transition State Theory	135
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-88ER13878 06/30/2011 Schmidt	SC-22.1	Biofuels from Biomass by Catalytic Autothermal Reforming	129
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER46348 08/14/2010 Norris	SC-22.23	Modification of Thermal Emission via Metallic Photonic Crystals	238
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER46468 08/31/2010 Zhu	SC-22.23	Extracting Hot or Multiple Charge Carriers from Photoexcited Semiconductor Nanocrystals	150
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER46415 08/31/2010 Kumar	SC-22.23	Hydrodynamic Self-Assembly of Topographical Patterns on Soft Materials	55
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG07-02ER63509 09/14/2005 Arnold	SC-23.4	Reactive Membrane Barriers for Containment of Subsurface Contamination	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-00ER63023 03/15/2007 Bolstad	SC-23.3	Quantifying Carbon Sequestration Potential of Mid- and Late-Successional Forests in the Upper Midwest	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FC02-07ER41471 10/31/2011 Marshak	SC-25	Collaborative Research and Development in Neutrino Physics	1,000
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-02ER46004 08/31/2011 Goldman	SC-22.22	Tunneling and Transport in Nanowires	117
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER46252 02/28/2011 Zhu	SC-22.23	Spectroscopy and Charge Transport at Organic Semiconductor and Organic/Insulator Interfaces	185
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER46310 12/31/2007 Glazman	SC-22.22	Electron Coherence in Mesoscopic Structures	0
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER46275 03/14/2009 Leighton	SC-22.21	A Global Understanding of Magnetic Phase Separation in Doped Cobaltites	126
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-07ER64456 07/31/2011 Reich	SC-23.3	Boreal Ecotone Warming Experiment	988
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-05ER63997 12/31/2010 McMurry	SC-23.3	Growth Rates of Freshly Nucleated Particles	281
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER64223 03/31/2010 Penn	SC-23.4	The Reaction Specificity of Nanoparticles in Solution: Application to the Reaction of Nanoparticulate Iron and Iron-Bimetal	68

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MINNESOTA, UNIVERSITY OF Minneapolis, MN	DE-FG02-06ER64316 08/31/2009 Griffis	SC-23.3	Investigation of Carbon Cycle Processes within a Managed Landscape: An Ecosystem Manipulation and Isotope Tracer Approach	216
Total for MN :				7,795

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
SITY OF SCIENCE AND TECHNOLOGY Rolla, MO	DE-FG02-05ER46245 12/31/2008 Yelon	SC-22.21	In-Situ Neutron Diffraction Studies of Novel Hydrogen Storage Materials	300
SITY OF SCIENCE AND TECHNOLOGY Rolla, MO	DE-FG02-84ER53175 11/30/2008 Olson	SC-24.2	Collisional Processes of Interest in MFE and IFE Plasma Research	100
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-00ER45818 11/30/2009 Satpathy	SC-22.22	Fundamental Studies of Magnetic Oxides from Electronic Structure Calculations	110
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-06ER46307 08/14/2009 Zhang	SC-22.22	Effects of Current on Ferromagnets	105
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46213 12/31/2010 Ullrich	SC-22.22	Charge and Spin Dynamics in Bulk and Heterostructured Dilute Magnetic Semiconductors	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46203 05/31/2011 Vignale	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport in Nanoscale Conductors	100
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-03ER63616 12/14/2007 Deng	SC-23.4	Interfacial Reduction - Oxidation Mechanisms Governing Fate and Transport of Contaminants in the Vadose Zone	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER46381 05/31/2010 Montfrooij	SC-22.21	Designer Phase Transitions in Lithium-Based Spinel	73
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER46411 08/14/2010 Pfeifer	SC-22.23	Networks of Boron-Doped Carbon Nanopores for Low-Pressure Reversible Hydrogen Storage	280
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER15652 06/14/2009 Walker	SC-22.13	A Novel Family of Small Proteins that Affect Plant Development	114
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-04ER15607 05/31/2009 Thompson	SC-22.11	Theoretical Chemical Dynamics Studies of Elementary Combustion React	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-87ER13713 08/31/2011 Wall	SC-22.13	Genetics and Molecular Biology of Hydrogen Metabolism in the Sulfate-reducing Bacteria	147
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-00CH11056 12/31/2008 Butler, Deutsch	SC-23	Improvements and Optimum Utilization of the Research Reactor	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-01CH11098 09/30/2007 Folk, Winship	SC-23	Cancer Research Facilities at the University of Missouri-Columbia	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-06CH11394 08/31/2010 Crist, Montgomery	SC-23	Health Sciences Research and Education Center Planning	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-02ER15309 05/31/2011 Stacey	SC-22.13	Plant Response to LCO/CO Signals	114
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER64126 09/14/2008 Wall	SC-23.4	Identification of Molecular and Cellular Responses of <i>Desulfovibrio vulgaris</i> Biofilms Under Culture Conditions Relevant	42
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER64504 08/31/2009 Meyer	SC-23.2	Growth in Biofuels Markets: Long Term Environmental and Socioeconomic Impacts	299
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER64396 03/31/2010 Wall	SC-23.4	Geochemical, Genetic, and Community Controls on Mercury Methylation	134
MISSOURI, UNIVERSITY OF Kansas City, MO	DE-FG02-84ER45170 10/31/2009 Ching	SC-22.21	Theoretical Studies on the Electronics Structures and Properties of Complex Ceramic Crystals and Novel Materials	146
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-06ER64229 05/31/2009 Giammar	SC-23.4	Coupled Biogeochemical Processes Governing the Stability of Bacteriogenic Uraninite and Release of U(VI) in Heterogeneous	113
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER63972 12/14/2008 Stormo	SC-23.2	Identification and Characterization of Prokaryotic Regulatory Networks	203
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER15902 08/31/2010 Blankenship	SC-22.13	Mechanism of Solar Energy Storage by Chlorosome Antennas of Green Photosynthetic Bacteria	200
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER15878 06/30/2008 Blankenship	SC-22.13	14th International Congress Photosynthesis "Light-Harvesting Systems Workshop" - July 18-21, 2007	5
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER15846 02/14/2008 Blankenship	SC-22.13	Structure, Function and Reconstitution of Antenna Complexes of Green Photosynthetic Bacteria	162
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-04ER25624 12/14/2010 Fried	SC-21.1	Continuum Mechanical and Computational Aspects of Material Behavior	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-99ER20350 08/31/2009 Pakrasi	SC-22.13	Manganese Homeostasis and Photosynthesis in Cyanobacteria	123
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-06ER25737 08/14/2009 Chen	SC-21.1	Efficient Large-Scale Nonlinear Constrained Optimization Using Constraint Partitioning	99
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-87ER40316 12/31/2010 Sobotka	SC-26.1	Studies of Complex Nuclear Decay in Heavy-Ion Reactions	233
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-91ER40628 03/31/2011 Bender, Ogilvie, Bernard	SC-25	Studies in Quantum Field Theory and Astroparticle Physics	602

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-88ER40406 11/30/2011 Sarantites	SC-26.1	Investigations of Nuclear Structure and Nuclear Reactions	340
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER15661 05/14/2011 Holten	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	135
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-02ER15340 10/31/2007 Neff	SC-22.13	Molecular genetic analysis of activation-tagged transcription factors thought to be involved in	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-84ER60218 06/30/2008 Welch	SC-23.2	Labeling of Receptor Ligands and Other Compounds with Halogen Radionuclides	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER41492 08/31/2009 Buckley	SC-25	High Quantum Efficiency AlGaIn/InGaIn Photodetectors	100
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER41375 05/31/2011 Alford	SC-26.1	Signatures of Color Superconductivity in High-Density Quark Matter	105
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER46256 08/31/2011 Conradi	SC-22.22	NMR Hydrogen Storage Systems: Ionic Hydrides and Mobile Species	190
Total for MO :				4,674



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
JACKSON STATE UNIVERSITY Jackson, MS	DE-FG02-97ER25339 09/14/1999 Jung	SC-21.1	Enabling Technology for Building High Performance Distributed Information Storage and Retrieval System	-104
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-06ER46315 08/31/2009 Clay	SC-22.22	Theory of Coexisting Density Waves in Low Dimensional Quarter-Filled Band Molecular Solids	120
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-00ER45830 06/30/2007 French	SC-22.21	Mississippi University Research Consortium for the Utilization of Biomass -- Phase II	0
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41459 11/14/2009 Afanasjevs	SC-26.1	Nuclei at Extreme Conditions: A Relativistic Study	60
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41528 08/31/2010 Dutta	SC-26.1	Electron Detector for the Jefferson Lab Hall C Compton Polarimeter	90
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-04ER41330 08/14/2010 Dunne	SC-26.1	Intermediate Energy Nuclear Physics Program	102
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-04ER15514 01/31/2009 Sygula	SC-22.12	Polynuclear Aromatic Hydrocarbons with Curved Surfaces: Buckybowls	125
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-96ER41006 06/30/2011 Winger	SC-26.1	Nuclear Structure of Exotic Nuclei with Radioactive Ion Beams	71
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-95ER40939 04/30/2010 Ma	SC-26.1	Experimental Nuclear Structure Studies	140
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER64459 08/31/2010 Peng	SC-23.2	Identification of Cell Wall Synthesis Regulatory Genes Controlling Biomass Characteristics and Yield in Rice (Oryza	400
MISSISSIPPI, UNIVERSITY OF University, MS	DE-FG02-05ER64005 12/14/2007 Hussey	SC-23.4	Fission-Product Separation Based on Room-Temperature Ionic-Liquids	0
MISSISSIPPI, UNIVERSITY OF University, MS	DE-FG02-91ER40622 04/30/2010 Cremaldi	SC-25	Experimental Study of Electroweak and Heavy Flavor Physics	479
MISSISSIPPI, UNIVERSITY OF University, MS	DE-FG02-04ER46121 04/30/2008 Bass	SC-22.21	Resonant Ultrasound Studies of Complex Transition Metal Oxides	0
Total for MS :				1,483

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER46477 08/31/2010 Douglas	SC-22.23	Protein Architectures for Photo-Catalytic Hydrogen Production	300
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-06ER46269 12/31/2009 Neumeier	SC-22.21	Linear Thermal Expansion Measurements with Sub-Atomic Resolution for the Study of Phase Transitions in Novel Condensed Matter Systems	143
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-02ER45968 12/31/2007 Lapeyre	SC-22.21	Investigation of the Quantrum Structure of Surfaces with Far UV Excitation Spectroscopies	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-04ER15563 08/31/2010 Peters	SC-22.13	Novel microbial based enzymatic CO2 fixation/carboxylation mechanisms	147
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER64416 05/14/2010 Seymour	SC-23.4	Mechanistically-Based Field-Scale Models of Uranium Biogeochemistry From Upscaling Pore-Scale Experiments and Models	75
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER64366 03/14/2010 Peyton	SC-23.4	Subsurface Uranium Fate & Transport: Integrated Experiments & Modeling of Coupled Biogeochemical Mechanisms of Nanocrystalline Uraninite Oxidation by	312
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-06ER64206 12/14/2009 Gerlach	SC-23.4	Mobility of Source Zone Heavy Metals and Radionuclides: The Mixed Roles of Fermentative Activity on Fate and	197
MONTANA, UNIVERSITY OF Missoula, MT	DE-FG02-01ER45869 12/31/2007 Bromenshenk	SC-22.21	Montana Organization for Research in Energy (MORE) Collaborative Research & Human Resources Program in Basic Electron Transfer Science & Electro-Optic Material	0
MONTANA, UNIVERSITY OF Missoula, MT	DE-FG02-03ER54699 03/31/2009 Ware	SC-24.2	High Beta Stellarator Studies and Cross Phase Dynamics in Turbulent Transport	65
Total for MT :				1,239

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
DAVIDSON COLLEGE Davidson, NC	DE-FG02-04ER25590 10/31/2010 Chartier	SC-21.1	Numerical Methods for Forward and Inverse Problems in Discontinuous Media	0
DUKE UNIVERSITY Durham, NC	DE-FG02-95ER62083 07/31/2009 Oren, Schlesinger	SC-23.3	Duke Forest FACE - Forest-Atmosphere Carbon Transfer and Storage (FACTS-I)	1,559
DUKE UNIVERSITY Durham, NC	DE-FG02-01ER41175 12/31/2008 Tornow	SC-26.2	High Intensity Gamma-ray Source at Duke	0
DUKE UNIVERSITY Durham, NC	DE-FG02-03ER41231 12/14/2010 Gao	SC-26.1	Medium Energy Physics at Duke University	344
DUKE UNIVERSITY Durham, NC	DE-FG02-03ER41239 03/14/2008 Bass	SC-26.1	Modeling and Analysis of Ultra-Relativistic Heavy-Ion Collisions	103
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41367 03/14/2011 Mueller	SC-26.1	Nuclear Physics at Extreme Energy Density	206
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41368 03/14/2011 Springer	SC-26.1	Lattice and Effective Field Theory Studies of Quantum Chromodynamics	274
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41376 06/14/2010 Mehen	SC-26.1	Heavy Quarks, QCD, and Effective Field Theory	75
DUKE UNIVERSITY Durham, NC	DE-FG02-01ER15205 12/31/2008 Thomas	SC-22.1	Quantum Dynamics of Optically-Trapped Fermi Gases	135
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER25675 05/14/2008 Dolbow	SC-21.1	Computational Strategies for Phase Transitions Driven by Coupled Stress and Diffusion: Application to the Kinetic of	69
DUKE UNIVERSITY Durham, NC	DE-FG02-91ER40665 11/30/2009 Goshaw	SC-25	Research in High Energy Physics at Duke University	1,092
DUKE UNIVERSITY Durham, NC	DE-FG02-97ER41033 02/28/2009 Howell	SC-26.1	Studies of Nuclear Structure Using Neutrons and Charged Particles	2,897
DUKE UNIVERSITY Durham, NC	DE-FC02-06ER64156 11/30/2010 Jackson	SC-23.3	Southeastern Regional Center of the National Institute for Climatic Change Research	1,925
DUKE UNIVERSITY MEDICAL CENTER Durham, NC	DE-FG02-05ER64101 01/31/2009 Jirtle	SC-23.2	Imprinted Genes and Transposons: Epigenomic Targets for Low Dose Radiation Effects	350
DUKE UNIVERSITY MEDICAL CENTER Durham, NC	DE-FG02-07ER64418 05/31/2008 Dewhirst	SC-23.2	13th International Congress of Radiation Research	45

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ELIZABETH CITY STATE UNIV. Elizabeth City, NC	DE-FG02-00ER25435 12/31/2008 Houston	SC-21.1	ECSU's Innovative 2005 - 2008 Computational Science - Scientific Visualization Project	250
METHODIST COLLEGE Fayetteville, NC	DE-FG02-06CH11451 11/30/2007 Raineri, Davenport	SC-23	Environmental Simulation Research Center for Occupational and Environmental Health, Safety and Compliance Research	0
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-05ER41380 11/30/2008 Crowe	SC-26.1	A Proposal to Measure the Cross Section of the Space Star in Neutron-Deuteron Breakup in a Recoil Geometry Setup	76
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-96ER54385 01/31/2012 Dutta	SC-24.2	Precision Characterization of Gyrotron Window Materials	72
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-04ER63752 12/14/2010 Lazzi	SC-23.2	Artificial Retina Project: Electromagnetic and Thermal Effects	150
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-04ER63754 02/28/2010 Chiang	SC-23.2	Effects of Down- and Up-regulated Lignin Biosynthesis in Populus of Soil Carbon Transformation and Storage	212
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-03ER41260 07/14/2009 Schaefer	SC-26.1	Nuclear Theory at North Carolina State University	232
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-02ER41216 07/14/2010 McLaughlin	SC-26.1	Neutrinos and Nucleosynthesis: Supernovae, Gamma Ray Bursts, and Low Energy Beta Beams	116
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-98ER45737 06/14/2010 Ade	SC-22.23	Organic Heterojunction Devices: Structure, Composition, and Performance	225
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-98ER45685 02/28/2010 Bernholc	SC-22.22	Theoretical Investigations of Nanoscale Structures	85
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-97ER45624 11/30/2011 Whitten	SC-22.23	Theoretical Studies of Surface Reactions on Metals and Electronic Materials	142
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-86ER45259 10/31/2010 Whangbo	SC-22.23	Band Electronic Structures and Crystal Packing Forces	157
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-07ER41484 07/14/2010 Back	SC-25	Collaborative Proposal: DUSEL R&D at the Kimballton Underground Facility (ICP-MS Confirmation, Material Assay, and Radon	85
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-05ER46238 08/31/2009 Gorman	SC-22.23	Direct Writing via Novel Aromatic Ladder Polymer Precursors	150
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-05ER46221 10/31/2007 Feldheim	SC-22.23	RNA Mediated Synthesis of Catalysts for Hydrogen Production and Oxidation	250

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NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-03ER46095 11/14/2009 Bernholc	SC-22.22	Integrated Multiscale Modeling of Molecular Computing Devices	225
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FC02-07ER25809 11/14/2011 Vouk	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	177
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-96ER40947 07/14/2006 Ji	SC-26.1	Quantum Chromodynamic Quark Model Study of Hadron and Few Hadron Systems	0
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-97ER41042 03/31/2009 Mitchell, Huffman	SC-26.1	Nuclear Structure Research at the Triangle Universities Nuclear Laboratory	575
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-96ER20219 07/31/2008 Kelly	SC-22.13	Polypeptide and Polysaccharide Processing by Heterotrophic Hyperthermophilic Microorganisms	0
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-07ER15914 08/31/2010 Maggard	SC-22.13	Molecular-Level Organization of Heterometallic Oxides/Organics for Photocatalysis	200
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-05ER25685 08/14/2009 Ma	SC-21.1	Runtime Data Management for Data-Intensive Scientific Applications	99
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-05ER25664 01/31/2009 Mueller	SC-21.1	MOLAR: MOdular Linux and Adaptive Runtime support for HEC OS/R research	27
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-98ER14847 01/31/2009 Gubbins	SC-22.1	Molecular Modeling of Adsorption and Diffusion in Ordered and Disordered Nano-Porous Materials	150
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-96ER14632 05/14/2011 Lindsey	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	190
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-00ER15065 06/30/2009 Boston	SC-22.13	Coordination of endoplasmic reticulum (ER) signaling during maize seed development	0
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-02ER15354 09/14/2011 Smirnov	SC-22.13	Nanotube-Supported Phospholipid Bilayers	123
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-03ER15442 12/31/2005 Chiang	SC-22.13	Regulation of Guaiacyl and Syringyl Monolignol Biosynthesis	-1
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-03ER15490 09/14/2009 Hanck, Gunnoe	SC-22.12	Transition Metal Catalyzed Hydroarylation of Multiple Bonds: Exploration of Second Generation Ruthenium Catalysts and	134
NORTH CAROLINA STATE UNIV. Raleigh, NC	DE-FG02-07ER64448 07/31/2010 Lackmann	SC-23.3	High-Resolution Modeling to Assess Tropical Cyclone Activity in Future Climate Regimes	200

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-07ER64422 05/31/2009 Chen	SC-23.2	Proteomic-Based Mechanistic Investigation of Low-Dose Radiation-Induced Cellular Responses/Effects	330
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15630 02/28/2009 Gagne	SC-22.12	Oxidative Addition at Anomeric Centers in the Pursuit of Value-Added Fine Chemical Feedstocks From Cardboard and Potatoes	120
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15651 07/31/2009 Copenhaver	SC-22.13	Regulation of Meiotic Recombination	113
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15671 09/14/2009 Jones	SC-22.13	Sugar Sensing in Arabidopsis via AtRGS1	114
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER15669 07/31/2011 Kieber	SC-22.13	Regulation of Nuclear Localization of Signaling Proteins by Cytokinin	114
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER15788 05/14/2009 Meyer, Papanikolas	SC-22.13	Metal-to-Ligand Charge Transfer Excited States on Surfaces and in Rigid Media.Application to Energy Conversion	285
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER14776 10/31/2010 Baer	SC-22.1	Threshold Photoelectron Photoion Coincidence (TPEPICO) studies: The road to +/-0.1 kJ/mol Thermochemistry	145
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER25721 05/31/2007 Mucha	SC-21.1	Model Interacting Particle Systems for Simulation and Macroscopic Description of Particulate Suspensions	0
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-95ER20187 07/14/2009 Dangl	SC-22.13	Functions of Pseudomonas syringae type III effector proteins in plant disease and disease resistance	190
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER41019 01/14/2012 Engel	SC-26.1	Nuclear Theory with Applications to Astrophysics and Particle Physics	97
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-97ER41041 03/31/2009 Champagne, Henning	SC-26.1	Studies of Nuclear Processes	638
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-06ER25764 12/14/2011 Fowler	SC-21.1	Performance Engineering Research Center (PERC-3)	0
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-05ER46261 09/14/2009 DeSimone	SC-22.23	Proton Exchange Membranes for Next Generation Fuel Cells	300
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FG02-06ER41418 06/30/2009 Ng	SC-25	Theoretical Research in Cosmology, High-Energy Physics and String Theory at UNC-CH	300
NORTH CAROLINA, UNIVERSITY OF Chapel Hill, NC	DE-FC02-06ER41445 03/14/2011 Fowler	SC-25	National Computational Infrastructure for Lattice Gauge Theory	113

