

OFFICE OF SCIENCE

Information Management for Office of Science (IMSC)

Listing of Active Awards for State (AK)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-08ER46502 06/30/2012 Deal	SC-22.21	Influence of Sea Ice on Arctic Marine Sulfur Biogeochemistry in the Community Climate System Model	0
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-09ER46628 08/14/2012 Zhang	SC-22.21	Novel Dense Membranes for Hydrogen Separation for Energy Applications	15
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-09ER46629 08/14/2013 Bhatt	SC-22.21	Characterization of the Dynamics of Climate Systems and Identification of Missing Mechanisms Impacting Global Climate Models	15
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-10ER46707 07/14/2013 Holdmann	SC-22.21	Making Wind Work for Alaska: Supporting the Development of Sustainable, Resilient, Cost-Effective Wind-Diesel Systems for	50
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-04ER54741 12/14/2012 Newman	SC-24.2	Investigations of the Dynamics of Self-Consistent Models for Turbulent Transport and Implications for Transport Barrier Formation and Evolution	171
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-11ER65127 02/28/2013 Hinzman	SC-23.2	Alaska Climate Data Center	972
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-11ER65330 09/14/2014 Walter Anthony	SC-23.1	Collaborative Research: Quantifying Climate Feedbacks of the Terrestrial Biosphere Under Thawing Permafrost Conditions in the Arctic	183
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-11ER65333 09/14/2014 Hinzman	SC-23.1	Toward the Development of a Cold Regions Regional-Scale Hydrologic Model	513
ASKA, UNIVERSITY OF, FAIRBANKS Fairbanks, AK	DE-FG02-11ER65371 09/14/2014 Hutchings	SC-23.1	CR: Understanding the Effects of Tides and Eddies on the Ocean Dynamics, Sea Ice Cover and Decadal/Centennial Climate Production Using the Regional Arctic...	82
Total for AK :				2,001

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (AL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
BAMA, UNIVERSITY OF HUNTSVILLE Huntsville, AL	DE-FG02-10ER55027 05/31/2012 Cassibry	SC-24.2	Formation of Imploding Plasma Liners for Fundamental HEDP Studies and MIF Standoff Driver Concept	195
BAMA, UNIVERSITY OF HUNTSVILLE Huntsville, AL	DE-FG02-11ER65175 08/31/2014 Cseke	SC-23.2	Nutrient Cycling for Biomass: Interactive Proteomic/Transcriptomic Networks for Global Carbon Management Processes within Poplar-Mycorrhizal Interactions	341
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-96ER40967 04/14/2014 Busenitz	SC-25	Research in Neutrino Physics	390
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-09ER64896 09/14/2012 Sobecky	SC-23.1	Uranium Biomineralization by Natural Microbial Phosphatase Activities in the Subsurface	137
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-10ER46737 08/14/2013 Pan	SC-22.21	Single-Molecule Spectroelectrochemistry of Interfacial Charge Transfer Dynamics In Hybrid Organic Solar Cell	15
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-09ER46630 08/14/2013 Steadman	SC-22.21	Nanostructure-Enhanced Phase Change Materials (NEPCM) and HRD Coordination	635
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-08ER46499 06/14/2012 LeClair	SC-22.21	Exchange Interactions in Epitaxial Intermetallic Layered Systems	0
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-08ER46537 08/31/2014 Gupta	SC-22.23	Multicomponent Protein Cage Architecture for Photocatalysis	219
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-10ER41714 08/31/2013 Okada	SC-25	Research in Theoretical High Energy Physics	50
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-86ER13465 01/14/2013 Kispert	SC-22.13	Magnetic Resonance and Optical Spectroscopic Studies of Carotenoids	145
BAMA, UNIVERSITY OF TUSCALOOSA 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	49
BAMA, UNIVERSITY OF TUSCALOOSA Tuscaloosa, AL	DE-FG02-01ER41166 03/14/2013 Piepke	SC-26.1	Low Energy Neutrino Physics	300
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER54577 10/31/2012 Thomas	SC-24.2	RECOVERY ACT - Sheared Flows in Magnetized Plasmas - Fusion, Laboratory, and Space Applications	108
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER54610 11/30/2013 Knowlton	SC-24.2	MHD Stability and Equilibrium in a Current-Driven Stellarator-Tokamak Hybrid	679
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-09ER64804 07/31/2012 Barnett	SC-23.1	Understanding the Subsurface Reactive Transport of Transuranic Contaminants at DOE Sites	191

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (AL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-03ER54692 10/31/2014 Hanson	SC-24.2	Three-Dimensional Equilibrium Reconstruction and MHD Studies in Stellarators	114
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-96ER54348 12/31/2013 Pindzola	SC-24.2	Theoretical Atomic and Molecular Physics for Controlled Fusion Energy	113
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-05ER54819 09/14/2014 Pindzola	SC-24.2	Computational Atomic and Molecular Physics for Transport Modeling of Fusion Plasmas	179
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-08ER46497 06/14/2012 Fergus	SC-22.21	Effect of SOFC Interconnect-Coating Interactions on Coating Properties and Performance	0
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-00ER15069 01/31/2015 Robicheaux	SC-22.11	Atoms and Ions Interacting with Particles and Fields	80
AUBURN UNIVERSITY Auburn University, AL	DE-FG02-10ER16146 06/30/2014 Landers	SC-22.11	Imaging Multi-Particle Atomic and Molecule Dynamics	120
SA - MARSHALL SPACE FLIGHT CTR Huntsville, AL	DE-AI02-09ER46557 07/31/2013 Gubarev	SC-22.21	Optics for Advanced Neutron Imaging and Scattering	325
SOUTH ALABAMA, UNIVERSITY OF Mobile, AL	DE-FG02-96ER40970 04/14/2012 Jenkins	SC-25	Experimental High Energy Physics Group	63
Total for AL :				4,448

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (AR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-01ER15161 08/14/2013 Henry	SC-22.13	Protein Targeting to the Chloroplast Thylakoid Membrane: Structure and Function of a Targeting Complex	165
ARKANSAS, UNIVERSITY OF Fayetteville, AR	DE-FG02-09ER46612 08/14/2012 Bellaiche	SC-22.22	Properties of Multiferroic Nanostructures From First Principles	150
SAS, UNIVERSITY OF LITTLE ROCK Little Rock, AR	DE-FG02-07ER64328 12/14/2012 Gaffney	SC-23.1	Natural Radionuclides and Isotopic Signatures for Determining Carbonaceous Aerosol Sources, Aerosol Lifetimes, and Washout Processes	0
Total for AR :				315

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (AZ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER25984 05/31/2013 Ahn	SC-21.1	Assured Resource Sharing in Ad-hoc Collaboration	171
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER41624 08/14/2012 Krauss	SC-25	Theoretical Research at the High Energy Frontier: Cosmology, Neutrinos, and Beyond	355
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER16123 09/14/2012 Wachter	SC-22.13	SISGR - The Regulation of Carbon Fixation in Plant and Green Algae: Rubisco Activase and the Origin of Heat	250
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15603 01/31/2014 Steimle	SC-22.11	Generation, Detection and Characterization of Gas-Phase Transition Metal Containing Molecules	114
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-03ER15393 02/14/2013 Gust, Moore, Moore	SC-22.13	Supramolecular Structures for Photochemical Energy Conversion	175
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER15543 05/31/2014 Vermaas	SC-22.13	Thylakoid Membrane Biogenesis in Cyanobacteria	170
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-09ER64805 07/31/2012 Rittmann	SC-23.1	Assessing the Role of Iron Sulfides in the Long Term Sequestration of U by Sulfate Reducing Bacteria	100
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER46732 06/30/2013 Treacy	SC-22.21	Structural Studies of Amorphous Materials by Fluctuation Electron Microscopy	215
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-10ER46764 07/14/2013 Crozier	SC-22.21	Development and Application of In Situ Nanocharacterization to Photocatalytic Materials for Solar Fuel Generation	145
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-11ER41744 04/30/2014 Comfort	SC-25	Search for New Physics in Neutral Kaon Decays	65
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-01ER45943 06/14/2012 Tao	SC-22.22	Electron Transport and Energy Conversion in Single Molecule Devices	85
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-02ER45996 06/30/2012 Spence	SC-22.21	Quantitative Electron Nanodiffraction	150
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-04ER46168 05/31/2014 McCartney	SC-22.21	Nanoscale Imaging of Electrostatic and Magnetic Fields	140
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-06ER46345 08/14/2012 Drucker	SC-22.23	Science of Nanowire Epitaxy	65
ARIZONA STATE UNIVERSITY Tempe, AZ	DE-FG02-11ER65162 05/14/2012 Gurney	SC-23.1	Impacts of High Resolution Extreme Events on US Energy Demand and CO2 Emissions in the 21st Century	51

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (AZ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-11ER65160 08/31/2015 Zeng	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System Model (RASM)	185
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-11ER65315 09/14/2014 Saleska	SC-23.1	Partitioning CO2 Fluxes with Isotopologue Measurements and Modeling to Understand Mechanisms of Forest Carbon Sequestration	87
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-11ER65368 09/14/2014 Chorover	SC-23.1	Uranium and Strontium Fate in Waste-Weathered Sediments: Scaling of Molecular Processes to Predict Reactive Transport	126
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-11ER65344 09/14/2014 Zeng	SC-23.1	Collaborative Project: Development of Hybrid 3-D Hydrological Modeling for the NCAR Community Earth System Model (CESM)	256
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-09ER46559 02/28/2013 Zhang	SC-22.22	Theoretical Investigation of Magnetization Dynamics at Elevated Temperatures	80
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-09ER64838 08/14/2012 Dominguez	SC-23.1	Hydrologic Extremes in a Changing Climate: How Much Information can Regional Climate Models Provide?	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-08ER64616 08/14/2012 Chorover	SC-23.1	Release of Aged Contaminants from Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive Transport	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-11ER46833 08/31/2014 Stafford	SC-22.22	Many-Body Theory of Energy Transport and Conversion at the Nanoscale	100
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER15616 08/31/2012 Schumaker	SC-22.13	Calcium-mediated regulation of proton-coupled sodium transport	155
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-05ER15753 08/31/2014 Armstrong	SC-22.13	"Electronically Wired" Semiconductor Nanoparticles: Toward Vectoral Electron Transport in Hybrid Materials	250
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-11ER16278 11/30/2014 Schaap	SC-22.12	A Detailed Study of the Physical Mechanisms Controlling CO2-Brine Capillary Trapping in the Subsurface	123
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-96ER20242 03/31/2012 Larkins	SC-22.13	Molecular Genetic Studies of Genes Influencing Maize Endosperm Development	0
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41298 01/31/2013 Rutherford, Sarcevic, Toussaint	SC-25	University of Arizona High Energy Physics Program	1,085
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41318 03/31/2013 Rafelski	SC-26.1	Research in Theoretical High Energy Nuclear Physics at the University of Arizona	145
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41319 03/31/2013 Sarcevic	SC-26.1	Research in Theoretical Nuclear and Neutrino Physics	58

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (AZ)

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ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FG02-04ER41338 07/31/2013 Van Kolck	SC-26.1	Effective Theories of the Strong Interaction	255
ARIZONA, UNIVERSITY OF Tucson, AZ	DE-FC02-06ER41439 09/14/2012 Toussaint	SC-25	SciDAC - National Computational Infrastructure for Lattice Gauge Theory	56
NORTHERN ARIZONA UNIVERSITY Flagstaff, AZ	DE-FC02-06ER64159 11/30/2012 Hungate	SC-23.1	Western Regional Center of the National Institute for Climatic Change Research	0
Total for AZ :				5,212

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TURE, U.S. DEPT. OF, Albany, CA	ARS-WRRC DE-AI02-09ER64830 08/31/2012 Vogel	SC-23.2	Phenomic Analysis of Natural and Induced Variation in Brachypodium Distachyon	402
TURE, U.S. DEPT. OF, Albany, CA	ARS-WRRC DE-AI02-07ER64452 02/28/2014 Vogel	SC-23.2	Insertional Mutagenesis of Brachypodium Distachyon	352
TURE, U.S. DEPT. OF, Albany, CA	ARS-WRRC DE-AI02-08ER15962 06/30/2014 Hake	SC-22.13	Using the Corngrass1 Gene to Enhance the Biofuel Properties of Crop Plants	166
TURE, U.S. DEPT. OF, Albany, CA	ARS-WRRC DE-AI02-97ER20268 04/30/2013 Salvucci	SC-22.13	Optimizing Rubisco Regulation for Increased Photosynthetic Performance under Climate Change	127
RE, U.S. DEPT. OF, Berkeley, CA	FS-BERKELEY DE-AI02-11ER65364 09/14/2014 Groover	SC-23.2	Creation and High-Precision Characterization of Novel Biomass Germplasm	202
INSTITUTE FOR MEDICAL RESEARCH La Jolla, CA	DE-FG02-10ER65026 08/14/2013 Rodionov	SC-23.2	Integrated Approach to Reconstruction of Regulatory Networks	211
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-99ER45766 08/14/2014 Eisenstein	SC-22.22	Quantum Electronic Matter in Two Dimensions	174
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-11ER41735 07/14/2016 Patterson	SC-25	Developing Novel Techniques for Readout, Calibration and Event Selection in the NOVA Long-Baseline Neutrino Experiment	167
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-11ER41740 07/14/2016 Hirata	SC-25	Cosmological Probes of Fundamental Physics	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER46175 01/14/2014 Heath	SC-22.23	Quantum Dot and Quantum Wire Solids	165
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER46055 07/14/2012 Fultz	SC-22.21	Vibrational Thermodynamics of Materials	152
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER46573 07/31/2014 Atwater	SC-22.13	Light-Material Interactions in Energy Conversion -- EFRFC	2,089
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-07ER46405 08/31/2013 Atwater	SC-22.22	Plasmonic Photovoltaics	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-11ER46807 07/14/2016 Greer	SC-22.22	Investigation of Radiation Damage Tolerance in Interface-Containing Metallic Nano Structures	150
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-05ER54849 01/14/2012 Cummings	SC-24.2	SciDAC - Center for Plasma Edge Simulation	110

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER55021 07/14/2012 Bellan	SC-24.2	Non-Equilibrium Magnetohydrodynamic Behavior of Plasmas Having Complex, Evolving Morphology	190
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-04ER54755 01/31/2014 Bellan	SC-24.2	Enhancing Fundamental Understanding of Magnetic Confinement in the Presence of Flows, Non-Conservative Forces, Dynamics, Collisions, Relaxation, and Kinetic...	357
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-08ER15933 03/14/2012 Grubbs	SC-22.12	The Generation of Efficient Supported (Heterogeneous) Olefin Metathesis Catalysts	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-92ER40701 10/31/2013 Wise, Hitlin	SC-25	High Energy Physics	4,284
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER40397 12/31/2011 McKeown	SC-26.1	Study of Nuclei and Elementary Particles at Low and Intermediate Energies	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER41601 06/30/2012 Ellis	SC-25	Understanding the Fundamental Properties of Dark Matter & Dark Energy in Structure Formation and Cosmology	100
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-08ER41559 12/31/2011 Newman	SC-25	US LHCNet:Transatlantic Networking for the LHC & the US HEP Community; EVO: A Global-Scale Networked Infrastructure for	1,900
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-05ER15754 05/31/2012 Lewis	SC-22.13	Fundamental Optical, Electrical, and Photoelectrochemical Properties of Catalyst-Bound Silicon Microwire Array Photocathodes for Sunlight-Driven Hydrogen	120
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	160
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-09ER16107 03/14/2013 Bellan	SC-22.11	SISGR - Modeling Reactions in High-Pressure Turbulence in the Cold Ignition Regime	0
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-11ER16247 11/01/2014 Miller	SC-22.11	Path Integral and Embedded Density Functional Theory Methods for Understanding Coupled Electronic and	115
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FC02-10ER16207 09/14/2015 Lewis	SC-22.13	Joint Center for Artificial Photosynthesis (JCAP)	11,650
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-11ER16230 07/14/2016 Blanquart	SC-22.11	Towards Predictive Simulations of Soot Formation: From Surrogate to Turbulence	159
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-06ER25725 03/31/2014 Hou	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	97
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-03ER15483 02/14/2013 Lewis	SC-22.13	Development of Inexpensive, Abundant Semiconductors for Solar Energy Conversion: Photoelectrochemistry of	190

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-97ER14814 11/14/2013 McKoy	SC-22.11	Electron-Driven Processes in Polyatomic Molecules	135
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-85ER13431 11/30/2012 Bercau	SC-22.12	Synthetic and Mechanistic Investigation of Olefin Polymerization Catalyzed by Early Transition Metal Compounds	185
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-88ER13873 03/20/2012 Meyerowitz	SC-22.13	Regulation of Plant Cells, Cell Walls, and Development by Mechanical Signals	210
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-11ER65184 08/14/2014 Seinfeld	SC-23.1	Organic Aerosol Formation: Laboratory Studies to Guide the Development of Comprehensive Formation Mechanisms and	390
CALIFORNIA INST. OF TECHNOLOGY Pasadena, CA	DE-FG02-10ER64997 07/14/2013 Orphan	SC-23.2	Syntrophic Interactions and Mechanisms Underpinning Anaerobic Methane Oxidation: Targeted Metaproteogenomics, Single-Cell Protein Detection and Quantitative...	529
T. UNIV. DOMINGUEZ HILLS FNDDN Carson, CA	DE-FG02-07ER41525 04/30/2012 Price	SC-26.1	Photoproduction of the Cascade Hyperons With the CLAS Detector at Jefferson Laboratory	58
CALIFORNIA ST. UNIV. FULLERTON Fullerton, CA	DE-FG02-04ER15597 01/31/2015 Feagin	SC-22.11	Reaction Imaging and the Molecular Coulomb Continuum	96
CALIFORNIA ST. UNIV. L. BEACH Long Beach, CA	DE-FG02-10ER41693 08/14/2013 Rajpoot	SC-25	Studies in Gravity, Supersymmetry, Supergravity and Extended Objects	40
CALIFORNIA ST. UNIV. N. RIDGE Northridge, CA	DE-FG02-06ER46305 01/31/2013 Sheng	SC-22.22	Novel Charge and Spin Fractional Quantum Hall Effects and New Emerging Quantum Phases in Interacting and Spin-Orbit Coupling Electronic Materials	110
ALIFORNIA ST. UNIV. SAN MARCOS San Marcos, CA	DE-FG02-11ER55096 07/31/2014 Burin	SC-24.2	RUI: Structure and Behavior of RF-Driven Plasma Filaments in High Pressure Gases	60
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER46594 05/31/2013 Schaffer	SC-22.23	Engineering the Interface Between Inorganic Materials and Cells	185
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64390 03/14/2012 Coates	SC-23.1	Anaerobic, Bio-Oxidation of Uraninite (U(IV))	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-07ER64436 07/14/2012 Fung	SC-23.1	Carbon Data Assimilation With a Coupled Ensemble Kalman Filter	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-06ER64308 02/28/2011 Baldocchi	SC-23.1	Quantifying & Understanding Interannual Variability of Carbon, Water, and Energy Exchange of an Oak Savanna & an Annual	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER64555 08/31/2012 Firestone	SC-23.1	Trajectories of Microbial Community Function in Response to Accelerated Remediation of Subsurface Metal Contaminants	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-08ER64588 07/31/2012 Chiang	SC-23.1	The Interhemispheric Pattern in 20th Century and Future Abrupt Change in Regional Tropical Rainfall	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER55078 07/14/2013 Graves	SC-24.2	Collaborative Proposal: Fundamental Science of Low Temperature Plasma-Biological Material Interactions	90
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-06ER54904 07/31/2012 Fajans	SC-24.2	Collaborative Research: Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	360
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-11ER46796 07/14/2016 Wu	SC-22.22	Functional Domain Walls as Active Elements for Energy Technology	157
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER41688 06/30/2013 Haxton	SC-26.1	Nuclear Physics and Astrophysics Theory at UC Berkeley	185
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41289 09/14/2012 Wurtele	SC-25	Advanced Accelerator Concepts	264
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-04ER41304 12/14/2012 Crawford	SC-26.1	Investigation of Nuclear Partonic Structure	348
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-06ER41453 09/14/2012 Kasen, McKee	SC-25	SciDAC: Supernovae, Gamma Ray Bursts, and Nucleosynthesis	90
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-00ER41138 02/29/2012 Freedman	SC-26.1	US Participation in the KamLAND Experiment	295
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-07ER25799 11/14/2012 Yelick	SC-21.1	Center for Scalable Application Development Software	135
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FC02-10ER25999 08/31/2013 Bodik	SC-21.1	Software Synthesis for High Productivity Exascale Computing	462
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25986 08/31/2013 Demmel	SC-21.1	Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems	150
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER25970 03/14/2013 Demmel	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	160
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15637 01/31/2013 Wenk	SC-22.12	Anisotropy and Residual Stresses in Sedimentary Rocks: A Synchrotron and Neutron Diffraction Study	119
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-05ER15696 08/14/2014 Katz	SC-22.12	Controlling Heterogeneous Catalysts Selectivity Using Grafted Metallocalixarene Active Sites	150

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-87ER13742 06/30/2013 Quail	SC-22.13	Phytochrome from Green Plants: Properties and Biological Function	160
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-11ER16274 08/31/2014 Luan	SC-22.13	Immunophilins in the Assembly and Maintenance of Photosynthetic Complexes	155
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-11ER16231 07/14/2016 Savage	SC-22.13	Engineering self-assembled bioreactors from protein microcompartments	159
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER16008 02/14/2012 Somerville	SC-22.13	Regulation of Cellulose Synthesis	0
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER16034 07/31/2014 Smit	SC-22.21	Center for Gas Separations Relevant to Clean Energy Technologies -- EFRC	1,430
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64996 07/14/2013 Banfield	SC-23.2	Development and Integration of Genome-Enabled Techniques to Track and Predict the Cycling of Carbon in Model	542
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65009 07/31/2013 Banfield	SC-23.1	3D Reconstruction of Biological Organization and Mineralization in Sediment Attached Biofilms During Uranium Bioremediation	121
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65027 08/14/2013 Sjolander	SC-23.2	Phylogenomic Tools and Web Resources for the Systems Biology Knowledgebase	466
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER65088 09/14/2013 Baldocchi	SC-23.1	Using a Regional Cluster of AmeriFlux Sites in Central California to Advance Our Knowledge on Decadal-Scale Ecosystem-Atmosphere Carbon Dioxide	346
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-10ER64989 06/30/2013 Firestone	SC-23.2	Plant Stimulation of Soil Microbial Community Succession: How Sequential Expression Mediates Soil Carbon	551
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-11ER65217 08/31/2014 Fung	SC-23.1	Predictability of the Carbon-Climate System on Seasonal to Decadal Time Scales	540
CALIFORNIA, UNIV. OF BERKELEY Berkeley, CA	DE-FG02-09ER64867 08/14/2012 Fung	SC-23.1	Modeling Diurnal Variations of California Land Biosphere CO2 Fluxes	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64871 09/14/2012 Qi	SC-23.2	A Simultaneous PET and Fluorescence Optical Tomography Imaging System for Small Animals	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64889 09/14/2012 Louie	SC-23.2	Multimodal Nanomaterials for PET/MRI Optical Imaging	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-11ER65211 08/14/2014 Comai	SC-23.2	Creation and High-Precision Characterization of Novel Poplar Biomass Germplasm	525

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-11ER65293 09/14/2014 Zhang	SC-23.1	Characterizing Organic Aerosol Processes and Climatically Relevant Properties via Advanced and Integrated Analysis of	166
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER15963 06/30/2014 Inoue	SC-22.13	Thylakoid Biogenesis: Significance of Protein Maturation and Mechanism of Protein Targeting	167
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER16077 08/31/2014 Callis	SC-22.13	Investigations into Proteins Affecting Chloroplast Function	145
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER16117 09/14/2012 Lagarias	SC-22.13	SISGR: Photoreceptor Regulation and Optimization of Energy Harvesting in Nostoc Punctiforme	1,000
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-11ER16219 02/28/2014 Gates	SC-22.12	Dispersed Metal Cluster Catalysts by Design: Synthesis, Characterization, Structure and Performance	300
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-11ER16249 08/31/2014 McCurdy	SC-22.11	Ultrafast Processes in Atoms and Molecules : Integrated Treatment of Electronic and Nuclear Motion in Ultrashort XUV Pulses	256
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-11ER16282 08/31/2014 Britt	SC-22.13	Multi-Frequency Pulsed EPR Studies of the Photosystem II Oxygen Evolving Complex	180
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15306 05/31/2014 Ng	SC-22.11	Determination of Accurate Energetic and Spectroscopic Database for Combustion Radicals and Molecules by High Resolution Photoion-Photoelectron Methods	116
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-02ER15315 10/31/2014 Orel	SC-22.11	Electron-Driven Excitation and Dissociation of Molecules	95
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-97ER14749 05/31/2015 Navrotsky	SC-22.12	Thermodynamics of Minerals Stable Near the Earth's Surface	246
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15693 11/30/2012 Casey	SC-22.12	Adding Reactivity to Structure-- -Oxygen-Isotope Exchanges at Structural Sites in Nanometer-Size Aqueous Clusters	148
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER15405 06/30/2012 Theg	SC-22.13	Energetics and Mechanisms of Protein Transport Across Chloroplast Membranes	80
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15568 11/14/2013 Rundle	SC-22.12	Statistical Mechanics of Defect-Mediated Dynamics in Complex Geomaterials	175
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-05ER15667 08/14/2014 Navrotsky	SC-22.12	Energetics of Nanomaterials	220
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER15513 02/14/2013 Gates	SC-22.12	Tailoring Supports as Ligands: Zeolites and Oxides as Hosts of Molecular Metal-Complex Catalysts	180

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER25910 08/31/2012 Mukherjee	SC-21.1	Dynamic Provisioning for Terascale Science Applications using Hybrid Circuit/Package Technologies and 100G Transmission Systems	175
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25793 09/14/2012 Bai	SC-21.1	Next Generation Multi-Scale Quantum Simulation Software for Strongly Correlated Materials	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25794 12/14/2012 Galli	SC-21.1	Institute for Quantum Simulations of Materials and Nanostructures	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25777 12/14/2012 Ma	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	898
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-06ER25780 07/01/2012 Joy	SC-21.1	Visualization and Analytics Center for Enabling Technologies (VACET)	298
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-07ER25811 11/14/2012 Ludaescher	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	193
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER25878 08/14/2012 Miller	SC-21.1	Modeling and Algorithmic Approaches to Constitutively-Complex Microstructured Fluids	133
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FC02-10ER26039 08/31/2013 Ma	SC-21.1	Pervasive Parallel Processing Framework for Data Visualization and Analysis at Extreme Scale	308
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-91ER40674 12/31/2012 Ko	SC-25	High Energy Particle Physics Research	2,196
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER41280 08/31/2012 Pellett	SC-25	Radiation Damage Studies of Materials and Electronic Devices Using Hadrons	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER41696 08/31/2013 Tripathi	SC-25	Development of Interconnect Technologies for Particle Detectors	48
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54518 02/29/2012 Luhmann	SC-24.2	Millimeter-Wave Density Fluctuation Diagnostics for NSTX	330
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER54732 02/28/2014 Hwang	SC-24.2	Multiple Applications of Accelerated Compact Toroids in Magnetic Fusion Devices	349
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-10ER55083 05/31/2012 Hwang	SC-24.2	Formation of Dense Magnetized Plasmas via Laser Generated Beat Wave Current Drive	305
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER64481 02/29/2012 Bennett	SC-23.2	Intellectual Property and U.S. Public Investments in Research on Biofuel Technologies	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-08ER64530 04/14/2012 Wexler	SC-23.1	Process Models of the Equilibrium Size & State of Organic/Inorganic Aerosols for the Development of Large Scale Atmospheric	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64821 08/31/2013 Sutcliffe	SC-23.2	CARE California Alliance for Radiotracer Education	1,163
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64832 08/31/2012 Zhang	SC-23.1	Integrated Analyses of Multiple Worldwide Aerosol Mass Spectrometer Datasets for Improved Understanding of Aerosol Sources	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-09ER64785 06/30/2012 Rocke	SC-23.2	Inter-Individual Variability in Human Response to Low-Dose Ionizing Radiation	380
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-99ER54531 12/14/2012 Luhmann	SC-24.2	Innovative Diagnostic Developments for Turbulence and Transport Measurement and Visualization	695
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-07ER46475 08/14/2013 Power	SC-22.23	Activation of Hydrogen Under Ambient Conditions and Unusual Element Hydride Reactivity by Main Group Molecules	170
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-11ER46795 07/14/2016 Castro	SC-22.22	Energetics of Radiation Tolerant Nanoceramics	152
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46262 11/14/2012 Galli	SC-22.22	Semiconductor Nanostructures by Scientific Design	235
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-06ER46340 08/14/2012 Kuhl	SC-22.21	Structure-Property Relationships of Polymer Brushes in Restricted Geometries and their Utilization as Ultra-Low	0
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46053 06/30/2012 Navrotsky	SC-22.23	Thermochemistry of Anion Defect and Charge Coupled Substitutions in Fluorite and Perovskite-Based Materials	200
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-03ER46057 06/14/2013 Browning	SC-22.21	Materials Properties at Interfaces in Nanostructured Materials: Fundamental Atomic Scale Issues	160
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46111 01/31/2013 Pickett	SC-22.22	Theory of Oxide Nanostructures: Polarity, Dimensionality, and Strong Interactions	110
CALIFORNIA, UNIV. OF DAVIS Davis, CA	DE-FG02-04ER46173 07/31/2013 Parikh	SC-22.23	Dynamical Self-Assembly: Structure-Dynamics-Function Relations in Heterogenous Lipid Membranes	327
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46174 08/31/2013 Chernyshev	SC-22.22	Spin-Mediated Energy Transport and Dynamics in Quantum Magnets	110
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER46162 02/28/2014 Guan	SC-22.23	Bioinspired Hydrogen Bonding-Mediated Assembly of Nano-Objects toward Adaptive and Dynamic Materials	154