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NORTH CAROLINA, UNIVERSITY OF Charlotte, NC	DE-FG02-06ER46329 08/31/2009 Gbur	SC-22.22	A Study of Plasmonic Enhanced Transmission Effects in Nano-Optics	54
NORTH CAROLINA, UNIVERSITY OF Charlotte, NC	DE-FG02-06ER25733 08/14/2009 Lu	SC-21.1	Efficient Feature-Driven Visualization of Large Scale Scientific Data	100
NORTH CAROLINA, UNIVERSITY OF Charlotte, NC	DE-FG02-05ER25678 08/31/2011 Cai	SC-21.1	Numerical Methods of Computational Electromagnetics for Complex Inhomogeneous Systems	181
NORTH CAROLINA, UNIVERSITY OF Charlotte, NC	DE-FG02-03ER25565 06/30/2008 Ahn	SC-21.1	Secure Information Sharing within a Collaboratory Environment	0
Total for NC :				16,569

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-96ER14645 07/14/2011 Hershberger	SC-22.1	Kinetics and Product Channel Studies in Combustion Chemistry	89
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-06ER46292 07/14/2009 Seames	SC-22.21	The North Dakota DOE EPSCoR Infrastructure Improvement Program: Advances in the Fundamental Understanding of Coal	450
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-04ER46120 01/31/2008 Hoffmann	SC-22.21	Development and Parallel Computer Implementation of Quasidegenerate Perturbation Theory for Molecular Electronic Structure	0
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-04ER46115 12/31/2007 Mann	SC-22.21	Addressing System Integration Issues Required for the Development of Distributed Wind-Hydrogen to Energy	0
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-06ER64269 12/31/2008 Landis	SC-23.2	EERC Center for Biomass Utilization 2006	0
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-06ER64168 08/31/2008 Poellot	SC-23.3	Analysis of In Situ Observations of Cloud Microphysics from M-FACE	67
Total for ND :				606



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CREIGHTON UNIVERSITY Omaha, NE	DE-FG02-05ER46186 11/30/2007 Seger	SC-22.21	A Study of Ultra-Peripheral Collisions at RHIC	143
NEBRASKA, UNIV. OF KEARNEY Kearney, NE	DE-FG02-06ER64235 06/14/2008 Exstrom	SC-23.2	CIBS Solar Cell Development, University of Nebraska at Kearney	0
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-05ER25687 08/14/2006 Wang	SC-21.1	A Lightweight, High-Performance I/O Management Package for Data-Intensive Computing	-97
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-96ER14646 05/31/2011 Starace	SC-22.11	Dynamics of Few-Body Atomic Processes	110
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-00ER15044 04/30/2009 Spreitzer	SC-22.13	Role of the Rubisco Small Subunit	123
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-05ER15663 05/14/2009 Umstadter	SC-22.11	Laser Produced Coherent X-Ray Sources	150
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-05ER15648 06/14/2008 Stone	SC-22.13	Role of a Transcriptional Regulator in Programmed Cell Death and Plant Development	114
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-04ER15564 08/31/2010 Mackenzie	SC-22.13	Influence of Translation Initiation on Organellar Protein Targeting in Arabidopsis	140
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-04ER15531 08/31/2008 Morris	SC-22.13	The Role of a Host Protein (TIP) in the Resistance Response of Arabidopsis to Turnip Crinkle Virus Infection	0
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-04ER15532 08/31/2007 Ragsdale	SC-22.13	Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase	130
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-03ER63639 09/14/2009 Verma	SC-23.3	Carbon Sequestration in Dryland and Irrigated Agroecosystems: Quantification at Different Scales for Improved Prediction	350
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-06ER46264 06/15/2008 Leslie-Pelecky	SC-22.21	Magnetic Cluster States in Nanostructured Materials	150
NEBRASKA, UNIVERSITY OF Lincoln, NE	DE-FG02-04ER46152 06/18/2010 Sellmyer	SC-22.22	Studies of Artificially Structured Composite Magnets	111
Total for NE :				1,424

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER46392 06/30/2010 Baker	SC-22.22	Structure/Property Relationships in High Strength Nanostructured Spinodal FeNiMnAl Alloys	134
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER54915 01/31/2010 Rogers	SC-24.2	Gyrokinetic Simulations of Turbulent Transport in Fusion Plasmas	92
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-02ER15350 11/30/2009 Lynd	SC-22.13	Fundamental Aspects of Cellulose Utilization	125
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-05ER15704 09/14/2009 Schaller	SC-22.13	Post-transcriptional regulation of ethylene perception and signaling in Arabidopsis	114
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-06ER15809 07/31/2009 Guerinot	SC-22.13	From the Soil to the Seed: Metal Transport in Arabidopsis	123
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-04ER63930 12/31/2008 Fisher-Vanden	SC-23.3	The Channels of Foreign Influence on the Innovation and Diffusion of Technology in China: Implications for Energy Use and Carbon Emissions	0
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER46372 06/30/2010 Bhattacharjee	SC-22.21	Cluster for Integrated Computation and Analysis of Reconnection and Turbulence	548
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-05ER54832 07/14/2008 Bhattacharjee	SC-24.2	Reconnection Research at CMSO	100
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-06ER54894 07/31/2009 Chen	SC-24.2	Collaborative Research: Laboratory Investigation of Alfvén Field Line Resonances and Electron Acceleration	12
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER54941 07/31/2010 Chen	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	100
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-88ER40410 12/31/2011 Holtrop, Calarco, Hersman	SC-26.1	Electromagnetic Studies of Nucleon and Nuclear Structure	454
Total for NH :				1,802

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
HACKENSACK UNIV MED CTR Hackensack, NJ	DE-FG02-06CH11399 01/31/2008 Korngold, Cunning	SC-23	Purchase of Cell Sorter for Division of Research at the Cancer Center at Hackensack University Medical Center	0
INSTITUTE FOR ADVANCED STUDY Princeton, NJ	DE-FG02-90ER40542 11/30/2009 Adler, Arkani-Hamed	SC-25	Problems in Particle Theory	680
MEDICINE & DENT OF NJ, UNIV OF Newark, NJ	DE-FG02-07ER64344 12/31/2009 Azzam	SC-23.2	In Vivo Mammalian Tissue Response to Low Dose Ionizing Radiation: The Role of Oxidative Metabolism and Intercellular Communication	249
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-04ER25654 09/14/2008 Kriegsmann	SC-21.1	Applied Mathematical Problems in Microwave Processing of Ceramics	0
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-07ER46402 07/14/2011 Tyson	SC-22.22	Understanding the Spin-Lattice Coupling in Multiferroic Oxides	157
PRINCETON UNIVERSITY Princeton, NJ	DE-FC02-04ER54787 07/31/2009 Kevrekidis	SC-24.2	The Center for Multiscale Plasma Dynamics	53
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-01ER54628 03/14/2008 Srolovitz, Car	SC-24.2	Multiscale Modeling of Defect Generation and Evolution in Metallic Alloys for Fusion Power	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER46419 07/31/2010 Yazdani	SC-22.22	Probing Correlated Superconductors and their Phase Transitions on the Nanometer Scale	180
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER54828 06/14/2011 Suckewer	SC-24.2	Attaining Ultra-High Laser Pulses by Raman Backscattering Amplification and Compression in Plasma	104
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER54838 12/31/2008 Fisch	SC-24.2	Ultra-High Intensity Magnetic Field Generation in Dense Plasma	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-06ER54851 04/14/2009 Fisch	SC-24.2	Alpha Channeling in Mirror Machines	60
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-01ER63196 08/31/2008 Bryan	SC-23.3	Testing Components of a New Community Isopycnal Ocean Circulation Model	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-02ER41227 05/31/2007 Romalis	SC-26.1	Search for a Permanent Electric Dipole Moment Using Liquid 129 Xe	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-97ER45642 05/31/2008 Scherer	SC-22.23	Stress from Confined Fluids	124
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-99ER45797 09/14/2009 Haataja	SC-22.22	Structure and Dynamics of Interfaces	0

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PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45706 04/30/2010 Cava	SC-22.23	New Superconducting Materials	469
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45683 02/14/2010 Tsui	SC-22.22	Experiments on the Interplay of Disorder & Interactions in Quantum Hall Effect Related Electron Physics	150
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER41514 08/31/2009 Strauss	SC-25	Systematic Effects in Type-1a Supernovae	100
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46200 01/31/2012 Hasan	SC-22.21	Synchrotron X-ray Based Electronic Structure Study of Correlated Quantum Materials	241
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46201 04/30/2011 Car	SC-22.22	Density Functional Theory with Dissipation: Transport Through Single Molecules	100
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46165 04/30/2011 Kahn	SC-22.22	Understanding and Design of Polymer Devices Interfaces	416
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-06ER46344 09/14/2009 Selloni	SC-22.23	Theoretical Research Program on Bio-Inspired Inorganic Hydrogen Generating Catalysts and Electrodes	225
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-00ER45841 11/14/2009 Shayegan	SC-22.22	Magneto-Transport in GaAs Two-Dimensional Hole Systems	153
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46108 12/31/2011 Torquato	SC-22.23	Optimizing Interaction Potentials to Form Targeted Material Structures	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-86ER13503 11/15/2008 Dryer	SC-22.1	Comprehensive Mechanisms for Combustion Chemistry: An Experimental and Numerical Study with Emphasis on Applied Sensitivity Analysis	120
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-01ER15121 12/31/2008 Panagiotopoulos	SC-22.1	Molecular Simulation of Phase Equilibria for Complex Fluids	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-02ER15344 10/31/2011 Rabitz	SC-22.11	Control of Molecular Dynamics: Algorithms for Design, Analysis and Implementation	129
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER15631 09/30/2009 Carter	SC-22.11	Scalable Methods for Electronic Excitations and Optical Responses of Nanostructures: Mathematics to Algorithms	125
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER15636 01/31/2009 Peters	SC-22.12	Up-Scaling Geochemical Reaction Rates for CO2 in Deep Saline Aquifers	168
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-03ER25587 05/14/2009 E	SC-21.1	Integrated Multiscale Modeling of Molecular Computing Devices	110

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-91ER40671 10/31/2011 Smith	SC-25	High Energy Physics Research	3,022
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER63973 12/14/2007 Jaffe	SC-23.4	Reduction and Reoxidation of Soils During & After Uranium Bioremediation; Implications for Long-Term Uraninite	214
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER64006 01/14/2009 Dabbs	SC-23.4	Precipitation and Deposition of Aluminum-Containing Phases in Tank Wastes	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64467 08/14/2011 Sarmiento	SC-23.3	Do Coupled Climate Models Correctly Simulate the Upward Branch of the Deep Ocean Global Conveyor	219
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64488 09/14/2010 Rabinowitz	SC-23.2	Quantitative Tools for Dissection of Hydrogen-Producing Metabolic Networks	1,100
ROBERT WOOD JOHNSON UNIV. HOSP. New Brunswick, NJ	DE-FG02-04CH11206 12/31/2007 Ragovin, Burgis	SC-23	Linear Accelerator for the Cancer Hospital of New Jersey at Robert Wood Johnson University Hospital	0
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-07ER46382 05/31/2010 Cheong	SC-22.21	Material Synthesis and Spectroscopy/Diffraction Studies of Multiferroics: Towards Enhanced Tc and Spin/Lattice Coupling	168
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-07ER46413 12/31/2007 Chabal	SC-22.23	Novel Theoretical and Experimental Approaches for Understanding and Optimizing Hydrogen-Sorbent Interactions	600
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FC02-06ER54857 01/14/2011 Parashar	SC-24.2	SciDAC - Center for Plasma Edge Simulation	150
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-06ER46336 08/14/2010 Garofalini	SC-22.23	Atomistic Structure, Strength, and Kinetic Properties of Intergranular Films in Ceramics	174
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-06ER46289 07/31/2009 Khachatryan	SC-22.22	Mesoscale Interfacial Dynamics in Magnetoelectric Nanocomposites	50
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-01ER41165 02/28/2010 Neuberger	SC-25	Research in High Energy Physics - Theory	85
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-99ER45761 08/14/2009 Kotliar, Abrahams	SC-22.22	Correlation Effects and Magnetism in Actinide: Elements and Compounds	174
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-96ER40987 06/30/2011 Mekjian	SC-26.1	Nuclei Under the Extreme Conditions of Density, Temperature, Isospin Asymmetry & the Phase Diagram of Hadronic Matter	54
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-96ER40959 02/28/2010 Thomas	SC-25	Research in Theoretical High Energy Physics	430

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RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-07ER64375 03/14/2010 Kerkhof	SC-23.4	Structure and Function of Subsurface Microbial Communities Affecting Radionuclide Transport and	94
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-05ER63969 12/31/2008 Barkay	SC-23.4	Microbial pathways for the mobilization of mercury as Hg(0) in anoxic subsurface environments	241
RUTGERS - STATE UNIV OF NJ New Brunswick, NJ	DE-FG02-06ER64149 11/14/2008 Kerkhof	SC-23.3	Active Microbes Responding to Inputs From the Orinoco River Plume	0
RUTGERS - STATE UNIV OF NJ Newark, NJ	DE-FG02-06ER15828 08/31/2009 Piotrowiak	SC-22.13	Kerr-Gated Microscopy with Subpicosecond Time Resolution: Application to Ultrafast Processes in Single Nanoparticles, Nanowires and Molecules	169
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-95ER20194 01/31/2009 Messing	SC-22.13	Corn Storage Protein: A Molecular Genetic Model	129
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-01ER15256 01/14/2011 Galoppini, Piotrowiak	SC-22.1	Model Dyes for Study of Molecule-Semiconductor Interfaces and Electron Transfer Processes	130
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-93ER14331 02/14/2011 Bartynski	SC-22.1	Nanoscale Surface Chemistry: Over Faceted Substrates: Structure, Reactivity and Nanotemplates	147
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER45742 11/14/2009 Andrei	SC-22.22	Experimental Studies of Superconductivity, Charge Ordering and Unconventional Electron Dynamics in Layered Materials	151
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER45790 12/31/2011 Coleman	SC-22.22	Spin Driven Phenomena in Strongly Correlated Materials	125
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-01ER45928 03/14/2008 Burke	SC-22.22	Density Functional Theory with Dissipation: Transport Through Single Molecules	100
RUTGERS - STATE UNIV OF NJ Piscataway, NJ	DE-FG02-99ER62864 09/14/2007 Barkay	SC-23.4	Lateral Gene Transfer Among Subsurface Bacteria	0
TEVENS INSTITUTE OF TECHNOLOGY Hoboken, NJ	DE-FG02-06ER25732 08/14/2009 Xu	SC-21.1	Numerical Stochastic Homogenization Method and Multiscale Stochastic Finite Element Method - A Paradigm for Multiscale Computation of Stochastic PDEs	98
TEVENS INSTITUTE OF TECHNOLOGY Hoboken, NJ	DE-FG02-97ER14791 01/31/2009 Tarnovsky	SC-22.11	Electron-Driven Ionization and Dissociative Attachment	135

Total for NJ :

12,072

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-94ER40847 03/31/2009 Kyle	SC-26.1	Experimental Studies of Quark-Gluon Structure of Nucleons and Nuclei	365
NEW MEXICO STATE UNIVERSITY Las Cruces, NM	DE-FG02-96ER40965 03/31/2011 Burkardt, Engelhardt	SC-26.1	Quark Gluon Structure of Hadrons in QCD	126
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-99ER41104 05/14/2011 Ellison	SC-25	Investigations of Beam Dynamics Issues at Current and Future Hadron Accelerators	205
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-94ER40821 11/30/2011 Bassalleck, Fields	SC-26.1	Strange Particles and Heavy Ion Physics	352
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-07ER25828 08/14/2010 Ghani	SC-21.1	Hybrid Multi-Layer Network Control for Emerging Cyber-Infrastructures	289
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER25662 01/31/2009 Maccabe	SC-21.1	A Framework for Adaptable Operating and Runtime Systems	262
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER25705 08/14/2009 Ingber	SC-21.1	Localized Scale Coupling and New Educational Paradigms in Multiscale Mathematics and Science	125
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15694 07/31/2011 Guo	SC-22.11	Quantum Dynamics of Elementary Chemical Reactions	92
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-06ER15765 03/31/2009 Kemp	SC-22.12	Direct Epoxidations Using Molecular Oxygen	237
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15712 08/31/2011 Datye	SC-22.12	Nanostructured Catalysts for Hydrogen Generation from Renewable Feedstocks	228
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-03ER15419 07/31/2009 Paine	SC-22.12	Preorganized and Immobilized Ligands for Metal Ion Separations	135
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-02ER15368 11/14/2009 Brinker	SC-22.1	Catalytic and Transport Behaviors of Model Porous and Composite Nanostructures	157
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04CH11207 07/31/2007 Kenney, Carver	SC-23	Design and Construction of the Health Sciences Education Building	0
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04ER54791 01/31/2008 Gilmore	SC-24.2	Experimental Investigation of Active Feedback Control of Turbulent Transport in a Magnetized Plasma	0
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04ER46119 01/31/2008 Vorobieff	SC-22.21	DOE EPSCoR: Experimental and Numerical Investigation of Flows in Expanding Chanel	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-02ER46015 08/31/2009 Jain	SC-22.22	Two-Photon Absorption in Quantum Dots, Quantum Dashes, and Related Nanostructured Semiconductor Materials	0
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04ER41300 02/28/2010 Matthews, Seidel, Gold	SC-25	New Mexico Center for Particle Physics (NMCPP) -- Task A: Collider Physics; Task A2 Collider Physics; Task B: Particle Astrophysics	505
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER41388 08/14/2008 Seidel	SC-25	ADR: Fabrication & Testing of 3D Active-Edge Silicon Sensors: High Speed, High Yield	25
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-07ER64393 03/14/2014 Pockman	SC-23.3	Hydraulic Mechanisms of Survival and Mortality During Drought in Pinon-Juniper Woodlands of Southwestern USA	410
Total for NM :				3,513



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ADA SYSTEM OF HIGHER EDUCATION Las Vegas, NV	DE-FG02-06ER46295 07/31/2009 Czerwinski	SC-22.21	Investigations of the Fundamental Surface Reactions Involved in the Sorption and Desorption of Radionuclides	400
, UNIV. LAS VEGAS RES. FOUND. Las Vegas, NV	DE-FG02-04ER63941 06/30/2007 Culbreth	SC-23.2	Advanced Environmental Control and Life Support Technology Demonstrator	0
, UNIV. LAS VEGAS RES. FOUND. Las Vegas, NV	DE-FG02-05ER64123 03/30/2007 Czerwinski	SC-23.2	Radiochemistry Education and Research Center	0
, UNIV. LAS VEGAS RES. FOUND. Las Vegas, NV	DE-FG02-04ER63884 09/30/2007 Sandgren	SC-23.2	Safety and Risk Analysis for Hazardous and Radioactive Materials Transportation	0
, UNIV. LAS VEGAS RES. FOUND. Las Vegas, NV	DE-FG02-04ER63880 12/31/2006 Williams	SC-23.2	Next-Generation Mega-Voltage Imaging System for Cargo Container Inspection	0
, UNIV. LAS VEGAS RES. FOUND. Las Vegas, NV	DE-FG02-04ER63855 01/31/2007 Luke	SC-23.2	Earthquakes in Southern Nevada - Uncovering Hazards and Mitigating Risk: A Research Study by University of Nevada, Las Vegas	0
, UNIV. LAS VEGAS RES. FOUND. Las Vegas, NV	DE-FG02-05CH11340 12/31/2007 Williams	SC-23	UNLV Research Foundation School of Public Health Environmental Health Laboratory	0
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-04ER63733 06/30/2007 Czerwinski	SC-23.4	Microbial Transformations of Tru and Mixed Wastes: Actinide Speciation and Waste Volume Reduction	0
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-03ER63651 09/14/2009 Nowak	SC-23.3	Biotic Processes Regulating the Carbon Balance of Desert Ecosystems	875
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-02ER63361 08/31/2007 Smith	SC-23.3	Effects of Changing Water and Nitrogen Inputs on a Mojave Desert Ecosystem	1
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-04ER15573 10/31/2008 Selser	SC-22.1	A Study of the Relationship Between Lithium Ion Transport and Structure and Dynamic Behavior in Polyethylene	0
NEVADA, UNIVERSITY OF Las Vegas, NV	DE-FG02-06ER64231 05/31/2008 Klicka	SC-23.2	Assessing the Status of Threatened and Endangered Mojave Desert Birds: A Conservation Genetics Approach	0
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-05ER64143 09/14/2009 Childress	SC-23.2	Innovative Treatment Technologies for Natural Waters and Wastewaters at the University of Nevada, Reno	0
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-07ER64440 07/14/2010 Zaliapin	SC-23.3	Collaborative Research: Robust Climate Projections and Stochastic Stability of Dynamical Systems	19
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-03ER15424 01/31/2010 Phaneuf	SC-22.1	Energetic Photon and Electron Interactions with Positive Ions	165

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-05ER15645 01/31/2012 Ervin	SC-22.11	Hydrocarbon Radical Thermochemistry: Gas-Phase Ion Chemistry Studies	129
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER15626 08/31/2009 Harper	SC-22.13	Membrane Targeting of P-type ATPases in Plant Cells	123
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER63819 09/30/2009 Misra	SC-23.2	Nuclear Waste Repository Research on Materials Evaluation, Degradation, Alternate Materials, and Modeling	0
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-06ER54892 07/31/2008 Bauer	SC-24.2	Radiation-Magnetohydrodynamic Evolution and Instability of Conductors Driven by Megagauss Magnetic Fields	0
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-06ER54900 07/31/2009 Winterberg	SC-24.2	Magnetic Booster Fast Ignition Macron Accelerator	25
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-05ER54837 07/31/2009 Sentoku	SC-24.2	Isochoric Heating of Hot Dense Matter by Laser-Magnetized Plasma Interaction	31
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER54752 02/14/2012 Bauer	SC-24.2	Intense Magnetized Plasma-Wall Interaction	262
N NEVADA, UNIV. MEDICAL CENTER Las Vegas, NV	DE-FG02-05CH11336 11/30/2007 Charyulu, Yedinak	SC-23	Radiology/Oncology and Diagnostics Development Program	0