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER46237 08/31/2014 Wu	SC-22.22	First Principles Investigation for Magnetic Properties of Innovative Materials	95
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-84ER45083 01/31/2014 Mills	SC-22.22	Theory of Spin Dynamics in Nanoscale and Subnanoscale Magnetic Structures	105
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-96ER45576 04/14/2014 Hemminger	SC-22.23	Optical Spectroscopy and Scanning Tunneling Microscopy Studies of Molecular Adsorbates and Anisotropic Ultrathin Films	162
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER46496 04/30/2014 Burke	SC-22.22	Fundamental Theory of Electronic Structure in the Nanoregime: Transport Through Single Molecules	105
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-05ER64021 04/30/2013 Goulden	SC-23.1	Physiological, Demographic, Competitive and Biogeochemical Controls on the Response of California's Ecosystems to Environmental Change	384
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-08ER54976 02/14/2016 Lin	SC-24.2	Gyrokinetic Simulation of Energetic Particle Turbulence and Transport	200
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER64798 07/14/2012 Limoli	SC-23.2	Neurodegeneration and Adaptation in Response to Low-Dose Photon Irradiation	589
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER64695 03/14/2013 Detwiler	SC-23.1	Scale-Dependent Fracture-Matrix Interactions and their Impact on Radionuclide Transport	0
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER64762 06/14/2012 Gerber	SC-23.2	From Vibrational Spectroscopy to Force Fields and Structures of Saccharides: New Computational Algorithms and Applications	284
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER55044 08/14/2012 Lin	SC-24.2	Gyrokinetic Particle Simulation of Compressible Electromagnetic Turbulence in High-B Plasmas	110
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-07ER54916 12/31/2012 Lin	SC-24.2	Multiple-Time-Scale Gyrokinetic Particle Simulation with Collisions	99
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER54736 12/14/2012 Chen	SC-24.2	Theoretical Studies of Drift-Alfven and Energetic-Particle Physics	140
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-03ER54720 08/14/2012 Heidbrink	SC-24.2	Fast-Ion Studies in the Large Plasma Devices	148
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER54867 04/14/2012 Heidbrink	SC-24.2	Fast-Ion D-Alpha Diagnostic for NSTX	128
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FC02-06ER54860 01/14/2012 Lin	SC-24.2	SciDAC - Center for Plasma Edge Simulation	70

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-02ER54681 08/14/2014 Heidbrink	SC-24.2	Beam Ion Studies in NSTX	135
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-91ER40679 01/31/2013 Sobel	SC-25	A Research Program in Neutrino Physics, Cosmic Rays, and Elementary Particles	2,519
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-06ER15826 03/31/2013 Ho	SC-22.11	Single-Molecule Interfacial Electron Transfer	150
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15571 12/31/2013 Mukamel	SC-22.11	Theory and Simulation of Nonlinear X-Ray Spectroscopy of Molecules	216
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-04ER15595 02/28/2013 Ho	SC-22.11	Spectroscopic Imaging Toward Space-Time Limit	175
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13514 06/14/2013 Evans	SC-22.12	Advancing Chemistry with the Lanthanide and Actinide Elements	125
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-86ER13525 05/31/2014 Lanyi	SC-22.13	Membrane Bioenergetics of Salt Tolerant Organisms	185
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-09ER16003 01/31/2013 Detwiler	SC-22.12	Multiphase Fluid Flow in Deformable Variable-Aperture Fractures	183
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-08ER15994 08/14/2014 Blum	SC-22.12	Single-Molecule Fluorescence Imaging for Studying Organic, Organometallic, and Inorganic Reaction Mechanisms	140
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-11ER65305 09/14/2014 Prather	SC-23.1	Interactive Photochemistry in Earth System Models to Assess Uncertainty in Ozone and Greenhouse Gases	200
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-11ER65273 08/31/2014 Smyth	SC-23.1	Collaborative Research: Decadal Prediction and Stochastic Simulation of Hydroclimate Over Monsoonal Asia	120
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-11ER65208 08/31/2014 Finlayson-Pitts	SC-23.1	Laboratory Studies of the Role of Amines in Particles Formation, Growth and Climate	400
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-10ER64995 06/30/2013 Allison	SC-23.2	Can Microbial Functional Traits Predict the Response and Resilience of Decomposition to Global Change?	785
CALIFORNIA, UNIV. OF IRVINE Irvine, CA	DE-FG02-11ER65358 09/14/2014 Primeau	SC-23.1	Collaborative Project: Improving CESM Efficiency to Study Variable C:N:P Stoichiometry in the Oceans	220
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-11ER65346 09/14/2014 Liou	SC-23.1	Collaborative Project: 3D Radiative Transfer Parameterization Over Mountains/Snow for High-Resolution Climate	250

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-11ER65254 08/31/2014 Liao	SC-23.2	Dynamic Metabolic Model Building Based on Ensemble Modeling Approach	750
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-11ER65275 08/31/2014 Ghil	SC-23.1	Collaborative Research: Decadal Prediction and Stochastic Simulation of Hydroclimate Over Monsoonal Asia	120
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-11ER65278 09/14/2014 Neelin	SC-23.1	Collaborative Project: Sensitivity of Atmospheric Parametric Formulations to Regional Mesh Refinement in Global Climate Simulations Using CESM-HOMME	311
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-10ER16136 03/31/2013 Kavner	SC-22.12	Stable-Isotope Probe of Nano-Scale Mineral-Fluid Redox Interactions	171
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-10ER16192 08/31/2013 Weiss	SC-22.12	DC to Daylight: Local Spectroscopies for Subnanometer Spatial Resolution Chemical Imaging	264
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-05ER25710 08/31/2012 Caflisch	SC-21.1	Multiscale Mathematics for Plasma Kinetics Spanning Multiple Collisionality Regimes	214
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-11ER16263 08/14/2013 Young	SC-22.12	Development of Tandem, Double-Focusing, Electron Impact, Gas Source Mass Spectrometer for Measurement of Rare Doubly-Substituted Isotopologues in	400
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-08ER15935 01/31/2012 Yaghi	SC-22.12	Metal-Organic and Zeolite Imidazolate Frameworks (MOFs and ZIFs) for Highly Selective Separations	0
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-08ER15948 05/31/2013 Diaconescu	SC-22.12	Uranium Complexes for the C-H Activation of Hydrocarbons	270
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FC02-06ER25797 09/14/2012 Zhong	SC-21.1	Simulations of Turbulent Flows With Strong Shocks and Density Variations	0
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-91ER40662 01/14/2013 Cousins	SC-25	Experimental and Theoretical High Energy Physics	2,273
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-92ER40693 10/31/2012 Rosenzweig, Pellegrini	SC-25	Theoretical and Experimental Studies in Accelerator Physics	915
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-92ER40695 04/30/2012 Cline	SC-25	Advanced Accelerator Physics Research at UCLA	382
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-92ER40727 05/31/2013 Joshi, Mori	SC-25	Experimental, Theoretical and Computational Studies of Plasma-Based Concepts for Future High Energy	1,340
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-88ER40424 01/31/2015 Huang	SC-26.1	UCLA Relativistic Heavy Ion Physics	1,219

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FC02-07ER41500 08/31/2012 Mori	SC-25	Community Petascale Project for Accelerator Science and Simulation	203
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-99ER54527 02/29/2012 Peebles	SC-24.2	Cross-Cutting Research Studies on the National Spherical Torus Experiment	330
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-86ER52123 11/30/2013 Abdou	SC-24.2	Predictive Capabilities, Analysis and Experiments for Fusion Plasma Chamber Systems Research	2,090
LIFORNIA, UNIV. OF LOS ANGELES 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	439
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FC02-07ER54918 03/31/2013 Gekelman	SC-24.2	Basic Plasma Science Facility	1,900
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-06ER54906 07/31/2012 Niemann	SC-24.2	Laser-Driven Collisionless Shocks in the Large Plasma Device	160
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-09ER55061 08/14/2012 Vincena	SC-24.2	Axial Plasma Jets and Their Interaction with and Production of Alfvén Waves	120
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-09ER64824 08/31/2013 Phelps	SC-23.2	Microfluidic Technology Platforms for Synthesizing, Labeling and Measuring the Kinetics of Transport and Biochemical Reactions, for Developing Molecular...	1,199
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-09ER64899 09/14/2014 Li	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	100
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-08ER64689 08/31/2012 Gunsalus	SC-23.2	Novel Hydrogen Production Systems Operative at Thermodynamic Extremes	0
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-08ER54984 12/31/2012 Rhodes	SC-24.2	Integrated System for Measurement of Multi-Scale Turbulence, Zonal Flows, and Particle Flux	440
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FC02-02ER63421 12/31/2014 Eisenberg	SC-23.2	UCLA-DOE Institute for Genomics and Proteomics	2,000
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-10ER55082 07/14/2013 Morales	SC-24.2	Basic Studies of Non-Diffusive Transport in Plasmas	100
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-11ER55094 07/14/2016 Niemann	SC-24.2	High-Average Power Laser Experiments at the Large Plasma Device	150
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-06ER64249 09/14/2012 Phelps	SC-23.2	Institute for Molecular Medicine Research Program	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-01ER54615 12/31/2012 Brower	SC-24.2	Development of Advanced Magnetic and Electron Current Density Diagnostics	694
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-09ER46580 07/31/2014 Ozolins	SC-22.21	Molecularly Assembled Material Architectures for Solar Energy Production, Storage, and Carbon Capture -- EFRC	2,150
LIFORNIA, UNIV. OF LOS ANGELES Los Angeles, CA	DE-FG02-09ER46658 09/14/2012 Chang	SC-22.23	SISGR - Metal Oxide Core Shell Nanostructures as Building Blocks for Efficient Light Emission	176
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-10ER65102 09/14/2013 O'Day	SC-23.1	Molecular Mechanisms and Kinetics of Microbial, Anaerobic, Nitrate-Dependent U(IV) and Fe(II) Oxidation	260
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-11ER65282 09/14/2012 Campbell	SC-23.1	Quantifying Carbon-Climate Processes at the Regional Scale Using Atmospheric Carbonyl Sulfide	149
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-11ER65369 09/14/2014 O'Day	SC-23.1	Uranium and Strontium Fate in Waste-Weathered Sediments: Scaling of Molecular Processes to Predict Reactive	70
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-04ER15502 06/30/2012 Kelley	SC-22.13	Exciton Transport and Charge Separation in Quantum Dot Arrays	75
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-08ER64614 08/14/2012 O'Day	SC-23.1	Release of Aged Contaminants from Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive	0
CALIFORNIA, UNIV. OF MERCED Merced, CA	DE-FG02-07ER64457 07/31/2012 Kueppers	SC-23.1	Subalpine and Alpine Species Range Shifts with Climate Change: Temperature & Soil Moisture Manipulations to Test Species & Population Responses	683
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER46631 09/14/2012 Feng	SC-22.23	Low-Density and High Porosity Hydrogen Storage Materials Built from Ultra-Light Elements	252
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER46599 08/14/2012 Zaera	SC-22.23	Atomic Layer Deposition (ALD) of Metal and Metal Oxide Films: A Surface Science Study	186
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-08ER46520 07/31/2014 Liu	SC-22.22	Study of P-Type ZnO and MgZnO Thin Films for Solid State Lighting	120
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-06ER46296 07/14/2013 Wu	SC-22.22	Density Functional Theory for Phase-Ordering Transactions	140
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER46351 11/14/2014 Shi	SC-22.22	Study of Materials and Interface Properties for High-Efficiency Spin Injection	130
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46131 04/14/2013 Mohideen	SC-22.22	Investigating the Role of Ferromagnetic Materials in the Casimir Force	150

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER46138 04/14/2013 Haddon	SC-22.23	Solid State Electronic Structure and Properties of Neutral Carbon-Based Radicals	242
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41465 05/31/2013 Hanson	SC-25	High Energy Physics Research with the CMS Experiment at CERN	248
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-07ER41487 08/14/2012 Hanson	SC-25	Neutrino Factory & Muon Collider Fellow	0
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER41325 06/30/2013 Barish	SC-26.1	SPIN PHYSICS WITH PHENIX AT RHIC	254
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-94ER40837 04/30/2012 Wimpenny, Ma, Gary	SC-25	High Energy Physics	1,167
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-86ER40271 12/31/2014 Seto, Barish	SC-26.1	Quantifying the Strongly Interacting Quark Gluon Plasma - Heavy Ion Collisions at RHIC	430
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-10ER16191 08/31/2013 Debus	SC-22.13	FTIR Studies of Photosynthetic Oxygen Production	159
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER16069 09/14/2012 Bertrand	SC-22.12	Transition-Metal-Catalyzed hydroamination of Non-Activated Carbon-Carbon Multiple Bonds with Ammonia	155
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-09ER16096 09/14/2012 Zaera	SC-22.12	SISGR - Design and Characterization of Novel Photocatalysts With Core-Shell Nanostructures	380
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-02ER15295 07/14/2014 Raikhel	SC-22.13	Trafficking to the Vacuoles in Plants	185
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-05ER15660 05/14/2014 Bocian	SC-22.13	Fundamental Studies of Energy- and Hole/Electron- Transfer in Hydroporphyrin Architectures	200
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-04ER15555 07/14/2012 Yang	SC-22.13	ROP GTPase Signaling in the Hormonal Regulation of Plant Growth	0
CALIFORNIA, UNIV. OF RIVERSIDE Riverside, CA	DE-FG02-11ER65186 08/31/2014 Ziemann	SC-23.1	Quantifying the Relationship Between Organic Aerosol Composition and Hygroscopicity / CCN Activity	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-06ER25760 12/14/2012 Snavelly	SC-21.1	Collaborative Research: Performance Engineering Research Center	285
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-11ER16232 07/14/2016 Galperin	SC-22.11	Many-body Effects in Transport and Energy Transfer	152

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER16013 04/30/2012 Fox	SC-22.13	Nanoscaled Components for Improved Efficiency in a Multipanel Photocatalytic Water-Splitting Device	165
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER16007 06/14/2014 Estelle	SC-22.13	Function of the Arabidopsis T1R1/AFB Auxin Receptors in Growth and Development	195
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER16126 12/31/2012 Weare	SC-22.12	Development and Application of Next Generation Parameter Free Petascale Simulation Technology for Solution Species, Nanoparticles, and Geochemical	155
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-98ER14879 10/31/2013 Continetti	SC-22.11	Dynamics and Energetics of Elementary Combustion Reactions and Transient Species	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER15449 09/14/2012 Schroeder	SC-22.13	Molecular and Genetic Basis of Sodium/Potassium Transport and Distribution in Plants	177
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-90ER40546 06/30/2013 Kuti, Branson, Sharma, Griest	SC-25	Elementary Particle Physics	1,926
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-11ER26049 08/31/2016 Carrington	SC-21.1	The Institute for Sustained Performance, Energy, and Resilience (SUPER)	215
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER25815 08/31/2013 Tartakovsky	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in	100
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER25930 01/14/2013 Baden	SC-21.1	Automatic Transformation of MPI Programs to Asynchronous, Graph Driven Form	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER25944 09/14/2012 Abarbanel	SC-21.1	Parameter Estimation and Model Validation of Nonlinear Dynamical Networks	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-10ER25993 08/31/2013 Snively	SC-21.1	Thrifty: An Exascale Architecture for Energy Proportional Computing	322
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER46672 09/14/2012 Meng	SC-22.21	New In Situ Analytical Electron Microscopy for Understanding Structure Evolution and Composition	157
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46677 12/31/2012 Tezcan	SC-22.23	Inorganic Control of Biological Self-Assembly: Engineering Novel Biological Architectures and Redox-Active Protein Assemblies	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46680 01/31/2013 Sinha, Fullerton	SC-22.21	Neutron and X-Ray Studies of Spin and Change Manipulation in Magnetic Nanostructures	320
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER46603 07/31/2012 Shpyrko	SC-22.21	Nanoscale X-Ray Imaging and Dynamics of Electronic and Magnetic Materials	170

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER46750 08/31/2013 Cha	SC-22.23	Bio-Inspired Routes for Synthesizing Efficient Nanoscale Platinum Electrocatalysts	230
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER46449 05/14/2013 Butov	SC-22.22	Cold Exciton Gases in Semiconductor Heterostructures	165
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-08ER46519 07/31/2014 Cohen	SC-22.23	Tuning Sorption Properties of Metal-Organic Frameworks via Postsynthetic Covalent Modification	220
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER46204 05/31/2014 Di Ventura	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport and Dynamics in Nanoscale Systems	105
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER46105 11/30/2012 Maple	SC-22.22	Superconductivity and Magnetism in d- and f-Electron Materials	300
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-00ER45799 11/30/2014 Basov	SC-22.22	Electromagnetic Response of Correlated Electron Systems	135
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-87ER45332 06/30/2014 Schuller	SC-22.22	Nanostructured Materials: From Superlattices to Quantum Dots	175
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER41672 05/31/2015 Fuller	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-11ER46803 07/14/2016 Cha	SC-22.23	Rigid Biopolymer Nanocrystal Systems for Controlling Multicomponent Nanoparticle Assembly and Orientation in Thin Film	150
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER55080 07/14/2013 Surko	SC-24.2	New Plasma Tools for Physics with Low-Energy Antimatter	190
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER55038 08/14/2012 Beg	SC-24.2	Assessment of Proton Deflectometry for Exploding Wire Experiments	200
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54917 01/14/2013 Moyer	SC-24.2	DIII-D Edge Physics and Disruptions	918
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-07ER54908 01/14/2012 Krashennnikov	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	90
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-07ER54912 12/14/2012 Tynan	SC-24.2	UCSD PISCES Program: Plasma Boundary Science, Materials Interactions, and Collaborative Fusion Research	1,800
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER55025 07/14/2014 O'Neil	SC-24.2	Fundamental Processes in Plasmas	350

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-03ER54731 03/14/2012 Boedo, Moyer	SC-24.2	Edge Physics Studies on the NSTX Spherical Tokamaks	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54738 12/14/2013 Diamond	SC-24.2	Investigations in Anomalous Transport and Ignition Physics	639
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54739 01/14/2013 Krashennnikov	SC-24.2	Turbulence, Structures, and Macroscopic Transport in Edge, SOL, and Divertor Plasmas	277
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER54809 04/14/2014 Moyer	SC-24.2	Modeling Plasma Response to Non-Axisymmetric Magnetic Field Perturbations in Tokamak Boundaries	180
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54852 02/28/2012 Krashennnikov	SC-24.2	Basic Physical Processes Involving Dust in Fusion Plasmas	100
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-06ER54871 05/31/2012 Tynan	SC-24.2	Nonlinear Drift Turbulence-Zonal Flow Interactions in a Laboratory Plasma Device	249
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-04ER54757 12/31/2012 Najmabadi, Raffray, Tillack, Mau	SC-24.2	Advanced Design Program (ARIES)	1,096
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-11ER55097 07/31/2014 Bott	SC-24.2	An Investigation of the Effects of Magnetic Fields and Collisionality on Shock Formation in Radiatively Cooled	199
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FC02-11ER55104 08/31/2016 Holland	SC-24.2	CSPM: Center for the Study of Plasma Microturbulence	100
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-05ER64119 08/14/2012 McClellan	SC-23.1	Towards a Fine-Resolution Global Coupled Climate System for Prediction on Decadal/Centennial Scales	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64764 06/14/2012 Somerville	SC-23.1	Collaborative Research: Using ARM Observations and Advanced Statistical Techniques to Evaluate CAM3 Clouds for Development of Stochastic Cloud-Radiation	65
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65090 09/14/2013 Keeling	SC-23.1	Developing Model Constraints of Northern Extra-Tropical Carbon Cycling Based on Measurements of the Abundance and Isotopic	349
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-11ER65167 08/14/2016 Bertram	SC-23.1	In situ Measurements of Heterogeneous Reactions on Ambient Aerosol Particles: Impacts on Atmospheric Chemistry and Climate	247
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-11ER65179 08/31/2014 Kay	SC-23.2	Systems Level Regulation of Rhythmic Growth Rate and Biomass Accumulation in Grasses	749
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-10ER65029 08/14/2013 Palsson	SC-23.2	A Systems Biology Knowledgebase: Context for Content	464

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-11ER65294 09/14/2014 Russell	SC-23.1	Simulating the Artic Winter Longwave Indirect Effects: A New Parameterization for Frost Flower Aerosol Salt Emissions	157
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64736 04/30/2012 Zhang	SC-23.1	Improving Convection Parameterization Using ARM Observations and NCAR Community Atmosphere Model	177
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64777 07/31/2012 Russell	SC-23.1	High Latitude Climate Modeling: ARM Takes us Beyond Case Studies	144
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64844 08/14/2012 Russell	SC-23.1	Cloud-Aerosol Physics in Super-Parameterized Atmospheric Regional Climate Simulations (CAP-SPARCS)	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64846 08/14/2012 Cessi	SC-23.1	Warm Bias and Parameterization of Boundary Upwelling in Ocean Models	0
CALIFORNIA, UNIV. OF SAN DIEGO La Jolla, CA	DE-FG02-09ER64850 08/14/2012 Cerovecki	SC-23.1	North Pacific Mesoscale Coupled Air-Ocean Simulations Compared with Observations	0
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER64984 06/14/2013 Miller	SC-23.1	Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification	225
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-10ER64932 02/14/2013 Balmain	SC-23.2	A System Genetics Approach to Identify Low Dose Radiation-Induced Lymphoma Susceptibility	335
CALIFORNIA, UNIV. OF SAN FRAN San Francisco, CA	DE-FG02-11ER65195 09/14/2014 Miller	SC-23.1	Identifying Key Proteins in Hg Methylation Pathways of <i>Desulfovibrio</i> by Global Proteomics	128
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	675
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-87ER45331 02/28/2014 Israelachvili	SC-22.23	Relationships Between the Adhesion, Friction and Nano/Micro-Structure of Materials, Surfaces and Films	282
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-02ER46006 05/31/2013 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 12/31/2012 Stemmer	SC-22.21	Phonons and Electrons in Thin Complex Oxides	180
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-06ER46314 07/31/2013 Safinya	SC-22.23	Miniaturized Hybrid Materials Inspired by Nature	250
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER46524 08/31/2014 Balents	SC-22.22	Interplay of Electron Correlations and Spin-Orbit Coupling	90

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER46535 08/31/2014 Heeger	SC-22.23	Charge Recombination, Transport Dynamics, and Interfacial Effects in Organic Solar Cells	600
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-07ER46434 08/14/2013 Van de Walle	SC-22.22	Computational Studies of Hydrogen Interfaces with Storage Materials	140
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-09ER46659 09/14/2012 Nguyen	SC-22.23	SISGR - Mechanistic Studies of Charge Injection from Metallic Electrodes into Organic Semiconductors Mediated by Ionic Functionalities	300
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FC02-06ER41437 09/14/2012 Sugar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	30
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER41698 08/31/2012 Monreal	SC-25	Ultra-High-Resolution Time Projection Chambers withg Liquid Crystal Backplanes	15
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-91ER40618 03/31/2014 Richman	SC-25	UCSB High Energy User Group	2,362
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15467 09/14/2012 Scott	SC-22.12	Hierarchical Design of Supported Organometallic Catalysis for Hydrocarbon Transformations: Structures and Dynamics of Active Sites	643
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-03ER15441 12/14/2011 Wodtke	SC-22.11	Electronically non-adiabatic dynamics at the gas-solid interface	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-89ER14048 06/30/2014 McFarland	SC-22.12	Investigations of C-H Bond Activation and Doped Metal Oxide Catalysts	210
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-98ER14910 12/31/2011 Bazan	SC-22.12	Ring Walking/Oxidative Addition Reactions for the Controlled Synthesis of Conjugated Polymers	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER16081 11/30/2012 Seshadri	SC-22.12	Platinum-Group Metal (PGM) Substituted Complex Oxide Catalysts	156
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-10ER16131 01/31/2013 Boles	SC-22.12	Physiochemical Evidence of Faulting Processes and Modeling of Fluid Flow in Evolving Fault Systems in Southern	96
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-08ER15991 02/29/2012 Gibou	SC-22.12	Multiscale Investigation and Modeling of Flow Mechanisms Related to CO2 Sequestration in Geologic Formations	0
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-09ER16067 08/14/2012 Hayton	SC-22.12	Exploring the Redox and Oxo Substitution Chemistry of the Uranyl Ion: Implications for Separations and Environmental	120
FORNIA, UNIV. OF SANTA BARBARA Santa Barbara, CA	DE-FG02-04ER25621 06/30/2012 Petzold	SC-21.1	Multiscale Simulation Algorithms for Biochemical Systems	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-11ER65156 08/14/2015 Tulaczyk	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System	55
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-10ER26033 08/31/2013 Brandt	SC-21.1	Adding Data Management Services to Parallel File Systems	686
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-10ER26017 08/31/2013 Long	SC-21.1	Dynamic Non-hierarchical File Systems for Exscale Storage	985
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER41286 10/31/2012 Seiden	SC-25	Research in High Energy Physics	2,199
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FC02-06ER41438 09/14/2012 Woosley	SC-25	SciDAC: Computational Astrophysics Consortium: 3 Supernovae, Gamma Ray Bursts, and Nucleosynthesis	130
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-05ER46232 08/14/2012 Zhang	SC-22.21	Structure and Charge Carrier Dynamics at Interfaces in Nanocomposite Materials	150
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-06ER46319 08/31/2013 Shastry	SC-22.22	Theoretical Studies in Very Strongly Correlated Matter	230
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-11ER41764 08/31/2014 Bernstein	SC-25	Non-accelerator Physics - Research in High Energy Physics	60
ALIFORNIA, UNIV. OF SANTA CRUZ Santa Cruz, CA	DE-FG02-04ER63750 12/14/2012 Liu	SC-23.2	Artificial Retina Project: Wireless Link and Microelectronics	152
COMPX Del Mar, CA	DE-FC02-01ER54649 03/31/2016 Harvey	SC-24.2	Center for Simulation of Wave Plasma Interactions	60
COMPX Del Mar, CA	DE-FG02-11ER55088 07/31/2014 Harvey	SC-24.2	Collaboration with NSTX in Calculations of Radiofrequency and Neutral Beam Heating and Current Drive Sources	60
COMPX Del Mar, CA	DE-FC02-06ER54856 07/14/2012 Harvey	SC-24.2	Center for Simulation of Wave Interactions with MHD - SWIM	75
COMPX Del Mar, CA	DE-FG02-04ER54744 12/14/2012 Harvey	SC-24.2	Advanced Development of the CQL3D Fokker-Planck Code and GENRAY Ray Tracing Codes	118
DOHENY EYE INSTITUTE Los Angeles, CA	DE-FC02-04ER63735 04/30/2012 Humayun	SC-23.2	Artificial Retina: Bioelectronics Research Laboratory	1,100
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54977 02/14/2016 Waltz, Chu	SC-24.2	Gyroknetic Simulation of Energetic Particle Turbulence and Transport	200

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
GENERAL ATOMICS San Diego, CA	DE-FG02-97ER54402 05/14/2014 Lee	SC-24.2	Advancing Precollege Science and Mathematics Education	208
GENERAL ATOMICS San Diego, CA	DE-FC02-04ER54698 10/31/2013 Taylor, Stambaugh	SC-24.2	The DIII-D Fusion Research Program and Advanced Fusion Technology Research and Development	53,567
GENERAL ATOMICS San Diego, CA	DE-FG02-99ER54522 02/28/2014 La Haye	SC-24.2	National Spherical Torus Experiment: Collaborative Research on Configuration Optimization	300
GENERAL ATOMICS San Diego, CA	DE-FG02-95ER54309 01/14/2014 Chan	SC-24.2	Theory and Simulation of Fusion Plasmas	2,165
GENERAL ATOMICS San Diego, CA	DE-FC02-06ER54861 06/30/2012 Schissel	SC-24.2	SciDAC - Center for Simulation of Wave Interactions with MHD - General Atomics Support of ORNL Collaboration	133
GENERAL ATOMICS San Diego, CA	DE-FC02-06ER54873 03/31/2013 Snyder	SC-24.2	Edge Simulation Laboratory	179
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54952 03/31/2016 Choi	SC-24.2	SciDAC Center for Simulation of Wave-Plasma Interactions - GA	50
GENERAL ATOMICS San Diego, CA	DE-FG02-05ER54834 05/31/2012 Stephens	SC-24.2	Advanced Concept Exploration of Fast Ignition	1,549
GENERAL ATOMICS San Diego, CA	DE-FG02-09ER55035 08/14/2012 Stephens	SC-24.2	Ion-Fast Ignition - Establishing a Scientific Basis for Inertial Fusion Energy	306
GENERAL ATOMICS San Diego, CA	DE-FC02-08ER54963 02/14/2016 Candy	SC-24.2	Center for the Study of Plasma Microturbulence	230
LOGICAL SURVEY, US, MENLO PARK Menlo Park, CA	DE-AI02-10ER65007 06/30/2013 Curtis, Davis	SC-23.1	Upscaling of U(VI) Desorption and Transport from Decimeter-Scale Heterogeneity to Plume-Scale Modeling	319
LOGICAL SURVEY, US, MENLO PARK Menlo Park, CA	DE-AI02-09ER64743 07/31/2013 Curtis	SC-23.1	Multi-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	168
HEWLETT-PACKARD COMPANY Palo Alto, CA	DE-FC02-10ER25988 08/31/2013 Schreiber	SC-21.1	Blackcomb: Hardware-Software Co-Design for Non-Volatile Memory in Exascale Systems	1,302
HINTON ASSOCIATES Escondido, CA	DE-FC02-07ER54922 02/14/2012 Hinton	SC-24.2	SciDAC - Center for Plasma Edge Simulation - Hinton Associates Support of NYU Collaboration	66
IETY FOR COMPUTATIONAL BIOLOGY La Jolla,, CA	DE-FG02-06ER64270 06/30/2012 Rost	SC-23.2	ISMB 2009-2011 Conference Travel Support for Students and Young Scientists	35

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
LOMA LINDA UNIVERSITY Loma Linda, CA	DE-FG02-09ER64787 08/31/2012 Nelson	SC-23.2	Low Dose Ionizing Radiation Modulates Immune Function	477
MONTEREY BAY AQUARIUM RES INST Moss Landing, CA	DE-FG02-10ER64993 06/30/2013 Worden	SC-23.2	Connecting Genomes to Physiology and Response in Marine Photosynthetic Eukaryotes: Systems Biology of the Green Alga <i>Micromonas</i>	698
NASA - AMES RESEARCH CENTER Moffett Field, CA	DE-AI02-11ER65206 08/31/2014 Jensen	SC-23.1	Using Statistical Comparisons between SPARTICUS Cirrus Microphysical Measurements, Detailed Cloud Models, and	172
NASA - AMES RESEARCH CENTER Moffett Field, CA	DE-AI02-11ER65138 03/31/2014 Bebout	SC-23.2	A Systems Biology Approach to Energy Flow in H ₂ Producing Microbial Communities: Hypersaline Cyanobacterial Mats	250
NASA - AMES RESEARCH CENTER Moffett Field, CA	DE-AI02-09ER64784 06/30/2012 Globus	SC-23.2	Oxidative Stress and Skeletal Health with Low Dose, Low LET Ionizing Radiation	521
THE, NAVAL POSTGRADUATE SCHOOL Monterey, CA	DE-AI02-11ER65155 05/14/2015 Maslowski	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System Model (RASM)	264
THE, NAVAL POSTGRADUATE SCHOOL Monterey, CA	DE-AI02-11ER65367 09/14/2014 Maslowski	SC-23.1	Collaborative Project: Understanding the Effects of Tides and Eddies on the Ocean Dynamics, Sea Ice Cover and	243
OCCIDENTAL COLLEGE Los Angeles, CA	DE-FG02-06ER54882 07/14/2013 Eggleston	SC-24.2	Studies of Particle Transport in a Non-Plasma Trap	65
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-04ER15540 05/14/2014 Chory	SC-22.13	Signal Transduction Pathways that Regulate CAB Gene Expression	195
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-04ER15517 02/14/2014 Ecker	SC-22.13	Analysis of Ethylene-Regulated Growth Networks in Arabidopsis	200
SALK INST. FOR BIOL. STUDIES La Jolla, CA	DE-FG02-11ER65177 08/31/2014 Ecker	SC-23.2	Next Generation Interactomes for Plant Systems Biology and Biomass Feedstocks Research	740
GO STATE UNIVERSITY FOUNDATION San Diego, CA	DE-FG02-10ER65089 09/14/2013 Oechel	SC-23.1	Seasonal and Inter-Annual Controls on CO ₂ Flux in Arctic Alaska	121
GO STATE UNIVERSITY FOUNDATION San Diego, CA	DE-FG02-03ER41272 05/31/2012 Johnson	SC-26.1	Mean-Field and Moment Methods Applied to Nuclear Structure and Reactions	78
GO STATE UNIVERSITY FOUNDATION San Diego, CA	DE-FC02-09ER41587 06/30/2012 Johnson	SC-26.1	Building a Universal Nuclear Energy Density Functional	55
GO STATE UNIVERSITY FOUNDATION San Diego, CA	DE-FG02-09ER64765 06/14/2012 Shen	SC-23.1	Using ARM Observations to Evaluate GCM Cloud Statistics for Development of Stochastic Cloud-Radiation	37

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SAN FRANCISCO STATE UNIVERSITY San Francisco, CA	DE-FG02-92ER40711 01/31/2014 Greensite	SC-25	Research in Theoretical High Energy Physics	140
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	110
SCRIPPS RESEARCH INSTITUTE La Jolla, CA	DE-FG02-03ER46051 06/30/2013 Schultz	SC-22.23	Biopolymers Containing Unnatural Building Blocks	500
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-06ER64322 03/14/2012 Pohost	SC-23.2	Development of Advanced Surgical Robotics "DARS"	0
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-11ER46826 08/31/2014 Brutchey	SC-22.23	Mitigating Breakdown in High Energy Density Perovskite Polymer Nanocomposite Capacitors	150
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-07ER46376 05/31/2013 Cronin	SC-22.22	Energy Transport in Graphene	142
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER46240 08/31/2014 Haas	SC-22.22	Quantum Quench Dynamics-Crossover Phenomena in Non-Equilibrium Correlated Quantum Systems	91
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-04ER46130 04/14/2013 Vashishta	SC-22.22	Thermomechanical Properties of Thin Films and Membranes of Functionalized Nanocrystals and Nanowire Arrays:	180
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25765 12/14/2012 Lucas	SC-21.1	Performance Engineering Research Center (PERC-3)	325
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER16132 01/31/2013 Sahimi	SC-22.12	Nanoporous Membranes for Hydrogen Production: Experimental Studies and Molecular Simulation	292
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-10ER16145 04/30/2013 Wittig	SC-22.11	Detailed Studies of Hydrocarbon Radicals: C2H Dissociation Dynamics	142
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15629 12/31/2014 Reisler	SC-22.11	Photoinitiated Reactions of Radicals and Diradicals in Molecular Beams	135
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-05ER15685 12/14/2014 Krylov	SC-22.11	Theoretical Modeling of Spin-Forbidden Channels in Combustion Reactions	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-92ER40745 11/14/2013 Muggli	SC-25	Program for Plasma-Based Concepts for Future High Energy Accelerators	464
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-11ER26051 08/31/2016 Ghanem	SC-21.1	Quantifications of Uncertainty in Extreme Scale Computations (QUEST) ScidAC Lead: Sandia National Laboratory	150

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-84ER40168 02/28/2014 Warner, Bars	SC-25	Theoretical Particle Physics	355
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25939 09/14/2012 Hochstein	SC-21.1	Software Construction and Composition Tools for Petascale Computing	95
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FC02-06ER25788 09/14/2012 Vashishta	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	295
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-08ER25834 09/14/2012 Chame	SC-21.1	Compiler-Directed Automatic Performance Tuning (TUNE)	100
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25900 07/31/2012 Lehman	SC-21.1	Virtualized Network Control (VNC) Project	351
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-09ER25890 06/14/2012 Ghanem	SC-21.1	Mathematical and Computational Tools for Predictive Simulation of Complex Coupled Systems Under Uncertainty	199
SOUTHERN CALIFORNIA, UNIV. OF Los Angeles, CA	DE-FG02-11ER65303 09/14/2013 Gorby	SC-23.1	Bacterial Nanowires and Extracellular Electron Transfer to Heavy Metals and Radionuclides by Bacterial Isolates from	333
SOUTHERN CALIFORNIA, UNIV. OF Marina del Rey, CA	DE-FC02-11ER26056 08/31/2016 Lucas	SC-21.1	Institute for Sustained Performance, Energy and Resiliency	367
SRI INTERNATIONAL Menlo Park, CA	DE-FG02-10ER65032 08/14/2013 Karp	SC-23.2	Curation and Computational Design of Bioenergy-related Metabolic Pathways (SRI Proposal ECU 10-602)	455
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER65042 07/31/2013 Weyant	SC-23.1	Research in Integrated Assessment Inter-Model Development, Testing and Diagnostics	970
STANFORD UNIVERSITY Stanford, CA	DE-FG02-11ER65196 08/31/2014 Fendorf	SC-23.1	Subsurface Conditions Controlling Uranium Incorporation in Iron Oxides: A Redox Stable Sink	250
STANFORD UNIVERSITY Stanford, CA	DE-FG02-11ER65228 09/14/2014 Criddle	SC-23.1	Long-Term Sequestration of Uranium in Iron-Rich Sediment	330
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER41295 03/31/2013 Cabrera, Gratta	SC-25	Stanford Non-Accelerator High Energy Physics Program	1,285
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER41276 07/31/2013 Byer	SC-25	Development of High-Gradient Extended Dielectric Based Laser-Driven Particle Accelerator Structures	316
STANFORD UNIVERSITY Stanford, CA	DE-FC02-06ER25787 06/30/2012 Lele	SC-21.1	Simulations of Turbulent Flows With Strong Shocks	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER25917 09/14/2012 Saunders	SC-21.1	Numerical Optimization Techniques for Systems Biology	493
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER15892 06/30/2014 Moerner	SC-22.13	Conformational and Chemical Dynamics of Single Proteins in Solution by Suppression of Brownian Motion	254
STANFORD UNIVERSITY Stanford, CA	DE-FG02-11ER26061 08/31/2014 Darve	SC-21.1	Modeling Rare Events in High Dimensional Stochastic Systems	143
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER26028 08/31/2013 Iaccarino	SC-21.1	A High-Performance Embedded Hybrid Methodology for Uncertainty Quantification With Applications	159
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER26026 08/31/2013 Alonso	SC-21.1	Large-Scale Uncertainty and Error Analysis for Time-Dependent Fluid/Structure Interactions in Wind Turbine Applications	213
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15454 07/31/2013 Borja	SC-22.12	Mechanisms of Pore Collapse in High-Porosity Rocks	140
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER15588 05/31/2014 Pollard, Aydin	SC-22.12	Structural Heterogeneities and Paleo Fluid Flow in An Analog Sandstone Reservoir	286
STANFORD UNIVERSITY Stanford, CA	DE-FG02-03ER15423 06/30/2013 Nur	SC-22.12	Porous Rock with Fluid: Impact of Heterogeneity and Scale on Relations between Rock Properties	241
STANFORD UNIVERSITY Stanford, CA	DE-FG02-84ER13251 01/14/2014 Fayer	SC-22.11	Confinement, Interfaces, and Ions: Dynamics and Interactions in Water, Proton Transfer, and Room Temperature Ionic Liquid Systems	280
STANFORD UNIVERSITY Stanford, CA	DE-FG02-88ER13857 02/28/2015 Hanson, Bowman	SC-22.11	Spectroscopy and Kinetics of Combustion Gases at High Temperatures	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER16198 09/14/2013 Waymouth	SC-22.12	Enabling Catalytic Strategies for Biomass Conversion	160
STANFORD UNIVERSITY Stanford, CA	DE-FG02-06ER25726 03/31/2014 Durlafsky	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	96
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46391 03/31/2013 Dauskardt	SC-22.22	Molecular-Reinforced Hybrid Glass Films with Superior Thermo-Mechanical Properties	200
STANFORD UNIVERSITY Stanford, CA	DE-FG02-04ER46163 07/31/2014 Nix	SC-22.22	Mechanical Properties of Materials with Nanometer Scale Dimensions and Microstructures	170
STANFORD UNIVERSITY Stanford, CA	DE-FG02-10ER46731 04/30/2013 Bent	SC-22.23	Studies of Surface Reaction Mechanisms in Atomic Layer Deposition	200

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER46632 09/14/2012 Swartz	SC-22.23	Using In Vitro Maturation and Cell-Free Evolution to Understand (FeFe)hydrogenase Activation and Active Site Constraints	265
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER46579 07/31/2014 Prinz	SC-22.13	Center on Nanostructuring for Efficient Energy Conversion -- EFRCC	4,000
STANFORD UNIVERSITY Stanford, CA	DE-FG02-07ER46426 08/31/2013 Fan	SC-22.22	Nanophotonics Enhanced Solar Cells	270
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER55059 08/14/2012 Cappelli	SC-24.2	Plasma-Enhanced Combustion of Hydrocarbon Fuels and Fuel Blends Using Nanosecond Pulsed Discharges	140
STANFORD UNIVERSITY Stanford, CA	DE-FG02-95ER62051 06/14/2014 Weyant	SC-23.1	Summer Workshops on Climate Change Impacts and Integrated Assessment of Climate Change	180
STANFORD UNIVERSITY Stanford, CA	DE-FG02-08ER64552 04/30/2012 Spormann	SC-23.2	The Hopkins Microbiology Course	0
STANFORD UNIVERSITY Stanford, CA	DE-FG02-09ER64837 08/14/2012 Difffenbaugh	SC-23.1	Impacts of High Resolution Extreme Events on US Energy Demand and CO2 Emissions in the 21st Century	0
WHITTIER COLLEGE Whittier, CA	DE-FG02-09CH11570 08/31/2011 Borst	SC-23	Science and Mathematics Education Outreach by Whittier College for Elementary, Middle, and High School Students in Majority Hispanic Schools	0
Total for CA :				191,918

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
.S. DEPT. OF, ARS-FORT COLLINS Fort Collins, CO	DE-AI02-09ER64829 08/31/2012 Sarath	SC-23.2	The Hunt for Green Every April: Factors Affecting Fitness in Switchgrass	374
TURE, U.S. DEPT. OF, FS-GOLDEN Golden, CO	DE-AI02-11ER65199 08/31/2014 Hollinger	SC-23.1	Supporting Carbon Cycle and Earth Systems Modeling with Measurements and Analysis from the Howland AmeriFlux Site	349
ASPEN CENTER FOR PHYSICS Aspen, CO	DE-FG02-04ER41297 12/31/2011 Bhatt, Pinsky	SC-25	2009 Aspen Winter Conference on High Energy Physics	10
ASPEN GLOBAL CHANGE INSTITUTE Basalt, CO	DE-FG02-11ER65154 04/30/2012 Katzenberger	SC-23.1	Making Sense of the Multi-Model Decadal Prediction Experiments from CMIP5 Workshop, June 26 - July 1, 2011	20
CLIMATE CENTRAL Boulder, CO	DE-FG02-10ER65123 09/14/2013 Tebaldi	SC-23.1	Detection and Attribution: New Frontiers and Applications	147
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-09ER64745 04/30/2012 Rodriguez	SC-23.1	Multi-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	19
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER65008 06/30/2013 Rodriguez	SC-23.1	Upscaling of U(VI) Desorption and Transport from Decimeter-scale Heterogeneity to Plume-scale Modeling	126
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-11ER65314 09/14/2013 Sharp	SC-23.1	Coupled Biological and Micro-XAS/XRF Analysis of In Situ Uranium Biogeochemical Processes	149
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-07ER46397 07/14/2013 Reimanis	SC-22.22	Mechanical Behavior in Ceramics with Unusual Thermal-Mechanical Properties	120
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-11ER46792 07/14/2016 Wu	SC-22.22	Quantum Mechanical Simulations of Complex Nanostructures for Photovoltaic Applications	150
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-05ER46242 08/14/2014 Koh	SC-22.23	Energy Storage in Clathrate Hydrogen Material	170
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-08ER46659 08/31/2012 Revil	SC-23.1	Advanced Self-Potential Inversion: Development and Use for Investigating Natural Recharge Processes at the ORNL IFC	0
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-09ER16018 06/14/2012 Scales	SC-22.12	Characterization of Electrical and Mechanical Properties of Rocks at Sub-Millimeter Scales	155
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-93ER40789 03/31/2014 Greife	SC-26.1	Nuclear Structure and Astrophysics with Unstable Beams	276
COLORADO SCHOOL OF MINES Golden, CO	DE-FG02-10ER41704 09/30/2012 Greife	SC-26.2	Development of a High-Density Gas-Jet Target for Nuclear Astrophysics and Reaction Studies with Rare Isotope Beams	89

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-93ER40788 12/14/2013 Toki, Harton, Wilson	SC-25	Research in High Energy Physics	870
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER41255 06/30/2014 Fairbank	SC-25	New Technique for Barium Daughter Ion Identification in a Liquid Xe-136 Double Beta Decay Experiment	100
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER26031 08/31/2013 Estep	SC-21.1	Enabling Predictive Simulation and UQ of Complex Multiphysics PDE Systems by the Development of Goal-Oriented Variational Sensitivity Analysis and A-Posteriori	102
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER16193 09/14/2013 Chen	SC-22.12	Catalytic Conversion of Glucose and Cellulose into HMF: From a Fundamental Understanding to Discrete and Recyclable	150
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15591 10/31/2013 Elliott	SC-22.13	Transition Metal Polypyridine Complexes: Studies of Mediation in Dye-Sensitized Solar Cells and Charge Separation in Molecular Assemblies	197
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-04ER15592 12/31/2013 Rocca	SC-22.11	Generation of Bright Soft X-ray Laser Beams	145
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-03ER15453 10/31/2012 Finke	SC-22.12	Supported Nanocluster Catalyst Formation Kinetic and Mechanistic Fundamental Studies	163
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-96ER14647 10/31/2014 Lundeen	SC-22.11	Properties of Actinide Ions from Measurements of Rydberg Ion Fine Structure	130
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-08ER64629 08/14/2014 Leach	SC-23.2	An Integrated Approach to Improving Plant Biomass Production	900
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER64350 01/14/2013 Bedford	SC-23.2	Genetic Factors Affecting Susceptibility to Low Dose and Dose Rate Irradiation	346
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FC02-07ER54909 08/14/2013 Estep	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	90
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-07ER64648 08/14/2014 Wang	SC-22.23	Directed Assembly of Rod-Coil Block Copolymers by Combined External Fields	150
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-11ER65285 09/14/2014 Rutledge	SC-23.1	Use of DOE SGP Radars in Support of ASR Modeling Activities	165
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-10ER64987 09/14/2012 Troxell	SC-23.2	Smart Grid Simulation Laboratory	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64774 06/14/2012 Randall	SC-23.1	Challenges for Cumulus Parameterization in a Model with O(20 to 50)km Grid Spacing	154

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64863 08/14/2012 Estep	SC-23.1	Collaborative Proposal: Transforming How Climate System Models are Used: A Global, Multi-Resolution Approach	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-09ER64772 06/30/2012 Prenni	SC-23.1	Ice Nuclei Relation to Aerosol Properties in Mixed-Phase Clouds: Data Analysis and Model Parameterization	0
COLORADO STATE UNIVERSITY Fort Collins, CO	DE-FG02-11ER65356 09/14/2014 Randall	SC-23.1	Collaborative Project: A Flexible Atmospheric Modeling Framework for the CESM	165
UNIV. OF DENVER HEALTH SC CTR Aurora, CO	DE-FG02-11ER65310 09/14/2013 Mays	SC-23.1	Linking Deposit Morphology and Clogging in Subsurface Remediation	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65348 09/14/2014 Tufo	SC-23.1	A Petascale Non-Hydrostatic Atmospheric Dynamical Core in the HOMME Framework	513
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65077 09/14/2013 Monson	SC-23.1	Carbon Cycling Dynamics in Response to Pine Beetle Infection and Climate Variation	341
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER65049 08/31/2012 Barnes	SC-23.2	Smart Grid Communication Security Project	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65171 07/31/2014 Shupe	SC-23.1	Investigations of Mixed-Phase Cloud Microphysical, Radiative, and Dynamical Processes	176
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65157 05/14/2015 Cassano	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System	154
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65150 04/14/2014 Jimenez	SC-23.1	COLLABORATIVE RESEARCH: Study of Aerosol Sources and Processing at the GVAX Pantnagar Supersite	170
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65151 04/14/2014 Volkamer	SC-23.1	COLLABORATIVE RESEARCH: Study of Aerosol Sources and Processing at the GVAX Pantnagar Supersite	100
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65243 09/14/2014 Compo	SC-23.1	Collaborative Research: Developing and Implementing Ocean-Atmosphere Reanalyses for Climate Applications (OARCA)	292
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65216 08/31/2014 Sardeshmukh	SC-23.1	New Approaches for Understanding the Statistics of Daily Weather Extremes in a Changing Climate	295
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65220 09/14/2014 Barnard	SC-23.1	Carbon-Water Cycling in the Critical Zone: Understanding Ecosystem Process Variability Across Complex Terrain	220
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER65227 09/14/2014 Williams	SC-23.1	Vertical Air Motions Over the Tropical Western Pacific for Validating Cloud Resolving and Regional Models	67

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER46489 06/30/2013 Feldheim, Eaton	SC-22.23	RNA Mediated Evolution of Catalysts for the Production of Alternative Fuels	250
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER46403 04/30/2013 Raj	SC-22.22	The Coupling Between Interfacial Charge and Mechanical Deformation at High Temperatures in Ceramics	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER46652 09/14/2012 Murnane	SC-22.21	SISGR: Ultrafast Magnetism Dynamics Measure Using Tabletop Ultrafast EUV Sources	259
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER46066 03/31/2013 Dessau	SC-22.22	Dynamics of Electronic Interactions in Superconductors and Related Materials	220
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER41762 08/31/2012 Wagner	SC-25	Mosaic Diamond Detector Research	112
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER54954 01/31/2014 Parker	SC-24.2	Gyrokinetic Turbulence Simulation of Turbulent Transport	175
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER54846 01/14/2012 Parker	SC-24.2	SciDAC - Center for Plasma Edge Simulation	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER54735 12/31/2012 Cary	SC-24.2	Analysis and Direct Numerical Simulation of RF Heating Processes and Advanced Computational Methods for Fusion	110
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER46797 07/14/2016 Lee	SC-22.22	Transport Studies of Quantum Magnetism: Physics and Methods	153
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER46825 08/14/2014 Reznik	SC-22.21	Neutron and X-Ray Scattering Investigation of Electron-Phonon Effects in Cuprate Superconductors and Related Compounds	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER64462 08/14/2012 Cassano	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a High-Resolution Regional Climate	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-11ER55103 08/31/2016 Chen	SC-24.2	Center for Nonlinear Simulation of Energetic Particles in Burning Plasmas	145
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER54995 06/14/2014 Munsat	SC-24.2	Assessment of Edge Turbulence and Convective Transport Through Velocity Field Analysis	60
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-08ER54971 02/14/2016 Parker	SC-24.2	Center for Extended Magnetohydrodynamics	52
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64661 02/28/2013 Rajaram	SC-23.1	Scale-Dependent Fracture-Matrix Interactions and their Impact on Radionuclide Transport	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER64539 04/30/2012 Ervens	SC-23.1	A Study of Cloud Processing of Organic Aerosols Using Models and CHAPS Data	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER64894 09/14/2012 Ryan	SC-23.1	Mercury Release from Natural Organic Matter (NOM), Minerals and NOM-Coated Mineral Surfaces	107
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-94ER14413 04/30/2012 Greene	SC-22.11	Physics of Correlated Systems	145
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14982 11/14/2014 Kapteyn, Murnane	SC-22.11	Molecular Dynamics Probed by Coherent Soft X-rays	170
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-99ER14990 12/31/2011 Holland	SC-22.11	Novel Light Sources Based on Ultracold Atoms in Collective Optical Cavity Systems	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-05ER15711 03/31/2015 Ye	SC-22.11	Cold and ultracold polar molecules--Dipolar Collisions and Anisotropic Quantum Gas	135
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-93ER14364 10/31/2011 Ellison	SC-22.11	Interfacial Oxidation of Complex Organic Molecules	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER15613 11/14/2013 Bohn	SC-22.11	Reactive Scattering of Ultracold Molecules	68
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-02ER15346 11/30/2014 Cundiff	SC-22.11	Optical Two-dimensional Spectroscopy of Disordered Semiconductor Quantum Wells and Quantum Dots	120
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16091 09/14/2012 Schwartz	SC-22.12	SISGR: Mapping Non-Covalent Surface Functionality Using Single-Molecule Probes	220
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16103 09/14/2012 Becker	SC-22.11	SISGR: Coherent Control of Electron Dynamics	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER16021 06/14/2012 Nesbitt	SC-22.11	Spectroscopy, Kinetics, and Dynamics of Combustion Radicals	149
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-08ER15959 06/14/2014 Michl	SC-22.12	Imaging of Conformational Changes	245
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER25574 05/14/2013 Manteuffel	SC-21.1	First-Order System Least Squares, (FOSLS), for Nonlinear Systems Arising from DOE Applications	253
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER16241 06/30/2012 Nesbitt	SC-22.11	The 2011 Dynamics of Molecular Collisions Meeting: July 10-15, 2011, Snowbird, Utah	10

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER16256 08/14/2014 Michl	SC-22.13	Singlet Fission	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER16233 07/14/2016 Templeton	SC-22.12	Defining Fe and H Speciation During Olivine Carbonation Under Highly Reducing Conditions	159
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-10ER16206 08/31/2013 Medlin	SC-22.12	Selectivity Control Through Modification of Metal Catalysts with Organic Monolayers	334
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-11ER26043 08/14/2016 Doostan	SC-21.1	An Enabling Computational Framework for Uncertainty Assimilation and Propagation in Complex PDE Systems: Sparse and	150
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15912 08/31/2013 Jonas	SC-22.13	Study of Multiple Exciton Generation with New Multi-Dimensional Spectroscopies	200
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-07ER15890 10/14/2011 Damrauer	SC-22.13	Applications to Adaptive Quantum Control to Research Questions in Solar Energy Conversion	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-09ER25887 08/31/2012 Cai	SC-21.1	Scalable Optimization Algorithms for Systems Governed by Multi-Physics PDEs	256
COLORADO, UNIVERSITY OF Boulder, CO	DE-FC02-06ER25784 09/14/2012 Cai, McCormick	SC-21.1	Towards Optimal Petascale Simulations (TOFS)	0
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-03ER41244 02/28/2015 Nagle	SC-26.1	Experimental Relativistic Heavy Ion Physics at the University of Colorado at Boulder	254
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41290 11/30/2012 Ford	SC-25	Elementary Particles and High Energy Phenomena, Tasks A, B, C, & T	1,611
COLORADO, UNIVERSITY OF Boulder, CO	DE-FG02-04ER41317 05/31/2013 Cary	SC-25	Chaotic Dynamics and Advanced Computation for Beams and Accelerators	247
FRONT RANGE SCIENTIFIC COMP. Denver, CO	DE-FG02-07ER25814 02/28/2015 Henson	SC-21.1	Funding Proposal to Support the Annual Copper Mountain Conferences on Multigrid and Iterative Methods, Copper Mountain,	12
EOLOGICAL SURVEY, US, LAKEWOOD Lakewood, CO	DE-AI02-09ER64892 09/14/2012 Aiken	SC-23.1	Mercury Release from Organic Matter (OM) and OM-Coated Mineral Surfaces	29
LODESTAR RESEARCH CORP Boulder, CO	DE-FC02-05ER54823 03/31/2016 D'ippolito	SC-24.2	Center for Simulation of Wave Plasma Interactions	75
LODESTAR RESEARCH CORP Boulder, CO	DE-FG02-02ER54678 08/14/2014 Myra	SC-24.2	Edge and Scrape-Off-Layer Physics for NSTX	59

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
LODESTAR RESEARCH CORP Boulder, CO	DE-FG02-97ER54392 10/31/2014 D'Ippolito	SC-24.2	Theoretical Research in Magnetic Energy Science	597
OF STANDARDS & TECH, BOULDER Boulder, CO	DE-AI02-09ER46671 09/14/2012 Silva	SC-22.21	SISGR: Ultrafast Magnetism Dynamics Measured Using Tabletop Ultrafast EUV	140
OF STANDARDS & TECH, BOULDER Boulder, CO	DE-AI02-10ER41701 09/14/2013 Goodrich	SC-25	Critical Current Metrology for Nb3Sn Conductor Development	53
OF STANDARDS & TECH, BOULDER Boulder, CO	DE-AI02-10ER41702 09/14/2013 Cheggour	SC-25	Electromechanical Properties of Superconductors for DOE/HEP Applications	131
ATMOS ADMIN, COMMERCE-BOULDER Boulder, CO	DE-AI02-10ER64936 02/28/2013 Feingold	SC-23.1	The Radiative Properties of Small Clouds: Multi-Scale Observation and Modeling	144
SPEC INC Boulder, CO	DE-FG02-10ER64933 09/30/2012 Lawson	SC-23.1	Synthesis of In Situ Microphysical Measurements with Remote Retrievals and Models	0
SPEC, INCORPORATED Boulder, CO	DE-FG02-11ER65207 08/31/2014 Lawson	SC-23.1	Using Statistical Comparisons Between SPARTICUS Cirrus Microphysical Measurements, Detailed Cloud Models, and	180
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER41499 08/31/2012 Cary	SC-25	SciDAC: Community Petascale Project for Accelerator Science and Simulation	403
TECH-X CORPORATION Boulder, CO	DE-FC02-08ER54972 02/14/2016 Kruger	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	68
TECH-X CORPORATION Boulder, CO	DE-FG02-11ER55101 08/14/2012 Pankin	SC-24.2	Investigation of ELM Dynamics with the Resonant Magnetic Perturbation Effects	74
TECH-X CORPORATION Boulder, CO	DE-FC02-06ER54875 06/30/2012 Kruger	SC-24.2	NIMROD Development and Applications for Advanced Simulations of Tokamak Plasmas	99
TECH-X CORPORATION Boulder, CO	DE-FC02-06ER54864 01/14/2013 Kruger	SC-24.2	Center for Simulation of Wave Plasma Interactions with Magnetohydrodynamics	149
TECH-X CORPORATION Boulder, CO	DE-FC02-08ER54953 03/31/2016 Smithe	SC-24.2	SciDAC Center for Simulation of Wave Plasma Interactions	85
TECH-X CORPORATION Boulder, CO	DE-FC02-07ER54907 01/14/2013 Cary	SC-24.2	Framework Application for Core-Edge Transport Simulations (FACETS)	699
TECH-X CORPORATION Boulder, CO	DE-FG02-09ER55006 02/14/2012 Smithe	SC-24.2	Non-Axisymmetric Modeling of RF in Tokamaks	95

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-97ER62402 12/31/2012 Washington	SC-23.1	DOE/UCAR Cooperative Agreement for the Climate Change Prediction Program	3,011
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FC02-07ER64340 12/14/2012 Gent, Collins	SC-23.1	A Scalable and Extensible Earth System Model for Climate Change Science	535
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64594 07/31/2012 Otto-Bliesner	SC-23.1	A Collaborative Proposal: Simulating and Understanding Abrupt Climate-Ecosystem Changes During Holocene With NCAR-CCSM3	0
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64574 06/14/2012 Grabowski	SC-23.1	Using Atmospheric Radiation Measurement (ARM) Observations to Validate and Improve Cloud Microphysical Schemes	0
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-08ER64575 06/14/2012 Dudhia	SC-23.1	Study of Multi-Scale Cloud Processes Over the Tropical Western Pacific Using Cloud Resolving Models Constrained by Satellite Data	0
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65140 03/14/2012 Hurrell	SC-23.1	The Interface Between Earth System Models and Impacts on Society Workshop, Spring 2011	8
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65163 07/14/2012 Hurrell	SC-23.1	2011 CESM Tutorial, August 1-5, 2011	35
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65164 08/14/2012 Sawyer	SC-23.1	WCRP Open Science Conference, October 23-29, 2011	80
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65165 08/14/2012 Sawyer	SC-23.1	Publication of Atlantic Meridional Overturning Circulation Special Issue of Deep Sea Research	10
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65182 08/14/2014 Smith	SC-23.1	Collaborative Project: Understanding the Chemical Processes That Affect Growth Rates of Freshly Nucleated Particles	257
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65172 08/31/2015 Park	SC-23.1	Collaborative Research: CRI-EaSM Multiscale Modeling Aerosol Indirect Effects on Decadal Timescales	143
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65240 09/14/2014 Gettelman	SC-23.1	Advancing Models and Evaluation of Cumulus, Climate and Aerosol Interactions	395
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65253 09/14/2014 Park	SC-23.1	Collaborative Research: Quantifying the Uncertainties of Aerosol Indirect Effects and Impacts on Decadal-Scale Climate Variability in NCAR CAM5 and CESM1	221
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65323 09/14/2014 Madronich	SC-23.1	Modeling the Explicit Chemistry of Anthropogenic and Biogenic Organic Aerosols	158
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65340 09/14/2014 Otto-Bliesner	SC-23.1	Collaborative Project: Development of an Isotope-Enabled CESM for Testing Abrupt Climate Changes	176