Total for NV : 2,030

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
COLUMBIA UNIVERSITY New York, NY	DE-FG02-06ER64217 02/28/2008 Brenner	SC-23.2	7th International Workshop on Microbeam Probes of Cellular Radiation Response	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64334 11/30/2009 Kleiman	SC-23.2	Low Dose Radiation Cataract	209
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64336 11/30/2009 Amundson	SC-23.2	Mechanistic and Quantitative Studies of Bystander Responses in 3-D Human Tissues for Low-Dose Radiation Risk Estimation	310
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER64054 05/14/2009 Geard	SC-23.2	The Adaptive Response, Genetic Haplo-Insufficiency and Genomic Instability	366
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER64055 12/31/2009 Balajee	SC-23.2	Cellular Response to Low Dose Radiation: Role of Phosphatidylinositol-3 Kinase Like Kinases	351
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER25783 09/14/2011 Keyes	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	160
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER40281 11/14/2010 Zajc	SC-26.1	Studying Fundamental Matter with High Transverse Momentum Probes	810
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER40764 12/14/2010 Gyulassy	SC-26.1	Theory of Ultra-Dense Matter and the Dynamics of High Energy Interactions Involving Nuclei	280
COLUMBIA UNIVERSITY New York, NY	DE-FG02-91ER40669 11/14/2008 Marshall	SC-25	Experimental Research on a Laser Cyclotron Autoresonance Accelerator	145
COLUMBIA UNIVERSITY New York, NY	DE-FG02-92ER40699 11/30/2010 Lee	SC-25	Theoretical High Energy Physics	1,673
COLUMBIA UNIVERSITY New York, NY	DE-FG02-92ER25126 08/31/2007 Goldfarb	SC-21.1	Algorithms for Mathematical Programming	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER25715 08/31/2008 Adams	SC-21.1	Gyrokinetic Particle Simulation of Multiscale Physics in Fusion Plasmas	42
COLUMBIA UNIVERSITY New York, NY	DE-FG02-91ER14226 01/31/2010 Eisenthal	SC-22.1	Photochemistry at Interfaces	147
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER14339 07/31/2009 Parkin	SC-22.12	Fundamental Studies of Metal Centered Transformations Relevant to Catalysis	260
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14104 01/31/2011 Osgood	SC-22.1	Laser Dynamic Studies of Photoreactions on Nanostructured Surfaces	111

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COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14162 04/30/2009 Friesner	SC-22.1	Theoretical Studies of Photoactive Molecular Systems: Electron Transfer, Energy Transport, and Optical Spectroscopy	165
COLUMBIA UNIVERSITY New York, NY	DE-FG02-88ER13937 06/30/2009 Flynn	SC-22.1	Scanning Tunneling Microscopy Studies of the Structure and Chemistry of Polycyclic Aromatic Hydrocarbons on Graphite Surfaces	160
COLUMBIA UNIVERSITY New York, NY	DE-FG02-97ER14807 05/31/2010 Norton	SC-22.1	Catalytic Applications of H. Transfer from Transitiion-Metal Hydride Complexes	135
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER14861 02/28/2011 Brus	SC-22.13	Metallic Carbon Nanotubes and Silver Nanocrystals	85
COLUMBIA UNIVERSITY New York, NY	DE-FG02-01ER15264 01/31/2011 Nuckolls, Brus	SC-22.12	Catalytic Growth of Molecular-Scale Wiring	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-03ER15463 09/14/2009 Heinz	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	320
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46118 04/30/2009 Nuckolls	SC-22.23	Electronics from Nano-Scale Crystals	550
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46157 07/14/2010 Osgood	SC-22.22	Mapping the Electron Response of Nanomaterials	205
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER46215 07/14/2011 Kim	SC-22.22	Investigation of the Quantum Limit Transport Phenomena in Graphene	100
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46169 08/31/2010 Millis	SC-22.22	Theory of Surface and Interface Physics of Correlated Electron Materials	134
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER41347 02/29/2008 Willis	SC-25	Novel Electron-Bubble Tracking Detectors	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-03ER54696 02/14/2012 Boozer	SC-24.2	Resistive Wall Modes and Error Field Amplification	50
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER54761 02/14/2010 Navratil	SC-24.2	MHD Mode Control Research in DIII-D	325
COLUMBIA UNIVERSITY New York, NY	DE-FG02-95ER54333 01/31/2010 Boozer	SC-24.2	Stellarator Theory	79
COLUMBIA UNIVERSITY New York, NY	DE-FG02-99ER54524 03/14/2011 Sabbagh	SC-24.2	Study of MHD Stability and Active Mode Control in NSTX	473

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54459 10/31/2009 Mauel	SC-24.2	Levitated Dipole Experiment	381
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54464 01/14/2010 Sen	SC-24.2	Basic Physics of Tokamak Transport and Feedback Control	295
COLUMBIA UNIVERSITY New York, NY	DE-FG02-00ER54585 08/14/2009 Mauel	SC-24.2	Nonlinear Dynamics of Strong Interchange Instabilities in a Rotating Dipole-Confined Plasma	132
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER46429 08/31/2009 Kumar	SC-22.23	Influence of Surface Chemistry and Folding Free Energy on Protein Adsorption	171
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER53222 11/30/2009 Navratil	SC-24.2	High Beta Tokamak Research	824
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54862 01/14/2011 Keyes	SC-24.2	Center for Plasma Edge Simulation	110
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54863 01/14/2011 Keyes	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics	40
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER63725 02/28/2007 Tselioudis	SC-23.3	A Study to Investigate Cloud Feedback Processes and Evaluate GCM Cloud Variations Using Statistical Cloud	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-02ER63413 07/14/2010 Robertson	SC-23.3	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical Models	70
COLUMBIA UNIVERSITY New York, NY	DE-FG02-03ER63600 12/31/2007 Bergmann	SC-23.2	Noninvasive Imaging of Administered Progenitor Cells	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-03ER63441 11/14/2007 Hall	SC-23.2	Mechanisms of the Bystander Effect	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-95ER20206 04/14/2009 Shapleigh	SC-22.13	Regulation of Denitrification in Rhodobacter sphaeroides	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-06ER25722 12/31/2008 Albonesi	SC-21.1	Portable and Transparent Message Compression in MPI Libraries to Improve the Performance and Scalability of Parallel Applications	103
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-93ER25164 02/28/2011 Guckenheimer	SC-21.1	Computational Analysis of Dynamical Systems	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-90ER14128 03/14/2009 Pope	SC-22.11	Investigation of Non-Premixed Turbulent Combustion	140

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CORNELL UNIVERSITY Ithaca, NY	DE-FG02-89ER14030 05/31/2008 Hanson	SC-22.13	Intracellular Dynamics of Energy-Transducing Organelles	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-01ER15180 10/31/2010 Cool	SC-22.1	Studies of the Chemistry of Oxygenated Fuels with Photoionization Mass Spectrometry	140
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-00ER15095 06/30/2009 Davis	SC-22.1	Bimolecular Dynamics of Combustion Reactions	140
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER15687 08/14/2011 Coates	SC-22.12	Development and Application of New Catalysts for Heterocycle Carbonylation	143
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER15659 04/30/2011 Chirik	SC-22.12	Understanding Nitrogen Fixation	125
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-02ER15341 08/14/2009 Gan	SC-22.13	Molecular Regulatory Mechanisms of Two Senescence-Specific Genes in Arabidopsis	114
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER15560 07/14/2008 Van Wijk	SC-22.13	Proteolysis in plastids of Arabidopsis thaliana: Functional analysis of ClpS1,2,T and their physical and genetic	50
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER46198 04/30/2009 Elser	SC-22.22	Algorithms for Diffractive Microscopy	100
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER46259 09/14/2008 DiSalvo	SC-22.23	Novel Intermetallic Catalysts to Enhance PEM Membrane Durability	100
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER46250 08/31/2011 Abruna	SC-22.23	Basic Research for the Hydrogen Fuel Initiative	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-06ER46306 07/31/2009 Davis	SC-22.22	Atomic Scale Studies of Doped-Hole Distributions, Self Organized Electronic Nano-Domains, and Electron-Boson Coupling	230
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER46154 06/14/2010 Sievers	SC-22.3	Holographic Spectroscopy for Rapid Electron Bunch Analysis: Development of an Instrument with THz Resolved Optical Gating	130
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-03ER46072 08/31/2009 Abruna, DiSalvo	SC-22.23	Cornell Fuel Cell Institute: Materials Discovery to Enable Fuel Cell Technologies	1,150
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-03ER46073 02/14/2008 Koch	SC-22.23	Transport Processes in Sheared, Neutrally Buoyant Particle Suspensions at Moderate Particle Reynolds Numbers	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-87ER45298 12/31/2010 DiSalvo	SC-22.23	Development of Methods to Synthesize Nanoparticles of Ordered Intermetallic Compounds (Binary, Ternary, and	230

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CORNELL UNIVERSITY Ithaca, NY	DE-FG02-89ER45405 06/30/2009 Henley	SC-22.22	Quasi-crystals and Quasi-equivalence: Symmetries and Energies in Alloys and Biological Materials	105
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER41520 07/31/2008 Ryd	SC-25	Charm 2007 Travel and Organization Support (August 5-8, 2007)	5
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER41353 08/31/2007 Tigner	SC-25	Development of Helical Undulator for ILC Positron Source	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-04ER41354 08/31/2009 Padamsee	SC-25	Research in Superconducting Radiofrequency Systems	147
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-97ER62443 11/30/2011 Gruner	SC-23.2	Development and Applications of Photosensitive Device Systems to Studies of Biological and Organic Materials	350
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER54942 07/31/2010 Kintner	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	19
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46455 05/14/2010 Archer	SC-22.23	Tethered Lubricants	185
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46432 08/31/2010 Chan	SC-22.22	Cross-Cutting Tools for Theoretical Organic Photovoltaic Research	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46440 08/31/2010 van Dover	SC-22.22	Complex Amorphous Transition-Metal Dielectrics	195
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46393 07/14/2010 Sethna	SC-22.22	Continuum Plasticity: From Grain Boundaries and Coarsening to Cellular Structures and Recrystallization	138
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46365 04/30/2010 Umrigar	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamic Effects in Correlated Materials	40
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-98ER54496 07/14/2008 Hammer	SC-24.2	Physics of High-Energy-Density X Pinch Plasmas	0
DOWLING COLLEGE Oakdale, NY	DE-FG02-03ER63601 08/31/2009 Bernstein	SC-23.2	Local System Support for PDB Biological Unit Search and Display	22
NEW YORK UNIVERSITY New York, NY	DE-FG02-06ER41417 05/31/2009 Weiner	SC-25	Beyond the Standard Model: The Weak Scale, Neutrino Mass, and the Dark Sector	60
NEW YORK UNIVERSITY New York, NY	DE-FG02-03ER46099 02/28/2010 Evans	SC-22.23	Material Lessons of Biology: Structure-Function Studies of Protein Sequences Involved in Inorganic-Organic Composite Material Formation	229

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NEW YORK UNIVERSITY New York, NY	DE-FC02-04ER54801 12/14/2007 Strauss	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	100
NEW YORK UNIVERSITY New York, NY	DE-FG02-86ER53223 12/31/2009 Chang	SC-24.2	Plasma Properties (Task III) Advanced Toroidal Theory (Task VII)	804
NEW YORK UNIVERSITY New York, NY	DE-FC02-06ER54845 01/14/2011 Chang	SC-24.2	SciDAC - Center for Plasma Edge Simulation	329
NEW YORK UNIVERSITY New York, NY	DE-FG02-06ER25718 11/14/2009 Widlund	SC-21.1	Domain Decomposition and Parallel Computing	74
NEW YORK UNIVERSITY New York, NY	DE-FG02-88ER25053 02/28/2011 Berger, Greengard	SC-21.1	Applied Analysis and Computational Mathematics	0
NEW YORK UNIVERSITY New York, NY	DE-FG02-92ER20071 05/31/2011 Coruzzi	SC-22.13	Asparagine Synthetase Gene Regulatory Network and Plant Nitrogen Metabolism	133
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-06ER15817 08/14/2009 Koplik	SC-22.12	Complex Fluids in Self-Affine Fractures	108
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-03ER15458 10/31/2009 Makse	SC-22.1	Study of Damping Granular Materials	100
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-06ER46284 08/14/2009 Yu	SC-22.22	Near Surface Plasticity and Its Implications in Surface Treatment	69
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-84ER45153 08/31/2011 Sarachik	SC-22.22	Thermal Conductivity and Thermopower Near the 2D Metal-Insulator Transition	110
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-01ER45935 10/14/2010 Matsui	SC-22.23	Room-Temperature Synthesis of Semiconductor Nanowires by Templating Collagen Triple Helices and Their Precise	213
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-02ER15287 10/31/2011 Alexandratos	SC-22.12	Functionalized Scaffolds as a New Approach to the Design of Ion-Selective Polymer-Supported Reagents	130
NEW YORK, CITY U. OF LEHMAN C. New York, NY	DE-FG02-93ER45487 04/14/2011 Chudnovsky	SC-22.22	Dynamics of the Magnetic Flux in Superconductors	50
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-07ER41502 08/31/2010 Ernst	SC-25	New Ideas for the ATLAS Experiment	45
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-92ER61369 01/31/2010 Wang	SC-23.3	Study of Regional Climate Change	415



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NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-03ER63531 12/14/2011 Min	SC-23.3	Retrievals of Cloud Optical Properties and Photon Path Length Distributions Using Existing ARM Data Streams	170
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-91ER40631 04/30/2009 Alam	SC-25	Study of Heavy-Flavored Particles	120
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-06ER64266 06/30/2008 Amidon	SC-23.2	Woody Biomass Project at SUNY-ESF	0
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-07ER64359 07/31/2010 Fitzjarrald	SC-23.3	Quantifying Advective and Nonstationary Effects on Eddy Fluxes in the AmeriFlux Network	137
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-06ER64281 09/29/2008 Das	SC-23.2	New York Nano-Bio Molecular Information Technology Incubator (NYNBIT)	0
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FG02-06ER64179 09/30/2008 Yang	SC-23.3	Optimal Coordination & Synchronization in Local Air Quality & GHG Emissions: An Economic Study of Multi-Gas Issues in	53
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FG02-06ER64180 01/31/2008 Yang	SC-23.3	Model Developments for Development of Improved Emissions Scenarios: Developing Purchasing-Power Parity Models, Analyzing Uncertainty & Developing Data Sets ...	78
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FC02-07ER25803 11/14/2011 Govindaraju	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	92
NEW YORK, STATE U. OF BUFFALO Amherst, NY	DE-FG02-00ER15103 09/14/2009 Hollingsworth	SC-22.13	Post-transcriptional Control of Gene Expression in Land-plant Chloroplasts	0
NEW YORK, STATE U. OF BUFFALO Amherst, NY	DE-FG02-06ER64209 03/14/2010 Allen-King	SC-23.4	Geochemical & Physical Aquifer Property Heterogenety: A Multiscale Sedimentologic Approach to Reactive Solute Transport	280
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-03ER46064 08/14/2009 DeMarco	SC-22.22	Magnetic, Superconducting and Structural Phase Transitions Studied by the 99Ru, 189Os, and 191 Ir Mossbauer Effect in an External Magnetic Field	108
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-04ER46180 09/14/2010 Bird	SC-22.22	Quantum Coherence and its Manipulation in Coupled Quantum Dots	150
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-90ER14143 10/14/2010 Bright	SC-22.1	Interfacial Solvation Under Aggressive Conditions	120
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-02ER15372 11/14/2009 Coppens	SC-22.13	Time-Resolved Diffraction Studies of Photo-Induced Processes in Solids	177
E U. OF COL. OF ENV. SCI & FOR Syracuse, NY	DE-FG02-02ER15356 09/14/2009 Stipanovic	SC-22.13	The Effect of Cellulose Crystal Structure and Solid-State Morphology on the Activity of Cellulases	142

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NEW YORK, STATE U. OF DELHI Delhi, NY	DE-FG02-06ER64288 03/14/2009 Smith	SC-23.2	Center of Excellence in Watershed Applications and Technology-enhanced Economic Revitalization	0
NEW YORK, STATE U. OF OLD WEST Albany, NY	DE-FG02-05ER63994 12/31/2008 Weinstein-Lloyd	SC-23.3	Secondary Aerosol: Precursors and Formation Mechanisms	92
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER64444 07/31/2011 Zhang	SC-23.3	Improved Atmosphere-Ocean Coupled Modeling in the Tropics for Climate Prediction	170
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40317 11/30/2010 Lattimer	SC-26.1	Research in Nuclear Astrophysics: Supernovae and Neutron Stars	185
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-88ER40388 11/30/2011 Shuryak	SC-26.1	Research in Theoretical Nuclear Physics	740
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40331 03/31/2011 Lacey	SC-26.1	Nuclear Reaction Studies	380
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-07ER25817 03/31/2010 Zhu	SC-21.1	Statistical Approaches to Aerosol Dynamics for Climate Simulation	125
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-06ER25770 12/14/2011 Li	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations (ITAPS)	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-92ER40697 11/14/2009 Jung, Rijssenbeek, Hobbs	SC-25	Nucleon Decay and Neutrino Experiments and Experiments at High Energy Hadron Colliders	961
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER40988 03/31/2011 Jacak, Drees, Hemmick	SC-26.1	Studies of Relativistic Heavy Ion Collisions at RHIC	850
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-05ER15635 08/31/2008 Lindquist	SC-22.12	Up-Scaling Geochemical Reaction Rates for Carbon Dioxide (CO2) in Deep Saline Aquifers	66
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-88ER13850 02/29/2008 Stell	SC-22.1	Thermophysical Properties of Fluids and Fluid Mixtures	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-86ER13590 12/14/2008 Johnson	SC-22.1	Ionization Probes of Molecular Structure and Chemistry	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER14633 11/30/2011 Schoonen	SC-22.1	Reactivity of Iron Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary and Experimental Approach	83
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER14681 04/14/2009 Grey	SC-22.1	New Solid-State NMR Approaches for Studying Catalytic and Sorption Sites in Zeolites and Molecular Sieves	130

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NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-99ER14996 06/30/2009 Wong	SC-22.1	Microscale Processes and Macroscopic Behavior in Porous Geomaterials	128
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-01ER63195 02/29/2008 Cess	SC-23.3	Research Project on Anthropogenically-Induced Climate Change	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-04ER63729 11/30/2007 Halada	SC-23.4	Microbial Transformations of TRU and Mixed Wastes: Actinide Speciation and Waste Volume Reduction	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-90ER61063 10/31/2005 Cess	SC-23.3	Science Team Participation in the Atmospheric Radiation Measurements (ARM) Program	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-98ER62570 02/28/2011 Zhang	SC-23.3	Development of Integrated ARM Datasets and Their Application to Improve Climate Models	160
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-06ER41448 05/14/2009 Zingale	SC-26.1	Multidimensional Modeling of Astrophysical Thermonuclear Explosions	85
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER41488 08/31/2009 Shkolnikov	SC-25	High Brightness Picosecond Ion Beam Source Based on Brookhaven National Lab Ultrafast Terawatt CO2 Laser: Proof-of-Principle Experiments	90
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-86ER45237 05/14/2009 Chu	SC-22.23	Polymer-Assisted Formation of Nanostructured Transition Metal Clusters and Crystals	164
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER41516 08/31/2009 Calder	SC-25	Making the Standard Candle: A Study of How the Progenitor White Dwarf Modulates the Peak Luminosity of Type Ia Supernovae	30
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-99ER45760 09/30/2008 Hsiao	SC-22.23	Support for the Advanced Polymers Beamline (X27C) at the National Synchrotron Light Source	118
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-06ER41416 11/30/2009 Jung	SC-25	Development of the Beamline and ND280 Detector Subsystems for T2K Experiment	625
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-05ER41372 12/31/2010 Deshpande	SC-26.1	Studies of Polarized Proton Collisions at RHIC	270
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-03ER46085 03/31/2009 Parise	SC-22.21	The Spallation Neutron Source's High Pressure Beamline (SNSHPB)	120
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-04ER46128 04/14/2010 Kirz, Jacobsen	SC-22.21	High Resolution Lenseless 3D Imaging of Nanostructures with Coherent X-Rays	510
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-06ER46323 08/14/2009 Strey	SC-22.23	Electrostatically Self-Assembled Amphiphiles	170