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65295 09/14/2014 Hodzic	SC-23.1	Evaluation of New and Proposed Organic Aerosol Sources and Mechanisms Using the Aerosol Modeling Testbed: MILAGRO, CARES,	178
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65276 09/14/2012 O'Neill	SC-23.1	Demographic Tools for Climate Change and Environmental Assessments: A U.S. Case Study	100
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65277 09/14/2014 Neale	SC-23.1	Collaborative Project: Sensitivity of Atmospheric Parametric Formulations to Regional Mesh Refinement in Global Climate	211
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65353 09/14/2014 Lamarque	SC-23.1	Chemistry in CESM-SE: Evaluation, Performance and Optimization	335
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65354 09/14/2014 Bacmeister	SC-23.1	Collaborative Project: Physics and Dynamics Coupling Across Scales in the Next Generation CESM: Meeting the	207
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65357 09/14/2014 Gettelman	SC-23.1	Collaborative Project: A Flexible Atmospheric Modeling Framework for the CESM	80
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65345 09/14/2014 Gochis	SC-23.1	Collaborative Project: Development of Hybrid 3-D Hydrological Modeling for the NCAR Community Earth System Model (CESM)	60
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65349 09/14/2014 Small	SC-23.1	Collaborative Project: Ocean-Atmosphere Interaction from Meso to Planetary Scale: Mechanisms, Parameterization and Variability	151
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65359 09/14/2014 Lindsay	SC-23.1	Collaborative Project: Improving CESM Efficiency to Study Variable C:N:P Stoichiometry in the Oceans	23
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65360 09/14/2014 Grabowski	SC-23.1	Multiscale Simulation of Moist Global Atmospheric Flows	200
ITY CORP. FOR ATMOSPHERIC RES. Boulder, CO	DE-FG02-11ER65361 09/14/2014 Bryan	SC-23.1	Collaborative Project: Improving the Representation of Coastal and Estuarine Processes in Earth System Models	158
Total for CO :				25,372

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CONNECTICUT STATE UNIVERSITY Hartford, CT	DE-FG02-10CH20007 06/30/2012 Bermudez	SC-23	Connecticut State University System Initiative for Nanotechnology-Related Equipment, Faculty Development and Curriculum Development	0
CONNECTICUT STATE UNIVERSITY Hartford, CT	DE-FG02-11ER65126 02/28/2013 Bermudez	SC-23.2	Connecticut State University System Initiative for Nanotechnology	80
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-11ER65363 09/14/2014 Whitney	SC-23.1	Collaborative Project: Improving the Representation of Coastal and Estuarine Processes in Earth System Models	120
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-00ER45801 12/31/2014 Wells	SC-22.22	Charge Inhomogeneity in Correlated Electron Systems	98
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46774 08/31/2013 Gokirmak	SC-22.22	Crystallization and Thermoelectric Transport in Silicon Microstructures and Nanostructures Under Extreme Electrical Stress	128
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER46766 04/14/2014 Huey	SC-22.21	Switching in Solid State Memories via Nucleation and Growth Mechanisms: Causes and Effects at the Nanometer and	140
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-09ER46562 03/31/2014 Huang	SC-22.23	Control of New Kinetic Barriers and Design of Nanorods	170
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-86ER13622 11/30/2012 Suib	SC-22.12	Synthesis of Porous Nano-size Catalysts for Activation of CO2 and Selective Oxidations	140
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER14263 03/31/2013 Gould	SC-22.11	Experiments in Ultracold Collisions and Ultracold Molecules	125
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-05ER15734 10/31/2014 Cote	SC-22.11	Formation of Ultracold Molecules	102
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-10ER16200 08/31/2013 Mustain	SC-22.12	Understanding the Effects of Surface Chemistry and Microstructure on the Activity and Stability of Pt Electrocatalysts on Non-Carbon Supports	160
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-95ER20203 07/14/2013 Reiter	SC-22.13	Regulation of Xyloglucan Galactosylation in Arabidopsis	310
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-94ER40870 04/14/2013 Gai	SC-26.1	Studies in Low Energy Nuclear Physics	177
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-92ER40716 11/30/2012 Dunne	SC-25	Investigations in Particle and Field Theory	265
CONNECTICUT, UNIVERSITY OF Storrs, CT	DE-FG02-04ER41309 04/14/2013 Joo	SC-26.1	Medium Energy Nuclear Physics Experiment at Jefferson Lab	250

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
FAIRFIELD UNIVERSITY Fairfield, CT	DE-FG02-11ER41760 08/31/2013 Winn	SC-25	Secondary Emission Sampling Calorimetry Sensor Development	59
L SURVEY, US, STORRS MANSFIELD Storrs Mansfield, CT	DE-AI02-09ER64835 08/31/2012 Day-Lewis	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	64
YALE UNIVERSITY New Haven, CT	DE-FG02-11ER65334 09/14/2014 Fedorov	SC-23.1	A Generalized Stability Analysis of the AMOC in Earth System Models: Implication for Decadal Variability and Abrupt Climate	123
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER15909 02/28/2014 Brudvig	SC-22.13	Oxomanganese Catalysts for Solar Fuel Production	580
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15834 09/14/2012 Schwarz	SC-22.11	Atomic Resolution Imaging and Quantification of Chemical Functionality of Surfaces	140
YALE UNIVERSITY New Haven, CT	DE-FG02-06ER15800 06/30/2012 Johnson	SC-22.11	Coordinating experiment and theory to understand how excess electrons are accomodated by water networks through model studies in the cluster regime	105
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40608 12/31/2012 Iachello, Alhassid	SC-26.1	Nuclear Theory	427
YALE UNIVERSITY New Haven, CT	DE-FG02-91ER40609 12/31/2012 Baker	SC-26.1	Nuclear Physics - Experimental Research	1,522
YALE UNIVERSITY New Haven, CT	DE-FG02-92ER40704 10/31/2013 Tipton, Sandweiss	SC-25	High Energy Physics Research, Tasks A, B, C, D, F, G, K and J	2,275
YALE UNIVERSITY New Haven, CT	DE-FG02-07ER41504 08/31/2013 Hirshfield	SC-25	Ka-Band Test Facility for High-Gradient Accelerator R&D	309
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER41685 12/31/2012 Harris	SC-26.1	Relativistic Heavy Ion Physics	1,161
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER20311 08/31/2013 Soll	SC-22.13	Engineering Selenoproteins for Enhanced Hydrogen Production	165
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15741 11/30/2012 Wettlaufer	SC-22.12	Freezing in Porous Media: Phase Behavior, Dynamics and Transport Phenomena	0
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15646 03/31/2012 Brudvig	SC-22.13	Carotenoid Function in Natural Photosynthetic Systems	159
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15677 12/31/2015 Tully	SC-22.11	The Role of Electronic Excitations on Chemical Reaction Dynamics at Metal, Semiconductor, and Nanoparticle Surfaces	175

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (CT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
YALE UNIVERSITY New Haven, CT	DE-FG02-05ER15714 01/31/2015 DeMille	SC-22.11	Production and Study of Ultracold Molecules	135
YALE UNIVERSITY New Haven, CT	DE-FG02-98ER14882 07/14/2014 Altman	SC-22.12	Structure-Reactivity Relationships in Multi-Component Transition Metal Oxide Catalysts	160
YALE UNIVERSITY New Haven, CT	DE-FG02-84ER13297 11/30/2014 Crabtree	SC-22.12	Moving to Sustainable Metals: Multifunctional Ligands in Catalytic, Outer Sphere C-H, N-H and O-H Activation	150
YALE UNIVERSITY New Haven, CT	DE-FG02-88ER13966 02/28/2015 Smooke, Long	SC-22.11	Computational and Experimental Study of Laminar Flames	102
YALE UNIVERSITY New Haven, CT	DE-FG02-01ER15183 10/31/2012 Haller	SC-22.12	Structured Carbon Supports for Aqueous Phase Reforming and Fuel Cell Catalysts	160
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER46705 05/31/2013 Mochrie	SC-22.21	Dynamics of Block Copolymer Nanocomposites	188
YALE UNIVERSITY New Haven, CT	DE-FG02-10ER46770 08/31/2013 Schroers	SC-22.22	Using Artificial Microstructures to Understand Microstructure Property Relationship-Toughening Mechanisms in Metallic Glass	110
YALE UNIVERSITY New Haven, CT	DE-FG02-09ER46596 08/14/2012 Han	SC-22.23	Science of Heteroepitaxy for Energy-Efficient Lighting	170
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER46482 12/31/2012 Glazman	SC-22.22	Electron Coherence and Interactions in Nanostructures	175
YALE UNIVERSITY New Haven, CT	DE-FG02-08ER46541 08/31/2014 DeMille	SC-22.22	Non-Equilibrium Dynamics of Many-Body Quantum Systems: Fundamentals and New Frontiers	92
YALE UNIVERSITY New Haven, CT	DE-FG02-11ER41737 07/14/2016 Demers	SC-25	Taus and the Trigger for Discovery at ATLAS	150
YALE UNIVERSITY New Haven, CT	DE-FG02-11ER41768 08/31/2012 Fleming	SC-26.1	Conference on the Intersections of Particle and Nuclear Physics, May 29 - June 3, 2012	10
YALE UNIVERSITY New Haven, CT	DE-FG02-04ER63892 12/14/2012 Smith	SC-23.1	Bridging the Divide: Linking Genomics to Ecosystem Responses to Climate Change	199
Total for CT :				11,330

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (DC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
RICAN SOCIETY FOR MICROBIOLOGY Washington, DC	DE-FG02-11ER65372 09/14/2012 Harwood	SC-23.2	4th ASM Conference on Cell-Cell Communication in Bacteria	10
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-07ER64427 06/30/2012 Grossman	SC-23.2	Filling Knowledge Gaps in Biological Networks: Integrated Global Approaches to Understand H2 Metabolism in Chlamydomonas Reinhardtii	0
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-99ER45775 01/31/2015 Mao	SC-22.21	HPCAT -- An Integrated High-Pressure Facility at the Advanced Photon Source	1,087
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-02ER45955 11/30/2013 Struzhkin	SC-22.21	Magnetic and Superconducting Materials at High Pressures	149
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-06ER46280 12/31/2012 Somayazulu	SC-22.21	Novel Molecular Materials for Hydrogen Storage Applications	277
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-09ER46574 07/31/2014 Mao	SC-22.22	Center for Energy Frontier Research in Extreme Environments (EFree) -- EFRFC	3,000
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-08ER15973 08/31/2013 Wang	SC-22.13	Proteomic Study of Brassinosteroid Responses in Arabidopsis	159
CARNEGIE INST OF WASHINGTON Washington, DC	DE-FG02-04ER15542 04/14/2014 Frommer	SC-22.13	Intergration of sugar transport, metabolism and sensing in Arabidopsis: Optimizing energy efficiency in plants- Evaluating and targeting leaks.	190
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-06ER41422 03/31/2012 Feldman	SC-26.1	Low-Energy Photonic Studies at HIGS and Lund	213
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40901 06/30/2012 Feldman	SC-26.1	A Program in Medium Energy Nuclear Physics	143
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-95ER40907 01/31/2013 Lee	SC-26.1	Nuclear Physics Calculations from QCD and EFT	170
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-01ER15129 01/14/2013 Vertes	SC-22.12	Nanophotonic and Atmospheric Pressure Ion Production in Imaging Mass Spectrometry	355
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-02ER15366 06/30/2012 Teng	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	102
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-05ER15736 11/30/2012 Cahill	SC-22.12	Control of Hydrothermal UO ₂ N ⁺ Systems: A Solution Phase Approach to New Solid State Materials	100
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-09ER55041 08/14/2012 Keidar	SC-24.2	Mechanism of Synthesis of Ultra-Long Single Wall Carbon Nanotubes in Arc Discharge Plasma	60

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (DC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
GEORGE WASHINGTON UNIVERSITY Washington, DC	DE-FG02-99ER41110 05/31/2014 Briscoe	SC-26.1	Data Analysis Center for Electromagnetic and Hadronic Scattering Processes	640
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-09ER64790 08/31/2012 Fornace	SC-23.2	A Metabolomics and Mouse Models Approach to Study Inflammatory and Immune Responses to Radiation	641
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-08ER46542 08/31/2014 Freericks	SC-22.22	Time-resolved Photoemission, Transmissivity, X-Ray Absorption Spectroscopy and Resonant Inelastic X-Ray Scattering in Strongly Correlated	90
GEORGETOWN UNIVERSITY Washington, DC	DE-FG02-07ER15895 08/14/2013 Tong	SC-22.12	In-Situ NMR/IR/Raman and Ab Initital DFT Investigations of Pt-Based Mono- & Bi-Metallic Nanoscale Electro-Catalysts:	170
HOWARD UNIVERSITY Washington, DC	DE-FG02-94ER40854 05/31/2012 Hubsch	SC-25	Superstrings and Quantum Superfields	23
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-11ER46815 02/28/2013 Shapero	SC-22.22	The Current Status and Future Direction of High Magnetic Field Study in the United States	142
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER41632 02/28/2013 Shapero	SC-26.1	An Assessment and Outlook for Nuclear Physics	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-AT01-07ER54947 07/25/2012 Shapero	SC-24.2	Plasma Science Committee	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-11ER46790 04/30/2012 Arrison	SC-22.21	Responsible Science: Ensuring the Integrity of the Research Process	150
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-11ER46788 08/31/2012 Chamot	SC-22.22	Harnessing Light: Capitalizing on Optical Science Trends and Challenges for Future Research	50
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-96ER45554 08/14/2012 Shapero	SC-22.22	Partial Support of the Condensed Matter and Materials Research Committee	65
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-09ER16071 12/31/2011 Zolandz	SC-22.12	Research Frontiers in Bioinspired Energy: Molecular-Level Learning from Natural Systems: A Workshop	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-11ER16267 11/30/2012 Zolandz	SC-22.13	Assessing the Importance and Impact of Glycomics and Glycosciences Phase II	75
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER15953 06/28/2014 Shapero	SC-22.11	Partial Support of the Committee of Atomic, Molecular, and Optical Sciences	50
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-11ER35919 04/14/2012 Merrill	SC-2	Measuring Economic and Other Returns on Federal Research Investments: A Workshop, Spring 2011	50

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (DC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-07ER15872 12/14/2013 Zolandz	SC-22.12	Board on Chemical Sciences and Technology and Chemical Sciences Roundtable	315
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-07ER15915 08/31/2013 De Souza	SC-22.12	Board on Earth Sciences and Resources and its Activities	100
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-11ER26046 08/31/2014 Weidman	SC-21.1	Partial Support of the Meeting of the Board on Mathematical Sciences and Their Applications	75
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER25840 09/29/2012 Eisenberg	SC-21.1	Core Research Activities and Studies of the Computer Science and Telecommunications Board	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-08ER41542 09/29/2012 Shapero	SC-25	Astronomy and Astrophysics Survey 2010	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-05ER41400 08/14/2012 Shapero	SC-25	Partial Core Support of the Board on Physics and Astronomy	0
NATIONAL ACADEMY OF SCIENCES Washington, DC	DE-FG02-10ER65072 08/31/2012 Elfring	SC-23.1	A National Strategy for Advancing Climate Modeling	125
DEPT OF, WASHINGTON NAVY YARD Washington, DC	DE-AI02-11ER55084 04/30/2014 Lukin	SC-24.2	Relaxation of Three-Dimensional Magnetic Structures: SSX (Swarthmore Spheromak eXperiment) Experiments and Experimentally-Validated Simulations	43
DEPT OF, WASHINGTON NAVY YARD Washington, DC	DE-AI02-11ER55085 04/30/2014 Lukin	SC-24.2	Proposal for the Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State	55
DEPT OF, WASHINGTON NAVY YARD Washington, DC	DE-AI02-01ER41170 07/14/2013 Gold	SC-25	Development and Testing of Advanced Accelerator Structures and Technologies at 11.424 GHz	250
DEPT OF, WASHINGTON NAVY YARD Washington, DC	DE-AI02-93ER40797 04/30/2012 Sprangle	SC-25	High Energy Laser-Driven Acceleration Based on the Laser Wake-Field Accelerator: Theory, Simulations, and Experiments	375
DEPT OF, WASHINGTON NAVY YARD Washington, DC	DE-AI02-10ER64968 05/31/2013 Ringelisen	SC-23.1	Mechanisms for Electron Transfer through Pili to Fe(III) Oxide in Geobacter	155
STATE, U.S. DEPARTMENT OF Washington, DC	DE-AI01-99ER54545 05/10/2012 Hufford	SC-24.2	Authentication of International Agreements and Translation Services	0

Total for DC :

9,654

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (DE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER15921 02/14/2012 Lobo	SC-22.12	Novel Photocatalysts With One- and Two-Dimensional Nanostructures	0
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-11ER26047 08/14/2013 Plechac	SC-21.1	Multiscale Mathematics for Biomass Conversion to Renewable Hydrogen	153
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-91ER40626 04/30/2012 Shafi	SC-25	Particle Theory and Cosmology	433
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER15468 09/14/2012 Lobo, Barteau	SC-22.12	From First Principles Design to Realization of Bimetallic Catalysts for Enhanced Selectivity	680
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-05ER15688 08/14/2014 Chen	SC-22.12	Dedicated Beamline Facilities for Catalytic Research - Synchrotron Catalysis Consortium (SCC)	560
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-00ER15104 11/14/2012 Chen	SC-22.12	Structure-Property Relationship in Metal Carbides and Bimetallic Alloys	135
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-92ER14273 08/31/2012 Theopold	SC-22.12	Catalysis of Small Molecule Activation by Proton Coupled Electron Transfer	160
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-11ER16244 06/14/2012 Meyers	SC-22.13	22nd International Conference on Arabidopsis Research 2011, June 22-25, 2011	9
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-05ER25702 08/14/2012 Vlachos	SC-21.1	Multiscale Modeling of Spatially Distributed Biological Systems	184
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER46374 06/30/2013 Xiao	SC-22.21	Center for Spintronics and Biodetection	690
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-90ER45413 06/18/2013 Hadjipanayis	SC-22.22	Fundamental Studies of High-Anisotropy Nanomagnets	84
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-03ER46038 02/14/2015 Glyde	SC-22.21	Neutron Scattering Studies of Classical and Quantum Fluids in Nanoporous Media	150
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46626 08/14/2012 Furst	SC-22.21	Directed Self-Assembly of Nanodispersions	15
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46627 08/14/2012 Bobev	SC-22.21	Synthesis and Structure Characterization of Novel Intermetallic Clathrates-Prospective Materials for	15
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-10ER46756 08/14/2014 Hertz	SC-22.23	Improved Electrochemical Performance of Strained Lattice Electrolytes via Modulated Doping	137

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (DE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-09ER46561 03/31/2012 Mackay	SC-22.23	Nanoparticles Stabilize Thin Polymer Films: A Fundamental Study to Understand the Phenomenon	175
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-11ER46816 07/31/2014 DeCamp	SC-22.21	Picosecond X-ray Diagnostics for Third and Fourth Generation Synchrotron Sources	185
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-07ER64450 08/31/2013 Green	SC-23.2	Genome-wide Analysis of miRNA Targets in Brachypodium and Biomas Energy Crops	295
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-11ER65257 08/31/2014 Papoutsakis	SC-23.2	Experimental Systems-Biology Approaches for Clostridia-Based Bioenergy Production	749
DELAWARE, UNIVERSITY OF Newark, DE	DE-FG02-11ER65248 09/14/2013 Chan	SC-23.1	The Effects of Fe- and S-Oxidizing Microorganisms on Post-Biostimulation Permeability Reduction and Oxidative	150
Total for DE :				4,959

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ULTURE, U.S. DEPT. OF, ARS-SAA Canal Point, FL	DE-AI02-11ER65365 09/14/2014 Glynn	SC-23.2	Discovering the Desirable Alleles Contributing to the Lignocellulosic Biomass Traits in Saccharum Germplasm Collections for Energy Cane Improvement	102
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER15842 09/14/2012 Rahman	SC-22.12	Controlling Structural, Electronic, and Energy Flow Dynamics of Catalytic Processes Through Tailored Nanostructures	640
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-08ER15995 08/14/2014 Roldan-Cuenya	SC-22.12	Size- and Shape-Selected Micellar Metal nanoparticles ad Model Systems for Structure-Sensitive Chemical Reactions: Oxidation State Effects	160
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-11ER16243 01/31/2015 Kara	SC-22.11	Electronic structure of an organic/metal interface: Pentacene/Cu(110)	59
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	111
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-07ER64455 07/31/2012 Winterhalter	SC-23.1	The Response of a Seasonal Ectotherm (Allenemobius Socius) to Global Warming	0
CENTRAL FLORIDA, UNIVERSITY OF Orlando, FL	DE-FG02-10ER64952 05/31/2013 Campiglia	SC-23.1	Field Deployable, Nano-Sensing Approach for Real-Time Detection of Free Mercury, Speciation and Quantification in Surface Stream Waters and Groundwater	170
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-96ER40998 07/31/2012 Williams	SC-25	Electron Beam Transport in Advanced Plasma Wave Accelerators	101
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-97ER54417 06/30/2013 Mezonlin	SC-24.2	Laser Induced Fluorescence and Neutral Particle Analyses for Ion Temperature Determinations	156
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-03ER54725 08/14/2012 Appartaim	SC-24.2	Dynamics of X-pinches Powered by a Capacitor Bank	99
FLORIDA A&M UNIVERSITY Tallahassee, FL	DE-FG02-09CH11562 12/31/2011 Weatherford, Johnson	SC-23	Florida A&M University (FAMU) Spheromak Turbulent Plasma Experiment (STPX) in Collaboration with West Virginia University	0
FLORIDA INSTITUTE OF TECH. Melbourne, FL	DE-FG02-03ER41264 05/31/2012 Baarmand	SC-25	Experimental Investigation of Hadron Collisions at the Highest Center-of-Mass Energies	199
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-01ER41172 04/14/2013 Sargsian	SC-26.1	Theoretical Studies of High Energy Electronuclear Processes	72
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-04ER15570 10/31/2013 Mebel	SC-22.11	Theoretical studies of chemical reactions related to the formation and growth of polycyclic aromatic hydrocarbons and	110
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-09ER55045 08/14/2012 Boeglin	SC-24.2	A Fast Proton Diagnostic for NSTX	109

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-07ER46461 08/14/2013 Chen	SC-22.21	Influence of Pressure on Physical Property of Ammonia Borane and its Re-Hydrogenation	245
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-99ER41065 01/31/2014 Reinhold, Boeglin, Markowitz, Raue	SC-26.1	Nuclear Physics Research at Jefferson Lab	500
FLORIDA INTERNATIONAL UNIV. Miami, FL	DE-FG02-09ER64737 04/30/2012 Zhu	SC-23.1	ARM Observations for the Development and Evaluation of Models and Parameterizations of Cloudy Boundary Layers	82
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER64865 08/14/2012 Gunzburger	SC-23.1	Collaborative Proposal: Transforming How Climate System Models are Used: A Global, Multi-Resolution Approach to Regional Ocean Modeling	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER64744 04/30/2013 Ye	SC-23.1	Mult-Scale Assessment of Prediction Uncertainty in Coupled Reactive Transport Models	66
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER46451 11/30/2013 Smirnov	SC-22.22	Infrared Optical Study of Graphene in High Magnetic Fields	140
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-08ER46494 05/31/2012 El-Azab	SC-22.22	Statistical Mechanics Modeling of Mesoscale Deformation in Metals	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER46634 09/14/2012 Balicas	SC-22.22	SISGR - High Magnetic Fields as a Probe to Unveil the Physical Properties of the Newly Discovered Fe Oxypnictide Superconductors and Related Compounds	150
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER45639 07/31/2014 Bonesteel	SC-22.22	Correlated Electrons in Reduced Dimensions	70
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-05ER46212 06/30/2014 Engel	SC-22.22	Microwave Spectroscopy of Electron Solids: Fractional Quantum Hall Effect and Controlled Disorder	135
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-06ER54881 06/30/2014 Lee	SC-24.2	Understanding and Development of High Field Superconductors for Fusion	90
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-97ER41022 04/30/2013 Prosper, Owens	SC-25	High Energy Physics	979
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER64432 07/14/2012 Gunzburger	SC-23.1	New Grid and Discretization Technologies for Ocean and Ice Simulations	0
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40735 10/31/2013 Eugenio	SC-26.1	Experimental Hadronic Nuclear Physics	314
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-96ER40952 01/31/2014 Van Sciver	SC-25	Liquid Helium Fluid Dynamics Studies	225

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-02ER41220 07/14/2014 Wiedenhoever	SC-26.1	Spectroscopy of Resonances in the Astrophysical rp-Process Path	64
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-92ER40750 03/14/2013 Piekarewicz	SC-26.1	From Quarks to the Cosmos	250
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-07ER41451 03/31/2014 Larbalestier	SC-25	High Field Superconductor Development and Understanding	610
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-09ER41629 08/31/2012 Roberts	SC-26.1	Research in Hadron Physics	120
FLORIDA STATE UNIVERSITY Tallahassee, FL	DE-FG02-10ER26035 12/31/2013 Gunzburger	SC-21.1	Mathematical and Numerical Analyses of Peridynamics for Multiscale Materials Modeling	150
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-09ER25913 08/31/2012 Sanders	SC-21.1	Super Instruction Architecture for Scalable Parallel Computations	207
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15484 03/14/2013 Schanze, Reynolds, Kleiman	SC-22.13	Conjugated Polymers and Polyelectrolytes in Solar Photoconversion	385
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-03ER15478 08/31/2012 Weaver	SC-22.12	Growth and Reactivity of Oxide Phases on Crystalline Pd and Pt Surfaces	200
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER15650 07/14/2014 Maupin-Furlow	SC-22.13	Ubiquitin-like Proteins in Protein-conjugation and Sulfur-transfer in Archaea	282
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-98ER14853 08/31/2012 Ladd	SC-22.12	Multiscale Modeling of Dissolution in Rough Fractures	92
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-08ER64585 06/14/2012 Hatfield	SC-23.1	Novel Sensor for the In Situ Measurement of Uranium Fluxes	0
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-97ER41029 06/30/2013 Yelton	SC-25	High Energy Experimental and Theoretical Research	2,379
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-11ER46798 07/14/2016 Chen	SC-22.22	Prediction of Thermal Transport Properties of Materials with Microstructural Complexity	151
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46247 08/31/2012 Yelton, Tanner	SC-22.22	Collective behaviors of the Casimir force in micromechanical systems	0
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-05ER46236 08/31/2014 Hirschfeld	SC-22.22	Theory of Novel Superconductors	105

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-99ER45748 01/31/2014 Andraka	SC-22.22	Heavy Fermions, Quantum Criticality, and Unconventional Superconductivity in Filled Skutterudites and Related Materials	108
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45984 05/14/2012 Tanner	SC-22.22	Time-resolved Synchrotron Studies of Spin and Charge Dynamics in Solids	165
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-02ER45995 11/30/2014 Cheng	SC-22.22	A Computational Approach to Complex Junctions and Interfaces	220
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-86ER45268 11/30/2012 Stewart	SC-22.22	Fe Pnictide and f-Electron Novel Materials/Magnetism, Superconductivity, and Quantum Criticality	150
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-09ER46611 08/31/2013 Trickey	SC-22.22	TMS: Orbital-Free Quantum Simulation Methods for Application to Warm Dense Matter	425
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-07ER46464 05/31/2013 So	SC-22.23	Luminescence in Conjugated Molecular Materials Under Sub-Bandgap Excitations	160
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-11ER65200 09/14/2014 Schuur	SC-23.1	Effects of Warming the Deep Soil and Permafrost on Ecosystem Carbon Balance in Alaskan Tundra: A Coupled Measurement and	349
FLORIDA, UNIVERSITY OF Gainesville, FL	DE-FG02-11ER65214 09/14/2014 Wang	SC-23.2	Discovering the Desirable Alleles Contributing to the Lignocellulosic Biomass Traits in Saccharum Germplasm Collections for Energy Cane Improvements	245
UNIVERSITY OF, MEDICAL CAMPUS Miami, FL	DE-FG02-11ER65279 09/14/2014 Mapes	SC-23.1	Sensitivity of Atmospheric Parametric Formulations to Regional Mesh Refinement in Global Climate Simulations Using	178
UNIVERSITY OF, MEDICAL CAMPUS Miami, FL	DE-FG02-11ER65283 09/14/2014 Zhang	SC-23.1	Roles of Shadow Convection in the Cloud Life Cycle in the Tropical Western Pacific Region	162
UNIVERSITY OF, MEDICAL CAMPUS Miami, FL	DE-FG02-09ER64779 06/14/2012 Mapes	SC-23.1	Parameterizing Convective Organization	191
UNIVERSITY OF, MEDICAL CAMPUS Miami, FL	DE-FG02-09ER64738 04/30/2012 Albrecht	SC-23.1	Collaborative Research: ARM Observations for the Development and Evaluation of Models and Parameterizations of Cloudy Boundary Layers	122
UNIVERSITY OF, MEDICAL CAMPUS Miami, FL	DE-FG02-11ER65343 09/14/2014 Walko	SC-23.1	Toward a Unified Representation of Atmospheric Convection in Variable-Resolution Climate Models	86
UNIVERSITY OF, MEDICAL CAMPUS Miami, FL	DE-FG02-09ER64841 08/14/2012 Avissar	SC-23.1	Improving Cloud and Precipitation Physics in a Seamless Regional-Global Climate Model	0
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-04ER46145 06/14/2014 Nolas	SC-22.23	A Fundamental Study of Inorganic Clathrate and Other Open-Framework Materials	130