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RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-90ER14114 11/14/2008 Belfort	SC-22.1	Chemical Interactions Between Protein Molecules and Polymer Materials	146
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-07ER15903 08/31/2010 Lakshmi	SC-22.13	Elucidating the Principles that Control Proton-Coupled Electron Transfer Reactions in the Photosynthetic Protein, Photosystem II. A Model for Design of ...	135
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-04ER25616 02/28/2009 Lim	SC-21.1	Dynamics and Statistical Mechanics of Rotating and Non-rotating Vortical Flows	0
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-05ER25697 08/14/2008 Fish	SC-21.1	A Mathematical Analysis of Atomistic-to-Continuum (AtC) Multiscale Approaches	150
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-05ER25666 05/31/2009 Herron	SC-21.1	Magnetorotational Instability Dissipative MHD Flows	84
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-06ER25769 12/14/2011 Shephard	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations	0
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-07ER25798 10/31/2009 Oberai	SC-21.1	New Directions in the Variational Multiscale Formulation of Large Eddy Simulation of Turbulence	235
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-04ER46104 11/30/2007 Kebllinski	SC-22.23	Fundamentals of Energy Transport in Nanofluids	0
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-05ER46249 09/30/2006 Kumar	SC-22.23	Influence of Surface Chemistry and Folding Free Energy on Protein Adsorption	-171
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-05ER46258 09/30/2009 Benicewicz	SC-22.23	Sol-Gel Based Polybenzimidazole Membranes for Hydrogen Pumping Devices	300
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-85ER53211 11/30/2010 Demers, Schoch	SC-24.2	HIBP Diagnostic Development to Advance Understanding of Plasma Transport Physics	243
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-85ER52118 11/30/2009 Steiner	SC-24.2	Advanced Design Studies	100
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-06ER46347 09/14/2009 Lin	SC-22.22	Investigation of Metallic Photonic-Crystals for the Modification of Thermal Emission	201
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-06ER46349 08/31/2009 Akpalu	SC-22.23	Advancing Renewable Materials by Integrated Light and X-ray Scattering	150
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER46298 07/14/2009 Teitel	SC-22.22	Simulation of Critical Behavior in Classical, Quantum, and Driven Condensed Matter Systems: Applications to Vortex	115

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ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER54839 07/31/2010 Theobald	SC-24.2	Advanced Concept Exploration of Fast Ignition	450
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER54879 07/14/2009 Ren	SC-24.2	Current-Driven Filament Instabilities in Relativistic Plasmas	111
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-93ER54215 11/30/2010 Betti	SC-24.2	Magnetohydrodynamics of Tokamak Plasma with Arbitrary Flow: Equilibrium, Stability and Nonlinear Evolution	98
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FC02-04ER54789 07/31/2009 Betti	SC-24.2	Fusion Science Center for Extreme States of Matter and Fast Ignition Physics	1,064
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-04ER54768 05/31/2010 Betti	SC-24.2	Laser Driven Magneto-Inertial Fusion	149
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-91ER40685 10/31/2011 McFarland	SC-25	Theoretical and Experimental Studies of Elementary Physics	2,370
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-88ER40414 12/31/2010 Schroeder	SC-26.1	Studies of Heavy Ion Reactions and Transuranic Nuclei	335
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER15821 08/31/2009 Krauss	SC-22.13	Impact Ionization and Photoinduced Charge Transport in Single-Walled Carbon Nanotubes	122
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-94ER20155 05/31/2010 Wu	SC-22.13	Transcription Regulation of CeIS and a Novel Cellulase Operon Encoding Five Clostridium thermocellum Cellulosomal Components	142
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER15722 12/14/2008 Yates	SC-22.12	Composite Fuel Cell Membranes Containing Aligned Inorganic Particles	100
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER15713 01/31/2012 Eberly	SC-22.11	Atomic and Molecular Electron Correlation in Strong Fields	100
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-90ER14125 02/28/2009 Eisenberg	SC-22.13	Design, Synthesis and Study Multi-Component and Integrated Systems for Light -Driven Hydrogen Generation	155
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-86ER13569 01/31/2011 Jones	SC-22.1	Transition Metal Activation and Functionalization of Carbon-Hydrogen Carbon-Carbon Bonds	128
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-01ER15204 10/31/2010 Novotny	SC-22.1	Antenna-Coupled Emission from Single Quantum Systems	135
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-07ER64338 06/30/2010 O'Banion	SC-23.2	Low Dose Ionizing Radiation and HZE Particle Effects on Adult Hippocampal Neurogenesis: A Sensitive Indicator of CNS Microenvironmental Changes	259

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ROCKEFELLER UNIVERSITY New York, NY	DE-FG02-91ER40651 01/31/2010 Goulianos	SC-25	Experimental Studies of Elementary Particle Interactions at High Energies	585
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-84ER40146 03/31/2011 Souder	SC-26.1	Spin Dependent Phenomena in Medium Energy Physics	265
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-85ER40231 12/31/2009 Balachandran	SC-25	Research Program in Elementary Particle Theory	288
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-04ER63902 08/31/2009 Bogucz	SC-23.2	The Syracuse University Environmental Systems Center "Intelligent Nested Environmental Systems (iNEST)" Project	0
UNION COLLEGE Schenectady, NY	DE-FG02-05ER41398 08/31/2010 Surman	SC-26.1	Neutrinos and Nucleosynthesis in Gamma Ray Bursts	30
UNION COLLEGE Schenectady, NY	DE-FG02-03ER41252 06/14/2009 Vineyard	SC-26.1	Nucleon Structure Studies with Electromagnetic Probes	56
Total for NY :				33,747

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AKRON, UNIVERSITY OF Akron, OH	DE-FG02-05ER46195 08/31/2006 Qiao	SC-22.22	Understanding Size Effect in Cleavage Cracking in Thin Film Materials	-199
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-89ER14024 05/31/2008 Lim	SC-22.11	Experimental and Computational Studies of Ultrafast Electronic Relaxation and Charge Transfer in Molecular Systems of Importance to Chemistry	79
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-90ER14151 04/30/2011 Perry	SC-22.1	Dynamics of Large Amplitude Motion in Energized Molecules	121
BOWLING GREEN STATE UNIVERSITY Bowling Green, OH	DE-FG02-06ER15827 08/31/2009 Lu	SC-22.11	Time Resolved Single-Molecule Chemical Imaging Studies of Interfacial Electron Transfer	160
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-01ER45934 11/14/2009 Rosenblatt	SC-22.23	Nanosopic Surface Modification for Liquid Crystal Orientation	127
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-05ER46244 08/31/2011 Taylor	SC-22.22	Theory, Modeling, and Simulation of Ion Transport in Ionomer Membranes	100
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-03ER63546 12/31/2007 Nadeau	SC-23.2	Mouse Mutagenesis Workshops	0
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-03ER63597 03/31/2007 Lee	SC-23.2	SPECT Imaging for In Vivo Tracking of NIS Containing Stem Cells	0
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-95ER40898 12/31/2009 Vachaspati	SC-25	Theoretical Physics Research at the High Energy Frontier, Including Astrophysics and Cosmology	240
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-96ER14600 06/30/2008 Scherson	SC-22.1	In-situ Spectroscopic and Structural Studies of Electrode Materials for Advanced Battery Applications	150
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-05ER64118 08/14/2008 Nadeau	SC-23.2	Pathways, Networks and Systems International Conferences	15
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-07ER64353 08/31/2009 Heineman	SC-23.4	Spectroelectrochemical Sensor for Pertechnetate Applicable to Hanford and other DOE Sites	199
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-04ER15604 08/14/2010 Guliantz	SC-22.12	Fundamental Studies of Propane Ammoxidation over Model Bulk and Supported V-Mo-Te-O Catalysts	145
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-84ER40153 12/31/2010 Wijewardhana	SC-25	Research in Particle Physics Task A and B	555
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-07ER41498 08/31/2009 Schwartz	SC-25	Development of a Focusing DIRC Detector for Particle Identification	25

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CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-04ER46129 04/14/2010 Jarrell	SC-22.22	Predictive Capability for Strongly Correlated Systems	40
KENT STATE UNIVERSITY Kent, OH	DE-FG02-06ER46331 08/14/2010 Lavrentovich	SC-22.22	Electric Field Effects in Liquid Crystals with Dielectric Dispersion	164
KENT STATE UNIVERSITY Kent, OH	DE-FG02-86ER40251 12/31/2009 Fai	SC-26.1	Theoretical Interpretation of High-Energy Nuclear Collisions	117
KENT STATE UNIVERSITY Kent, OH	DE-FG02-89ER40531 03/31/2009 Keane, Margetis	SC-26.1	Heavy Ion Collisions at the Highest Available Energies	365
MIAMI UNIVERSITY Oxford, OH	DE-FG02-07ER64369 03/14/2010 Dong	SC-23.4	Technetium and Iron Biogeochemistry in Suboxic Subsurface Environments with Emphasis on the Hanford Site	79
MIAMI UNIVERSITY Oxford, OH	DE-FG02-05ER64125 04/14/2009 Fields	SC-23.4	Identification of Molecular and Cellular Responses of <i>Desulfovibrio vulgaris</i> Biofilms Under Culture Conditions Relevant	227
MIAMI UNIVERSITY Oxford, OH	DE-FG02-07ER46389 05/31/2010 Kerr	SC-22.22	Defect Chemistry Study of Nitrogen Doped ZnO Thin Films	139
MIAMI UNIVERSITY Oxford, OH	DE-FG02-86ER45281 12/31/2010 Pechan	SC-22.22	Nanoscale Magnetodynamics and Beyond	60
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER64489 09/14/2010 Tabita	SC-23.2	Bioengineering and Coordination of Regulatory Networks and Intracellular Complexes to Maximize Hydrogen Production by Phototrophic Microorganisms	600
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-04ER25635 12/31/2007 Krishnamurthy	SC-21.1	PetaScale Application Development Analysis	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-05ER25660 01/31/2008 Sadayappan	SC-21.1	MOLAR: Modular Linux and Adaptive Runtime support for HEC OS/R research	74
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-91ER20033 09/14/2008 Tabita	SC-22.13	Biochemistry and control of the reductive tricarboxylic acid pathway of CO2 fixation and physiological role of the RubisCO-like	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-91ER20042 07/31/2009 Krzycki	SC-22.13	Transmethylation reactions during methylotrophic methanogenesis in methanogenic Archaea	123
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER15861 04/30/2008 McCoy	SC-22.11	Student and Postdoc Support for the 2007 Dynamics of Molecular Collisions Conference - July 6-14, 2007	7
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER15881 07/31/2010 Grotewold	SC-22.13	Engineering Phenolic Metabolism in the Grasses Using Transcription Factors	139



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ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER15896 08/14/2010 Ozkan	SC-22.12	Investigation of the Nature of Active Sites on Heteroatom-Containing Carbon Nano-Structures for Oxygen Reduction	160
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER15844 12/31/2009 Chisholm	SC-22.12	Mechanistic and Synthetic Studies Aimed at the Development of Single-Site Metal Alkoxide Catalysts for the Generation of Polyesters and Polycarbonates	135
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-06ER15833 08/31/2009 DiMauro	SC-22.11	Imaging of Electronic Wave Functions During Chemical Reactions	222
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FC02-06ER25749 09/14/2011 Panda	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	200
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-06ER25735 08/14/2009 Wang	SC-21.1	Feature Extraction, Characterization, and Visualization for Protein Interaction via Geometric and Topological Methods	96
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FC02-06ER25755 09/14/2011 Panda	SC-21.1	Center for Programming Models for Scalable Parallel Computing	300
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FC02-06ER25775 12/14/2011 Catalyurek	SC-21.1	SciDAC Institute: Combinatorial Scientific Computing and Petascale Simulations (CSCAPES)	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FC02-06ER25779 12/14/2011 Shen	SC-21.1	SCIDAC Institute for Ultrascale Visualization	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-95ER40900 12/31/2009 Collings	SC-25	Material, Strands, and Cables for Superconducting Accelerator Magnets	332
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-91ER40690 11/30/2010 Kass	SC-25	Research in Elementary Particle Physics	2,280
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-04ER15495 11/14/2009 Allen	SC-22.12	Metal-Anion Pairing at Oxide/Water Interfaces: Theoretical and Experimental Investigations from the Nanoscale to the	79
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-06ER15776 04/14/2009 Dutta, Kohler, Verweij	SC-22.13	Photoactive Inorganic Membranes for Charge Transport	220
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-05ER15715 07/31/2009 Braaten	SC-22.11	Exploiting Universality in Atoms with Large Scattering Lengths	120
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-04ER15614 10/31/2010 DiMauro	SC-22.11	Attosecond and Ultra-Fast X-Ray Science	200
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-87ER13731 03/31/2009 Reeve	SC-22.13	Regulation of Methane Genes and Genome Expression	153

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ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-01ER15135 10/14/2009 McCoy, Bursten	SC-22.12	The Electronic Structure of Heavy Element Complexes	100
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-01ER15172 10/31/2010 Miller	SC-22.1	Detection and Characterization of Free Radicals Relevant to Combustion Processes	140
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-01ER63241 12/31/2007 Tabita	SC-23.2	Integrative Control of Key Metabolic Processes in Rhodospseudomonas Palustris	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-97ER62454 03/31/2008 Tabita	SC-23.3	The Ecology and Genomics of CO2 Fixation in Oceanic River Plumes	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER46427 08/31/2010 Wu	SC-22.22	Designing Nanoparticle/Nanowire Composites and "Nanotree" Arrays as Electrodes for Efficient Dye-Sensitized Solar Cells	250
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER46423 07/31/2010 Trivedi	SC-22.22	Large Scale Quantum Simulations of Disordered Transition Metal Oxides: Self-Organized Inhomogeneous Nanoscale	120
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-07ER46424 07/31/2010 Meyer	SC-22.22	Interaction Effects in Quasi-One-Dimensional Electron Systems	110
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-03ER46054 07/14/2010 Hammel	SC-22.21	Microscopic Subsurface Characterization of Layered Magnetic Materials Using Magnetic Resonance Force Microscopy	169
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-01ER45931 12/14/2010 Epstein	SC-22.23	Spin Coherence at the Nanoscale: Polymer Surfaces and Interfaces	250
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-04ER46137 05/14/2008 Mills	SC-22.22	Mechanisms of High Temperature/Low Stress Creep of Ni-Based Superalloy Single Crystals	0
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-06ER46330 08/31/2009 Mazumder	SC-22.22	First-Principles Modeling Study of Phonon Heat Conduction in Nanoscale Crystalline Structures	110
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-86ER45271 06/30/2009 Epstein	SC-22.23	Synthesis and Properties of Molecule/Polymer-Based Magnetic Materials	205
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-99ER45795 06/30/2010 Wilkins	SC-22.22	Modeling Dynamically and Spatially Complex Materials	170
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-01ER41190 04/14/2010 Heinz	SC-26.1	Theory of Ultra-Relativistic Heavy-Ion Collisions	277
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-05ER41377 06/14/2010 Kovchegov	SC-26.1	High Energy QCD	120

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-06ER41432 12/31/2009 Kagan	SC-25	Fabrication and Testing of Single Crystal Chemical Vapor Deposition Diamonds for Detector Applications	49
ATE UNIVERSITY RESEARCH FOUND. Columbus, OH	DE-FG02-06ER41429 08/31/2008 Beatty	SC-25	Development of a Low-Power, Low-Cost, Front-End Electronics Module for Large-Scale Distributed Neutrino Detectors	0
OHIO UNIVERSITY Athens, OH	DE-FG02-02ER46012 09/14/2011 Hla	SC-22.22	Single Atom and Molecule Manipulation and Its Application to Nanoscience and Nanotechnology	111
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46300 07/31/2009 Castillo	SC-22.22	Fluctuations in the Dynamics of Glasses	83
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46317 07/31/2009 Smith	SC-22.22	Spin-Polarized Scanning Tunneling Microscopy Studies of Nanoscale Magnetic and Spintronic Nitride Systems	130
OHIO UNIVERSITY Athens, OH	DE-FG02-93ER40756 10/31/2010 Elster	SC-26.1	Nuclear Dynamics and Astrophysics in Few- and Many-Body Systems	357
OHIO UNIVERSITY Athens, OH	DE-FG02-88ER40387 11/30/2011 Grimes	SC-26.1	Studies of Nuclear Astrophysics, Structure, and Reactions with Neutrons, Radioactive Beams, and Other Probes	325
WRIGHT STATE UNIVERSITY Dayton, OH	DE-FG02-03ER15379 10/31/2011 Higgins	SC-22.1	Kinetic Complexity of Mineral-Water Interface Reactions Relevant to CO2 Sequestration: Atomic-Scale Reactions to Macroscale Processes	109
WRIGHT STATE UNIVERSITY Dayton, OH	DE-FG02-06ER64196 10/14/2007 Hunt	SC-23.4	Applying Distributions of Hydraulic Conductivity for Anisotropic Systems to TcTransport at the U.S. Department of	0
Total for OH :				11,533

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
LANGSTON UNIVERSITY Langston, OK	DE-FG02-99ER41109 05/14/2009 Snow	SC-25	Langston University - High Energy Physics (LU-HEP)	68
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-96ER20215 03/31/2011 Mort	SC-22.13	The Structure of Pectins	110
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER46124 02/28/2010 Xie	SC-22.22	Quantum Charge and Spin Transport	80
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER46140 08/14/2010 Nandi, Wicksted	SC-22.21	Oklahoma Center for High Energy Physics Research	445
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-04ER41306 04/30/2010 Nandi	SC-25	Theoretical Research in Weak, Electromagnetic, and Strong Interactions	213
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-07ER46362 01/31/2010 Mintmire	SC-22.21	Optoelectronic properties of Carbon Nanostructures	150
OKLAHOMA STATE UNIVERSITY Stillwater, OK	DE-FG02-07ER64413 05/14/2009 Atekwana	SC-23.4	Solid State Electron Transfer via Bacterial Nanowires: Contributions Toward a Mechanistic Understanding of Geophysical Response of Biostimulated Subsurface....	40
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER64383 03/31/2010 Zhou	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	404
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-05ER64062 05/31/2011 Lamb	SC-23.3	Scientific Guidance, Research, and Educational Outreach for the ARM Climate Research Facility (ACRF) in the Southern Great Plains	433
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64245 04/30/2008 Lamb	SC-23.3	Workshop to Promote and Coordinate U.S. Contributions to AMMA on Land Surface, Water Cycle, Aerosol, and Radiation Budget	0
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64205 02/28/2009 Zhou	SC-23.2	Deduction and Analysis of the Interacting Stress Response Pathways of metal/Radionuclide-Reducing Bacteria	901
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64200 02/28/2008 Zhou	SC-23.2	The Shewanella Federation: Functional Genomic Investigations of Dissimilatory Metal-Reducing Shewanella	0
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER64319 08/31/2009 Luo	SC-23.3	Data-Model Assimilation at the FACE and AmeriFlux Sites Toward Predictive Understanding of Carbon Sequestration at Ecosystem and Regional Scales	250
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER46361 01/31/2010 Shafer-Ray	SC-22.21	Ro-vibrational Relaxation Dynamics of PbF Molecules	172
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-04ER41305 04/30/2010 Skubic, Milton	SC-25	Experimental Physics Investigations Using Colliding Beam Detectors at Fermilab, Cornell and LHC; Nonperturbative Quantum Field Theory Beyond the Standard Model	626

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OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER41517 08/31/2009 Baron	SC-25	Spectroscopic Studies of SNe Ia: Finding the Right Model	90
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-96ER20214 03/14/2011 McInerney	SC-22.13	Bioenergetic Aspects of Syntrophic Fatty and Aromatic Acid Metabolism	114
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-02ER15345 02/28/2009 Resasco	SC-22.1	Understanding the Mechanism of Nanotube Synthesis for Controlled Production of Specific (n,m) Structures	150
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER15769 07/31/2011 Krumholz	SC-22.13	Genes Needed for H2 Production by Sulfate Reducing Bacteria	301
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-07ER54931 07/14/2010 Brennan	SC-24.2	Hot Particle and Turbulent Transport Effects on Resistive Instabilities	136
Total for OK :				4,683

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
ON HEALTH & SCIENCE UNIVERSITY Beaverton, OR	DE-FG02-06ER64222 03/31/2010 Tratnyek	SC-23.4	The Reaction Specificity of Nanoparticles in Solution: Application to the Reaction of Nanoparticulate Iron and Iron-Bimetal Compounds with Chlorinated...	90
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-06ER64228 06/30/2009 Tebo	SC-23.4	Coupled Biogeochemical Processes Governing the Stability of Bacteriogenic Uraninite and Release of U(VI) in Heterogeneous	130
OREGON INSTITUTE OF TECHNOLOGY Klamath Falls, OR	DE-FG02-06ER64214 09/30/2007 Lund	SC-23.2	Technical Support and Transfer of Geothermal Technical Knowledge and Information	0
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-06ER64318 08/31/2009 Law	SC-23.3	The Effects of Disturbance & Climate on Carbon Storage & the Exchanges of CO2 Water Vapor & Energy Exchange of Evergreen	506
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-06ER64307 08/31/2009 Law	SC-23.3	Enhancing the Precision and Accuracy Within and Among Ameriflux Site Measurements	497
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-07ER64361 09/14/2010 Law, Goeckede	SC-23.3	Integrating Remote Sensing, Field Observations, & Models to Understand Disturbance & Climate Effects on the	510
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-05ER64130 08/31/2009 Ely	SC-23.2	Metabolic Engineering of Light and Dark Biochemical Pathways in Wild-Type and Mutant Strains of Synechocystis PCC 6803 for Maximal, 24-Hour Production of...	264
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-05ER64113 08/14/2009 Strauss	SC-23.2	Genetic Modification of Gibberellic Acid Signaling to Promote Carbon Sequestration in Tree Roots and Stems	395
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-05ER63986 09/30/2008 Istok	SC-23.4	Stability of U(VI) and Tc(VII) Reducing Microbial Communities to Environmental Perturbation: Development and Testing of a Thermodynamic Network Model	360
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-04ER63917 08/31/2008 Law	SC-23.3	Synthesis of Remote Sensing and Field Observations to Model and Understand Disturbance and Climate Effects on the	0
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-04ER63911 09/14/2010 Law	SC-23.3	AmeriFlux Measurement Network: Science Team Research	493
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-07ER64417 05/14/2010 Wood	SC-23.4	Mechanistically-Based Field-Scale Models of Uranium Biogeochemistry from Upscaling Pore-Scale Experiments and Models	111
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-04ER63781 03/14/2008 Arp	SC-23.2	Metabolomic Functional Analysis of Bacterial Genomes	0
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-97ER41026 12/31/2011 Loveland	SC-26.1	Studies of Heavy Nuclei Produced in Low and Intermediate Energy Nuclear Collisions	130
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-06ER15819 08/14/2009 Egbert	SC-22.12	Efficient Inversion of Multi-frequency and Multi-source Electromagnetic Induction Data	95