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (FL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-06ER46297 07/14/2012 Woods	SC-22.22	Theoretical Studies of Graphitic Nanostructured Materials Interactions	90
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-10ER46782 08/31/2013 Ponomareva	SC-22.22	Atomistic Study of Ultrafast Dynamics in Multifunctional Materials in Bulk and Nanoforms	135
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-07ER46438 08/31/2013 Srikanth	SC-22.22	Magnetic Frustration and Cooperative Phenomena in Correlated Electron Oxide Materials	135
SOUTH FLORIDA, UNIVERSITY OF Tampa, FL	DE-FG02-09ER16082 09/14/2012 Batzill	SC-22.12	Photocatalysis of Modified Transition Metal Oxide Surfaces	135
TERAFLUX CORPORATION Boca Raton, FL	DE-FG02-08ER64534 04/14/2012 Prusa	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	0
Total for FL :				13,265

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (GA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ICKASAW ADVISORY SERVICES, LLC Atlanta, GA	DE-AC02-10ER35896 01/31/2015 Osteen	SC-46	Administrative, Technical, Professional, Information Management and Technology Support and Assistance to the Office of	1,894
CLARK ATLANTA UNIVERSITY Atlanta, GA	DE-FG02-97ER14743 03/31/2013 Msezane	SC-22.11	Electron/Photon Interactions with Atoms/Ions	80
EMORY UNIVERSITY Atlanta, GA	DE-FG02-07ER15906 08/31/2013 Hill	SC-22.13	Solar Energy-Driven Multi-Electron-Transfer Catalysts for Water Splitting: Robust and Carbon-Free	300
EMORY UNIVERSITY Atlanta, GA	DE-FG02-01ER15153 08/14/2013 Heaven	SC-22.12	Spectroscopic Studies of Prototypical Actinide Compounds	130
EMORY UNIVERSITY Atlanta, GA	DE-FG02-97ER14782 10/31/2012 Bowman	SC-22.11	Theoretical Studies of Combustion Dynamics	130
EMORY UNIVERSITY Atlanta, GA	DE-FG02-03ER15461 09/14/2012 Musaev	SC-22.12	Principles of Selective O ₂ -Based Oxidation by Optimal (Multinuclear) Catalytic Sites	240
EMORY UNIVERSITY Atlanta, GA	DE-FG02-02ER15377 06/14/2014 Lynn, Conticello	SC-22.13	Engineering Functional Scaffolds by Supramolecular Self-Assembly	240
S INST., INC., MEDICAL COL. OF Augusta, GA	DE-FG02-09ER64788 06/30/2012 Dynan	SC-23.2	Links Between Persistent DNA Damage, Genome Instability, and Aging	360
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-03ER15428 10/31/2012 Manson	SC-22.11	Photoabsorption by Free and Confined Atoms and Ions	69
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-01ER15213 10/31/2013 Stockman	SC-22.11	Femtosecond and Attosecond Laser-Pulse Energy Transformation and Concentration in Nanostructured Systems	100
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-09ER46635 09/14/2012 Mani	SC-22.22	SISGR - Microwave- and Terahertz- Photo-Excited Transport in the Two Dimensional Electron System	120
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-11ER46789 08/14/2014 Stockman	SC-22.22	Quantum Nanoplasmonics Theory	143
STATE UNIV. RES. FOUND., INC. Atlanta, GA	DE-FG02-98ER41068 03/31/2014 He	SC-26.1	Research in Heavy Ion Nuclear Reactions	158
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER65104 09/14/2013 Taillefert	SC-23.1	Mineral Solubility and Free Energy Controls on Microbial Reaction Kinetics: Application to Contaminant Transport....	290
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-11ER65252 09/14/2014 Nenes	SC-23.1	Collaborative Research: Quantifying the Uncertainties of Aerosol Indirect Effects and Impacts on Decadal-Scale Climate	215

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (GA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-11ER65245 09/14/2014 Kostka	SC-23.1	The Response of Soil Carbon Storage and Microbially Mediated Turnover to Simulated Climatic Disturbance in a Northern Peatland Forest: Revisiting the Concept...	274
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-11ER65241 09/14/2014 Bracco	SC-23.1	Validation and Quantification of Uncertainty in Coupled Climate Models Using Network Analysis	183
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER46604 05/31/2013 Tsukruk	SC-22.23	Guided Assembly of Anisotropic Micro-Structures Into Mesoscale Hierarchies	250
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER46592 02/28/2013 Sandhage , Kroger	SC-22.23	(Bio)Chemical Tailoring of Biogenic 3-D Nanopatterned Templates With Energy-Relevant Functionalities	299
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER45632 12/31/2012 Chou	SC-22.22	First-Principles Investigation of Complex Materials Properties	155
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-86ER45234 11/30/2012 Landman	SC-22.22	Structure and Dynamics of Material Surfaces, Interphase-Interfaces and Finite Aggregates	225
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-05ER46229 08/31/2012 Chou	SC-22.22	First-Principles Studies of Phase Stability and Reaction Dynamics in Complex Metal Hydrides	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER46141 05/14/2013 Tolbert, Bunz	SC-22.23	Morphosynthesis of Organic Semiconductors and Their Engineered Nanodot Composites	218
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-07ER46394 01/31/2015 Wang	SC-22.22	Fundamental Piezoelectronic and Piezo-Phototronic Effects in Nanowires	0
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46343 05/31/2013 Zhang	SC-22.22	Measurement of Near Field Thermal Radiation Between Flat Surfaces with Nanogap	195
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46281 03/31/2012 Davidovic	SC-22.22	Spin Polarized Electron Transport Through Aluminum Nanoparticles	130
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-06ER46293 07/31/2013 Riedo	SC-22.22	NanoMechanics: Elasticity and Friction in Nano-Objects	205
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-09ER64897 09/14/2012 Taillefert	SC-23.1	Uranium Biomineralization by Natural Microbial Phosphatase Activities in the Subsurface	93
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-99ER54538 03/31/2014 Stacey	SC-24.2	Collaborative Analysis of DIII-D	164
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-09ER55008 01/14/2012 Schwan	SC-24.2	Center for Plasma Edge Simulation (CPES)	54

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (GA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-01ER54656 01/31/2013 Yoda	SC-24.2	Advanced Design Studies	260
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-97ER14799 05/31/2012 El-Sayed	SC-22.11	Time Resolved Optical Studies on the Plasmonic Field Effects on Bacteriorhodopsin Proton Pump Function	467
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15450 10/31/2012 Raman	SC-22.11	Dual Quantum Gases of Bosons: From Atomic Mixtures to Heteronuclear Molecules	140
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-03ER15459 09/14/2012 Jones	SC-22.12	Developing the Science of Immobilized Molecular Catalysts	700
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-04ER15510 12/14/2014 Koros	SC-22.12	Precisely tunable high performance carbon molecular sieve membranes for energy intensive separations	120
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-02ER15337 10/31/2014 Orlando	SC-22.11	Low-Energy Electron Interactions with Liquid Complex Targets	145
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-11ER16216 12/14/2012 Hernandez	SC-22.13	National Diversity Equity Workshop 2011 to be held January 24 - 26, 2011	100
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-10ER26006 08/31/2013 Vuduc	SC-21.1	Vancouver: Designing a Next Generation Software Infrastructure for Heterogeneous Exascale Computing	234
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FG02-10ER26021 08/31/2013 Dovrolis	SC-21.1	Detection, Localization and Diagnosis of Performance Problems Using PerfSONAR	175
GEORGIA TECH RESEARCH CORP Atlanta, GA	DE-FC02-10ER26014 08/31/2013 Schwan	SC-21.1	Runtime System for I/O Staging in Support of In-Situ Processing of Extreme Scale Data	246
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-09ER64831 08/31/2012 Paterson	SC-23.2	Accelerating the Domestication of Miscanthus for Biofuel Production	530
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-08ER64690 09/14/2012 Scott	SC-23.2	Systems-Level Description of Metabolic and Regulatory Pathways fo a Hydrogen-Producing Model Microorganism	0
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-06ER64321 09/30/2012 Leclerc	SC-23.1	A New Carbon Flux Super Site: Innovative Methods of Atmosphere-Terrestrial Carbon Exchange Measurements and Modeling	0
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-07ER64408 05/14/2012 Summers	SC-23.1	Identifying Biomarkers and Mechanisms of Toxic Metal Stress with Globabl Proteomics	0
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-09ER16076 08/31/2012 Hahn	SC-22.13	Understanding the Mechanism by Which Non-Catalytic Carbohydrate Binding Modules Contribute to Plant Cell Wall Degradation	180

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (GA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-96ER20220 06/14/2012 Darvill	SC-22.13	Structural Studies of Complex Carbohydrates of Plant Cell Walls	325
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-93ER20097 12/31/2012 Darvill	SC-22.13	Center for Plant and Microbial Complex Carbohydrates	790
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-95ER20175 04/14/2014 Adams	SC-22.13	Hypothermophilic Multiprotein Complexes and Pathways for Energy Conservation and Catalysis	200
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-03ER15415 08/14/2012 Ye	SC-22.13	Secondary Wall Formation in Fiber Cells	181
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-96ER14658 11/14/2014 Duncan	SC-22.11	Transition Metal Chemistry Studied with Cluster Ion Infrared Spectroscopy	136
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-97ER14748 01/14/2013 Allen, Schaefer	SC-22.11	Theoretical Studies of Elementary Hydrocarbon Species and Their Reactions	202
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-10ER64983 06/14/2013 Summers	SC-23.1	Defining the Molecular-Cellular-Field Continuum of Mercury Detoxification	225
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-11ER65286 09/14/2014 Summers	SC-23.1	Identifying Key Proteins in Hg Methylation Pathways of Desulfovibrio by Global Proteomics	149
VERSITY OF RESEARCH FOUND. INC Athens, GA	DE-FG02-11ER65218 09/14/2012 Leclerc	SC-23.1	A New Carbon Flux Site: Innovative Methods of Atmosphere-Terrestrial Carbon Exchange Measurements and Modeling	100
H GEORGIA COLLEGE & STATE UNIV Dahlonega, GA	DE-FG02-97ER41046 02/29/2012 Prior	SC-26.1	Radiative Capture and Gamma-Induced Reactions at Low Energies	133
Total for GA :				12,652

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (HI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-11ER65351 09/14/2014 Schneider	SC-23.1	Collaborative Project: Ocean-Atmosphere Interaction From Meso- to Planetary-Scale: Mechanisms, Parameterization, and Variability	76
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER46408 05/31/2013 Ming	SC-22.23	Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures	195
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER64469 08/14/2012 Schneider	SC-23.1	Understanding Annual Cycle-ENSO Interactions in Climate Change Simulations	0
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-03ER15411 07/14/2012 Kaiser	SC-22.11	Probing the Reaction Dynamics of Hydrogen-Deficient Hydrocarbon Molecules and Radical Intermediates via Crossed	141
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-09ER16002 07/31/2013 Jahren	SC-22.12	Development of the Carbon Isotope Signature of Terrestrial n-Alkanes as a Potential Proxy for Paleo-pCO2	174
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-07ER15885 07/31/2012 Vicic	SC-22.12	Development of Catalytic Alkylation and Fluoroalkylation Methods	145
HAWAII, UNIVERSITY OF Honolulu, HI	DE-FG02-04ER41291 11/30/2012 Browder, Tata	SC-25	Research in High Energy Physics	1,600
Total for HI :				2,331

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-87ER40371 06/14/2014 Vary, Qiu	SC-26.1	Intermediate/High Energy Nuclear Physics	320
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-01ER41155 10/31/2012 Krennrich, Cochran	SC-25	Investigations in Experimental and Theoretical High Energy Physics	991
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-92ER40692 11/14/2012 Hill	SC-26.1	Relativistic Heavy Ion Physics	637
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FC02-09ER41582 11/30/2012 Vary	SC-26.1	Building a Universal Nuclear Energy Density Functional	136
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-09ER16088 09/14/2012 Zhao	SC-22.12	SISGR: Biomimetic Catalysts Responsive to Specific Chemical Signals	440
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-94ER20147 08/31/2013 Rodermel	SC-22.13	Regulation of chloroplast biogenesis: the immutans mutant of Arabidopsis	170
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-10ER41719 08/31/2013 Lajoie	SC-26.1	Investigation of Quark Sea and Orbital Angular Momentum Contributions to Nucleon Spin	48
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-01ER63250 03/14/2012 Gutowski	SC-23.1	Collaborative Research: Continuous Dynamic Grid Adaptation in a Global Atmospheric Model: Application and Refinement	0
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-07ER64463 08/14/2012 Gutowski	SC-23.1	Collaborative Research: Towards Advanced Understanding and Predictive Capability of Climate Change in the Arctic Using a	0
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-08ER64559 05/14/2012 Wu	SC-23.1	Understanding and Improving CRM and GCM Simulations of Cloud Systems with ARM Observations	0
SITY OF SCIENCE AND TECHNOLOGY Ames, IA	DE-FG02-11ER65158 08/31/2015 Gutowski	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System	257
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-11ER65197 08/31/2014 Scherer	SC-23.1	Electron and Atom Exchange Between Aqueous Fe(II) and Structural Fe(III) in Clays: Role in U and Hg(II) Transformations	210
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-09ER64801 06/30/2012 Spitz	SC-23.2	Mitochondrial-Derived Oxidants and Cellular Responses to Low Dose/Low LET Ionizing Radiation	594
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-99ER54543 06/30/2012 Skiff	SC-24.2	Correlations and Fluctuations in Weakly Collisional Plasma	160
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-04ER54795 08/14/2014 Merlino	SC-24.2	Experimental Investigations of Fundamental Processes in Dusty Plasmas	200

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-07ER54943 07/31/2012 Pickett	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves on Current Layers	0
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-11ER41761 02/28/2013 Onel	SC-25	Secondary Emission Sampling Calorimetry Sensor Development	51
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-91ER40664 02/28/2013 Mallik	SC-25	High Energy Physics	721
IOWA, UNIVERSITY OF Iowa City, IA	DE-FG02-86ER40286 05/31/2013 Polyzou	SC-26.1	Relativistic Few-Body Hadronic-Physics Calculations	130
KRELL INSTITUTE, INC. Ames, IA	DE-FG02-97ER25308 03/31/2013 Corones	SC-21.1	Computational Science Graduate Fellowship Program	8,000
KRELL INSTITUTE, INC. Ames, IA	DE-FG02-09ER25935 09/14/2012 Galarowicz	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	76
Total for IA :				13,141

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (ID)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
BOISE STATE UNIVERSITY Boise, ID	DE-FG02-07ER46396 07/14/2014 Mullner	SC-22.22	Fracture Mechanisms and Fatigue of Magnetic Shape-Memory Alloys	152
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-09ER46623 08/14/2012 Forest	SC-22.21	The Development of a Positron Source for JLab at the IAC	15
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-09ER46624 08/14/2012 Chandler	SC-22.21	Experimental Studies of the Transport Parameters of Warm Dense Matter	15
IDAHO STATE UNIVERSITY Pocatello, ID	DE-FG02-11ER65130 02/29/2012 Wells	SC-23.2	Investigations of ¹⁸ F, ⁶⁷ Cu, ⁹⁹ Mo/ ⁹⁹ Tc, and ¹³¹ Ba/ ¹³¹ Cs Isotope Production	1,458
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-11ER65183 08/14/2012 Smith	SC-23.1	Persistence of Microbially Facilitated Calcite Precipitation as an In Situ Treatment for Strontium-90 and Other Metal Contaminant	45
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-09ER46625 08/14/2012 Bitterwolf	SC-22.21	Time-Resolved XAFS Spectroscopic Studies of B-H and N-H Oxidative Addition to Transition Metal Catalysts Relevant to	15
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-07ER64404 05/31/2012 Smith	SC-23.1	Field Investigations of Microbially Facilitated Calcite Precipitation for Immobilization of Strontium-90 and Other Trace Metals in the Subsurface	0
IDAHO, UNIVERSITY OF Moscow, ID	DE-FG02-03ER41270 07/31/2012 Sammarruca	SC-26.1	Nuclear Theory at the University of Idaho	95
Total for ID :				1,795

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER65030 08/14/2013 Stevens	SC-23.2	Dev. of an Extensible Computational Framework for Centralized Storage and Distributed Curation and Analysis of Genomic Data and Genome-scale Metabolic	462
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER41651 12/31/2012 Wah	SC-25	Rare Kaon Decays, KEK Experiment E391 and E14 at the Japan Physics and Accelerator Research Complex (J-PARC)	245
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-06ER46326 08/14/2012 Guyot-Sionnest	SC-22.22	Colloidal Quantum Dot Films. Transport and Magnetotransport	134
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-03ER46088 04/30/2013 Nagel	SC-22.22	Studies of the Marginally Jammed Solid	125
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-99ER45789 11/30/2012 Rosenbaum	SC-22.22	Coherent Excitations in Disordered Quantum Materials	150
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-11ER41745 07/14/2012 Wagner	SC-25	PreSUSY 2011 School on Particle Physics, August 28-September 2, 2011	10
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER16113 09/14/2012 Sibener	SC-22.11	SISGR - Chemical Imaging and Dynamical Studies of Reactivity and Emergent Behavior in Complex Interfacial Systems	295
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-10ER16171 08/31/2014 Voth	SC-22.12	Computer Simulation of Proton Transport in Fuel Cell Membranes	170
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14305 03/31/2015 Butler	SC-22.11	Dynamics of Product Branching in Elementary Combustion Reactions: OH + Alkenes and Nitrogen Chemistry	123
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-94ER14466 08/14/2016 Sutton	SC-22.12	GeoSoilEnviroCARS: A National Resource for Earth, Planetary, Soil and Environmental Science Research at the	856
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-01ER15254 07/31/2014 Richter	SC-22.12	Kinetic Isotope Fractionation by Diffusion in Liquids	194
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-92ER14244 11/14/2014 Sutton	SC-22.12	Synchrotron X-Ray Microprobe and Microspectroscopy Research In Low Temperature Geochemistry	319
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15865 05/14/2013 He	SC-22.12	Selective Recognition of Heavy Elements by Protein-Based Reagents	42
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-07ER15910 02/28/2014 Hopkins	SC-22.13	New Transition Metal Building Blocks and Assemblies for Photocatalytic Fuel Production	195
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FC02-10ER26012 08/31/2013 Katz	SC-21.1	ExM: System Support for Extreme-Scale, Many-Task Applications	446

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25912 08/31/2012 Khokhlov	SC-21.1	First-Principles Petascale Simulations for Predicting Deflagration to Detonation Transition in Hydrogen-Oxygen Mixtures	0
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25921 09/14/2012 Stein	SC-21.1	Scalable Statistical Analysis of Gaussian Models for Petascale Spatiotemporal Data	102
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-09ER25883 08/31/2012 Birge	SC-21.1	Stochastic Optimization of Complex Systems	165
CHICAGO, UNIVERSITY OF Chicago, IL	DE-FG02-90ER40560 10/31/2012 Martinec	SC-25	Participation in High Energy Physics	851
DEPAUL UNIVERSITY Chicago, IL	DE-FC02-06ER41441 03/14/2012 Di Pierro	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	0
HDF GROUP, THE Champaign, IL	DE-FC02-10ER26003 08/31/2013 Koziol	SC-21.1	Damsel: a Data Model Storage Library for Exascale Science	250
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-94ER40840 04/30/2012 White	SC-25	Participation in High Energy Physics	424
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-01ER41159 01/14/2014 Torun, Kaplan	SC-25	Participation in Muon Collider/Neutrino Factory Research and Development	200
ILLINOIS INST. OF TECHNOLOGY Chicago, IL	DE-FG02-09ER25884 08/31/2012 Hickernell	SC-21.1	Stochastic Optimization of Complex Systems	64
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER65103 08/31/2013 Luthey-Schulten	SC-23.2	Computational Modeling of Fluctuations in Energy and Metabolic Pathways of Methanogenic Archaea	500
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER65012 07/31/2012 McFarquhar	SC-23.1	The Development of an Improved Cloud Microphysical Product for Model and Remote Sensing Evaluation Using RACORO	0
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER64999 06/14/2013 Metcalf	SC-23.2	Methanogenic Archaea and the Global Carbon Cycle: A System Biology Approach to the Study of Mechanosarcina	821
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER65039 08/14/2013 Hudson	SC-23.2	The Role of Small RNA in Biomass Deposition and Perenniality in Andropogoneae Feedstocks	439
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER64926 01/31/2013 West	SC-23.1	Particle-Resolved Aerosol Representation for the Simulation of the Aerosol Impact on Regional Scales	198
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER64939 04/14/2012 Johnson	SC-23.1	Exploratory Research: Mercury Stable Isotopes as Indicators of the Biogeochemical Cycling of Mercury	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65312 09/14/2014 Lundstrom	SC-23.1	Development of U Isotope Fractionation as an Indicator of U(VI) Reduction in Uranium Plumes	175
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65281 09/14/2014 Jain	SC-23.1	Investigating the Role of Biogeochemical Processes in the Northern High Latitudes on Global Climate Feedbacks Using an	556
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65224 09/14/2014 Bond	SC-23.1	Isolating Weakly and Strongly-Absorbing Classes of Carbonaceous Aerosol:Optical Properties, Abundance and Life Cycle	398
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65210 08/14/2014 Sacks	SC-23.2	Quantifying Phenotypic & Genetic Diversity of Miscanthus Sinensis as a Resource for Knowledge-Based Improvement of M. x	999
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65260 08/31/2014 Blaschek	SC-23.2	Understanding Fundamental Aspects of Butanol Production by Clostridium Beijerinckii	355
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65251 09/14/2013 Valocchi	SC-23.1	Microbiological-Enhanced Mixing Across Scales During in Situ Bioreduction of Metals & Radionuclides at DOE Sites	1,300
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER65366 09/14/2012 Valocchi	SC-23.1	Conference Support for the XIX International Conference on Computational Methods in Water Resources, June 17-21, 2012	20
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-05ER46217 08/14/2013 Bellon, Averbach	SC-22.22	Materials for Extreme Irradiation Environments	650
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-07ER46383 05/31/2013 Chiang	SC-22.21	Quantum Physics of Surface-Based Nanoscale Systems	473
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-06ER46285 06/30/2012 Abbamonte	SC-22.21	Resonant Soft X-Ray Scattering Studies of Spontaneous and Engineered Electronic Order in Transition Metal Oxides	229
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-05ER46260 06/14/2014 Gewirth	SC-22.23	Cathode Catalysis in Hydrogen/Oxygen Fuel Cells: New Cathalysts, Mechanism, and Characterization	350
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-01ER45923 04/14/2014 Zuo	SC-22.21	Electron Nanocrystallography of Complex Materials and Processes	250
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-02ER46019 11/30/2012 Granick	SC-22.23	Phospholipid Vesicles in Materials Science	229
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-08ER46549 10/14/2012 Abbamonte	SC-22.21	LEEM Investigations of Clean Surfaces Driven by Energetic Ion Beams	170
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-07ER46471 07/31/2013 Lewis, Moore	SC-22.23	Programming Function via Soft Materials	1,607

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-07ER46453 07/31/2013 Cooper	SC-22.22	Quantum Materials at the Nanoscale	1,700
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-07ER46459 07/31/2013 Cahill	SC-22.21	Ultrafast Thermal Transport at Interfaces	375
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-07ER46443 04/30/2014 Robertson	SC-22.21	Four-Dimensional Characterization of Dislocation-Defect Interactions in Aggressive Environments - A New Approach	149
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-09ER64770 06/14/2012 McFarquhar	SC-23.1	Improved Representations of Cloud Microphysics for Model and Remote Sensing Evaluation Using Data Collected During ISDAC, TWP-ICE, and RACORO	163
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-09ER64791 06/30/2012 Finneran	SC-23.1	Characterizing the combined Roles of Iron and Transverse Mixing on Uranium Bioremediation in Groundwater Using	155
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-09ER64781 07/31/2012 Sanford	SC-23.1	MURMoT: Design and Application of Microbial Uranium Reduction Monitoring Tools	117
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-08ER64568 05/31/2014 Lu	SC-23.1	New Catalytic DNA Biosensors for Radionuclides and Metal Ions	248
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-04ER54765 04/14/2012 Ruzic	SC-24.2	Study of Breakdown/Arcing in High Power RF Antennas	55
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-99ER54515 04/14/2014 Ruzic	SC-24.2	Surface Interactions for Controlled Nuclear Fusion	274
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FC02-07ER64323 05/14/2013 Valocchi	SC-23.1	Modeling Multiscale-Multiphase-Multicomponent Subsurface Reactive Flows Using Advanced Computing	77
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-08ER54992 05/31/2012 Ruzic	SC-24.2	Study of the Scrape-Off Layer/LLD Interactions and Relevance to NSTX Core Performance	140
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-09ER55051 08/14/2012 Eden	SC-24.2	Scaling of Microactivity Plasmas Toward IUM: Science and Engineering of Spatially-Confined, Low Temperature Plasmas	67
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER46799 07/14/2016 Dillon	SC-22.21	In-situ TEM Observations of Degradation Mechanisms in Next-Generation High-Energy Density Lithium-Ion Battery Systems	150
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-03ER15476 09/14/2012 Nuzzo, Johnson	SC-22.12	Reactivity & Structural Dynamics of Supported Metal Nanoclusters using Electron Microscopy, In-Situ X-Ray Spectroscopy, Elec. Struc. Theories, &	640
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-87ER13716 08/31/2013 Gennis	SC-22.13	Biochemical and Biophysical Studies of the E Coli Aerobic Respiratory Chain	170

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-02ER15296 06/30/2014 Metcalf	SC-22.13	Energy Conservation During Methanogenesis in Methanosarcina Species	185
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-90ER14146 02/28/2015 Rauchfuss	SC-22.12	Organometallic and Catalytic Chemistry of Functionalized Complexes	170
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-08ER15960 06/14/2014 Dikanov	SC-22.13	Mechanistic Studies of Catalysis in Quinone Electron Transfer Using High-Resolution EPR	180
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-08ER15961 06/14/2012 Bass	SC-22.12	Aqueous Geochemistry at High Pressures and Temperatures	0
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-11ER16211 02/28/2014 Hirata	SC-22.11	Breakthrough Design and Implementation of Many-Body Electronic and Vibrational Theories	171
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-91ER40677 10/31/2012 Liss, Thaler	SC-25	Research on Elementary Particle Physics	2,184
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, 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	175
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FC02-10ER26011 08/31/2013 Hoefler	SC-21.1	Compiled MPI: Cost-Effective Exascale Applications Development	55
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-10ER25969 03/14/2013 Gropp	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	160
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FC02-10ER26004 08/31/2013 Hwu	SC-21.1	Vancouver: Designing a Next Generation Software Infrastructure for Heterogeneous Exascale Computing	444
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FC02-10ER25992 08/31/2013 Torrellas	SC-21.1	Thrifty: An Exascale Architecture for Energy Proportional Computing	314
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-09ER25895 09/14/2012 Kale	SC-21.1	HPC Colony II	250
OIS, UNIV. OF URBANA-CHAMPAIGN Urbana, IL	DE-FG02-08ER25835 03/31/2013 Gropp	SC-21.1	Enhancing the MPI Programming Model for Petascale Systems	158
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-09ER25954 09/14/2012 Nicholls	SC-21.1	High-Order Numerical Methods for the Simulation of Linear and Non-Linear Waves: High-Frequency Radiation and Dynamic	90
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-84ER40173 06/30/2012 Keung	SC-25	Studies in Theoretical High Energy Particle Physics	82

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-01ER41195 07/31/2013 Stephanov	SC-26.1	Theoretical Studies of Strongly Interacting Matter	160
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-94ER40865 05/14/2013 Hofman	SC-26.1	Heavy Ion Nuclear Physics Research at the University of Illinois at Chicago	486
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-09ER16072 11/30/2012 Ogut	SC-22.11	Manipulating Light With Transition Metal Clusters and Dyes	56
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-03ER15381 01/14/2015 Sturchio	SC-22.12	Mineral-Fluid Interactions: Synchrotron Radiation Studies at the Advanced Photon Source	65
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-09ER64895 09/14/2012 Nagy	SC-23.1	Mercury Release from Organic Matter (OM) and OM-Coated Mineral Surfaces	248
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-08ER46538 08/31/2012 Murad	SC-22.23	Observation and Simulations of Lipid Membrane Behavior Under External Stimuli	60
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-05ER46225 08/14/2014 Morr	SC-22.22	Non-Equilibrium Physics at the Nanoscale	70
LLINOIS, UNIVERSITY OF CHICAGO Chicago, IL	DE-FG02-11ER65188 08/31/2014 Gonzalez-Meler	SC-23.1	Permafrost Thawing and Vegetation Change Effects on Cryoturbation Rates and C and CH4 Dynamics	349
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-06ER46334 08/14/2012 Xiao	SC-22.23	Synthesis and Properties of Nanostructured Exotic Superconductors	162
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-03ER46097 09/14/2012 van Veenendaal	SC-22.22	Dynamical and Non-Equilibrium Effects in Higher-Order and Pump and Probe X-Ray Scattering	140
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-10ER41695 08/31/2012 Zutshi	SC-25	Design and Prototyping of a High Granularity Scintillator Calorimeter	80
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-11ER41725 02/29/2012 Erdelyi	SC-26.2	Studies of Conventional and ERL-Based Recirculator Electron Cooling for an Electron Ion Collider	58
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-08ER41532 01/31/2014 Piot	SC-25	Nonlinear Dynamics & Phase Space Manipulations of High-Brightness Electron Beams: Theories, Simulations, and	98
NORTHERN ILLINOIS UNIVERSITY DeKalb, IL	DE-FG02-10ER65006 09/14/2012 Kimball	SC-23.2	Unique Methodologies for Nano-/Micro-Manufacturing Job Training via Desktop Supercomputer Modeling and Simulation	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER41086 12/31/2011 Segel	SC-26.1	Physics with Rare Isotope Beams	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER40344 11/30/2013 Seth	SC-26.1	Strong Interaction Studies with Medium Energy Probes	334
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-91ER40684 11/30/2012 Schellman, Petriello	SC-25	High Energy Physics Research	1,140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER25848 07/14/2012 Choudhary	SC-21.1	Active Storage with Analytics Capabilities and I/O Runtime System for Petascale Systems	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-07ER25808 11/14/2012 Choudhary	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	194
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26008 08/31/2013 Dinda	SC-21.1	Enabling Exascale Hardware and Software Design Through Scalable System Virtualization	525
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26001 08/31/2013 Choudhary	SC-21.1	Damsel: A Data Model Storage Library for Exascale Science	665
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER25911 08/31/2012 Choudhary	SC-21.1	An Optimizing Compiler for Petascale I/O on Leadership-Class Architectures	175
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FC02-10ER26015 08/31/2013 Choudhary	SC-21.1	Scalable and Power Efficient Data Analytics for Hybrid Exascale Systems	470
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER26037 08/31/2013 Mehrotra	SC-21.1	Sparse Grid Scenario Generation and Interior Algorithms for Stochastic Optimization in a Parallel Computing Environment	161
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-10ER16153 05/31/2013 Schatz	SC-22.11	Surface Plasmon Enhanced Chemistry	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER16109 09/14/2012 Hersam	SC-22.11	SISGR - Single Molecule Chemical Imaging at Femtosecond Time Scales	600
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER16030 07/31/2014 Wasielewski	SC-22.13	Argonne-Northwestern Solar Energy Research (ANSER) Center -- EFRS	2,503
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER15980 08/31/2012 Rudnicki	SC-22.12	Multiscale Framework for Predicting the Coupling Between Deformation and Fluid Diffusion in Porous Rocks	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER15967 04/30/2014 Hupp	SC-22.12	Coordination-Chemistry-Devised Materials Featuring Nanoscale Porosity and Selective Chemical Separation	525
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER25047 06/30/2014 Nocedal	SC-21.1	Statistical Learning, Stochastic Optimization and Active-Set Methods for Nonlinear Programming	104

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-11ER16269 08/31/2014 Notestein	SC-22.12	Templating Routes to Supported Oxide Catalysts by Design	155
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15522 06/30/2013 Ibers	SC-22.12	Actinide Transition-Metal Chalcogenides and Pnictides	140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-03ER15457 05/31/2012 Stair	SC-22.12	Institute for Catalysis in Energy Processes	1,000
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-04ER15612 10/31/2013 Seideman	SC-22.11	New Directions in Intense Laser Alignment	110
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-96ER14684 07/14/2014 Lewis	SC-22.13	Light-Driven Charge Transfer in Face-to-Face Donor-Spacer-Acceptor Supramolecular Systems	180
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER14999 04/14/2012 Wasielewski	SC-22.13	Approaches to Integrated Photochemical Systems for Solar Energy Conversion	310
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER15184 10/31/2013 Kung	SC-22.12	Molecular Engineering for Selective Catalysis	170
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-86ER13511 11/14/2013 Marks	SC-22.12	Supported Organometallic Complexes: Surface Chemistry, Spectroscopy, Catalysis, and Homogeneous Models	185
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-87ER13808 05/14/2012 Hupp	SC-22.13	Fundamental Studies of Light-Induced Charge Transfer, Energy Transfer, and Energy Conversion with Supramolecular	200
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-88ER45372 03/31/2013 Freeman	SC-22.22	Electronic Structure and Novel Properties in Complex Oxides and Hetero-Interfaces	105
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-84ER45125 10/31/2012 Dutta	SC-22.23	In Situ X-ray Studies of Adsorption, Nucleation, and Self-Assembly at Soft and Hard Surfaces	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-01ER45945 03/14/2012 Marks	SC-22.21	New Methods for Atomic Structure Determination of Materials	0
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-00ER45810 05/14/2014 Stupp	SC-22.23	Nanoengineering of Complex Materials	490
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-98ER45721 03/14/2014 Dunand	SC-22.22	Designing Nanoscale Precipitates in Novel Cobalt-based Superalloys to Improve Creep Resistance and Operating Temperature	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-99ER45782 08/14/2014 Voorhees	SC-22.23	Four-Dimensional Analysis of the Evolution of Complex Dendritic Microstructures During Coarsening	374

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IL)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46248 06/30/2014 Halperin	SC-22.22	Antiferromagnetism and Superconductivity	190
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-05ER46255 08/31/2014 Barnett	SC-22.22	High Performance Nano-Crystalline Oxide Fuel Cell Materials: Defects, Structures, Interfaces, Transport, and	500
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46356 10/31/2012 Kanatziadis	SC-22.23	Chemistry and Properties of Complex Intermetallics from Metallic Fluxes	150
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-06ER46346 01/31/2014 Chandrasekhar	SC-22.21	Nanoscale Properties of Novel Materials	229
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46401 07/14/2014 Lauhon	SC-22.22	Functional Imaging of Hybrid Nanostructures: Visualizing Mechanism of Solar Energy Utilization	140
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-07ER46433 08/14/2013 Wolverton	SC-22.22	Theory of Hydrogen Storage in Complex Hydrides	260
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER46536 12/31/2014 Marks	SC-22.23	Materials Science of Electrodes and Interfaces for High-Performance Organic Photovoltaics	533
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-08ER46539 08/31/2014 Olvera de la Cruz	SC-22.23	Electrostatic Driven Self-Assembly Design of Functional Nanostructures	410
NORTHWESTERN UNIVERSITY Evanston, IL	DE-FG02-09ER64815 08/31/2014 Woloschak	SC-23.2	Effects of Low Dose Irradiation on NFkB Signaling Networks and Mitochondria	1,400
RUSH UNIVERSITY MEDICAL CENTER Chicago, IL	DE-FG02-09ER64883 08/31/2012 Chang	SC-23.2	Proof of Concept Studies of an Ultra-High-Performance Cardiac Imaging System: C-SPECT-II	0
LLINOIS UNIVERSITY, CARBONDALE Carbondale, IL	DE-FG02-09ER25903 08/31/2012 Zhu	SC-21.1	Towards a Scalable and Adaptive Application Support Platform for Large-Scale Distributed E-Sciences in High-Performance Network Environments	134
LLINOIS UNIVERSITY, CARBONDALE Carbondale, IL	DE-FG02-05ER46231 08/31/2012 Ge	SC-22.22	First Principles Based Simulation of Reaction-Induced Phase Transition in Hydrogen Storage and Other Materials	120
LLINOIS UNIVERSITY, CARBONDALE Carbondale, IL	DE-FG02-06ER46291 06/30/2013 Ali	SC-22.22	Understanding Compound Phase Transitions in Heusler Alloy Giant Magnetocaloric Materials: Extension to Multifunctional Materials	200
Total for IL :				41,902

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-08ER25844 07/14/2012 Lumsdaine	SC-21.1	Minimizing System Noise Effects for Extreme-Scale Scientific Simulation Through Function Delegation	0
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FC02-10ER26010 08/31/2013 Lumsdaine	SC-21.1	Compiled MPI: Cost-Effective Exascale Application Development	55
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-07ER15889 01/31/2015 Jarrold	SC-22.11	Probing catalytic activity in transition metal oxides and sulfides using cluster models: A combined experimental and	170
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-07ER15893 08/14/2013 Mindiola	SC-22.12	Synthesis and Exploratory Catalysis of 3D Metals: Group-Transfer, and Alkane Activation and Functionalization with Greenhouse Gases	155
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-91ER40661 10/31/2012 Evans, Kostelecky, Musser, Ogren	SC-25	High Energy Experimental and Theoretical Particle Physics	1,490
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-92ER40747 08/14/2012 Lee	SC-25	Physics of Beam Cooling, Space Charge Effects, and Beam Manipulation Technologies in High Energy Accelerators	238
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-88ER40404 12/31/2012 De Souza	SC-26.1	Many-Body Nuclear Dynamics	365
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-87ER40365 03/31/2014 Horowitz, Serot, Szczeponiak	SC-26.1	Theoretical Studies in Nuclear and Hadronic Physics	320
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FC02-06ER41443 09/14/2012 Gottlieb	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	56
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-05ER41374 04/14/2013 Shepherd	SC-26.1	Understanding QCD in the Light Meson Sector (With Emphasis on Mapping Gluonic Excitations)	408
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-11ER16246 07/31/2014 Schimmelmann	SC-22.12	Shale Gas: Geochemical and Physical Constraints on Genesis, Storage, and Producibility	195
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FC02-06ER25750 09/14/2012 Lumsdaine	SC-21.1	Coordinated Fault Tolerance for High Performance Computing	0
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-09ER16068 08/14/2012 Flood	SC-22.12	Binding Anions Selectively With Modular Triazolophanes and Releasing Them With Light	125
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-98ER14890 12/14/2013 Hieftje	SC-22.12	Elucidation and Reduction of Interference Effects in Inductively Coupled Plasma Spectrometry	145
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FC02-06ER54865 01/14/2012 Bramley	SC-24.2	Computational Science in Fusion Energy - Center for Simulation of Wave Interactions with Magnetohydrodynamics	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-06ER46279 03/14/2012 Pynn	SC-22.21	Studies of Materials Structure with Neutrons using Spin Echo Scattering Angle Measurement (SESAME)	263
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-03ER46093 11/14/2012 Snow	SC-22.21	Polarized 3He in Neutron Scattering	333
NDIANA UNIVERSITY, BLOOMINGTON Bloomington, IN	DE-FG02-11ER65339 09/14/2014 Huerta	SC-23.1	Collaborative Project: The Problem of Bias in Defining Uncertainty in Computationally Enabled Strategies for Data-Driven Climate Model Development	277
N UNIVERSITY ASSOCIATION, INC. Valparaiso, IN	DE-FG02-88ER40416 01/15/2015 Stanislaus	SC-26.1	Experimental Tests of the Standard Model for Particles and Nuclei	211
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10ER46783 08/31/2013 Eskildsen	SC-22.21	Metastable Vortex Lattices - Properties and Applications	168
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER46390 06/14/2014 Zhu	SC-22.23	Multi-Responsive Polyelectrolyte Brush Interfaces: Coupling of Brush Nanostructures and Interfacial Dynamics	150
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FC02-04ER15533 10/31/2013 Carmichael	SC-22.13	Radiation and Photochemistry in the Condensed Phase and at Interfaces	5,185
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-09ER16026 09/14/2013 Albrecht-Schmitt	SC-22.12	New Synthetic Methods and Structure - Property Relationships in Neptunium, Plutonium, and Americum Borates	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-09ER16083 10/31/2011 Carmichael	SC-22.13	Radiation Chemistry in the 21st Century: A Visionary Conference, July 2009	0
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-09ER16073 08/31/2012 Chipman	SC-22.11	Improved Dielectric Solvation Model for Electronic Structure Calculations	137
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-06ER15830 10/31/2012 Schneider	SC-22.12	Towards Realistic Reaction Environments in Catalysis Simulation	155
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15851 02/14/2013 Bohn	SC-22.12	Molecular Aspects of Transport in Thin Films of Controlled Architecture	155
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-07ER15880 06/30/2013 Burns	SC-22.12	Topological Structural Relationships, Cation-Cation Interactions, and Properties of U(VI), Np(V), Th(IV) Compounds	135
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-00ER41145 07/31/2012 Losecco	SC-25	Research in CP Violation in the B Meson Sector & OJI Task-Optimizing Higgs Discovery Prospects at the Fermilab	155
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-95ER40934 06/14/2013 Mathews	SC-26.1	Nuclear Properties at Extreme Density, Temperature, Spin and Isospin	190

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-10ER64986 06/14/2013 Burns	SC-23.1	Inorganic Controls on Neptunium Mobility in the Subsurface	209
NOTRE DAME, UNIVERSITY OF Notre Dame, IN	DE-FG02-11ER65264 08/31/2014 Bohn	SC-23.2	In Situ Correlated Molecular Imaging of Chemically Communicating Microbial Communities	451
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54979 12/31/2013 Hassanein	SC-24.2	Integrated Prediction and Benchmarking of Material Damage and Lifetime Analysis During Major Plasma Instabilities in	960
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54990 05/14/2014 Allain	SC-24.2	Deciphering the PMI Surface Chemistry of Lithium-based PFCs and its Effects on High Performance Plasmas in NSTX	110
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER54991 05/14/2014 Hassanein	SC-24.2	Integrated Study of Lithium Expansion and Contamination in the SOL of the Liquid Lithium Divertor of NSTX During Normal and	190
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER64131 09/14/2012 Nnanna	SC-23.2	Purdue University Calumet Water Environmental Institute	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER55015 06/14/2012 Allain	SC-24.2	An In-Situ Materials Analysis Particle Probe (MAPP) Diagnostic to Study Particle Density Control and Hydrogenic Fuel	133
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-11ER46819 05/14/2014 Csathy	SC-22.22	Integrated Growth and Ultra-Low Temperature Transport Study of the 2nd Landau Level of the Two-Dimensional Electron Gas	235
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER41681 05/31/2013 Molnar	SC-26.1	Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	22
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER46696 05/14/2013 Durbin	SC-22.3	Picosecond X-ray Detector for Synchrotrons	138
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46398 07/14/2013 Koslowski	SC-22.22	Plastic Strain Recovery in Nanocrystalline Materials	84
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER46399 07/31/2013 Strachan	SC-22.22	Turnable Hetero-Epitaxial Shape Memory Alloys	80
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-91ER40681 04/30/2012 Shipsey, Barnes, Gutay, Miller	SC-25	Experimental and Theoretical High Energy Physics Program	1,976
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-07ER15905 08/31/2014 Chapple	SC-22.13	Regulation of Carbon Allocation to Phenylpropanoid Metabolism	168
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-88ER40412 12/31/2014 Scharenberg	SC-26.1	The Experimental Study of the Phase Structure of Strongly Interacting Matter	690

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (IN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15807 01/14/2013 Cooks	SC-22.12	Preparation of Chemically Functionalized Surfaces through Ion Soft Landing and their Utilization in Heterogeneous Reactions	162
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15794 06/30/2012 Abu-Omar	SC-22.12	Oxo Catalyst for the Conversion of Lignocellulosic Biomass	155
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-06ER15804 07/14/2012 Murphy	SC-22.13	Functional Analysis and Genetic Manipulation of Plant ABCB Organic Ion Transporters	165
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER26023 08/31/2013 Xiu	SC-21.1	Advanced Dynamically Adaptive Algorithms for Stochastic Simulations on Extreme Scales	50
PURDUE UNIVERSITY West Lafayette, IN	DE-FC02-08ER25864 08/14/2012 Pothen	SC-21.1	Combinatorial Scientific Computing and Petascale Simulations Institute	411
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-11ER16226 05/31/2012 Ribeiro	SC-22.12	Kokes Awards for the 22nd North American Catalysis Society Meeting, June 5-10, 2011	25
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER16022 07/14/2012 Pyrak-Nolte	SC-22.12	The Physics of Swarms in Fracture Networks: Integration of Seismic Characterizaion and Controlled Micro-Transport	116
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-09ER16084 08/31/2014 Savikhin	SC-22.13	Novel Photoprotection Mechanisms in Closely Packed Photosynthetic Antenna Complexes and in Artificial	183
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10ER16184 07/31/2013 Pushkar	SC-22.13	SISGR - Understanding Electronic and Atomic Requirements in Catalytic Water Oxidation	150
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-10CH20014 12/31/2011 Nnanna	SC-23	Purdue University Calumet Water Institute	0
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-96ER14641 04/30/2012 Basaran	SC-22.12	Electrohydrodynamic Tip Streaming	135
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-96ER14656 02/14/2013 Zwier	SC-22.11	Isomer-specific spectroscopy and isomerization in aromatic fuels	170
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-04ER15526 05/14/2013 Staiger	SC-22.13	Regulation of Actin Filament Ends: The Role of Capping Proteins in Stochastic Dynamics and Organelle Behavior	170
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15408 06/30/2014 Ribeiro	SC-22.12	Fundamental Studies on the Kinetics of Oxidation Reactions	155
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-05ER15752 05/31/2014 Choi	SC-22.13	Construction of High Performance, Low Cost Photoelectrodes with Controlled Polycrystalline Architectures	175

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (IN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15391 10/31/2013 Lucht	SC-22.11	Advanced Nonlinear Optical Methods for Quantitative Measurements in Flames	120
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-03ER15466 09/14/2012 Delgass	SC-22.12	Catalyst Design by Discovery Informatics	780
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-00ER15105 05/31/2012 McLuckey	SC-22.12	The Dynamics and Thermodynamics of Gaseous Macro-ions	150
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-11ER65329 09/14/2014 Zhuang	SC-23.1	Collaborative Research: Quantifying Climate Feedbacks of the Terrestrial Biosphere Under Thawing Permafrost Conditions in the Arctic	360
PURDUE UNIVERSITY West Lafayette, IN	DE-FG02-08ER64702 09/14/2012 Carpita	SC-23.2	Translational Genomics for the Improvement of Switchgrass	0

Total for IN :

20,449

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (KS)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER15504 12/31/2012 Chu	SC-22.11	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	140
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-04ER41308 04/30/2013 Ralston	SC-25	Research in Theoretical Particle Physics	160
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-96ER40981 05/31/2014 Sanders	SC-26.1	Research in Heavy-Ion Nuclear Physics at CMS	340
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-07ER54940 07/31/2014 Medvedev	SC-24.2	Studies of HED Plasmas with Self-Generated Magnetic Fields	150
ER FOR RESEARCH, INC., UNIV OF Lawrence, KS	DE-FG02-11ER65239 09/14/2014 Mechem	SC-23.1	Collaborative Research: Cloudiness Transitions Within Shallow Marine Clouds Near the Azores	132
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-99ER41093 10/31/2013 Bolton	SC-25	Heavy Quark and Neutrino Physics	735
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-08ER46504 06/30/2012 Jankowiak	SC-22.21	Excitation Energy Transfer in Natural Photosynthetic Complexes and Chlorophyll Trefoils: Hole-Burning and Single	0
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-06ER15832 08/31/2012 Lin	SC-22.11	Time-Resolved Chemical Imaging of Molecules by High-Order Harmonics and Ultra Short Rescattering Electrons	145
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-09ER16095 09/14/2012 Ito	SC-22.12	SISGR - Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores	267
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-09ER16115 09/14/2012 Ben-Itzhak	SC-22.11	SISGR - PULSAR: A High-Repetition-Rate, High-power, CE Phase-Locked Laser for the J.R. Macdonald Laboratory	0
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-11ER16281 08/31/2014 Jankowiak	SC-22.13	Resonant and Non-Resonant Hole-Burning and Delta Fluorescence Line-Narrowing Study of BChls in Excitonically Coupled	160
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-10ER16202 09/14/2013 Klabunde	SC-22.12	Nanoscale Molecules Under Thermodynamic Control: "Digestive Ripening" or "Nanomachining"	150
KANSAS STATE UNIVERSITY Manhattan, KS	DE-FG02-86ER13491 02/14/2013 Ben-Itzhak	SC-22.11	Structure and Dynamics of Atomics, Ions, Molecules and Surfaces	2,500
Total for KS :				4,984

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (KY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-08ER41557 04/14/2014 Plaster	SC-26.1	Neutrons and Fundamental Symmetries	150
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-84ER40154 01/31/2013 Liu	SC-26.1	Lattice QCD Calculation of Hadronic Spectrum, Nucleon Structure, and Finite Density	193
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-07ER46375 07/14/2014 Grulke	SC-22.21	Nanoscale Materials and Architectures for Energy Conversion	600
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-00ER45817 03/31/2012 Menon	SC-22.22	Magnetism in Non-Traditional Materials	118
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-97ER45653 05/14/2014 De Long	SC-22.22	Competing Interactions in Complex Transition Metal Oxides	145
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-96ER40989 07/14/2014 Gardner	SC-26.1	Fundamental Physics with Hadrons and Nuclei, from Quarks to the Cosmos	110
KENTUCKY, UNIV. OF RES FOUND Lexington, KY	DE-FG02-99ER41101 04/30/2014 Korsch	SC-26.1	Fundamental Studies of Hadronic Structure	190
LE RES. FOUND., INC., UNIV. OF Louisville, KY	DE-FG02-98ER41089 09/14/2012 Brown	SC-25	Contributions to Studies of CP Violation and Hadronic Physics with the Babar Collaboration	105
Total for KY :				1,611

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (LA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
LOUISIANA BOARD OF REGENTS Baton Rouge, LA	DE-FG02-04ER46136 04/14/2012 Khonsari	SC-22.21	Ubiquitous Computing and Monitoring System (UCoMS) for Discovery and Management of Energy Resources	0
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-09ER25922 09/14/2012 Wan	SC-21.1	Stochastic Nonlinear Data-Reduction Methods with Detection and Prediction of Critical Rare Event	42
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-91ER40617 03/31/2013 Matthews, Metcalf	SC-25	Research in Elementary Particle Physics and Cosmic Ray Physics	206
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-01ER15178 10/31/2013 Poliakoff	SC-22.11	Molecular photoionization studies of nucleobases and correlated systems	155
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-98ER20310 08/31/2014 Bricker	SC-22.13	Photosystem II: Structure and Assembly	360
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-10ER46717 06/30/2013 Draayer	SC-22.21	Ab Initio Nuclear Structure and Reaction Calculations for Rare Isotopes	15
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-09ER46649 09/14/2012 Plummer	SC-22.21	SISGR - Emerging Functionality in Transition-Metal Compounds Driven by Spatial Confinement	380
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-07ER46420 07/31/2013 Adams	SC-22.22	Quantum Transport in Thin Film Correlated Insulators	170
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-08ER46492 06/14/2012 Vekhter	SC-22.21	Inhomogeneous Disordered Dirac Fermions: From Heavy Fermion Superconductors to Graphene	0
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-09ER46576 07/31/2014 Spivey	SC-22.11	Computational Catalysis and Atomic-Level Synthesis of Materials: Building Effective Catalysts from First Principles - EFRS	2,377
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-10ER41707 08/31/2013 Blackmon	SC-26.2	The Structure of Nuclei far From Stability	9
ATE UNIVERSITY AND A&M COLLEGE Baton Rouge, LA	DE-FG02-96ER40978 03/14/2014 Blackmon	SC-26.1	Studying Nuclei Far From Stability	208
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-10ER46723 07/31/2013 Wobisch	SC-22.21	Searches for New Physics Phenomena in Hadronic Jet Production in the Early ATLAS Data	8
LOUISIANA TECH UNIVERSITY Ruston, LA	DE-FG02-99ER41117 04/14/2013 Sawyer	SC-25	Research in High Energy Physics	240
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-05ER15702 11/14/2011 Diebold	SC-22.12	Towards a Molecular-Scale Understanding of Surface Chemistry and Photocatalysis on Metal Oxides: Surface Science Experiments and First-Principles Theory	0

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (LA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-96ER14617 05/31/2014 Schmehl	SC-22.13	Energy, Electron Transfer and Photocatalytic Reactions of Visible Light Absorbing Transition Metal Complexes	179
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FC02-06ER64298 02/28/2013 Tornqvist	SC-23.1	Center for Riparian and Coastal Ecosystem Research	0
TULANE EDUCATIONAL FUND New Orleans, LA	DE-FG02-10ER46719 07/14/2013 Blake	SC-22.21	Antibodies to Radionuclides: Engineering by Surface Display for Immunosensors	15
XAVIER UNIVERSITY OF LOUISIANA New Orleans, LA	DE-FG02-11ER65272 08/31/2014 Blake	SC-23.2	Real Time Absorbance Measurements of Electron Transfer Reactions in Live Bacteria that Reduce Extracellular Iron	170
Total for LA :				4,534

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
AERODYNE RESEARCH, INC. Billerica, MA	DE-FG02-11ER65149 04/14/2014 Worsnop	SC-23.1	COLLABORATIVE RESEARCH: Study of Aerosol Sources and Processing at the GVAX Pantnagar Supersite	239
ALPHAMED, INC Sheldonville, MA	DE-FG02-11ER65129 02/29/2012 Moore	SC-23.2	Targeted Radiotherapy for Melanoma	291
N ACADEMY OF ARTS AND SCIENCES Cambridge, MA	DE-FG02-11ER35917 05/14/2012 Berlowitz	SC-2	Alternative Energy Future	300
RIC & ENVIRONMENTAL RES., INC. Lexington, MA	DE-FG02-11ER65306 09/14/2014 Iacono	SC-23.1	Enhancing Cloud Radiative Processes and Radiation Efficiency in the Advanced Research Weather Research and Forecasting (WRF) Model	185
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-93ER14359 06/30/2012 Scott	SC-22.12	High Temperature Chemistry of Aromatic Hydrocarbons	165
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-91ER20025 08/31/2012 Roberts	SC-22.13	Osmoregulation in Methanogens	130
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-09ER46633 09/14/2012 Wang	SC-22.22	SISGR - Focused Research Center in Correlated Electronic Materials	390
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-10ER46755 08/14/2013 Padilla	SC-22.22	Metamaterials as a Platform for the Development of Novel Materials for Energy Applications	100
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-00ER45805 03/14/2014 Ren	SC-22.22	High Performance Bulk Thermoelectric Materials	150
BOSTON COLLEGE, TRUSTEES OF Chestnut Hill, MA	DE-FG02-11ER65185 08/14/2014 Davidovits	SC-23.1	Laboratory Experiments and Instrument Intercomparison Studies of Carbonaceous Aerosol Particles	399
BOSTON UNIVERSITY Boston, MA	DE-FG02-11ER65328 09/14/2014 Anderson	SC-23.1	Detection of Historical and Future Precipitation Variations and Extremes Over the Continental United States	387
BOSTON UNIVERSITY Boston, MA	DE-FG02-11ER65232 09/14/2014 Finzi	SC-23.1	Partitioning CO2 Fluxes with Isotopologue Measurements and Modeling to Understand Mechanisms of Forest Carbon Sequestration	79
BOSTON UNIVERSITY Boston, MA	DE-FG02-03ER46037 10/31/2012 Ludwig	SC-22.21	Real-time X-ray Studies of Surface and Thin Film Processes	0
BOSTON UNIVERSITY Boston, MA	DE-FG02-98ER45680 12/14/2013 Smith	SC-22.22	Probing the Origins of Conductivity Transitions in Correlated Solids: Experimental Studies of Electronic Structure in Vanadium Oxides	150
BOSTON UNIVERSITY Boston, MA	DE-FG02-85ER45222 06/30/2012 El-Batanouny	SC-22.23	Investigations of Surface Structural, Dynamical and Magnetic Properties of Systems Exhibiting Multiferroicity,	145

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46332 12/31/2012 Paiella	SC-22.23	Plasmonic Nanostructures Integrated with Semiconductor Light Emitting Materials for Enhanced Efficiency and Functionality	155
BOSTON UNIVERSITY Boston, MA	DE-FG02-06ER46316 11/14/2012 Chamon	SC-22.22	Quantum Nanowire Multi-Connections	114
BOSTON UNIVERSITY Boston, MA	DE-FG02-09ER46643 09/14/2012 Averitt	SC-22.21	SISGR - Multifunctional Materials Research Using Ultrafast Optical Spectroscopy	149
BOSTON UNIVERSITY Boston, MA	DE-FG02-08ER46512 08/31/2014 Castro Neto	SC-22.22	The Physics of Graphene	110
BOSTON UNIVERSITY Boston, MA	DE-FG02-07ER64483 09/14/2012 Collins	SC-23.2	A Systems Biology Platform for Characterizing Regulatory and Metabolic Pathways that Influence and Control Microbial Hydrogen Production	0
BOSTON UNIVERSITY Boston, MA	DE-FG02-08ER64564 06/14/2012 Knyazikhin	SC-23.1	Use of ARM Measurements of Spectral Zenith Radiance for Better Understanding of 3D Cloud-Radiation Processes and	0
BOSTON UNIVERSITY Boston, MA	DE-FG02-09ER64797 08/31/2012 Goldstein	SC-23.2	Non-Invasive Detection and Molecular Analysis of Early Low X-Ray Dose Effects to the Lens	341
BOSTON UNIVERSITY Boston, MA	DE-FG02-11ER16253 02/14/2015 Doerrler	SC-22.13	Development of Earth-Abundant Transition Metal Catalysts for Water Oxidation	100
BOSTON UNIVERSITY Boston, MA	DE-FG02-95ER14498 11/30/2013 Klein	SC-22.12	Statistical Mechanics of Defect-Mediated Dynamics in Complex Geomaterials	174
BOSTON UNIVERSITY Boston, MA	DE-FC02-06ER41440 09/14/2012 Brower, Rebbi	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	211
BOSTON UNIVERSITY Boston, MA	DE-FG02-91ER40676 01/31/2013 Stone	SC-25	Research in Particle Physics	2,166
BOSTON UNIVERSITY Boston, MA	DE-FC02-10ER25994 08/31/2013 Appavoo	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	63
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-92ER40706 12/31/2012 Blocker	SC-25	Research in Elementary Particle Physics	937
BRANDEIS UNIVERSITY Waltham, MA	DE-FG02-05ER15699 08/14/2013 Kern	SC-22.12	Catalysis, Dynamics and Stability of Enzymes Under Extreme Conditions	170
CLARK UNIVERSITY Worcester, MA	DE-FG02-02ER15367 01/14/2013 Kudrolli	SC-22.12	Physics of Channelization: Theory, Experiment, and Observation	65

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
HARVARD COLLEGE Boston, MA	DE-FG02-10ER46751 05/14/2014 Aizenberg	SC-22.23	Actuation of Bioinspired, Adaptive "HAIRS" Powered by Responsive Hydrogels	410
HARVARD COLLEGE Boston, MA	DE-FG02-02ER63445 11/30/2016 Church	SC-23.2	Microbial Ecology, Proteogenomics and Computational Optima	2,191
HARVARD COLLEGE Boston, MA	DE-FG02-05ER64089 12/31/2012 Little	SC-23.2	Bystander Effects of Ionizing Radiation	52
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-91ER40654 04/30/2012 Franklin, Stubbs, Strominger	SC-25	Research in High Energy Physics	2,040
HARVARD UNIVERSITY Cambridge, MA	DE-FC02-06ER25790 09/14/2012 Kaxiras	SC-21.1	Hierarchical Petascale Simulation Framework for Stress Corrosion Cracking	0
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-09ER16104 09/14/2012 Xie	SC-22.11	SISGR: Room Temperature Single-Molecule Detection and Imaging by Stimulated Emission Microscopy	220
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-02ER15316 06/14/2014 Doyle	SC-22.11	Ultracold Molecules: Physics in the Quantum Regime	140
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-88ER13861 03/31/2012 Dalgarno	SC-22.11	Theoretical Investigations of Atomic Collision Physics	135
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-84ER13289 11/30/2012 Friend	SC-22.12	Molecular-Scale Understanding of Selective Oxidative Transformation of Alcohols Promoted by Au and Au-Based Alloys	180
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-08ER64556 05/14/2012 Kuang	SC-23.1	Using ARM Observations to Evaluate and Improve Wave-Convection Interactions in Global Climate Models: An Extended Single Column Modeling Approach	0
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-06ER46335 05/14/2013 Aziz	SC-22.23	Nanoscale Morphology Evolution under Ion Irradiation	143
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-00ER45852 01/31/2014 Whitesides	SC-22.23	Dynamic Self-Assembly, Emergence, and Complexity	200
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-01ER45921 03/14/2012 Parks	SC-22.21	Electron Diffraction Determination of Nanoscale Structures	0
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-08ER46513 08/31/2014 Heller	SC-22.22	Theory of Electron Imaging in Small Devices	120
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-07ER46422 05/14/2013 Westervelt	SC-22.22	Electron Imaging in Graphene	140