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OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-05ER25700 08/14/2008 Showalter	SC-21.1	Modeling, Analysis and Simulation of Multiscale Preferential Flow	204
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-04ER15583 11/30/2008 Thomas	SC-22.11	Inner-Shell Electron Spectroscopy and Chemical Properties of Atoms and Small Molecules	63
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER15634 12/31/2010 Kellman	SC-22.1	Dynamical Analysis of Highly Excited Spectra	130
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER25680 09/30/2008 Malony	SC-21.1	Application-Specific Performance Technology for Productive Parallel Computing	264
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER25663 01/31/2008 Malony	SC-21.1	Extreme Performance Scalable Operating Systems	207
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER15870 05/14/2008 Wang	SC-22.11	Fundamental Optical Processes in Semiconductors - Conference to be held July 23-27, 2007	5
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER15907 08/31/2010 Lonergan	SC-22.13	Conjugated Ionomers for Photovoltaic Applications: Electric Field Driven Charge Separatin at Organic Junctions	150
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40969 03/31/2011 Brau	SC-25	Task A: Theory of Elementary Particles; Task B Experimental High Energy Physics	931
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40972 04/30/2011 Hwa	SC-26.1	Physics of Nuclear Collisions at High Energy	88
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER25826 08/14/2010 Malony	SC-21.1	Knowledge-Based Parallel Performance Technology for Scientific Application Competitiveness	479
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER41383 07/31/2010 Brau	SC-25	University-Based Detector Research & Development for the International Linear Collider	1,458
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER45557 10/31/2010 Richmond	SC-22.23	Wet Interfaces: Molecular Processes Underlying the Structure and Assembly of Thin Films and Nanoparticles at Complex Interfaces	211
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-04ER46158 08/31/2011 Kevan	SC-22.22	Manybody Interactions in Magnetic Films and Nanostructures	0
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-03ER46061 07/14/2009 Richmond	SC-22.23	Research Project on the Recruitment, Retention, and Promotion of Women in the Chemical Sciences	155
PARATOOLS, INC. Eugene, OR	DE-FC02-07ER54910 02/14/2012 Malony	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	80

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-06CH11404 06/30/2009 Wamser	SC-23	Solar Photovoltaic Test Facility System	0
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-07ER46406 06/30/2010 Koenenkamp	SC-22.21	Electron Mapping on the Nanoscale	239
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-04ER63913 09/14/2008 Khalil	SC-23.3	Emissions of Greenhouse Gases from Rice Agriculture	0
Total for OR :				8,245



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-05ER15717 06/14/2008 Sholl	SC-22.12	Rapid Ab Initio Screening of Ternary Alloys for Hydrogen Production	100
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-07ER15919 08/14/2010 Kitchin	SC-22.12	Modeling Coverage Dependence in Surface Reaction Networks	230
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-05ER25695 08/14/2008 Langmead	SC-21.1	Modeling Protein Structures with Conditional Random Fields	100
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER25438 12/14/2010 Gurtin	SC-21.1	Continuum Mechanical and Computational Aspects of Material Behavior	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FC02-06ER25767 12/14/2011 Gibson	SC-21.1	Petascale of Data Storage Institute	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-87ER40315 11/30/2010 Franklin	SC-26.1	Experimental Medium Energy Physics	865
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-87ER40324 12/31/2007 Kaplan	SC-26.1	Nuclear Research with Heavy Ions	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-91ER40682 10/31/2009 Ferguson	SC-25	Research in Experimental and Theoretical High Energy Physics	1,406
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-07ER41493 08/31/2009 Russ	SC-25	Prototype Power and Communication System for EeV Cosmic Ray Studies	26
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER45893 06/30/2011 De Graef	SC-22.21	Experimental Vector Field Electron Tomography of Magnetic Objects	35
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-00ER41134 06/30/2009 Lane	SC-25	Neutrino Physics at KamLAND	104
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-07ER46473 08/31/2010 Gogotsi	SC-22.23	Silicon Carbide Derived Carbons: Experiments and Modeling	120
DUQUESNE UNIVERSITY Pittsburgh, PA	DE-FG02-07ER64372 03/14/2010 Stolz	SC-23.4	Nitrate Enhanced Microbial Cr(VI) Reduction	132
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-00ER45819 11/30/2007 Eades	SC-22.21	Strain Measurement in Thin Films	0
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-06ER46318 07/31/2009 Toulouse	SC-22.22	Multiscale Dynamics of Relaxor Ferroelectrics	135

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LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-07ER46463 05/14/2010 Jagota	SC-22.23	Designing Two-Level Biomimetic Fibrillar Interfaces	285
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-92ER54141 11/30/2009 Kritz	SC-24.2	Predicted Integrated Modeling of Heated Tokamak Plasmas	508
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-07ER54927 07/31/2010 Kritz	SC-24.2	National Transport Code Collaboration (NTCC) PTRANSP	150
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-05ER25694 12/31/2007 Linderoth	SC-21.1	Optimization Under Nonconvexity and Uncertainty: Algorithms and Software	77
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-05ER15720 06/14/2011 Regen	SC-22.12	Porous and Glued Langmuir-Blodgett Membranes	130
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-06CH11431 06/30/2008 Sause, Meischeid	SC-23	Lehigh University Critical Infrastructure Lab	0
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-93ER14350 06/14/2009 Wachs	SC-22.1	Photoxidation of H2O and C3 Hydrocarbons to H2 Fuel and C3-Oxygenates with Molecular Designed Heterogeneous Nano-Photocatalysts	265
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-04ER46159 02/28/2011 Liu	SC-22.22	P-Wave Superconductivity in Sr2Ru04 and Other Possible New Superconductors	114
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-02ER46009 02/28/2009 Castleman	SC-22.23	Establishing Concepts for the Use of Clusters as Building Blocks of New Nanoscale Materials	175
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-01ER45912 08/14/2009 Larson	SC-22.21	10-100 ueV Multichopper Spectrometer	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER46222 09/14/2011 Golbeck	SC-22.23	A Hybrid Biological/Organic Half-Cell for Generating Dihydrogen	175
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER41460 11/14/2009 Gamberg	SC-26.1	Transversity and Transverse Spin Correlations of Quarks and Hadrons in QCD	40
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-04ER63773 03/31/2008 Ivanova	SC-23.3	Scaling Models of the Internal Variability of Clouds	100
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-90ER61071 10/31/2009 Clothiaux	SC-23.3	Retrieval of Cloud Properties and Direct Testing of Cloud and Radiation Parameterizations Using ARM Observations	147
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46371 05/31/2010 Allcock	SC-22.22	The State of Water in Proton Conducting Membranes	135

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PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46414 08/14/2010 Velegol	SC-22.23	Nanocolloidal Forces for Stability or Assembly	271
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46417 07/31/2010 Chen	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures	81
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46409 08/31/2010 Colby	SC-22.23	Conduction Mechanisms and Structure of Ionomeric Single-Ion Conductors	437
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46410 08/31/2011 Zhang	SC-22.23	Possible Giant Electrocaloric Effect at Room Temperature in Relaxor Ferroelectric Polymers	158
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-90ER40577 12/31/2011 Collins	SC-25	Theoretical Studies in Elementary Particle Physics	130
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-93ER40771 12/31/2010 Strikman	SC-26.1	Theoretical Studies in High Energy Nuclear Physics	120
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15911 08/31/2010 Mallouk	SC-22.13	Nanostructured Photocatalytic Water Splitting Systems	170
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-95ER20198 08/14/2011 Ferry	SC-22.13	New Perspectives on Acetate and One-Carbon Metabolism in the Methanoarchaea	114
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-96ER20234 08/14/2008 Guiltinan	SC-22.13	Molecular Genetic Analysis of Maize Starch Branching Isoforms: Modulation of Starch Branching Enzyme Isoform Activities in	114
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-93ER20117 06/30/2008 Brenchley	SC-22.13	The Characterization of Psychrophilic Microorganisms and Their Potentially Useful Cold-Active Glycosidases	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-94ER20137 03/31/2012 Bryant	SC-22.13	Light Energy Transduction in Green Sulfur Bacteria	133
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15876 06/14/2008 Castleman	SC-22.11	Gordon Conference - Clusters, Nanocrystals and Nanostructures - July 29th - August 3rd, 2007	5
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15877 06/14/2010 Weiss	SC-22.12	Local Optical Spectroscopies for Subnanometer Spatial Resolution Chemical Imaging	185
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15891 04/30/2010 Tien	SC-22.13	Modification of Lignin by Protein Cross-Linking to Facilitate Production of Biofuels from Poplar	100
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER25684 08/31/2011 Maranas	SC-21.1	Development of Computational Tools for Metabolic Models Curation, Flux, Elucidation and Strain Design	420

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PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-98ER20314 08/31/2010 Golbeck	SC-22.13	Homodimeric Type I Photosynthetic Reaction Centers in Anoxygenic Bacteria	154
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER15675 08/31/2011 Brantley	SC-22.12	An Investigation of Roughness and Weathering at the Bedrock-Regolith Interface	222
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-06ER15772 03/31/2009 Grimes	SC-22.13	Broad Spectrum Photoelectrochemical Diodes for Solar Hydrogen Generation	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER15756 05/31/2009 Barber	SC-22.13	Dye-Sensitized Tandem Photovoltaic Cells	145
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-06ER15803 06/30/2009 Winograd	SC-22.12	Chemical Imaging With Cluster Ion Beams and Lasers	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER15749 05/31/2009 Mallouk	SC-22.13	Photoelectrochemistry of Semiconductor Nanowire Arrays	230
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-02ER15332 08/31/2011 Ma	SC-22.13	Analysis of Anther Cell Differentiation	114
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG07-99ER15012 09/14/2005 Mueller	SC-23.4	Caustic Waste-Soil Weathering Reactions and Their Impacts on Trace Contaminant Migration and Sequestration	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13295 11/30/2009 Sen	SC-22.1	Transition Metal Mediated Transformations of Small Molecules	140
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13179 04/30/2011 Cosgrove	SC-22.13	Molecular Mechanisms of Plant Cell Wall Loosening	123
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-92ER14258 04/30/2010 Castleman	SC-22.11	Elucidating the Molecular Level Mechanisms of Oxidation Reactions Effected by Heterogeneous Catalysts	143
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-89ER14020 04/14/2011 Maroncelli	SC-22.13	Solvation and Charge Transfer in Ionic Liquids and Polar Solvents	172
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-87ER13690 03/14/2009 Tien	SC-22.13	Transcriptome and biochemical analyses of fungal degradation of wood	60
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER64399 03/31/2009 Tien, Brantley	SC-23.4	Biochemical Mechanisms and Energy Strategies of Geobacter Sulfurreducens	214
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-04ER63914 08/31/2008 Burgos	SC-23.4	Reaction-Based Reactive Transport Modeling of Fe(III) and U(V) Reduction	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER64002 12/15/2007 Macdonald	SC-23.4	Development of Advanced Electrochemical Emission Spectroscopy for Monitoring Corrosion in Simulated DOE Liquid Waste	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER63966 02/14/2009 Grutzeck	SC-23.4	Physical, Chemical and Structural Evolution of Zeolite - Containing Waste Forms Produced from Metakaolinite and Calcined HLW	45
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER64058 05/31/2011 Verlinde, Harrington	SC-23.3	North Slope Site Scientist Team	336
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-06ER64315 08/31/2009 Davis	SC-23.3	Synthesis of Carbon Dioxide Flux and Mixing Ratio Measurements in Support of the North American Carbon Program Midcontinental Regional Intensive	208
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FC02-06ER64157 11/30/2010 Davis	SC-23.3	Northeastern Regional Center of the National Institute for Climatic Change Research	1,651
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-87ER13792 04/30/2011 Lester	SC-22.11	Half Collision Studies of Inelastic Transfer Processes	150
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-86ER13615 08/31/2008 Wayland	SC-22.12	Catalytic Hydrogenation of Carbon Monoxide and Hydrocarbon Oxidations	130
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-85ER13350 03/31/2009 Gorte	SC-22.1	Studies of Metal-Oxide and Oxide-Oxide Interactions in Ceria-Based Catalysis	162
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-01ER15169 07/31/2008 Pohlschroder	SC-22.13	Protein Translocation via the Haloarchaeal Twin Arginine Translocation Pathway	50
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-02ER15299 11/30/2008 Therien	SC-22.1	Fundamental Studies of Charge Migration and Delocalization Relevant to Solar Energy Conversion	145
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER15721 06/30/2011 Gorte	SC-22.12	The Development of Nano-Composite Electrodes for Natural Gas-Assisted Steam Electrolysis for Hydrogen Production	325
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER15719 06/30/2011 Sneddon	SC-22.12	Mechanistic Studies of Activated Hydrogen Release from Amine Boranes	300
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-04ER15605 08/14/2010 Vohs	SC-22.12	Fundamental Studies of the Steam Reforming of Alcohols on PdZnO and Co/ZnO Catalysts	136
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-99ER20328 08/31/2009 Poethig	SC-22.13	Genetic regulation of adaxial-abaxial polarity in Arabidopsis	114
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER15920 08/14/2010 Rappe	SC-22.12	Theoretical Studies of Catalyst Tunability at Ferroelectric Oxide Surfaces	310

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PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-91ER20052 04/30/2011 Daldal	SC-22.13	Membrane-Attached Electron Carriers in Photosynthesis and Respiration	124
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-91ER20055 08/31/2009 Rea	SC-22.13	Mechanistic basis of phytochelatin transport	123
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-95ER40893 10/31/2011 Williams	SC-25	High Energy Physics Research	3,245
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-88ER40479 12/31/2008 Beier	SC-26.1	Sudbury Neutrino Observatory	920
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER46431 08/14/2010 Rappe	SC-22.22	Semiconductor Ferroelectrics and Surface Nanomaterials for Highly Efficient Solar Hydrogen Production	210
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-84ER45118 01/31/2012 Mele	SC-22.22	Electronic and Piezoelectric Phenomena in Nanostructures	105
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-98ER45701 12/31/2008 Fischer	SC-22.21	Carbon Nanotubes: Properties and Applications	205
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-98ER45702 06/30/2010 Vitek	SC-22.21	Multiscale Modeling of Dislocation Behavior in Non-Magnetic Transition Metals and Ferromagnetic Iron	140
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46223 09/14/2011 Dutton	SC-22.23	Modular Designed Protein Constructions for Solar Generated H2 From Water	200
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46199 04/30/2010 Liu	SC-22.22	Studies of the Marginally Jammed Solid	110
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-04ER46156 08/31/2010 Blasie	SC-22.23	Design, Synthesis and Characterization of Novel Electronic and Photonic BioMolecular Materials	540
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-04ER46110 08/31/2007 Ponte-Casteneda	SC-22.22	Multiscale Modeling of Nanostructured Triblock Copolymers	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-02ER45998 11/14/2011 Balazs	SC-22.23	Theoretical Modeling, Synthesis and Characterization of Self-Healing Coatings	341
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-01ER45919 08/31/2007 Yang	SC-22.21	Multiscale Anomistic Simulations of Metal-Oxygen Surface Interactions: Methodological Development, Theoretical	67
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-05ER46233 08/31/2009 Veser	SC-22.23	Multiscale Tailoring of Highly Active and Stable Nanocomposite Catalysts	100

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PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-98ER45686 02/28/2010 Jasnow, Coalson	SC-22.22	Statistical Mechanics of Polymers and Flux-Lines in Random Media	80
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-99ER45780 12/14/2011 Snoke	SC-22.22	Indirect Excitons in Coupled Quantum Wells: New Studies with Dark Excitons	82
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-90ER45438 11/30/2011 Balazs	SC-22.23	Designing Colonies of Communicating Microcapsules that Exhibit Collective Behavior	119
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER41135 11/30/2010 Swanson	SC-26.1	Studies of the Quark and Gluon Structure of Nuclear and Hadronic Matter	105
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46446 07/31/2010 Yang	SC-22.21	Multiscale Atomistic Simulation of Metal-Oxygen Surface Interactions: Methodological Development, Theoretical	207
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46430 08/31/2010 Waldeck	SC-22.22	Nanocrystal-Based Dyads for Solar to Electric Energy Conversion	230
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46421 08/14/2010 Levy	SC-22.22	Development of Spintronic Bandgap Materials	290
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-91ER40646 10/31/2011 Shepard	SC-25	Experimental Particle Physics	749
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-04ER25618 02/28/2011 Yotov	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-03ER15434 04/14/2008 Petek	SC-22.11	Optical Manipulation of Ultrafast Electron and Nuclear Motion on Metal Surfaces	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER15066 06/30/2009 Jordan	SC-22.11	Understanding the Electron-Water Interaction at the Molecular Level: Integrating Theory and Experiment in the	90
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-88ER13864 02/14/2007 Yates	SC-22.1	Surface Bonding of Molecules, Their Reactions and Confinement Effects in the Chemisorbed Layer	-39
SAINT JOSEPH'S UNIVERSITY Philadelphia, PA	DE-FG02-06CH11432 08/31/2008 DeVito, Wachterhauser	SC-23	Installation and Replacement of Fume Hoods in Saint Joseph's University Science Center in the Department of Chemistry	0
SWARTHMORE COLLEGE Swarthmore, PA	DE-FG02-00ER54604 11/30/2009 Brown	SC-24.2	Novel CT's Equilibrium, Stability, and Dynamics	169
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-94ER40844 03/31/2009 Meziani	SC-26.1	Nuclear Research Using the Electromagnetic Probe	260

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-05ER25672 07/31/2011 Szyld	SC-21.1	Krylov Subspace and Schwarz Methods for PDEs, Control, and Other Problems	179
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-96ER14644 11/30/2011 Strongin	SC-22.12	Reactivity of Iron-Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary Experimental Approach	82
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-05ER15638 12/31/2007 Borguet	SC-22.12	Real Time Dynamics of Laser Activated Interface Processes at the Molecular Scale	0
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-01ER45872 01/31/2009 Riseborough	SC-22.22	Strongly Correlated Electron Systems	76
THOMAS JEFFERSON UNIVERSITY Philadelphia, PA	DE-FG02-05ER64084 06/30/2009 Wang	SC-23.2	Characterization of the Role of Fhit in Maintenance of Genomic Integrity Following Low Dose Radiation, In Vivo and In Vitro	327
Total for PA :				23,522



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
PUERTO RICO, UNIVERSITY OF Mayaguez, PR	DE-FG02-05ER64029 03/31/2008 Corredor	SC-23.3	The Ecology and Genomics of CO2 Fixation in Oceanic River Plumes	0
PUERTO RICO, UNIVERSITY OF Mayaguez, PR	DE-FG02-97ER41045 05/31/2010 Lopez	SC-25	UPR/Mayaguez High Energy Physics	180
PUERTO RICO, UNIVERSITY OF San Juan, PR	DE-FG02-01ER45868 08/31/2008 Katiyar	SC-22.21	Novel Energy Sources - Material Architecture and Charge Transport in Solid State Ionic Devices	0
Total for PR :				180

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER15413 02/28/2008 Rose-Petruck	SC-22.1	Development and Characterization of Replicable Tabletop Ultrashort Pulse X-ray Sources for Chemical Dynamics Research	0
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER15452 10/31/2009 Weber	SC-22.11	Probing Chemical Dynamics by Structurally Sensitive Photoionization	142
BROWN UNIVERSITY Providence, RI	DE-FG02-84ER13235 04/14/2009 Diebold	SC-22.12	Photoacoustic and Thermal Effects in Particulate Suspensions	100
BROWN UNIVERSITY Providence, RI	DE-FG02-06CH11421 09/29/2008 Sanes	SC-23	Equipping and Constructing an MRI Facility	0
BROWN UNIVERSITY Providence, RI	DE-FG02-91ER40688 10/31/2009 Cutts	SC-25	A Research Program in Theoretical and Experimental High Energy Physics	1,502
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER25818 03/31/2010 Karniadakis	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in	97
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER25582 03/31/2008 van Dam	SC-21.1	Application Driven Research, Development, and Evaluation of Interactive Scientific Visualization Techniques in Multiple Working Environments	0
BROWN UNIVERSITY Providence, RI	DE-FG02-98ER25346 02/28/2011 Hesthaven	SC-21.1	Parallel High Order Accuracy Methods (Deterministic and Stochastic) Applied to Non-Linear Equations	0
BROWN UNIVERSITY Providence, RI	DE-FG02-01ER45913 11/30/2011 Chason	SC-22.23	Mechanisms of Sputter Ripple Formation: Coupling Among Energetic Ions, Surface Kinetics, Stress and Composition	124
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER46074 05/31/2007 Doll	SC-22.23	Theoretical Studies of Hydrogen Storage Alloys	0
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER46387 05/31/2010 Nurmikko	SC-22.22	Hybrid Inorganic Nitride Organic Semiconductor Heterostructures	205
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER46458 08/14/2010 Ling	SC-22.21	Neutron Scattering Studies of Vortex Matter in Type-II Superconductors	193
BROWN UNIVERSITY Providence, RI	DE-FG02-04ER63942 03/14/2009 Lawrence	SC-23.2	Development of Bioinformatics and Experimental Technologies for Identification of Prokaryotic Regulatory Networks	0
Total for RI :				2,363