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-09ER46646 09/14/2012 Yacoby	SC-22.21	SISGR - Transport and Imaging of Mesoscopic Phenomena in Single and Bilayer Graphene	400
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65258 08/31/2014 Xie	SC-23.2	Study of Plant Cell Wall Polymers Affected by Metal Accumulation Using Stimulated Raman Scattering Microscopy	350
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65259 08/31/2014 Marx	SC-23.2	Modeling, Patterning and Evolving Syntrophic Communities that Link Fermentation to Metal Reduction	529
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65236 09/14/2015 Martin	SC-23.1	The ARM Climate Research Facility in the Amazon Basin	51
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65317 09/14/2014 Moorcroft	SC-23.1	Partitioning CO2 Fluxes with Isotopologue Measurements and Modeling to Understand Mechanisms of Forest Carbon Sequestration	62
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65302 09/14/2013 Hansel	SC-23.1	In-Situ Generation of Iron-Chromium Precipitates for Long Term Immobilization of Chromium at the Hanford 100H Site	28
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65284 09/14/2014 Martin	SC-23.1	Process Studies of Climatically Relevant Parts of the Aerosol Life Cycle: Chamber Experiments on the Role of Aqueous-Phase Chemistry in CCN Activity of Secondary	292
HARVARD UNIVERSITY Cambridge, MA	DE-FG02-11ER65287 09/14/2013 Johnston	SC-23.1	Development of New and Integrated Stable Isotope Tools for Characterizing Nitrogen-Uranium Cycling in Subsurface	149
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64648 08/14/2012 Melillo	SC-23.1	Impacts of Climate Change on Biofuels Production	160
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-08ER64517 12/31/2012 Melillo	SC-23.1	Effects of Warming on Tree Species' Recruitment in Deciduous Forests of the Eastern United States	641
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-85ER13361 04/30/2015 Zinder	SC-22.13	Investigations into the Metabolic Diversity of Microorganisms as Part of Microbial Diversity	45
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-11ER65202 08/31/2013 Tang	SC-23.1	Quantifying the Control of Plant Photosynthesis on Root Respiration by Measuring and Manipulating Photosynthate	149
MARINE BIOLOGICAL LABORATORY Woods Hole, MA	DE-FG02-11ER65332 09/14/2014 Melillo	SC-23.1	Collaborative Research: Quantifying Climate Feedbacks of the Terrestrial Biosphere Under Thawing Permafrost Conditions in the Arctic	270
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64592 07/14/2012 Hill	SC-23.1	Collaborative Research: Abrupt Climate Change and the Atlantic Meridional Overturning Circulation - Sensitivity and	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER65331 09/14/2014 Schlosser	SC-23.1	Collaborative Research: Quantifying Climate Feedbacks of the Terrestrial Biosphere Under Thawing Permafrost Conditions in the Arctic	270

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46636 09/14/2012 Tuller	SC-22.22	SISGR - Chemomechanics of Far-From-Equilibrium Interfaces (COFFEI)	880
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46668 09/14/2012 Chiang	SC-22.22	Electrochemically-Driven Phase Transitions in Battery Storage Compounds	196
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER46793 07/14/2016 Jarrillo-Herrero	SC-22.22	Quantum Transport in Topological Insulator Nanoelectronic Devices	152
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER46794 07/15/2016 Gedik	SC-22.21	Optical Manipulation and Detection of Emergent Phenomena in Topological Insulators	175
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46474 06/30/2013 Baldo	SC-22.23	High Efficiency Biomimetic Organic Solar Cells	275
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER46454 08/31/2013 Bawendi	SC-22.22	Probing Nanocrystal Electronic Structure and Dynamics in the Limit of Single Nanocrystals	235
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46488 08/14/2014 Strano	SC-22.23	Self Assembly and Self-Repair of Novel Photosynthetic Reaction Center/Single Walled Carbon Nanotube Complexes for Solar	218
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46556 07/31/2013 Moncton	SC-22.21	Optics for Advanced Neutron Imaging and Scattering	281
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER46577 07/31/2014 Chen	SC-22.22	Solid-State Solar-Thermal Energy Conversion Center (S3TEC CENTER) -- EFRCC	3,280
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46514 07/31/2014 Ashoori	SC-22.22	Novel Temperature Limited Tunneling Spectroscopy of Quantum Hall Systems	175
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46515 07/31/2014 Kastner	SC-22.22	Measurement of Single Electronic Charging of Semiconductor Nano-Crystal	149
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER46521 08/14/2014 Gedik	SC-22.21	Ultrafast Electronic and Structural Dynamics in Quantum Materials	175
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-10ER41721 12/31/2011 Bertschinger	SC-25	Conference for Undergraduate Women in Physics	61
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER41726 08/31/2012 Milner	SC-26.2	Development of a Polarized 3He Ion Source for RHIC	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER41727 02/29/2012 Redwine	SC-26.2	High Intensity Polarized Gun	586

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER41729 04/30/2012 Milner	SC-25	Particles and Nuclear International Conference PANIC11 at MIT in July 2011	35
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER41741 07/14/2016 Thaler	SC-25	Interpreting New Data from the High Energy Frontier	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-90ER45429 10/31/2014 Chen	SC-22.21	Neutron and X-Ray Scattering Studies of the Liquid-Liquid Transition in Supercooled Confined Water and the Phonon-Like Collective Excitation in	295
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-96ER45571 08/31/2013 Ceder	SC-22.22	First Principles Determination of Structure, Thermodynamics, and Transport in Metals and Oxides	173
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46149 05/31/2014 Benedek	SC-22.23	Self-Assembling Biological Springs: Force Transducers on the Micron and Nanoscale	125
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-04ER46134 11/30/2013 Lee	SC-22.21	A Unified Effort for Crystal Growth, Neutron Scattering, and X-ray Scattering Studies of Novel Correlated Electron	288
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER46076 11/30/2012 Lee	SC-22.22	Strongly Correlated Electronic Systems: Local Moments and Conduction Electrons	160
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-02ER45977 12/31/2013 Chen	SC-22.22	Near-field Thermal Radiation Between Two Objects at Extreme Separations	256
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-03ER54700 03/31/2012 Coppi	SC-24.2	Physics of High Energy Plasmas	412
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-04ER54802 02/14/2016 Sugiyama	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	65
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54859 01/14/2012 Sugiyama	SC-24.2	SciDAC - Center for Plasma Edge Simulation	66
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER54855 01/14/2013 Ramos	SC-24.2	SciDAC - Simulation of Wave Interactions with MHD	100
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-06ER54891 07/31/2012 Hutchinson	SC-24.2	Interactions of a Flowing Plasma with a Collecting Sphere	84
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER54836 05/31/2012 Chen	SC-24.2	Exploration of Plasma Jets Approach to High Energy Density Physics	60
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER54235 12/14/2012 Porkolab	SC-24.2	Experimental Research in Advanced Physics and Technology	551

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-93ER54186 11/14/2012 Minervini	SC-24.2	Fusion Development and Technology	1,370
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER54525 03/14/2014 Bonoli	SC-24.2	Full-wave Studies of High Harmonic Heating in NSTX with Application to Transport Analysis, Fast Ion Interactions and Antenna Coupling	60
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-99ER54512 10/31/2013 Marmar, Porkolab, Hutchinson	SC-24.2	Alcator C-Mod Fusion Research Program	23,716
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER54458 10/31/2012 Kesner	SC-24.2	Levitated Dipole Experiment	290
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER54109 11/14/2011 Catto	SC-24.2	Theoretical Research in Advanced Physics and Technology	1,305
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER46824 08/14/2014 Olsen	SC-22.21	Thermodynamics of Self-Assembly in Globular Protein-Polymer Conjugates	250
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER46813 08/14/2016 Dinca	SC-22.23	Electronic and Ionic Conductors from Ordered Microporous Materials	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-01ER54648 03/31/2016 Bonoli	SC-24.2	Center for Simulation of Wave-Plasma Interactions	198
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-08ER54966 02/14/2016 Ernst	SC-24.2	Center for the Study of Plasma Microturbulence	130
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-08ER54969 02/14/2016 Ramos	SC-24.2	MIT PSFC Participation in Center for Extended Magnetohydrodynamics Modeling	65
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER61937 12/14/2013 Prinn, Jacoby	SC-23.1	An Integrated Framework for Climate Change Assessment	1,550
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER55099 07/31/2014 Egedal-Pedersen	SC-24.2	The Electron Diffusion Region in 3D Spontaneous Magnetic Reconnection	180
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER55092 07/14/2016 White	SC-24.2	Electron Temperature Fluctuation Measurements and Transport Model Validation at Alcator C-Mod	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER64597 07/31/2012 Schlosser	SC-23.1	Quantifying Climate Feedbacks From Abrupt Changes in High-Latitude Trace-Gas Emissions	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-11ER16227 06/30/2012 Green, Jr.	SC-22.11	International Conference on Chemical Kinetics at MIT, July 10-14, 2011	9

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER15004 01/14/2013 Rothman	SC-22.12	Physics of Channelization: Theory and Observation	186
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-99ER14988 02/28/2015 Tokmakoff	SC-22.11	Structural Dynamics in Complex Liquids Studied with Multidimensional Vibrational Spectroscopy	606
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-98ER14914 12/14/2013 Green, Jr.	SC-22.11	Computer-Aided Construction of Chemical Kinetic Models	80
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-97ER14760 08/31/2012 Evans	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	369
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-87ER13671 10/31/2014 Field	SC-22.11	Spectroscopic and Dynamical Studies of Highly Energized Small Polyatomic Molecules	160
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-86ER13564 11/30/2012 Schrock	SC-22.12	The Polymerization of Olefins and Alkynes with New Alkylidene Catalysts	170
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15745 10/31/2014 Nocera	SC-22.13	Hangman Catalysts for Photo- and Photoelectro- Chemical Activation of Small Molecules	190
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER15728 06/14/2012 Shao-Horn	SC-22.12	Towards fundamental understanding the mechanisms of oxygen reduction and evolution electrocatalysis on perovskite	80
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-00ER15087 06/30/2014 Nelson	SC-22.11	Nonlinear Materials Spectroscopies Probed by Ultrafast X-Rays	220
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-94ER40818 10/31/2013 Milner	SC-26.1	Research in Nuclear Physics	8,209
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-95ER40919 03/31/2013 Chen	SC-25	Theoretical and Computational Investigation of Periodically Focused Intense Charged Particle Beams	217
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-91ER40648 11/30/2012 Temkin	SC-25	17 GHz High Gradient Accelerator Research	424
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-06ER41444 03/14/2012 Negele	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-05ER41360 10/31/2013 Milner	SC-25	Laboratory for Nuclear Science - High Energy Physics Program	8,060
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-09ER25943 09/14/2012 Marzouk	SC-21.1	Large Scale Optimization for Bayesian Inference in Complex Systems	149

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-10ER25998 08/31/2013 Solar Lezama	SC-21.1	Software Synthesis for High Productivity Exascale Computing	391
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-08ER25858 08/15/2012 Willcox	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	0
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FG02-07ER15839 11/30/2012 Durham	SC-22.12	Rheological Properties of Earth's Upper Mantle at High Pressure: Roles of Melt, Water and Pressure	90
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-11ER26058 08/31/2016 Marzouk	SC-21.1	Quantification of Uncertainty in Extreme Scale Computations (QUEST)	150
MASSACHUSETTS INST. OF TECH. Cambridge, MA	DE-FC02-10ER26009 08/31/2013 Amarasinghe	SC-21.1	ZettaBricks: A Language Compiler and Runtime System for Anyscale Computing	729
CHUSETTS, UNIVERSITY OF LOWELL Lowell, MA	DE-FG02-94ER40848 03/31/2014 Chowdhury	SC-26.1	Single-Particle and Collective Phenomena in Nuclei	228
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-88ER40415 12/31/2014 Miskimen, Kumar	SC-26.1	Precision Tests of QCD and Electroweak Interaction	625
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-92ER40715 12/31/2012 Willocoq, Brau	SC-25	Experimental Elementary Particle Physics Research	469
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-09ER25881 08/31/2012 Katsoulakis	SC-21.1	Multiscale Mathematics & Optimization for Complex Systems	84
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-03ER15421 08/14/2012 Baskin	SC-22.13	Cellulose and the Control of Growth Anisotropy	170
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-05ER15695 11/14/2013 Barnes	SC-22.12	Renewal Application for Chemical Microscopy of Conjugated Polymers (DE-FG02-05ER15695)	129
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-87ER13744 05/31/2014 Jackson	SC-22.11	Theory of the Reaction Dynamics of Small Molecules on Metal Surfaces	165
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-11ER16234 07/14/2016 Dauenhauer	SC-22.12	Natural Catalysts for Molten Cellulose Pyrolysis to Targeted Bio-Oils	160
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-11ER16260 07/31/2012 Vierling	SC-22.13	Hsp100/ClpB Chaperone Function and Mechanism	186
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FC02-02ER63446 08/31/2012 Lovley	SC-23.2	Genome-Based Models to Optimize In Situ Bioremediation of Uranium and Harvesting Electrical Energy from Waste Organic	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-11ER46804 07/14/2016 Hayward	SC-22.23	Crystallization-Driven Assembly of Conjugated-Polymer-Based Nanostructures	150
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-04ER46126 03/14/2014 Russell	SC-22.21	Nanoparticles Assemblies at Fluid Interfaces	168
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-96ER45612 06/14/2013 Russell	SC-22.23	Interfacial Behavior of Polymers: Using Interfaces to Manipulate Polymers	335
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-07ER46466 08/31/2013 Monson	SC-22.22	Modeling the Self-Assembly of Ordered Nanoporous Materials	185
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-07ER46407 07/31/2013 Maroudas	SC-22.22	Surface Engineering by Simultaneous Action of Multiple External Fields	245
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-11ER65304 09/14/2014 Condron	SC-23.1	High-Resolution Model Development to Quantify the Impact of Icebergs on the Stability of the Atlantic Meridional	297
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-11ER65247 09/14/2014 Lovley	SC-23.1	Real Time Monitoring of Rates of Subsurface Microbial Activity Associated With Natural Attenuation and Electron Donor Availability	341
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-10ER64960 05/31/2013 Lovley	SC-23.1	Mechanisms for Electron Transfer Through Pili to Fe(III) Oxide in Geobacter	271
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-10ER64951 05/14/2013 Lovley	SC-23.1	Coupled in Silico Microbial and Geochemical Reactive Transport Models: Extension to Multi-Organism Communities	332
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-10ER64998 06/30/2013 Lovley	SC-23.2	Systems Level Analysis of Function & Adaptive Responses of Methanogenic Consortia	762
USETTS, UNIVERSITY OF, AMHERST Amherst, MA	DE-FG02-11ER65169 08/14/2016 Hazen	SC-23.2	Plant-Microbe Genomic Systems Optimization for Energy	150
HUSETTS, UNIVERSITY OF, BOSTON Boston, MA	DE-FG02-08ER64602 07/31/2012 Antonak	SC-23.2	Boston Environmental Area Coastal Observation Network (BEACON) at the University of Massachusetts Boston	0
ETTS, UNIVERSITY OF, DARTMOUTH Dartmouth, MA	DE-FG02-10ER26022 08/31/2013 Vokkarane	SC-21.1	COMMON: Coordinated Multi-Layer Multi-Domain Optical Network Framework for Large-Scale Science Applications	175
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-09ER64823 08/31/2013 Hanson	SC-23.2	Training Program in Radiochemistry and Radiotracer Development	1,199
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-11ER46818 08/31/2014 Bansil	SC-22.22	CMCSN: Computational Time-Resolved and Resonant X-Ray Scattering of Strongly Correlated Materials	320

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46352 12/14/2013 Bansil, Markiewicz	SC-22.22	Electronic Structure, Spectroscopy, and Correlation Effects in Novel Materials	261
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-07ER46400 07/14/2013 Karma	SC-22.22	Bridging Atomistic and Continuum Scales in Phase-Field Modeling of Stressed Polycrystalline Materials with Solid/Liquid Interfacial Defects	146
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER46711 06/30/2013 Lewis	SC-22.22	Magnetostructural Materials	184
NORTHEASTERN UNIVERSITY Boston, MA	DE-FG02-10ER64944 05/31/2012 Gu	SC-23.1	Quantitative Characterization of Cell Aggregation/Adhesion as Predictor for Distribution and Transport of Microorganisms in Subsurface Environment	25
NIAN ASTROPHYSICAL OBSERVATORY Cambridge, MA	DE-FG02-09ER41619 07/31/2013 Benbow	SC-25	Expanding the Discovery Potential of Veritas Via Moonlight Observations	85
NIAN ASTROPHYSICAL OBSERVATORY Cambridge, MA	DE-FG02-91ER40635 04/30/2013 Benbow	SC-25	The Application of Two Dimensional Imaging to Very High Energy Gamma Ray Astronomy	470
EARCH & SPECIALTY PROJECT CORP Boston, MA	DE-FG02-09ER64808 07/31/2012 Hahnfeldt	SC-23.2	Implications of Population Heterogeneity for Low-Dose Risk	472
EARCH & SPECIALTY PROJECT CORP Boston, MA	DE-FG02-09ER64814 07/31/2014 Hlatky	SC-23.2	Multi-Scale Systems Biology of Low-Dose Carcinogenesis Risk	1,500
TUFTS UNIVERSITY Medford, MA	DE-FG02-09ER55039 08/14/2012 Hopwood	SC-24.2	Instabilities in Nonthermal Atmospheric Pressure Plasma	93
TUFTS UNIVERSITY Medford, MA	DE-FG02-92ER40702 04/30/2012 Mann, Schneps	SC-25	High Energy Physics at Tufts University	944
TUFTS UNIVERSITY Medford, MA	DE-FG02-07ER15900 01/31/2013 Garven	SC-22.12	Physiochemical Evidence of Faulting Processes and Modeling of Fluid Flow in Evolving Fault Systems in Southern	117
TUFTS UNIVERSITY Medford, MA	DE-FG02-06ER15799 06/30/2012 Rybak-Akimova	SC-22.12	Mechanism-Based Design of Biomimetic Green Oxidation Catalysts	155
TUFTS UNIVERSITY Medford, MA	DE-FG02-10ER16170 06/30/2014 Sykes	SC-22.11	A Single-Molecule Approach for Understanding and Utilizing Surface and Subsurface Absorption to Control Chemical	132
TUFTS UNIVERSITY Medford, MA	DE-FG02-05ER15730 09/14/2014 Flytzani-Stephanopou	SC-22.12	Metal ion sites on oxide supports as catalysts for the water-gas shift and methanol steam reforming reactions	300
TUFTS UNIVERSITY Medford, MA	DE-FG02-09ER64780 07/31/2012 Pennell	SC-23.1	Design and Application of Microbial Uranium Reduction Monitoring Tools (MURMoT)	17

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (MA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WOODS HOLE OCEANOGRAPHIC INST. Woods Hole, MA	DE-FG02-11ER65352 09/14/2014 Kwon	SC-23.1	Collaborative Project: Ocean-Atmosphere Interaction from Meso to Planetary Scale: Mechanisms, Parameterization, and Variability	49
WOODS HOLE RESEARCH CENTER Falmouth, MA	DE-FG02-11ER65316 09/14/2014 Davidson	SC-23.1	Partitioning CO2 Fluxes With Isotopologues Measurements and Modeling to Understand Mechansims of Forest Carbon Sequestration	108
ORCESTER POLYTECHNIC INSTITUTE Worcester, MA	DE-FG02-10ER26032 08/31/2013 Walker	SC-21.1	Anderson Acceleration for Fixed-point Iterations	138
Total for MA :				89,285

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
AN SOCIETY OF PLANT BIOLOGISTS Rockville, MD	DE-FG02-11ER65166 03/14/2013 Fagen	SC-23.2	Plant Science Research Summit: Grand Challenges in Plant Science Research for the 21st Century, September 22-23, 2011	48
S DEPT OF, ABERDEEN PROVING GR Aberdeen Proving Ground, MD	DE-AI02-11ER55100 06/30/2012 McMorrow	SC-24.2	Tritium Production	481
GLOBAL ENVIRONMENT AND SOCIETY Calverton, MD	DE-FG02-11ER65244 09/14/2014 Stan	SC-23.1	To Conduct & Analyze Simulations of Anthropogenic Climate Change Based on a Version of the CESM in Which the	328
AL EPIDEMIOLOGY INSTITUTE, LTD Rockville, MD	DE-FG02-10ER64954 04/15/2012 Boice	SC-23.2	Epidemiologic Study of One Million American Workers and Military Veterans Exposed to Ionizing Radiation	0
G VENTER INSTITUTE, EAST COAST Rockville, MD	DE-FG02-11ER65261 08/31/2014 Methe	SC-23.2	The Study of Microbial Environmental Processes Related to the Natural Attenuation of Uranium at the Rifle Site	537
G VENTER INSTITUTE, EAST COAST Rockville, MD	DE-FG02-11ER65262 08/31/2014 Allen	SC-23.2	Integrated Systems Biology of Metabolic and Transcriptional Networks in a Model Photosynthetic Microbe	644
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14662 11/14/2014 Meyer	SC-22.13	Electron Transfer Dynamics in Efficient Molecular Solar Cells	145
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-96ER14616 12/31/2014 Sverjensky	SC-22.12	Predictive Surface Complexation Modeling	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-91ER14189 12/14/2014 Yarkony	SC-22.11	Theoretical Studies of the Reactions, and the Spectroscopy of Radical Species Relevant to Combustion Reactions and	80
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-89ER14074 12/31/2014 Veblen	SC-22.12	Crystal Chemistry of Toxic Metal Sequestration	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-05ER15727 07/14/2012 Erlebacher	SC-22.12	Engineering Catalytic Nanoporous Metals for Reactions Important to the Hydrogen Economy	80
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER16094 12/15/2012 Roth	SC-22.12	SISGR - Isotopic Studies of O-O Bond Formation During Water Oxidation	165
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FC02-11ER26055 08/31/2016 Knio	SC-21.1	Quantification of Uncertainty in Extreme Scale Computations (QUEST)	150
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER25888 08/31/2012 Knio	SC-21.1	Quantifying Prediction Fidelity in Multiscale Multiphysics Simulations	75
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-03ER46056 01/31/2013 Ma	SC-22.22	Amorphous Structures and Polymorphs of the Phase-Change Ge ₂ Sb ₂ Te ₅ Chalcogenide Glass	150

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46465 05/14/2013 Katz	SC-22.23	Charging and Polarization of Organic Semiconductors in Energy-Efficient Circuits and Energy Capture Models: Synthesis, Electronics, and Spectroscopy	274
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-07ER46437 08/14/2014 Hemker	SC-22.22	In Situ Characterization of Stress-Coupled Grain Boundary Migration	210
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER46558 05/31/2012 Bowen	SC-22.21	Measuring Complementary Electronics Structure Properties of Both Deposited and Gas Phase Clusters by using STM, UPS, and PES	167
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-08ER46544 08/31/2014 Broholm	SC-22.21	Institute for Quantum Matter at Johns Hopkins University	1,241
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER46648 09/14/2012 Hufnagel	SC-22.21	SISGR - In Situ Characterization and Modeling of Formation Reactions Under Extreme Heating Rates in Nanostructured Multilayer Foils	500
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-10ER46752 08/31/2013 Tovar	SC-22.23	Self-Assembly of PI-Conjugated Peptides In Aqueous Environments Leading To Energy-Transporting Bioelectrical	190
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-09ER55012 02/29/2012 Stutman	SC-24.2	Soft X-Ray Measurements of Transport and MHD Activity in the Core and Edge NSTX Plasma	345
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-86ER53214 12/31/2012 Finkenthal	SC-24.2	Development of Advanced XUV Diagnostics Systems, Components and Devices for Fast Electron Temperature and Particle Density	500
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-08ER46463 02/29/2012 Guikema	SC-23.1	Collaborative Proposal: Climate-Induced Changes in Hurricane Winds, Surge, and Risk to Electric Power Systems	0
JOHNS HOPKINS UNIVERSITY Baltimore, MD	DE-FG02-11ER65308 09/14/2014 Gnanadesikan	SC-23.1	Collaborative Project: Mode and Intermediate Water in Earth System Models	96
LEGIN GROUP, INC. Germantown, MD	DE-AC02-06ER12270 12/14/2011 Clark	SC-29	Administrative and Professional Support Services for the SBIR and STTR Programs	619
LIFE SCIENCES RES. FOUNDATION Baltimore, MD	DE-FG02-11ER16275 08/31/2014 Brown	SC-22.13	Genetic Analysis of Ca ²⁺ Priming in Arabidopsis Guard Cell Stomatal Closure in Response to the Drought Hormone Abscisic	57
MARYLAND, UNIV OF BIOTECH INST Baltimore, MD	DE-FG02-07ER64502 09/14/2012 Orban	SC-23.2	Annotation of Novel Enzymatic Functions in Methanogens	0
YLAND, UNIVERSITY OF BALTIMORE Baltimore, MD	DE-FG02-08ER64569 06/14/2012 Varnai	SC-23.1	Parameterization and Analysis of 3-D Solar Radiative Transfer in Clouds	0
UNIVERSITY OF BALTIMORE COUNTY Catonsville, MD	DE-FG02-10ER26034 08/31/2013 Draganescu	SC-21.1	Multilevel Techniques for Large-Scale Inverse Problems	126

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FC02-11ER26054 08/31/2016 Hollingsworth	SC-21.1	Institute for Sustained Performance, Energy, and Resilience (SUPER)	215
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-07ER15916 08/31/2012 Zhu	SC-22.12	Collaborative Research: Evolution of Pore Structure and Permeability of Rocks Under Hydrothermal Conditions	109
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-07ER15883 08/31/2014 Sze	SC-22.13	Endomembrane cation transporters and membrane trafficking	150
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER25894 08/14/2012 Tits	SC-21.1	Advanced Optimization Techniques for Entropy-Based Moment Closures	269
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FC02-07ER25812 02/28/2012 Sussman	SC-21.1	Center for Technology for Advanced Scientific Component Software (TASCS)	0
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FC02-10ER25991 08/31/2013 Jacob	SC-21.1	Data Movement Dominates: Addressing the Real Exascale Power Problems	397
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER25925 09/14/2012 Hollingsworth	SC-21.1	Foundational Tools for Petascale Computing	156
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER25947 09/14/2012 Hollingsworth	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	200
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER25942 09/14/2012 O'Leary	SC-21.1	Interior-Point Algorithms for Optimization Problems with Many Constraints	106
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER25936 09/14/2012 Hollingsworth	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	75
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER25932 09/14/2012 Hollingsworth	SC-21.1	Correctness Tools for Petascale Computing	112
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-07ER41489 07/31/2013 Nusinovich	SC-25	High Gradient Accelerating Structures	196
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-93ER40802 04/30/2012 Mignerey	SC-26.1	Reaction Mechanism Studies of Heavy-Ion Induced Nuclear Reactions	275
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-93ER40762 11/30/2013 Cohen	SC-26.1	Theoretical Studies in Hadronic and Nuclear Physics	750
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-94ER40855 06/30/2013 Kishek, Haber, O'Shea	SC-25	Accelerator Research Studies	800

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-94ER40834 01/31/2012 Walters	SC-26.1	Nuclear Structure Research	200
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-98ER14888 04/30/2012 Davis	SC-22.12	Self-Assembled Ionophores: Continuing in New Directions	140
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-04ER25619 06/30/2012 Elman	SC-21.1	Navier-Stokes Solvers and Generalizations for Reacting Flow Problems	0
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FC02-06ER25763 12/14/2012 Hollingsworth	SC-21.1	Performance Engineering Research Center (PERC-3)	240
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER16100 09/14/2012 Alexander	SC-22.11	SISGR: Investigation of Non-Adiabatic Effects in Reactive and Inelastic Collisions of Molecular Combustion Intermediates	152
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER16086 09/14/2012 Sita	SC-22.12	SISGR: Catalysts for Energy-Efficient Dinitrogen Activation and N-Atom Transfer Processes	200
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER16035 07/31/2014 Rubloff	SC-22.22	Science of Precision Multifunctional Nanostructures for Electrical Energy Storage -- EFRC	1,910
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-06ER15761 11/14/2013 Mullin	SC-22.11	Dynamics of Activated Molecules	240
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-08ER64571 07/14/2012 Li	SC-23.1	Use of ARM Mobile Facility (AMF) Data to Study Aerosol Indirect Effects in China	0
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-08ER64548 04/30/2012 Nigam	SC-23.1	Atmosphere-Land-Surface Interaction Over the Southern Great Plains: Diagnosis of Mechanisms from SGP ARM Data	0
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-08ER64606 07/31/2012 Fox-Rabinovitz	SC-23.1	Development of Ensemble Neural Network Convection Parameterizations for Climate Models Using ARM Data	0
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-00ER54605 05/31/2012 Ellis	SC-24.2	The Maryland Centrifugal Experiment (MCX): Centrifugally Confined Plasmas for Magnetic Fusion	105
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-99ER54516 01/31/2013 Hassam	SC-24.2	Theoretical Considerations for Centrifugally Confined Plasmas	85
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-07ER64437 07/14/2012 Kalnay	SC-23.1	Carbon Data Assimilation with a Coupled Ensemble Kalman Filter	0
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-95ER54325 07/14/2014 Nusinovich, Granatstein	SC-24.2	Theory and Modeling of High-Power Gyrotrons	140