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-06ER46342 08/14/2010 Chumanov	SC-22.23	Asymmetric Hybrid Nanoparticles (AHNs)	130
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-04ER46139 08/14/2010 Tritt	SC-22.21	The Next Generation Solid State Power Conversion Materials	719
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER46364 01/31/2010 Ogale	SC-22.21	Surface Anchoring of Nematic Phase on Carbon	150
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER46456 05/14/2010 Perahia	SC-22.23	The Study of Hydrophobic and Ionizable Hydrophilic Copolymers at Polymer/Solid and Polymer/Liquid Interfaces	147
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-05ER15718 06/14/2011 Creager	SC-22.12	Fluoropolymers, Electrolytes, Composites and Electrodes	250
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-05ER63971 12/14/2007 DeVol	SC-23.4	Radioanalytical Chemistry for Automated Nuclear Waste Process Monitoring	0
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER64407 04/14/2009 Schlautman	SC-23.4	Optimizing Metalloporphyrin-Catalyzed Reduction Reactions for In Situ Remediation of DOE Contaminants	99
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER64411 12/31/2009 DeVol	SC-23.4	Radionuclide Sensors for Subsurface Water Monitoring	60
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-07ER64401 04/14/2010 Molz	SC-23.4	Biogeochemical Processes Responsible for the Enhanced Transport of Plutonium Under Transient Unsaturated Ground Water	112
AROLINA, MEDICAL UNIVERSITY OF Charleston, SC	DE-FG02-00ER63063 08/31/2007 Kraft, Turrisi	SC-23.2	Image-Based Cancer Treatment Planning	0
AROLINA, MEDICAL UNIVERSITY OF Charleston, SC	DE-FG02-01ER63121 08/31/2008 Reed, Kraft	SC-23.2	Oncology Center	0
AROLINA, MEDICAL UNIVERSITY OF Charleston, SC	DE-FG02-02ER63385 04/30/2008 Lacy	SC-23.2	Nuclear Magnetic Resonance Project at the Medical University of South Carolina	0
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-07ER46428 08/31/2010 Adams	SC-22.22	Hybrid Organic-Inorganic Composite Solar Cells for Efficient, Low-Cost, Photoelectric Energy Conversion	250
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-99ER45763 04/14/2011 Kunchur	SC-22.22	Transport Behavior of Superconductors at High Dissipation and Short Timescales	83
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-03ER46043 05/14/2008 Gudkov	SC-22.21	Fundamental Problems of Neutron Physics at the Spallation Neutron Source at the ORNL	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-06ER46270 12/31/2008 Knight	SC-22.21	Analysis and Development of a Robust Fuel for Gas-Cooled Fast Reactors	150
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-95ER40910 05/31/2010 Rosenfeld, Purohit	SC-25	Experimental Particle Physics	593
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-04ER25608 08/14/2006 Buell	SC-21.1	Ultra-Scale Memory Analysis for High-End Computing	-230
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-98ER20312 08/31/2009 Krizek	SC-22.13	Regulatory Role of AINTEGUMENTA in Organ Initiation and Growth	0
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-04ER15515 05/31/2008 Wilson	SC-22.12	Understanding Long-Term Solute Transport in Sedimentary Basins: Simulating Brine Migration in the Alberta Basin, Canada	0
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-00ER14980 06/14/2008 Adams, Amiridis	SC-22.12	Studies of Multimetallic Clusters and Multimetallic Nanoparticles for Catalysis	0
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-06ER64210 02/28/2009 Shafer	SC-23.4	Integrated Hydrogeophysical and Hydrogeologic Driven Parameter Upscaling for Dual-Domain Transport Modeling	233
SOUTH CAROLINA, UNIVERSITY OF Columbia, SC	DE-FG02-07ER64431 07/14/2011 Ju	SC-23.3	New Grid and Discretization Technologies for Ocean and Ice Simulations	21
Total for SC :				2,767

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
SOUTH DAKOTA SCHOOL OF MINES Rapid City, SD	DE-FG02-04ER46117 01/31/2008 Kellar	SC-22.21	Interphase Analysis and Control in Fiber Reinforced Thermoplastic Composites	0
Total for SD :				0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MIDDLE TENNESSEE STATE UNIV. Murfreesboro, TN	DE-FG02-86ER40293 07/31/2008 Carlton	SC-26.1	Nuclear Astrophysics and Neutron Cross Section Measurements	0
TENNESSEE STATE UNIVERSITY Nashville, TN	DE-FG02-04CH11216 05/31/2007 Keith, Shute	SC-23	Life Sciences Facility Renovations	0
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-04ER25649 09/14/2008 Le Borne	SC-21.1	Theory and Application of Hierarchical Matrices in Multiscales Problems	0
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-96ER40990 05/31/2009 Shriner	SC-26.1	Proton Resonance Spectroscopy	42
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-96ER40955 02/28/2011 Kozub	SC-26.1	Nuclear Physics with Radioactive Ion Beams	54
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-89ER40530 03/31/2010 Ayik	SC-26.1	Studies of Fluctuation Processes in Nuclear Collisions	36
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-06ER25742 08/14/2007 Ghani	SC-21.1	Hybrid Multi-Layer Network Control for Emerging Cyber-Infrastructures	-114
TENNESSEE, U. OF HEALTH SC. CTR. Memphis, TN	DE-FG02-05ER64103 03/14/2009 Pfeffer	SC-23.2	REaCHIT: Research, Education and Collaborative Healthcare in Tennessee	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-06ER25728 07/31/2009 Bosilca	SC-21.1	The Harness Workbench: Unified and Adaptive Access to Diverse HPC Platforms	164
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25761 12/14/2011 Dongarra	SC-21.1	Performance Engineering Research Center (PERC-3) SciDAC Center for Enabling Technology	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-07ER25801 11/14/2011 Dongarra	SC-21.1	Institute for Scalable Application Development Software	135
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER25778 12/14/2011 Huang	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-91ER40627 03/31/2010 Kamyshkov	SC-25	Elementary Particle Interactions	500
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40982 05/31/2011 Sorensen	SC-26.1	Studies of Hot and Dense Nuclear Matter	233
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40983 02/28/2011 Bingham, Riedinger, Grzywacz, Jones	SC-26.1	Nuclear Spectroscopic Studies with Radioactive and Stable Ion Beams	357

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER40963 02/14/2011 Nazarewicz	SC-26.1	Theoretical Nuclear Structure	144
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER25717 08/31/2009 Parang, Davis	SC-21.1	Pipline Engineering Diversity Program	457
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-04ER25610 05/14/2008 Huang	SC-21.1	Transfer Function Design for Scientific Discovery	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-04ER25606 08/31/2007 Beck	SC-21.1	Overlay Transit Networking for Scalable, High Performance Data Communication Across Heterogeneous Infrastructure	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-03ER25586 05/14/2009 Schulze	SC-21.1	Integrated Multiscale Modeling of Molecular Computing Devices	100
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-03ER25584 05/14/2009 Dongarra	SC-21.1	Predicting the Electronic Properties of 3D, Million-atom Semiconductor Nanostructure Architectures	199
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-96ER20223 07/14/2009 von Arnim	SC-22.13	Translational Control by the Initiation Factor eIF3 During Arabidopsis Growth and Development	123
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-88ER13859 07/14/2009 Guiochon	SC-22.1	Separation of Highly Complex Mixtures by Two-Dimension Liquid Chromatography	220
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-01ER15259 10/31/2010 Barnes	SC-22.1	Nanostructured Metal Oxide Catalysts via Building Block Syntheses	119
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-02ER15283 02/28/2011 Macek	SC-22.11	Theory of Threshold Effects in Low-Energy Atomic Collisions	125
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER15723 06/14/2011 Keffer	SC-22.12	A Computational and Experimental Investigation into the Transport Through of Protons near the Electrolyte/Water, Electrolyte/Catalyst and	275
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-01ER45885 07/31/2009 Musfeldt	SC-22.22	Spectroscopic Investigations of Complex Magnetic and Electronic Materials	87
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-06ER46266 12/31/2009 Keppens	SC-22.21	Resonant Ultrasound Studies of Spin Glasses and Geometrically Frustrated Magnets	150
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER46182 05/31/2007 Kihm	SC-22.23	Fundamentals of Energy Transport in Nanofluids	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER46183 06/30/2008 Callcott	SC-22.21	New Methods and Instrumentation for the Study of Complex Magnetic Materials and Nanostructures Using Soft X-Ray Spectroscopies	155

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER46202 05/14/2011 Dai	SC-22.21	Using Neutrons as a Probe to Study Magnetic Excitations in Strongly Correlated Electron Materials	132
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER46209 06/14/2008 Zhang	SC-22.22	Transport and Collective Properties of Magnetic Semiconductor Multi layers and Nano Structures	35
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-03ER41258 04/30/2009 Greene	SC-26.1	Experimental Weak Interactions with Pulsed and Continuous Cold Neutrons	255
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-06ER41407 03/31/2009 Dean	SC-26.1	JUSTIPEN: Japan US Theory Institute for Physics with Exotic Nuclei	100
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER41529 08/31/2010 Papenbrock	SC-26.1	Structure of Rare Isotopes	90
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-97ER45657 11/30/2009 Quinn	SC-22.22	The Interpretation of Numerical Studies of Fractional Quantum Hall Systems in Terms of Elementary Excitations	99
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FC02-06ER54858 01/14/2009 Beck	SC-24.2	SciDAC - Center for Plasma Edge Simulation	55
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-02ER63366 10/31/2009 Classen	SC-23.3	Community and Ecosystem Response to Global Change: Interactive Effects of Atmospheric Carbon Dioxide, Surface Temperatures, and Soil Moisture	202
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG07-02ER63496 09/14/2005 McCarthy	SC-23.4	Colloid-Facilitated Transport of Radionuclides Through the Vadose Zone	-30
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER46370 05/14/2010 Eguiluz	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamic Effects in Correlated Materials	40
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-07ER46363 01/31/2010 Langston	SC-22.21	Scalable Computational Methods for the Analysis of High-Throughput Biological Data	150
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-04ER63939 03/31/2008 Baldwin	SC-23.4	In Situ Community Control of the Stability of Bioreduced Uranium	0
TENNESSEE, UNIVERSITY OF Knoxville, TN	DE-FG02-05ER63951 05/31/2008 Pffifner	SC-23.4	An Integrated Assessment of Geochemical and Community Structure Determinants of Metal Reduction Rates in Subsurface	85
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-88ER40407 12/31/2009 Hamilton, Ramayya	SC-26.1	Experimental Nuclear Physics	323
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-85ER40226 05/31/2011 Weiler, Kephart	SC-25	Theoretical Investigations in Elementary Particle Physics	200



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VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-92ER40712 02/28/2010 Maguire	SC-26.1	Relativistic Heavy Ion Experimental Physics	470
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-96ER40975 05/31/2010 Oberacker, Ernst, Umar	SC-26.1	Microscopic Heavy-Ion Theory	160
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-99ER45781 10/31/2010 Tolk	SC-22.22	Hydrogen-Bond Specific Materials Modifications in Group IV Semiconductors	275
VANDERBILT UNIVERSITY Nashville, TN	DE-FC02-06ER41447 03/14/2011 Bapty	SC-25	National Computational Infrastructure for Lattice Gauge Theory	74
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-04ER41333 08/14/2009 Velkovska	SC-26.1	Multi-Gap Resistive Plate Chambers as a Time-of-Flight System for PHENIX	75
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-03ER46096 11/14/2008 Cummings, Pantelides	SC-22.22	Integrated Multiscale Modeling of Molecular Computing Devices	270
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-01ER45916 03/14/2011 Haglund	SC-22.22	Linear and Nonlinear Optical Properties of Metal Nanocrystal Composites Synthesized by Directed Self Assembly	198
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-02ER45957 11/30/2009 Rosenthal	SC-22.22	Nanocrystal Research for Energy Efficient and Clean Energy Technologies	150
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-05ER46239 08/31/2011 Jennings	SC-22.23	Surface-Directed Fabrication of Integrated Membrane-Electrode Interfaces	100
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-07ER46447 08/14/2010 Dickerson	SC-22.21	Structure and Magnetic Properties of Lanthanide Nanocrystals	117
Total for TN :				7,186

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ABILENE CHRISTIAN UNIVERSITY Abilene, TX	DE-FG02-03ER41243 05/14/2009 Sadler, Isenhower	SC-26.1	The Structure of the Nucleon and Its Excited States	191
BAYLOR UNIVERSITY Waco, TX	DE-FG02-05ER41399 05/31/2011 Dittmann	SC-25	Elementary Particle Physics at Baylor	117
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-05ER15697 12/31/2008 Weglein	SC-22.12	Seismic Imaging Beneath an Unknown Overburden: Method Development and Evaluation on Synthetic and Real Data	50
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER15888 01/14/2011 Thummel	SC-22.13	The Design of a Photocatalyst for the Decomposition of Water into its Elements	75
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-04ER25645 09/14/2008 Timofeyev	SC-21.1	Numerical Strategies for Reduced Dynamics for Models of Geophysical Flows	0
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-94ER40836 12/31/2008 Hungerford	SC-26.1	The Investigation of Selected Experimental Problems at Intermediate Energies	230
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-03ER54713 08/14/2009 Donnelly	SC-24.2	Spatially Resolved Diagnostics and Modeling of Microhollow Discharges	149
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41521 08/14/2010 Pinsky	SC-26.1	Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC	150
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41518 08/14/2010 Lau	SC-25	A Proposal to Measure the Neutrino Mixing Angle Theta_13 in the Daya Bay Experiment	100
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-04ER46160 07/31/2008 Moss	SC-22.21	Diffraction Studies of Glasses, Liquids, and Nanoclusters	47
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-05ER15647 05/31/2011 Chapman	SC-22.13	Amidase-Mediated Modulation of N-Acylethanolamine (NAE) Signaling Pathway in Plants	114
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-04ER15508 12/31/2009 Bagus	SC-22.12	The Influence of Mineral Surfaces on Multi-Election Reduction Mechanisms for Polyvalent Metals	49
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-03ER15387 05/14/2011 Cundari	SC-22.12	Modeling of Catalytic Processes for More Efficient Utilization of Hydrocarbon Resources	81
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER46312 08/31/2009 Krokhin	SC-22.22	Effective Medium Theory for Periodic Composites	90
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER54883 07/14/2009 Ordenez	SC-24.2	Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	41

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PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-97ER54452 01/31/2012 Boyd	SC-24.2	Institute for High Heat Flux Removal: Phase II	197
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-04ER54777 12/14/2011 Huang	SC-24.2	Study of Rotamak Plasmas	266
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER63662 12/14/2010 Levander, Zelt	SC-23.4	3-D Seismic Experimentation and Advanced Processing/Inversion Development for Investigations of the Shallow Subsurface	0
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46308 07/31/2009 Kono	SC-22.22	Spectroscopy of Degenerate One-Dimensional Electrons in Carbon Nanotubes	100
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46274 02/14/2011 Du	SC-22.22	Experiments on Quantum Hall Topological Phases at Ultra-Low Temperatures	125
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-07ER25800 11/14/2011 Mellor-Crummey	SC-21.1	Center for Scalable Performance Application Development Software	1,260
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25754 09/14/2011 Mellor-Crummey	SC-21.1	Center for Programming Models for Scalable Parallel Computing	400
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25762 12/14/2011 Mellor-Crummey	SC-21.1	Performance Engineering Research Center (PERC3)	0
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER25734 08/14/2009 Nakhleh	SC-21.1	Tools for Accurate and Efficient Analysis of Complex Evolutionary Mechanisms in Microbial Genomes	100
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-97ER41031 04/30/2011 Roberts, Corcoran, Padley	SC-25	High Energy Physics	553
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-93ER40772 12/31/2010 Bonner	SC-26.1	Nuclear Structure at Intermediate Energies	524
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-07ER15866 05/14/2008 Wong	SC-22.12	Kokes Awards for the 20th North American Catalysis Society Meeting - June 17-22, 2007	5
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-04ER15523 04/14/2010 Scuseria	SC-22.12	Accurate Theoretical Approaches for Studying Actinides and Other Heavy Elements in Solid State	130
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER15456 09/14/2009 Deem	SC-22.12	Towards Rational, Nanoscale Control of Catalysis: A Fundamental Study of Zeolite Nucleation Kinetics	143
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER15394 06/14/2008 Braam	SC-22.13	Genetic Analysis of the Regulation of TCH Gene Expression	0

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SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-04ER41299 02/14/2010 Stroynowski	SC-25	High Energy Physics	677
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER64443 07/31/2011 Saravanan	SC-23.3	Hierarchical Coupled Modeling and Prediction of Regional Climate Change in the Atlantic Sector	179
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER46450 08/14/2010 Lyuksytov	SC-22.22	Emergent Behavior in Magnet-Superconductor Hybrids	140
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER41485 06/14/2010 Mioduszewski	SC-26.1	Toward Understanding the QGP with the STAR Experiment at RHIC	132
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER41405 11/30/2009 McIntyre	SC-25	New Technology for Future Colliders	760
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-04ER41341 02/14/2009 Tribble	SC-26.2	Extending the Capabilities of the Texas A&M University Cyclotron Institute to Include Reaccelerated Radioactive Beams	400
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER46278 03/14/2009 Pokrovsky	SC-22.22	Theory of Magnetic Heterostructures on the Nanometer Scale	92
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-02ER45999 09/14/2011 Dunbar	SC-22.23	Molecular Magnets Based on a Modular Approach: Investigation of Coupling, Anistropy and Electronic Factors on	225
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-03ER15420 11/14/2009 Clearfield	SC-22.1	The Synthesis, Structures, and Chemical Properties of Macrocyclic Ligands Covalently Bonded into Layered Arrays	120
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-04ER15520 03/31/2010 Russell	SC-22.12	Nanoparticle Laser Desorption Ionization and IM-MS Applied Structural Mass Spectrometry	140
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-04ER15557 08/14/2008 Golden	SC-22.13	Regulation of Development and Nitrogen Fixation in Anabaena	0
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-04ER15558 06/30/2008 Golden	SC-22.13	Global functional analysis of the genome of Synechococcus elongatus PCC 7942	60
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER14511 12/31/2010 Goodman	SC-22.1	The Physical and Chemical Properties of Nanostructured Mixed-Metal Catalysts	200
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-05ER25669 04/14/2009 Efendiev	SC-21.1	Multiscale Modeling and Simulation of Flow in Heterogeneous Porous Media and Their Applications	64
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER40917 04/30/2010 Webb, Nanopoulos, Kamon, McIntyre	SC-25	High Energy Physics Research at Texas A&M University	883

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TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-93ER40765 11/30/2011 Tribble, Gagliardi	SC-26.1	QCD and Standard Model Studies	250
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER25727 03/31/2009 Efendiev	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	28
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-06ER15816 08/14/2009 Morse	SC-22.12	Kinetics and Mechanisms of Calcite Reactions with Saline Waters	149
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-93ER40773 12/31/2010 Tribble	SC-26.1	Texas A&M University Cyclotron Institute Research Plan	2,270
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-06ER46333 08/30/2007 Schaak	SC-22.23	Low-Temperature Synthesis Routes to Intermetallic Superconductors	103
TEXAS A&M UNIVERSITY College Station, TX	DE-FG02-06ER64174 07/31/2009 Schumacher	SC-23.3	Hydrometeors Injected into the Large-Scale Environment by Tropical Cloud Systems	65
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-04ER25623 09/14/2008 Rauchwerger	SC-21.1	SmartApps: Middle-ware for Adaptive Applications on Reconfigurable Platforms	0
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-06ER15836 08/31/2009 Balbuena	SC-22.12	Modeling Catalyzed Growth of Single-Wall Carbon Nanotubes	100
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-00ER15034 05/31/2009 Datta-Gupta	SC-22.12	Time-Lapse Seismic Monitoring and Performance Assessment of CO <sub>2</sub> Sequestration in Hydrocarbon Reservoirs	141
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-05ER15729 06/14/2011 Balbuena	SC-22.12	Theory-Guided Design of Nanoscale Multi-Metallic Catalysts For Fuel Cells	190
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-94ER14416 12/31/2011 Bartsch	SC-22.12	New Proton-Ionizable, Calixarene-Based Ligands for Selective Metal Ion Separations	115
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-99ER20346 09/14/2011 Knaff	SC-22.13	Ferredoxin-Dependent Plant Metabolic Pathways	114
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-07ER25821 06/14/2009 Kirby	SC-21.1	Automatic Parallel Finite Elements: General Variational Forms with General Approximating Spaces	128
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-95ER40938 02/28/2009 Wigmans	SC-25	Experimental Particle Physics Research	378
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-05ER46218 07/31/2011 McKenna	SC-22.23	Cyclic Macromolecules: Dynamics and Nonlinear Rheology	180

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TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-05ER46234 08/31/2009 Korzeniewski	SC-22.23	Strategies for Probing Nanometer-Scale Electrocatalysts: From Single Particles to Catalyst-Membrane Architectures	100
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-07ER41495 08/31/2009 Wigmans	SC-25	Dual-Readout Calorimetry for High-Quality Energy Measurements	65
TEXAS, UNIV OF MD ANDERSON C C Houston, TX	DE-FG02-03ER63599 12/31/2007 Kundra	SC-23.2	Bone Marrow Stem Cells as a Source of Hepatocytes	0
TEXAS, UNIV. OF HEALTH SC. CTR. Houston, TX	DE-FG02-07ER15867 05/14/2010 Spudich	SC-22.13	Folding and Function of Proteorhodopsins in Photoenergy Transducing Membranes	145
TEXAS, UNIV. OF MEDICAL BRANCH Galveston, TX	DE-FG02-07ER64347 12/31/2009 Cornforth	SC-23.2	Heritable Genetic Changes in Cells Recovered from Irradiated 3D Tissue Constructs	199
UNIV. OF SOUTHWESTERN MED. CTR Dallas, TX	DE-FG02-06ER64186 12/31/2009 Boothman	SC-23.2	The IGF-1/IGF-1R-MAPK-Secretory Clusterin (sCLU) Pathway: Mediator of a Low Dose IR-Inducible Bystander Effect	404
UNIV. OF SOUTHWESTERN MED. CTR Dallas, TX	DE-FG02-07ER64335 11/30/2009 Yang	SC-23.2	A Non-Linear Systems Biology Approach to Model & Analyze the Dynamic Responses of Low Dose Ionizing Radiation-Inducible Biological Network	100
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER45958 06/14/2011 Niu	SC-22.22	Transport and Collective Properties of Semiconductors and Graphen Overlayers	162
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER46286 06/30/2010 Chelikowsky	SC-22.22	Theory of the Optical and Electronic Properties of Clusters and Nanostructures	108
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER41332 08/14/2009 Klein	SC-26.1	Searching for the MSW Effect and Other New Physics with the Boron-8 Solar Neutrino Spectrum	125
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER41321 01/31/2012 Shvets	SC-25	Investigations of the Plasma and Structure-Based Particle Accelerators	175
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54766 05/14/2011 Gentle	SC-24.2	Collaborative Research: Magnetized Plasma Turbulence and Coupling to Bulk Flows	266
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54763 02/14/2008 Shvets	SC-24.2	Interaction of High Intensity Electromagnetic Waves with Plasmas	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54742 10/31/2009 Van Dam	SC-24.2	Establishment of an Institute for Fusion Studies	2,494
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-97ER54415 03/31/2009 Gentle	SC-24.2	Proposed Diagnostics and Physics Contributions of the University of Texas Fusion Research Center to the DIII-D Program	425

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TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER54373 03/31/2009 Gentle	SC-24.2	Turbulence and Transport in Tokamaks: A Proposal for Collaboration between The University of Texas Fusion Research Center	413
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER46377 05/31/2010 Shi	SC-22.22	Structure-Optical-Thermal Relationships of Carbon Nanotubes	88
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54938 07/31/2010 Van Dam	SC-24.2	Activities of U.S. Burning Plasma Organization	217
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54945 07/31/2010 Downer	SC-24.2	Holographic Imaging of Laser-Plasma Structures	160
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER54840 07/31/2010 Shvets	SC-24.2	Collective High-Current Beam Effects Relevant to Fast Ignition of Fusion Targets	35
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER15362 11/30/2011 Freeman	SC-22.12	Novel Membranes for Carbon Dioxide Removal from Natural Gas Based on Thermally Rearranged Polymers	145
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER15352 08/31/2008 Herrin	SC-22.13	Factor Assisted Splicing in Chloroplasts	114
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15406 10/31/2009 Ditmire	SC-22.1	High Intensity Femtosecond XUV Pulse Interactions with Atomic Clusters	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15430 11/30/2009 Laubach	SC-22.1	Predicting Fracture Porosity Evolution In Sandstone	240
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15496 11/14/2009 Katz	SC-22.12	Metal-Anion Pairing at Oxide/Water Interfaces: Theoretical and Experimental Investigations from the Nanoscale to the Macroscale	75
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15575 06/30/2008 Browning	SC-22.13	Protein Synthesis Initiation Factors: Phosphorylation and Regulation	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15549 10/14/2008 Johnston	SC-22.1	Molecular Design of Colloids in Supercritical Fluids	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER15746 11/14/2011 Barbara	SC-22.13	Single Molecule Spectroscopic Studies of Charge Separation and Charge Transfer	175
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER15758 10/31/2011 Crooks	SC-22.12	Theoretical and Experimental Study of Electrokinetic Accumulation and Separation	145
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER15760 11/14/2009 Chelikowsky	SC-22.11	Scalable Methods for Electronic Excitations and Optical Responses of Nanostructures: Mathematics to Algorithms	155

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TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-01ER15186 10/31/2010 Sessler	SC-22.1	Synthetic Receptors and Sensors for Actinide Cations and the Pertechnetate Anion	160
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER25617 02/28/2011 Wheeler	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-02ER25516 08/31/2007 Thomas	SC-21.1	Portal Web Services: Support of DOE SciDAC Collaboratories	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER25671 06/30/2008 Baldick	SC-21.1	Reducing the Vulnerability of Electric Power Grids to Terrorist Attacks	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER25701 01/31/2009 Oden	SC-21.1	Adaptive Multi-Scale Modeling Based on Goal Oriented Error Estimation and Control	400
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER25686 08/14/2009 Chiou	SC-21.1	FAST: A Fast, Full-System, Cycle-Accurate Computer Simulator	100
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER15884 02/28/2010 Stanton	SC-22.11	Quantum Chemistry of Radicals and Reactive Intermediates	80
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-06ER25782 12/14/2011 Ghattas	SC-21.1	Towards Optimal Petascale Simulations (TOFS)	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-94ER40845 03/31/2009 Hoffmann	SC-26.1	Studies in High Energy Heavy Ion Nuclear Physics	530
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-93ER40757 12/31/2011 Ritchie, Lang, Schwitters, Kopp,	SC-25	Research in High Energy Physics	781
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER40954 01/14/2011 Downer	SC-25	Laser Wakefield Acceleration: Channeling, Seeding, and Diagnostics	285
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-07ER41491 02/28/2009 Brandt	SC-25	Development of a 10 Picosecond Time-of-Flight Counter	73
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-06ER46288 08/31/2007 Priya	SC-22.22	Mesoscale Interfacial Dynamics in Magnetoelectric Nanocomposites	51
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-96ER40943 01/31/2011 White	SC-25	Research in Experimental Elementary Particle Physics	572
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-04ER15623 01/14/2009 Rajeshwar	SC-22.1	Shape-Controlled Electrosynthesis of Semiconductor Nanoparticles for Solar Energy Conversion	102



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TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-04ER41310 04/14/2010 Izen	SC-25	Elementary Particle Physics	305
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-04ER25622 09/14/2008 Teller	SC-21.1	DAiSES: Dynamic Adaptability in Support of Extreme Scale	0
Total for TX :				23,889

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-05ER15666 08/14/2011 Woodfield	SC-22.12	Energetics of Nanomaterials	165
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-03ER15410 10/31/2009 Farnsworth	SC-22.1	Ion Production and Transport in Atmospheric Pressure ion Source Mass Spectrometers Equipment	150
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-05ER54812 02/28/2010 Held	SC-24.2	Plasma Center for Computational Predictability at Washington, Wisconsin, and Utah State Universities	55
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-04ER54746 12/14/2009 Held	SC-24.2	Advanced Closures for Numerical Simulations of Plasmas	82
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER54848 01/14/2009 Parker	SC-24.2	SciDAC - Center for Plasma Edge Simulation	55
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-98ER62571 02/28/2011 Mace	SC-23.3	The Coupling Between the Large Scale Atmospheric State and Cloud Properties: A Continuing Investigation with ARM Data	244
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-06ER46313 08/31/2009 Mishchenko	SC-22.22	Many-Body Effects in Spin-Polarized Transport	70
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46027 04/30/2010 Liu	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing, Characterization, and Novel Devices	83
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46161 11/14/2006 Shi	SC-22.22	Study of Spin-Dependent Effects in Inorganic/Organic Hybrid Systems	-58
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46148 05/31/2010 Liu	SC-22.22	Towards Quantitative Understanding of Strain Induced Nanoscale Self-Assembly from Atomic-Scale Surface Energetics and Kinetics	159
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46109 11/14/2010 Vardeny	SC-22.23	Optical, Electrical and Magnetic Studies of pi-Conjugated Systems	180
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46086 08/31/2009 Virkar	SC-22.22	Thermodynamic and Kinetic Studies of High Temperature Proton Conductors (HTPC) Using Thin Films and Porous Bodies	135
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER41446 03/14/2011 Detar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	54
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER45504 12/31/2010 Miller	SC-22.23	Synthesis of Molecule/Polymer Based Magnetic Materials	219
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-07ER25807 11/14/2011 Parker	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	127

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-07ER25810 11/14/2011 Silva	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	182
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER25781 12/14/2011 Johnson	SC-21.1	Visualization and Analytics Center for Enabling Technologies	0
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-99ER15003 10/31/2009 Anderson	SC-22.1	Model Catalysts by Size-Selected Cluster Deposition	130
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-01ER15176 12/14/2010 Morse	SC-22.1	Spectroscopy of Organometallic Radicals	125
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14333 02/28/2011 Harris	SC-22.12	Analytical Spectroscopy Methods for Liquid/Solid Interfaces	127
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14315 07/31/2011 Miller	SC-22.1	The Hydrophobic Character of Nonsulfide Mineral Surfaces as Influenced by Double-Bond Reactions of Adsorb of	115
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-05ER15724 06/14/2011 Voth	SC-22.12	Computer Simulation of Proton Transport in Fuel Cell Membranes	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER15620 09/14/2008 Drews	SC-22.13	Programmed cell death during female gametophyte development	0
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-05ER15689 08/14/2009 Louie	SC-22.12	Harnessing the Chemistry of Carbon Dioxide	0
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER15404 05/31/2009 Armentrout	SC-22.1	Thermochemistry and Reactivity of Transition Metal Clusters and Their Oxides	140
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-06ER64309 08/31/2009 Ehleringer	SC-23.3	Understanding the Influences of Seasonality and Interannual Variability on Biosphere-Atmosphere d13CO2 Exchange in a Network of 8 AmeriFlux Sites	246
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-05ER64085 12/31/2008 Warters	SC-23.2	Characterization of the Role of TP53 Turnover Rates in Low IR Dose Sensitivity	343
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-05ER64026 12/14/2008 Trehwella	SC-23.2	Biological Neutron Scattering	230
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER63904 08/31/2008 Bowling	SC-23.3	Long-Term Assessment of Isotopic Exchange of Carbon Dioxide in a Subalpine Forest (Niwot Ridge AmeriFlux Site)	0
WESTMINSTER COLLEGE Salt Lake City, UT	DE-FG02-06CH11407 03/31/2007 Seltzer	SC-23	Purchase Equipment for Westminster College's Science Program and New Science Center	0

Total for UT :

3,508

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
GALILEO MAGNET HIGH SCHOOL Danville, VA	DE-FG02-06CH11408 10/31/2007 Culley, Lawrence	SC-23	Renovations	0
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-07ER64473 08/14/2010 Straus	SC-23.3	Detection and Attribution of Climate Change Using the Interactive Ensemble	166
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-07ER46425 07/31/2010 Papaconstantopoulos	SC-22.22	Highly Concentrated Palladium Hydrides/Deuterides; Theory	180
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-05ER25712 02/28/2009 Wanner	SC-21.1	Multiscale Analysis of Nonlinear Systems Using Computational Topology	104
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-04ER54793 07/31/2010 Punjabi	SC-24.2	Homoclinic Tangles in DIII-D Divertor Tokamak	123
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-01ER54624 04/14/2010 Ali	SC-24.2	The Problem of Heat Deposition on Divertor Tokamak	69
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-07ER54937 07/31/2009 Ali	SC-24.2	The Hampton University Undergraduate Research Experience in Fusion Science and Related Areas for Minority and Female	36
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-97ER41047 05/31/2009 Tang	SC-26.1	Selected Problems in Nuclear/High Energy Physics: Experimental Hypernuclear Physics	112
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-97ER41035 12/31/2006 Baker	SC-26.1	Electromagnetic Studies of Mesons, Nucleons, and Nuclei	-14
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-87ER40380 03/31/2010 Keppel	SC-26.1	The Hampton University Graduate Studies (HUGS) Summer Program at Jefferson Lab	45
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-01CH11094 08/31/2007 Kappel	SC-23	Center for Advanced Medical Instrumentation (CAMI)	0
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-06ER64252 08/30/2008 Keppel	SC-23.2	Development of a Cancer Treatment Research Center at Hampton University	0
NORFOLK STATE UNIVERSITY Norfolk, VA	DE-FG02-89ER40525 06/30/2010 Punjabi	SC-26.1	Polarization Experiments with Electromagnetic Probes	128
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FC02-06ER25774 07/31/2008 Pothen	SC-21.1	Combinatorial Scientific Computing and Petascale Simulations (CSCAPES)	0
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FG02-96ER40960 03/14/2011 Kuhn, Weinstein, Dodge	SC-26.1	From Quarks to Nuclei	560

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FG02-97ER41028 04/14/2009 Radyushkin	SC-26.1	Topics in Theoretical Nuclear Physics	80
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FG02-97ER45625 01/31/2009 Elsayed-Ali	SC-22.23	Effect of Electronic Excitation on Thin Film Growth	133
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FG02-05ER41396 02/28/2009 Vuskovic	SC-25	Investigation of Plasma Etching for Superconducting RF Cavities Surface Preparation	60
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FG02-96ER54360 05/31/2010 Vahala	SC-24.2	Topics in Plasma Physics	10
OLD DOMINION UNIVERSITY Norfolk, VA	DE-FG02-05ER54820 03/31/2011 Vahala	SC-24.2	EBW Physics of ECE in NSTX	57
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-96ER40980 05/31/2009 Gilfoyle	SC-26.1	Medium Energy Nuclear and Particle Physics Research at the University of Richmond	30
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-05ER41379 04/30/2011 Beausang	SC-26.1	Nuclear Structure Research at Richmond	38
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-07ER46439 08/31/2008 Jena	SC-22.22	International Symposium on Materials Issues in a New Hydrogen Economy Conference (Omni Hotel, Richmond Va	20
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER64185 03/14/2009 Brunner	SC-23.2	New Genetic Tools for Modifying Tree Properties to Enhance Carbon Sequestration	0
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER64449 07/31/2010 Beers	SC-23.2	Towards a Map of the Populus Biomass Protein-Protein Interaction Network	400
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER46480 05/14/2011 Priya	SC-22.21	Correlation of Bulk Dielectric and Piezoelectric Properties to the Local Scale Phase Transformations, Domain Morphology, and Crystal Structure in	155
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER46290 07/31/2009 Viehland	SC-22.22	Mesoscale Interfacial Dynamics in Magnetoelectric Nanocomposites	50
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-92ER40709 01/31/2010 Piilonen, Takeuchi	SC-25	Investigations in Experimental and Theoretical Particle Physics	382
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER25825 07/14/2009 Cameron	SC-21.1	Ultra-Scale Memory Analysis for High-End Computing	230
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER25751 08/14/2008 Nikolopoulos	SC-21.1	MELISSES: Liquid Services for Scalable Multithreaded and Multicore Execution on Emerging Supercomputers	99

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER25720 11/30/2009 Watson	SC-21.1	Mathematical Software for Optimization and Nonlinear Systems of Equations on Terascale Computers	113
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-03ER15389 12/31/2006 Rimstidt	SC-22.1	Electron Density Distributions as a Guide for Understanding the Reactivity of Silicate Earth Materials	-6
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15658 12/14/2011 Ross	SC-22.12	Energetics of Nanomaterials	73
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-04ER15627 09/14/2008 Beers	SC-22.13	Characterization of MYR1 and XND1, two Arabidopsis transcription factors involved in vascular tissue development	0
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER15786 05/14/2009 Hochella	SC-22.12	Frontiers in Biogeochemistry and Nanomineralogy: Studies in Quorum Sensing and Nanosulfide Dissolution Rates	126
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15751 05/31/2011 Brewer	SC-22.13	Photoinitiated Electron Collection in Mixed-Metal Supramolecular Complexes: Development of Photocatalysts for Hydrogen Production	120
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05CH11314 12/31/2009 Jones	SC-23	Congressionally Initiated Grant for the Design and Construction of the Environmental Learning Center	0
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-00ER15112 10/31/2010 Dove	SC-22.12	Investigation of the Physical Basis for Biomineralization	250
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-96ER14669 12/14/2009 Oyama	SC-22.1	Molecular Level Studies of Advanced Hydrotreating Catalysis	140
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-97ER14751 04/30/2009 Cox	SC-22.1	Hydrocarbon Dehydrogenation and Oxidation Over Model Metal Oxide Surfaces	139
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER14786 10/31/2009 Gallagher	SC-22.1	Studies of Autoionizing States Relevant to Dielectronic Recombination	139
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-95ER14549 02/28/2009 Davis	SC-22.1	Structure and Function of Supported Base Catalysts	139
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER15149 03/14/2009 Harrison	SC-22.1	Catalysis at Metal Surfaces Studied by Non-Equilibrium and STM Methods	103
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-00ER15053 05/31/2009 Jones	SC-22.1	Using Intense Short Laser Pulses to Manipulate and View Molecular Dynamics	145
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-05ER15701 02/14/2008 Neurock	SC-22.12	Probing Surface Chemistry under Catalytic Conditions: Olefin Hydrogenation, Cyclization and Functionalization	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-03ER15460 05/14/2007 Davis	SC-22.12	In-Situ Spectroscopic Investigation of Immobilized Organometallic Catalysts	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER20279 08/31/2008 Timko	SC-22.13	NADPH: Protochlorophyllide Oxidoreductase - Structure, Catalytic Function, and Role in Prolamellar Body Formation and	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-04ER25601 08/14/2008 Humphrey	SC-21.1	Identity Federation and Policy Management Guide	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER15848 02/14/2008 Yates	SC-22.12	Surface Bonding of Molecules, Their Reactions and Confinement Effects in the Chemisorbed Layer	39
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER15894 08/14/2010 Neurock	SC-22.12	Theory Aided Design of Active and Durable Nanoscale Cathode Catalysts	135
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FC02-06ER25776 12/14/2011 Humphreys	SC-21.1	SCIDAC Institute for Ultrascale Visualization	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-96ER40950 11/30/2010 Day, Crabb	SC-26.1	Electron Interactions with Nuclei	655
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41027 04/15/2009 Thacker	SC-25	Experimental and Theoretical High Energy Physics Group (Tasks A, B, C, and D)	948
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41025 05/31/2009 Norum	SC-26.1	Nuclear Studies with Intermediate Energy Probes	600
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER45918 03/14/2008 Howe	SC-22.21	Using Plasmon Peaks in Electron Energy-Loss Spectroscopy to Determine the Physical and Mechanical Properties of	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER45927 06/14/2011 Louca	SC-22.21	Spin Transitions, Phase Competition and Ordering in Perovskite Oxides	160
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-00ER45825 06/30/2008 Scully	SC-22.21	Cooperative Interactions Among Corrosion Sites: Effect on a Variety of Corrosion Processes	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-03ER41240 05/31/2011 Liyanage	SC-26.1	Study of the Nucleon Structure at Jefferson Lab Hall A	124
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41200 04/30/2010 Liuti	SC-26.1	Studies of Quantum Chromodynamics at the Intersection of the Perturbative and Non-Perturbative Regimes	90
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41168 03/31/2010 Cates	SC-26.1	Medium Energy Spin Physics with Lasers	420

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER41522 04/30/2010 Paschke	SC-26.1	Precision Electroweak Studies at Low Q <sup>2</sup> using Parity-Violating Electron-Scattering	96
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER46384 05/31/2010 Lee	SC-22.21	Frustration and Multi-Functionality in Magnetic Spineis	158
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER64442 07/31/2010 Keene	SC-23.3	The Impact of Primary Marine Aerosol on Atmospheric Chemistry, Radiation, and Climate: A CCSM Model Development	68
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER41003 02/14/2011 Griffioen, Averett	SC-26.1	Nucleon Structure Studies	307
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER46127 04/14/2010 Luepke	SC-22.22	Time-Resolved Spectroscopy of Insulator-Metal Transitions: Exploring Low-Energy Dynamics in Strongly Correlated	150
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-07ER41527 08/31/2010 Orginos	SC-26.1	Nuclear Physics from Lattice QCD	110
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER41302 03/14/2010 Vanderhaeghen, Orginos	SC-26.1	Topics in Theoretical Physics	103
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-00ER41147 12/31/2005 Averett	SC-26.1	Neutron Structure Studies Using Polarized Helium-3 at Jefferson Laboratory	0
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-06ER41434 11/30/2008 Kelley	SC-25	Research and Development for Electropolishing of Niobium for ILC Accelerator Cavities	105
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER54344 12/31/2011 Vahala	SC-24.2	Theoretical Plasma Physics	95
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-07ER46366 04/30/2010 Krakauer	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and	40
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-06ER54885 07/14/2009 Tracy	SC-24.2	New Methods for the Analysis of Waves in Plasmas	90
Total for VA :				9,227



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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
VERMONT, UNIVERSITY OF Burlington, VT	DE-FG02-07ER46380 05/31/2011 Headrick	SC-22.21	Fundamenal Mechanisms of Roughening and Smoothing During Thin Film Deposition	128
VERMONT, UNIVERSITY OF Burlington, VT	DE-FG02-05ER63998 04/30/2009 Neher	SC-23.3	Climate Change in Arid Lands: Effects on Soil Biota and Ecosystem Processes	131
Total for VT :				259

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-05ER63974 12/31/2008 Xun	SC-23.4	Anaerobic Biotransformation and Mobility of Pu and PuEDTA	69
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER63924 02/29/2008 Bruce	SC-23.2	Systems-Level Protein-Protein Interaction Networks of Shewanella oneidensis MR-1	0
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-05ER64105 07/31/2009 Miller	SC-23.2	Identification and Characterization of Soluble Factors Involved in Non-Targeted Effects of Low Dose Radiation	77
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46386 05/31/2010 McCluskey	SC-22.22	Magnetic and Optical Properties of Ferromagnetic ZnO Nanoclusters	127
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46435 08/14/2010 Zbib	SC-22.22	Investigating Deformation and Failure Mechanisms in Nanoscale Multilayer Metallic Composites	170
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-99ER62787 04/14/2009 Morgan	SC-23.2	Optimizing the Scientific Regulatory and Social Impact of the DOE Low Dose Program	364
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER63757 12/14/2007 Nash	SC-23.4	Characterization of Actinides in Simulated Alkaline Tank Waste Sludges and Leachates	0
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER63802 04/30/2009 James	SC-23.2	Operation and Maintenance of the National Radiobiology Archives	75
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER46103 07/14/2009 Lynn, Weber	SC-22.22	Defects in ZnO and Other Oxides and Semiconductors - Laying the Foundation for Defect Engineering of Novel Materials	200
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-06ER15820 08/14/2009 Hurst	SC-22.13	Membrane-Organized Chemical Photoredox Systems	135
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20225 07/14/2011 Kahn	SC-22.13	The Rhizobial Nitrogen Stress Response and Effective Symbiotic Nitrogen Fixation	114
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-97ER20259 01/31/2010 Lewis	SC-22.13	Probing Lignin Primary Structure and Assembly: An Overdue Approach	123
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20216 05/14/2011 Okita	SC-22.13	Enhancement of Photoassimilate Utilization by Manipulation of ADPGlucose Pyrophosphorylase	114
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-99ER20323 03/14/2009 Browse	SC-22.13	Jasmonate Signaling and Stamen Development in Arabidopsis	144
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-05ER25709 08/31/2009 Panchenko	SC-21.1	Northwest Consortium for Multiscale Mathematics and Applications. Educational Strategies and Critical Problems in	343

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER15559 06/30/2008 Kramer	SC-22.13	The Energy Budget for Steady-State Photosynthesis	0
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-05ER15672 08/14/2009 Grimes	SC-22.13	Functional/genomic analysis of vegetative storage protein proteolysis in leaf paraveinal mesophyll cells	114
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER15618 07/31/2010 Dickinson	SC-22.12	Laser Material Interactions Relevant to Analytic Spectroscopy of Wide Band Gap Materials	137
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-06ER15782 06/30/2009 Clark	SC-22.12	Actinide Partitioning and Radiation Effects in U(VI) Solids: Thermodynamics and Mechanistic Study	115
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER15755 05/31/2011 Prezhdo	SC-22.13	Atomistic Real-Time Simulation of Light Harvesting and Charge Transfer Dynamics in Novel Nanoscale Materials for Solar Hydrogen Production	125
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER15709 08/31/2011 Leigh	SC-22.13	Hydrogenases of Methanococcus Maripaludis	342
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER15707 08/31/2010 Harwood	SC-22.13	Biohydrogen production by a photosynthetic bacterium	140
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-03ER15448 09/14/2009 Torii	SC-22.13	Modes of Action and Functions of ERECTA-family Receptor-like Kinases in Plant Organ Growth and Development	123
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER14630 03/14/2011 Campbell	SC-22.12	Oxide-Supported Metal Nanoparticles: Correlating Catalytic Kinetics, Energetics and Surface Structure	152
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41020 11/30/2011 Robertson	SC-26.1	Experimental Nuclear Physics	3,591
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41014 10/31/2011 Miller	SC-26.1	Nuclear Theory	690
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER40956 01/31/2011 Yaffe, Wilkes	SC-25	Theoretical and Experimental Particle Physics	971
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER46102 01/31/2010 Sorensen, Ingalls	SC-22.22	Coherent X-Ray Spectroscopy of Solids	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-02ER45987 06/30/2010 Krishnan	SC-22.22	Exchange Anisotropy, Engineered Coercivity and Spintronics in Atomically Engineered L10 Heterostructures	216
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER41526 08/31/2008 Wilkerson	SC-26.1	Majorana Neutrinoless Double Beta Decay DUSEL R&D	25

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2007
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER45623 02/14/2012 Rehr	SC-22.22	Quantitative Photon and Electron Spectroscopy Theory	150
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-00ER41132 02/28/2009 Kaplan	SC-26.1	Institute for Nuclear Theory	2,490
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-07ER41457 11/30/2011 Bulgac	SC-26.1	Low-Energy Nuclear Physics National HPC Initiative: Building a Universal Nuclear Energy Density Functional	1,184
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER63796 11/30/2007 Berg	SC-23.4	Physical Properties of Hanford Transuranic Waste Sludge	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER63873 07/31/2009 Lettenmaier	SC-23.3	North American Drought in the 21st Century	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-03ER63663 12/14/2007 Strand	SC-23.4	Genetic Engineering of Plants to Improve Phytoremediation of Chlorinated Hydrocarbons in Groundwater	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-03ER63642 08/31/2008 Armbrust, Keil	SC-23.3	Diatom Photorespiration and Microbial C/N Cycling in the Upper Ocean: An Integrated Molecular and Biochemical Approach	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-00ER62908 07/31/2007 Schwartz	SC-23.2	Radiation Sensitivity and Cancer Susceptibility	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46452 08/14/2010 Andreev	SC-22.22	Suppression of Superconductivity in Disordered Nano-Systems due to Coulomb Interactions	100
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46467 08/31/2010 Jenekhe	SC-22.23	Molecular and Nanoscale Engineering of High Efficiency Polymer and Hybrid Organic/Inorganic Solar Cells	350
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54779 09/30/2008 Raman	SC-24.2	Compact and Toroid Injection in NSTX	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54769 06/14/2012 Slough	SC-24.2	Small Scale Fusion: The Pulsed High Density FRC Experiment	299
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54756 12/31/2010 Shumlak	SC-24.2	The ZaP Flow Z-Pinch Project	311
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-05ER54811 02/28/2010 Jarboe	SC-24.2	Plasma Center for Computational Predictability at Washington, Wisconsin, and Utah State Universities	810
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54753 03/31/2008 Slough	SC-24.2	Magnetized Target Fusion	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54361 05/31/2010 Jarboe	SC-24.2	Helicity Injected Torus (HIT) Current Drive Program	802
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54376 01/31/2010 Hoffman	SC-24.2	Rotating Magnetic Field Generation and Sustainment of FRCs Using an Advanced TCS/Upgrade	1,494
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-99ER54519 03/14/2011 Jarboe	SC-24.2	Solenoid Free Current Initiation and Sustainment by Coaxial Helicity Injection	270
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-98ER54480 12/14/2011 Steinhauer	SC-24.2	Theory of Field-Reversed Configurations	95
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER63937 05/01/2009 Dovich	SC-23.2	Stochastic Gene Expression and Hormesis in Single Cells of <i>Deinococcus Radiodurans</i>	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER63959 11/30/2007 Bretherton	SC-23.3	ARM-based Development of a New Combined Parameterization for Shallow and Deep Cumulus Convection in Large-Scale Climate	125
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER63990 05/31/2007 Burgess	SC-23.4	Physical Characterization of Solid-Liquid Slurries at High Weight Fractions Utilizing Optical and Ultrasonic Methods	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-06ER64175 01/31/2010 Houze	SC-23.3	Hydrometeors Injected into the Large Scale Environment by Tropical Cloud Systems	67
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64433 07/31/2010 Bitz	SC-23.3	Deep Ocean Heat Uptake and the Influence of Sea Ice in the Southern Ocean	94
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64460 08/14/2011 Lettenmaier	SC-23.3	Collaborative Research: Towards Decadal-Scale Prediction of Arctic Climate Using a High-Resolution Regional Arctic	163
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64482 08/31/2010 Harwood	SC-23.2	Redirection of Metabolism of Hydrogen Production	1,000
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64485 08/31/2010 Lidstrom	SC-23.2	Coupling Function to Genomics in Microbial Communities Via Single-Cell Analysis	604
Total for WA :				19,204

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
MARQUETTE UNIVERSITY Milwaukee, WI	DE-FG02-98ER20307 07/31/2008 Noel	SC-22.13	Lipopolysaccharide Structures and Genes Required for Root Nodule Development	0
WISCONSIN, MEDICAL COL. OF Milwaukee, WI	DE-FG02-04ER63772 02/14/2008 Roberts	SC-23.2	Developing Ethical Practice for Genetics Testing in the Workplace: An Evidence-Based Approach	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-02ER63363 03/31/2008 Gower	SC-23.3	Effects of Warming on the Structure and Function of a Boreal Black Spruce Forest	179
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER63249 09/14/2009 Liu, Kutzbach	SC-23.3	Towards the Prediction of Decadal to Centennial Climate Processes in the Coupled Earth System Model	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER63215 09/14/2005 Ramankutty	SC-23.3	Global Land Use Data for Integrated Assessment Modeling	-7
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-03ER63604 09/14/2008 DeWeaver	SC-23.3	Diagnostic Research and Development: Dynamics of Arctic Climate & Atmospheric Circulation in Re-analysis & in AMIP,	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER54899 08/14/2011 Schnack	SC-24.2	Center for Wave Interactions With Magnetohydrodynamics	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54876 04/14/2008 Hegna, Corradini	SC-24.2	U.S. Burning Plasma Organization Activities	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54868 06/30/2011 Schnack	SC-24.2	Transport and Dynamics in Toroidal Fusion Systems	291
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER54870 02/14/2008 Schnack	SC-24.2	SciDAC Cooperative Agreement for CEMM/Transport and Dynamics in Toroidal Fusion Systems	78
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54850 04/30/2009 Sovinec	SC-24.2	Transients and Magnetic Relaxation in Innovative Confinement Concepts	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54813 02/28/2010 Sovinec	SC-24.2	Plasma Center for Computational Predictability at Washington, Wisconsin, and Utah State Universities	80
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54814 12/14/2009 Sarff	SC-24.2	Reversed Field Pinch Research in MST	6,116
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54821 03/14/2011 Pfothenauer	SC-24.2	Cryogenic Optimization of D2 Pellet Injectors: Preparation for ITER-Scale Fusion Reactors	75
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54939 07/31/2010 Hegna	SC-24.2	Communication Support for U.S. Burning Plasma Organization	82

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-90ER61057 10/31/2008 Revercomb	SC-23.3	High Spectral Resolution Observations for the ARM Program: Clear and Cloudy Sky Applications	169
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54932 07/14/2010 Boldyrev	SC-24.2	Toward the Theory of Turbulence in Magnetized Plasmas	208
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER53212 11/30/2009 Terry	SC-24.2	Theoretical Studies Related to Reversed Field Pinch Physics	191
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER52122 06/30/2011 Vernon	SC-24.2	High Power Microwave Transmission Systems for Electron-Cyclotron-Resonance Plasma Heating	109
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER53218 12/31/2009 Hegna	SC-24.2	Nonlinear and Nonideal MHD	276
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53291 12/14/2010 Terry	SC-24.2	Turbulence and Transport in Toroidal Plasmas	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53296 12/31/2010 McKee	SC-24.2	Multifield Fluctuation Diagnostics for Turbulence Studies in Tokamak Plasmas	437
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER54222 01/31/2010 Anderson	SC-24.2	HSX: A Helically Symmetric Toroidal Experiment	1,341
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-92ER54139 04/30/2011 Callen	SC-24.2	Large Experiment Data Analysis Collaboration	160
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-96ER54375 11/30/2009 Hegna, Corradini	SC-24.2	Plasma Studies at Near-Unity Aspect Ratio	903
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-96ER54362 12/31/2008 Corradini	SC-24.2	Fusion Reactor System Safety Studies: Radioactive Dust Mobilization, Transport and Chemical Reactivity in ITER;	55
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-97ER54437 09/14/2009 Hershkowitz	SC-24.2	Laboratory Measurements of Bohm Presheaths: Experimental Check of Many of the Predicted Properties	210
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-98ER54462 12/31/2009 El-Guebaly, Henderson, Haynes, Kulcinski	SC-24.2	Fusion Advanced Design Studies	265
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54513 10/31/2010 Sawan, Mogahed, Sviatoslavsky,	SC-24.2	Nuclear Technologies for Near Term Fusion Devices	194
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER54619 01/14/2011 Shaing	SC-24.2	Neoclassical Theory and its Applications	53

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-00ER54603 12/31/2009 Forest	SC-24.2	Stabilization of Resistive Wall Modes Using Moving Metal Walls	211
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54546 12/31/2010 Hegna	SC-24.2	Theoretical Studies of Near Symmetric Stellarator Plasmas	142
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54751 07/31/2010 Santarius	SC-24.2	Investigation of the Feasibility of Plasma-Jet Magnetized-Target Fusion	80
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54745 02/14/2010 Santarius	SC-24.2	Atomic Physics Effects on Spherically Convergent, Child-Langmuir Ion Flow Between Nearly Transparent Electrodes	68
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-02ER54668 02/14/2008 Sovinec	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	139
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER41436 03/31/2011 Livny	SC-25	Sustaining and Extending the Open Science Grid: Science Innovation on a PetaScale Nationwide Facility	1,417
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER41351 08/31/2009 Prepost	SC-25	Development of Polarized Photocathodes for the Linear Collider	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER46147 05/31/2010 Evans	SC-22.21	Picosecond Dynamics in Complex Oxide Nanostructures	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-03ER46028 04/30/2010 Lagally	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing Characterization, and Novel Devices	429
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER46327 07/31/2010 Eom	SC-22.22	Growth and Characterization of Atomic Layer Controlled MgB2 Thin Films	150
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-95ER40896 10/31/2010 Smith	SC-25	High Energy Physics Research: Experimental, Theoretical, Phenomenology, Mathematical	4,760
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER25802 11/14/2011 Miller	SC-21.1	Institute for Scalable Application Development Software	135
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER40438 12/31/2007 Haeberli	SC-26.1	Development of Hydrogen and Deuterium Polarized Gas Targets for Application in Storage Rings	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-91ER40643 06/30/2007 Larbalestier	SC-25	High Field Superconductor Development and Understanding	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER25703 08/14/2009 Liu	SC-21.1	Multi-Scale Coupling in Geophysical and Climate Modeling	123



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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER25627 08/31/2011 Mitchell	SC-21.1	BACTER: Bringing Advanced Computational Techniques to Environmental Research	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER20332 08/14/2009 Bednarek	SC-22.13	Role of AtCDC48 & the AtCDC48 Regulatory Protein Family, PUX, in Plant Cell Morphogenesis	114
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-01ER25475 04/30/2007 Rutland	SC-21.1	An Algorithmic and Software Framework for Partial Differential Equations	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER25176 01/31/2009 Miller	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	682
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-94ER20140 12/31/2007 Hammel	SC-22.13	Small oxidants and electrophiles as agents of lignocellulose decay by fungi	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER15899 08/31/2010 Gilbert	SC-22.12	Mapping of Temporal and Spatial Phase Transitions of CaCO <sub>3</sub> in Echinoderm Skeletons: Key Insights into Basic Mechanisms in Biomineralization	324
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-91ER20029 05/31/2008 Patterson	SC-22.13	Genomic Analysis of the Receptor Kinase Gene Family in Arabidopsis thaliana	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-84ER13183 06/30/2011 Dumesic	SC-22.12	Fundamental Studies of the Reforming of Oxygenated Compounds Over Supported Metal Catalysts	147
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER13406 12/31/2009 Casey	SC-22.1	Mechanistic Studies at the Interface Between Organometallic Chemistry and Homogeneous Catalysis	147
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER13500 10/14/2010 Crim	SC-22.11	Dissociation Pathways and Vibrational Dynamics in Excited Molecules and Complexes	145
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER14389 03/31/2010 Valley	SC-22.12	High Precision Ion Microprobe Analysis of Low Temperature Quartz Cements	233
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13938 06/30/2009 Sussman	SC-22.13	Molecular Mechanism of Energy Transduction by Plant Membrane Proteins	109
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13968 04/14/2010 Vierstra	SC-22.13	Molecular Dissection of the Arabidopsis Holo-26S Proteasome	162
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-87ER13712 05/31/2009 Cullen	SC-22.13	Extracellular Oxidative Metabolism of Wood Decay Fungi	60
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER14949 10/14/2009 Landis	SC-22.1	Mechanisms and Design in Homogeneous Catalysis	143

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER15234 10/31/2008 Rutland	SC-22.1	Terascale High-Fidelity Simulations of Turbulent Combustion with Detailed Chemistry (TSTC)	80
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER15266 09/14/2009 Jiang	SC-22.13	Structure, Function, and Evolution of Rice Centromeres	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER15565 03/15/2008 Sharkey	SC-22.13	Carbon Export from the Calvin Cycle in Plants and Protists	130
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER15527 05/31/2010 Spalding	SC-22.13	Studies of Amino-Acid Signaling Mediated by Glutamate Receptors in Arabidopsis	147
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-02ER15342 08/31/2011 Bent	SC-22.13	Dissection and Manipulation of LRR Domains in Plant Disease Resistance Gene Products	114
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15690 11/14/2011 Stahl, Brunold	SC-22.12	Mechanisms of Organometallic Aerobic Oxidation Reactions Catalyzed by Copper	143
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15653 07/31/2009 Donohue	SC-22.13	Response to Photo Oxidative Stress	133
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15731 07/14/2011 Mavrikakis	SC-22.12	Atomic-Scale Design of a New Class of Alloy Catalysts for Reactors Involving Hydrogen: A Theoretical and Experimental	266
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15738 08/14/2009 Goodwin	SC-22.12	Quantifying the Micromechanical Effects of Variable Cement in Granular Porous Media	73
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64171 01/14/2009 Roden	SC-23.4	Integrated Nucleic Acid System for In-Field Monitoring of Microbial Community Dynamics and Metabolic Activity	98
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64172 01/14/2008 Roden	SC-23.4	Reaction-Based Reactive Transport Modeling of Iron Reduction and Uranium Immobilization at Area 2 of the NABIR Field Research Center	103
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64167 12/14/2011 Turner	SC-23.3	Evaluating Radiative Closure in the Middle-to-Upper Troposphere	91
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64187 01/31/2009 Eloranta	SC-23.3	Cloud Model Validation Using Particle Size & Ice Crystal Morphology Data Derived from M-PACE High Spectral Resolution Lidar & Millimeter Wavelength Radar Return	114
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64202 03/14/2009 DeSlover	SC-23.3	Parameterizing Size Distributions in Ice Clouds	31
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64297 08/31/2008 Vavrus	SC-23.3	Improving the Simulation of Arctic Clouds in CCSM3	0

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64305 02/29/2008 Turner	SC-23.3	Analysis and Calibration of CRF Raman Lidar Cloud Liquid Water Measurements	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER64494 11/30/2012 Donohue	SC-23.2	Great Lakes Bioenergy Research Center	9,973
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER64495 09/14/2010 Noguera	SC-23.2	Networks Impacting Solar-Powered Hydrogen Production	800
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER64434 07/31/2010 DeWeaver	SC-23.3	Dynamics of Arctic and Sub-Arctic Climate and Atmospheric Circulation: Diagnosis of Mechanisms and Biases Using Data Assimilation	90
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64428 07/14/2010 Kravtsov	SC-23.3	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical	65
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64382 03/31/2010 Saffarini	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	224
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-06ER46328 08/14/2009 Gajdardziska-Josifov	SC-22.21	Atomic and Electronic Structure of Polar Oxide Interfaces	150
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-06ER46277 03/14/2011 Lyman	SC-22.21	Probing Surfaces and Nanostructures with Surface X-ray Diffraction: Application of a Direct Method for the Visualization of Surfaces	147
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-84ER45076 10/31/2010 Saldin	SC-22.21	Electron Scattering from Surfaces	0
Total for WI :				35,072

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-00ER45829 12/31/2007 Bajura	SC-22.21	DOE/EPSCoR State Implementation Plan- -Integrated Computing, Communication, and Distributed Control of De-Regulated Electric Power Systems	0
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-06ER46267 12/31/2008 Koepke	SC-22.21	Laser-Induced Fluorescence Measurements on Plasma Science Experiments at Princeton Plasma Physics Laboratory	150
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-06ER46299 07/31/2009 Bajura	SC-22.21	Direct Utilization of Coal Syngas in High Temperature Fuel Cells	400
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-06ER64148 11/14/2009 Cumming	SC-23.2	Exudation by Poplar Ectomycorrhizas: Qualitative and Quantitative Assessment of C Sequestration	327
Total for WV :				877

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Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2007
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-05ER64069 06/30/2009 Wang	SC-23.3	Using Radar, Lidar, and Radiometer Measurements to Classify Cloud Type and Study Middle-Level Cloud Properties	122
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-05ER15655 05/31/2009 Sylvester	SC-22.13	Analysis of cell division and expansion during leaf morphogenesis in maize and rice	114
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-06ER15823 08/31/2009 Eggleston	SC-22.12	Redox Interaction of Cytochromes and Bacteria with Oxide Surfaces: Probing Redox-Linked Conformation Change	102
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-06ER15825 08/31/2009 Eggleston	SC-22.12	Waveguide Scanning Photocurrent Microscopy (WaSPM): A New Molecular Imaging and Characterization Tool	130
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-05ER46235 08/31/2009 Buttry	SC-22.23	eNMR for In-Situ Fuel Cell Catalyst Characterization	100
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-05ER46185 06/01/2008 Roddick	SC-22.21	New Catalysts for Ionic Hydrogenations	149
Total for WY :				717
Grand Total:				569,703