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-92ER54178 05/31/2012 Kishek, O'Shea	SC-24.2	Physics of Beams at Extreme Intensity for Heavy Ion Inertial Fusion	179
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-93ER54197 12/31/2013 Dorland	SC-24.2	Maryland Controlled Fusion Research	597
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-97ER41015 10/31/2012 Hadley, Skuja	SC-25	High Energy Accelerator and Colliding Beam User Group	1,576
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FC02-08ER54964 02/14/2016 Dorland	SC-24.2	Center for the Study of Plasma Microturbulence	40
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-10ER55077 07/14/2013 Oehrlein	SC-24.2	Fundamental Science of Low Temperature Plasma-Biological Material Interactions	110
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-11ER41738 07/14/2016 Hall	SC-25	Search for Weakly Interacting Dark Matter with Liquid Xenon	150
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-10ER41710 09/30/2014 Orozco	SC-26.2	Laser Trapping and Cooling Facility for Weak Interaction Experiments with Francium Isotopes at TRIUMF	198
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-10ER46741 08/14/2013 Drew	SC-22.22	Infrared Hall Effect in Correlated Electronic Materials	145
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-10ER46742 03/31/2014 Cumings	SC-22.21	Interfacial Thermal Resistance of Carbon Nanotubes	138
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-10ER46753 08/14/2013 Wuttig	SC-22.22	Diblock Copolymer Templated Two-Phase Inorganic Nano-Composites A Platform for Innovative Nano-Science	127
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER46607 08/31/2012 Galitskiy	SC-22.22	Theory of Fluctuations in Superconductors	103
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-11ER65319 09/14/2014 Li	SC-23.1	Use of ARM Mobile Facility (AMF) Data to Study Aerosol Indirect Effects in China in Comparison with Those in US	191
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-11ER65230 08/31/2013 Liang	SC-23.1	Optimizing the Cloud-Aerosol-Radiation Ensemble Modeling System to Improve Future Climate Change Projections at Regional to	490
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-97ER41039 06/14/2012 Milchberg	SC-25	Application of Plasma Waveguides to Advanced High Energy Accelerators	255
ND, UNIVERSITY OF COLLEGE PARK College Park, MD	DE-FG02-09ER64735 07/31/2012 Nigam	SC-23.1	Dynamics of Arctic and Sub-Arctic Climate and Atmospheric Circulation: Diagnosis of Mechanisms and Biases Using Data	117

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ASA - GODDARD SPACE FLIGHT CTR Greenbelt, MD	DE-AI02-11ER65298 09/14/2014 Marshak, Wiscombe	SC-23.1	Study of Shortwave Spectra in Fully 3D Environment: Synergy Between Scanning Radars and Spectral Radiation Measurements	189
ASA - GODDARD SPACE FLIGHT CTR Greenbelt, MD	DE-AI02-09ER64753 05/14/2012 Tao	SC-23.1	Use of ARM Observations and Numerical Models to Determine Radiative and Latent Heating Profiles of Mesoscale Convective	133
ASA - GODDARD SPACE FLIGHT CTR Greenbelt, MD	DE-AI02-08ER64562 06/14/2012 Marshak, Wiscombe	SC-23.1	Use of the ARM Measurements of Spectral Zenith Radiance for Better Understanding of 3D Cloud-Radiation Processes & Aerosol-Cloud Interaction	0
STANDARDS & TECH, GAITHERSBURG Gaithersburg, MD	DE-AI02-10ER46735 07/14/2013 Gentile	SC-22.21	Polarized 3He in Neutron Scattering	19
STANDARDS & TECH, GAITHERSBURG Gaithersburg, MD	DE-AI02-11ER41771 09/14/2014 Dewey	SC-26.1	Fundamental Physics with Slow Neutrons	100
STANDARDS & TECH, GAITHERSBURG Gaithersburg, MD	DE-AI02-94ER40828 03/31/2012 Gilliam	SC-26.1	Nuclear Data Verification and Standardization	80
NAL INSTITUTES OF HEALTH, NCRR Bethesda, MD	DE-AI02-08ER64706 08/31/2013 Rosenthal	SC-23.2	Partial Support of 2 NIH Projects (International Cooperative Biodiversity Groups)	250
OS ADMIN, COMMERCE-SILVER SPRI Silver Spring, MD	DE-AI02-10ER64949 04/30/2012 Mooney	SC-23.1	Support FY2011 Activities of the Carbon Cycle Interagency Group (CCIWG)	100
OS ADMIN, COMMERCE-SILVER SPRI Silver Spring, MD	DE-AI02-99ER62778 04/30/2012 Williamson	SC-23.1	Partial Support for the Federal Committee for Meteorological Services and Supporting Research	20
Y, U.S. DEPT. OF NAVAL ACADEMY Annapolis, MD	DE-AI02-11ER41734 04/14/2014 Witt	SC-26.1	Investigations of Strangeness Production in the STAR Experiment at RHIC	42
Y, U.S. DEPT. OF NAVAL ACADEMY Annapolis, MD	DE-AI02-09ER46667 09/14/2012 Trulove	SC-22.23	SISGR: Linking Ion Solvation and Lithium Battery Electrolyte Properties	116
ROBERTSINTERNATIONAL, LLC Darnestown, MD	DE-AC02-08ER54994 06/30/2012 Roberts	SC-24.2	Consulting Agreement for Administrative, Management and Policy Support to OFES on ITER	0

Total for MD :

19,895

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (ME)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MAINE, UNIVERSITY OF Orono, ME	DE-FG02-07ER46373 06/30/2014 Pendse	SC-22.21	Thermochemical Conversion of Woody Biomass to Fuels and Chemicals	620
Total for ME :				620

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FC02-09ER41584 08/30/2012 Horoi	SC-26.1	Building a Universal Nuclear Energy Density Functional	90
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FG02-09ER16061 02/28/2013 Jackson	SC-22.11	Theoretical/Computational Studies of Fundamentals of One-Component and Alloy Metal Based Nanocatalysts Relevant to Alternative Sources of Energy	77
CENTRAL MICHIGAN UNIVERSITY Mount Pleasant, MI	DE-FG02-11ER46830 02/14/2013 Petkov	SC-22.21	Element Specific Atomic Arrangement of Binary and Ternary Alloy Nanosized Catalysts in As Prepared and Active State	284
EASTERN MICHIGAN UNIVERSITY Ypsilanti, MI	DE-FG02-10CH20002 04/30/2013 Shen	SC-23	Building Surface Science Capacity to Serve the Automobile Industry in Southeastern Michigan	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER64761 06/14/2012 Reguera	SC-23.1	From Nanowires to Biofilms: An Exploration of Novel Mechanisms of Uranium Transformation Mediated by Geobacter	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER64631 08/14/2012 Buell	SC-23.2	Computational Resources for Biofuel Feedstock Species	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64398 03/14/2012 Tiedje	SC-23.1	Metagenomics-Enabled Understanding of the Functions and Activities of Microbial Communities at ERSF Field Research Center	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER64389 05/31/2012 Tiedje	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-99ER62848 08/31/2016 Cole	SC-23.2	The Ribosomal Database Project: Tools and Sequences for Microbial Analysis	345
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-11ER46802 07/14/2016 Zhang	SC-22.23	Utilizing Molecular Self-Assembly to Tailor Electrical Properties of Si Nanomembranes	150
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-10ER41679 05/31/2015 Maciel-Nunes	SC-26.1	Advancing the Theory of Nuclear Reactions with Rare Isotopes: From the Laboratory to the Cosmos	100
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-10ER41709 08/31/2013 Tsang	SC-26.2	Determination of the Equation of State of Asymmetric Nuclear Matter	400
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46341 08/31/2012 Birge	SC-22.22	Novel Behavior of Ferromagnet/Superconductor Hybrid Systems	167
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER46309 07/31/2012 Ruan	SC-22.21	Dynamical Nanoscale Crystallography with Femtosecond Resolution	200
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER46578 07/31/2014 Morelli	SC-22.21	Revolutionary Materials for Solid State Energy Conversion: A DOE Energy Frontier Research Center -- EFRC	2,125

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER46637 09/14/2012 Boehlert	SC-22.22	SISGR - Characterization and Modeling of Deformation Induced Damage in Titanium Alloys	185
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-11ER16245 08/14/2016 Hamann	SC-22.13	Molecular and Material Approaches to Overcome Kinetic and Energetic Constraints in Dye-Sensitized Solar Cells	155
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-11ER16220 07/31/2012 Kramer	SC-22.13	The Energy Budget of Steady State Photosynthesis	153
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-91ER20021 03/31/2012 Thomashow	SC-22.13	Interdisciplinary Research and Related Training Program in the Plant Sciences	4,053
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-09ER16108 09/14/2012 Dantus	SC-22.11	SISGR - Understanding and Controlling Strong-Field Laser Interactions with Polyatomic Molecules	150
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15228 05/31/2013 Piecuch	SC-22.11	New Single-and Multi-Reference Coupled-Cluster Methods for High Accuracy Calculations of Ground and Excited States	144
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-01ER15282 08/14/2012 McCusker	SC-22.13	First-Row Transition Metal-Based Chromophores for Dye-Sensitized Solar Cells: Fundamental Issues and Applications	180
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER14907 07/31/2013 Bruening	SC-22.12	Separations of Stable Isotopic Ions in Homogenous, Highly Charged Nanopores	165
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER15929 03/14/2013 Kirkpatrick	SC-22.12	Computational and Experimental Investigations of the Molecular Scale Structure and Dynamics of Geologically Important Fluids and Mineral-Fluid	188
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-07ER15854 02/28/2013 Mantica	SC-22.12	Summer Schools in Nuclear and Radiochemistry	252
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15822 08/31/2012 Geiger	SC-22.13	Structure, Function, and Regulation of the Enzymes in the Starch Biosynthetic Pathway	160
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-06ER15808 07/31/2012 Osteryoung	SC-22.13	Mechanisms of Chloroplast Division in Plants	180
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-03ER41259 05/31/2012 Pratt	SC-26.1	Determining Properties of Matter Created at RHIC	97
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41553 09/30/2012 York	SC-26.2	Development and Beam Characterization of a Coaxial Resonator Based Single-Gap Gridless Triple-Harmonic Buncher	0
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41556 06/30/2013 Gade	SC-26.1	Study of Correlation Effects in Nuclei at the Limit of Stability	54

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-08ER41546 03/14/2014 Berz	SC-25	Advanced Map Methods for the Description of Particle Beam Dynamics	353
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FC02-09ER41597 04/30/2019 Glasmacher	SC-26.2	Facility for Rare Isotope Beams	10,000
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FC02-09ER41585 11/30/2012 Brown	SC-26.1	Building a Universal Nuclear Energy Density Functional	130
MICHIGAN STATE UNIVERSITY East Lansing, MI	DE-FG02-98ER41070 10/31/2013 Westfall	SC-26.1	Study of the QCD Phase Diagram using STAR at RHIC	243
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-99ER41107 04/14/2014 Nitz	SC-25	Studies of High Energy Particle Astrophysics	260
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-11ER65297 09/14/2013 Mazzoleni	SC-23.1	The Radiative Role of Free Tropospheric Aerosols and Marine Clouds over the Central North Atlantic	156
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-11ER65322 09/14/2014 Shaw	SC-23.1	Laboratory Investigation of Contact Freezing and the Aerosol to Ice to Ice Crystal Transformation Process	82
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-11ER65187 08/31/2013 Resh	SC-23.1	Interactive Effects of Climate Change and Decomposer Communities on the Stabilization of Wood-Derived Carbon Pools: Catalyst for a New Study	149
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-09ER46674 09/14/2012 Wang	SC-22.22	SISGR - Domain Microstructures and Mechanisms for Large, Reversible and Anhyseretic Strain Behaviors in Phase	126
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-06ER46294 12/31/2012 Yap	SC-22.22	Hetero-Junctions of Boron Nitride and Carbon Nanotubes: Synthesis and Characterization	0
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FG02-95ER62125 03/31/2013 Burton, Pregitzer	SC-23.1	Impacts of Interacting Elevated Atmospheric CO2 & O3 on the Structure & Functioning of a Northern Forest	445
MICHIGAN TECH. UNIVERSITY Houghton, MI	DE-FC02-06ER64158 11/30/2012 Burton	SC-23.1	Midwestern Regional Center of the National Institute for Climatic Change Research	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER64803 07/31/2012 Hayes	SC-23.1	Assessing the Role of Iron Sulfides in the Long Term Sequestration of U by Sulfate Reducing Bacteria	307
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER62370 06/30/2012 Penner	SC-23.1	Cloud/Aerosol Parameterizations: Application and Improvement of General Circulation Models	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-01ER63248 09/14/2012 Penner	SC-23.1	Development of an Atmospheric Climate Model with Self-Adapting Grid and Physics	70

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-93ER61666 08/14/2012 Zak	SC-23.1	Ecosystem Response to Elevated Tropospheric Carbon Dioxide (CO2) and Ozone (O3) is Regulated by Plant-Microbe Interactions in Soil	0
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER55060 08/14/2012 Kushner	SC-24.2	Plasmas in Multiphase Media: Bubble Enhanced Discharge in Liquids and Plasma/Liquid Phase Boundaries	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FC02-09ER55050 08/14/2014 Kushner	SC-24.2	Predictive Control of Plasma Kinetics: Multi-Phase and Bounded Systems	1,528
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER55047 08/14/2012 Lau	SC-24.2	Theoretical and Experimental Studies of the Magneto-Rayleigh-Taylor Instabilities	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46273 04/30/2012 Clarke	SC-22.21	Structure and Dynamics at Interfaces	168
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER46339 05/14/2013 Goldman	SC-22.21	Electronic States and Transport in Semiconductor Nanostructures	155
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-97ER45656 04/30/2014 Ewing	SC-22.22	Response of Simple, Model Systems to Extreme Conditions	197
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-02ER46000 11/30/2012 Glotzer	SC-22.23	Simulation of Self-Assembly of Tethered Nanoparticle Shape Amphiphiles	160
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46757 09/14/2014 Hart	SC-22.23	Understanding and Controlling Nanoscale Crystal Growth using Mechanical Forces	185
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46761 08/31/2013 Matzger	SC-22.23	Symmetry Breaking for the Synthesis of Nanostructured Porous Materials	237
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER46762 04/14/2014 Sangi Reddy	SC-22.21	Study of Energy Transport at the Nanoscale	136
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER46525 08/31/2014 Was	SC-22.22	Localized Deformation and Intergranular Fracture of Irradiated Alloys Under Extreme Environmental Conditions	280
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46416 06/30/2013 Pan	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures	175
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER46412 08/14/2014 Green	SC-22.23	Brush-Coated Nanoparticle Polymer Thin Films: structure-mechanical-optical properties	228
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-95ER40899 04/30/2012 Amidei	SC-25	Properties and Interactions of Elementary Particles	3,513

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-04ER41331 07/14/2014 Chupp	SC-26.1	Electric Dipole Moment Measurements with Rare Isotopes: The Radon-EDM Experiment	113
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15887 07/31/2012 Nielsen	SC-22.13	The Role of Phosphoinositides in Polarized Secretion of Cell Wall Components in Arabidopsis Root Hair Cells	180
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-07ER15904 06/30/2014 Ogilvie	SC-22.13	Two Dimensional Electronic Spectroscopies for Probing Electronic Structure and Charge Transfer: Applications to	240
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-06ER15783 06/30/2012 Ewing	SC-22.12	Actinide Incorporation and Radiation Effects in Layered Structures	99
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER15931 06/14/2014 Ragsdale	SC-22.13	Enzymology of Methanogenesis: Mechanism of Methyl-Coenzyme M Reductase	268
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-11ER30331 03/31/2012 Campbell	SC-27	Research and Study Abroad Facility in Geneva, Switzerland in Affiliation with the European Laboratory for Particle Physics	50
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-05ER15686 08/31/2014 Linic	SC-22.12	Development of Physically Transparent, Predictive Structure-Performance Relationships for Rational Design of	420
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER16102 09/14/2012 Wooldridge	SC-22.11	SISGR: The Effects of Oxygenated Fuel Compound Structure on Combustion and Pollutant Reaction Chemistry	151
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-09ER16112 09/14/2012 Violi	SC-22.11	SISGR - Developing a Predictive Model for the Chemical Composition of Soot Nanoparticles: Integrating Model and	198
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-08ER15997 08/14/2014 Sanford	SC-22.12	Catalytic Control of Site Selectivity in Catalytic C H Arylation and Alkylation Reactions	145
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-11ER16262 09/14/2014 Bartlett	SC-22.12	Bridging Homogeneous and Heterogeneous Catalysis Through Ion-Exchangeable Materials	150
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-11ER16265 02/28/2015 Maldonado	SC-22.13	Light-Stimulated Hole Injection at Dye-Sensitized Phosphide Photocathodes	60
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-10ER64994 06/30/2013 Zak	SC-23.2	Atmospheric Nitrogen Deposition and Microbial Mechanisms Enhancing Soil Carbon Storage	460
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-11ER65289 09/14/2014 Blum	SC-23.1	Isotopic Characterization of Biogeochemical Pools of Mercury and Determination of Reaction Pathways for Mercury Methylation	185
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-11ER65280 09/14/2014 Jablonowski	SC-23.1	Evaluating the Climate Sensitivity of Dissipative Subgrid-Scale Mixing Processes and Variable Resolution in NCAR's	352

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MICHIGAN, UNIVERSITY OF Ann Arbor, MI	DE-FG02-11ER65263 08/31/2014 Semrau	SC-23.2	Role of Methanotrophs in Metal Mobilization, Metal Immobilization, and Mineral Weathering: Effects on the In Situ Microbial Community Structure and the...	395
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-96ER41005 04/30/2012 Karchin	SC-25	Particle Physics Research Program	409
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-92ER40713 04/30/2014 Cormier	SC-26.1	Relativistic Heavy Ion Research	610
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-09ER16120 09/14/2012 Verani	SC-22.13	SISGR: A Concerted Synthetic, Spectroscopic, and Computational Approach Towards Water Splitting by Heterometallic	440
WAYNE STATE UNIVERSITY Detroit, MI	DE-FG02-04ER15593 10/31/2013 Suits	SC-22.11	Universal and State-Resolved Imaging Probes of Chemical Reaction Dynamics	170
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-99ER45772 05/31/2012 Burns	SC-22.21	X-ray and Transport Studies of Highly Correlated Systems	100
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-09ER16111 09/14/2012 Berrah	SC-22.11	SISGR - Advanced Instrumentation for Ultrafast Science at the LCLS	0
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-92ER14299 06/14/2014 Berrah	SC-22.11	Probing Complexity Using the LCLS and the ALS	200
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-04ER41320 05/14/2013 Wuosmaa	SC-26.1	Study of Exotic Nuclei With Nucleon Transfer Reactions	177
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-10ER64974 12/31/2012 Patten	SC-23.2	Green Manufacturing: Environmentally Benign and Energy Conscious Program at Western Michigan University	0
WESTERN MICHIGAN UNIVERSITY Kalamazoo, MI	DE-FG02-09ER64917 09/28/2012 Barnes	SC-23.2	MICHCARB A Geological Carbon Sequestration Research and Education Program for Michigan	0
Total for MI :				35,199

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-11ER65191 08/31/2014 Bond	SC-23.2	Spatioelectrochemistry: The Molecular Basis for Electron Flow Within Metal-Reducing Biofilms	384
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-11ER65181 08/14/2014 McMurry	SC-23.1	Collaborative Project: Understanding the Chemical Process that Affect Growth Rates of Freshly Nucleated Particles	304
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-11ER16283 09/14/2014 Gagliardi	SC-22.11	Bridging the Gap Between Quantum Chemistry and Classical Simulations for CO2 Capture	125
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-09ER16087 09/14/2012 Gagliardi	SC-22.12	Multiconfigurational Quantum Chemical Study of Molecules and Ions Containing Actinides and Lanthanides	200
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-05ER15670 08/31/2014 Glazebrook	SC-22.13	Effects of Plant Cell Wall Alterations on Plant Disease Susceptibility	144
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-04ER15500 11/30/2012 Kohlstedt	SC-22.12	Rheological Properties of Earth's Upper Mantle at High Pressure: Roles of Melt, Water, and Pressure	216
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-03ER15455 08/31/2014 Que	SC-22.12	Bio-inspired Iron Catalysts for Hydrocarbon Oxidations	175
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-86ER13579 11/30/2014 Truhlar	SC-22.11	Variational Transition State Theory	86
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-88ER13878 12/31/2011 Schmidt	SC-22.12	Biofuels from Biomass by Catalytic Autothermal Reforming	0
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-07ER15913 08/31/2014 Gladfelter	SC-22.13	Molecular Design of Zinc-Oxide Nanoparticle-Dye Dyads and Triads	290
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FC02-10ER26020 08/31/2013 Karypis	SC-21.1	Enabling Scientific Discovery in Exascale Simulations	309
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-07ER15886 07/31/2013 Ward	SC-22.13	Functional Analysis of Plant Sucrose Transporters	163
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-09ER25880 08/31/2012 Luskin	SC-21.1	Predictive Simulation and Design of Materials by Quasicontinuum and Accelerated Dynamics Methods	455
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-08ER25841 06/14/2012 Saad	SC-21.1	Robust Parallel Iterative Solvers for Linear and Least-Squares Systems	0
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-87ER40328 01/31/2014 Kapusta, Qian, Heger	SC-26.1	Research in Theoretical Nuclear Physics	430

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-94ER40823 10/31/2013 Rusack, Olive	SC-25	Experimental and Theoretical High Energy Physics	1,678
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FC02-07ER41471 10/31/2013 Marshak	SC-25	Collaborative Research and Development in Neutrino Physics	2,222
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FC02-09ER41618 03/14/2012 Heger	SC-26.1	Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	0
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-07ER46415 08/31/2013 Kumar	SC-22.23	Hydrodynamic Self-Assembly of Topographical Patterns on Soft Materials	80
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-09ER46640 09/14/2012 Zudov	SC-22.22	SISGR - Emergent Phenomena in Quantum Hall Systems Far From Equilibrium	130
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-02ER46004 08/31/2014 Goldman	SC-22.22	Tunneling and Transport in Nanowires	150
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-06ER46275 03/14/2015 Leighton	SC-22.21	Neutron Scattering Studies of Cobaltite Crystals and Heterostructures	139
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-09ER55040 08/14/2012 Kortshagen	SC-24.2	Charging and Heating Dynamics of Nanoparticles in Nonthermal Plasmas	67
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-10ER41676 05/31/2015 Heger	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	40
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-11ER46823 08/14/2014 Greven	SC-22.21	Crystal Growth and Scattering Studies of Model Cuprate Superconductors	220
MINNESOTA, REGENTS OF UNIV. OF Minneapolis, MN	DE-FG02-07ER64456 07/31/2015 Reich	SC-23.1	Climate Change Impacts at the Temperate-Boreal Ecotone: Interactions Between Warming and Precipitation	631
MINNESOTA, UNIVERSITY OF, DULUTH Duluth, MN	DE-FG02-98ER41087 05/31/2013 Hiller	SC-25	Nonperturbative Analysis of Field Theories Quantized on the Light Cone	45
Total for MN :				8,683

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
DONALD DANFORTH PLNT SCI CTR St. Louis, MO	DE-FG02-11ER65231 08/14/2014 Mockler	SC-23.2	Modulation of Phytochrome Signaling Networks for Improved Biomass Accumulation Using a Bioenergy Crop Model	791
DONALD DANFORTH PLNT SCI CTR St. Louis, MO	DE-FG02-09ER16029 07/31/2014 Sayre	SC-22.13	Center for Advanced Biofuels Systems -- EFRC	3,000
UNIV OF SCIENCE AND TECHNOLOGY Rolla, MO	DE-FG02-08ER46518 08/31/2012 Switzer	SC-22.23	Epitaxial Electrodeposition of Metal Oxide Thin Films and Superlattices for Energy Conversion and Storage	175
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-08ER15958 12/31/2011 Appold	SC-22.12	Evaluation of the Origin and Hydrocarbon Transport Capabilities of Solitary Waves in Fault Conduits with Visco-Elastic	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-88ER13880 07/14/2014 Sharp	SC-22.12	Late Transition Metal M-OR Chemistry and d6 Metal Complex Photoeliminations	120
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-87ER13713 08/31/2012 Wall	SC-22.13	Genetics and Molecular Biology of Hydrogen Metabolism in the Sulfate-reducing Bacteria	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-02ER15309 05/31/2014 Stacey	SC-22.13	Plant Response to LCO/CO Signals	180
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER64396 03/31/2012 Wall	SC-23.1	Geochemical, Genetic, and Community Controls on Mercury Methylation	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-09ER64890 09/14/2012 Giblin	SC-23.2	Functionalized PEI Nanoparticles for Delivery of IGF-1R - Targeted siRNA's to uPAR-Expressing Tumors in Vitro and in Vivo	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-08ER64691 09/14/2012 Wall	SC-23.2	Pathway of Fermentative Hydrogen Production by Sulfate-Reducing Bacteria	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-09ER64825 08/31/2013 Jurisson	SC-23.2	Research Projects for Interrogations of Biological Systems: Training for the Development of Novel Radiotracers	1,056
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER41644 09/30/2012 Jurisson	SC-26.2	Alternative Isotope Production Techniques for High Specific Activity Radionuclides	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46213 12/31/2014 Ullrich	SC-22.22	Charge and Spin Dynamics in Bulk and Heterostructured Dilute Magnetic Semiconductors	0
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-05ER46203 05/31/2014 Vignale	SC-22.22	Time-Dependent Current Density-Functional Theory of Charge, Energy and Spin Transport and Dynamics in Nanoscale	105
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-00ER45818 11/30/2012 Satpathy	SC-22.22	Fundamental Studies of Complex Oxides and Their Interfaces	130

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-07ER46411 08/14/2013 Pfeifer	SC-22.23	New Pathways and Metrics for Enhanced, Reversible Hydrogen Storage in Boron-Doped Carbon Nanospaces	320
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-11ER65194 09/14/2014 Wall	SC-23.1	Identifying Key Proteins in Hg Methylation Pathways of Desulfovibrio by Global Proteomics	26
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-10ER65040 09/14/2013 Stacey	SC-23.2	Systems View of Root Hair Response to Abiotic Stress	322
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-11ER65209 08/14/2014 Braun	SC-23.2	Functional Genomics of Sugar Content in Sweet Sorghum Stems	498
MISSOURI, UNIVERSITY OF Columbia, MO	DE-FG02-09ER64877 09/14/2012 Deutscher	SC-23.2	Radiolabeled Peptide Scaffolds for PET/SPECT - Optical in Vivo Imaging of Carbohydrate-Lectin Interactions	0
CLEAR MEDICINE SOLUTIONS, INC. St. Louis, MO	DE-AD01-07NE24326 06/30/2012 Brown	SC-26.2	Purchase of Irradiated Strontium-82 Targets	1,056
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-11ER65190 08/31/2014 Catalano	SC-23.1	Dominant Mechanisms of Uranium-Phosphate Reactions in Subsurface Sediments	193
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-11ER65180 08/31/2014 Goodenough	SC-23.2	Systems Biology of Lipid Body Formation in the Green Alga Chlamydomonas Reinhardtii	458
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-11ER65268 08/31/2014 Pakrasi	SC-23.2	Use of Systems Biology Approaches to Develop Advanced Biofuel-Synthesizing Cyanobacterial Strains	757
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER15661 05/14/2014 Holten, Kirmaier	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	245
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-11ER16254 09/14/2014 Mirica	SC-22.12	Novel Palladium Catalysts for the Oxidative Oligomerization of Methane & Carbon Dioxide Reduction	150
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-99ER20350 08/31/2012 Pakrasi	SC-22.13	Novel Factors in the Thylakoid Lumen that Regulate Photoprotection and Repair of the Photosynthetic Apparatus in Cyanobacteria	180
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER16116 09/14/2012 Holten	SC-22.13	SISGR: Controlling Electron Transfer Pathways in Photosynthetic Reaction Centers	194
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER16045 07/31/2014 Blankenship	SC-22.13	Photosynthetic Antenna Research Center (PARC) -- EFRC	3,375
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-07ER15902 08/31/2013 Blankenship	SC-22.13	The Fmo Antenna Complex From Green Photosynthetic Bacteria	200

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MO)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-88ER40406 11/30/2011 Sarantites	SC-26.1	Investigations of Nuclear Structure and Nuclear Reactions	422
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-91ER40628 03/31/2014 Bender, Ogilvie, Bernard	SC-25	Studies in Quantum Field Theory and Astroparticle Physics	825
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-87ER40316 12/31/2013 Sobotka	SC-26.1	Studies of Complex Nuclear Decay in Heavy-Ion Reactions	290
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER41375 05/31/2014 Alford	SC-26.1	Signatures of Color Superconductivity in High-Density Quark Matter	120
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-05ER46256 08/31/2014 Conradi	SC-22.22	In Situ NMR to Understand Hydrogen Storage Chemistry	190
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-11ER41748 07/14/2016 Lapi	SC-26.2	Direct Production of ^{99m} Tc Using a Small Medical Cyclotron	150
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41708 08/31/2013 Sobotka	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics & the Development of a Position Sensitive Microstrip Detector	26
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41643 03/30/2012 Welch	SC-26.2	Improved Production and Separation Technologies for Non-Standard PET Radionuclides	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-10ER41673 05/31/2015 Alford	SC-26.1	Collaborative Research: Neutrinos and Nucleosynthesis in Hot Dense Matter	30
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-08ER64694 09/14/2012 Pakrasi	SC-23.2	Development of Cyanobacteria as a New Model Organism for Biological Hydrogen Production	0
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER64820 08/31/2013 Welch	SC-23.2	Integrated Research Training Program of Excellence in Radiochemistry	1,092
WASHINGTON UNIVERSITY St. Louis, MO	DE-FG02-09ER64891 09/14/2012 Lapi	SC-23.2	Novel, Dually Radiolabeled Peptides for Simultaneous Monitoring of Enzymatic Activity and Protein Targets	0
Total for MO :				16,676

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (MS)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
JACKSON STATE UNIVERSITY Jackson, MS	DE-FG02-08CH11506 05/30/2011 Okojie	SC-23	Renovation/Construction of the Jackson State University' Bioengineering Complex	0
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER64459 08/31/2012 Peng	SC-23.2	Identification of Cell Wall Synthesis Regulatory Genes Controlling Biomass Characteristics and Yield in Rice (Oryza	0
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-96ER41006 06/30/2014 Winger	SC-26.1	Nuclear Structure Studies of Exotic Nuclei with Radioactive Ion Beams	77
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-06ER46315 08/31/2012 Clay	SC-22.22	Charge Frustration, Spin Singlets and Superconductivity in the 1/4-filled Band Paired-Electron Crystal	140
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41459 11/14/2012 Afanasjev	SC-26.1	Nuclei at Extreme Conditions: A Relativistic Study	74
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-07ER41528 08/31/2013 Dutta	SC-26.1	Precision Measurements at Medium Energy	278
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-95ER40939 04/30/2013 Ma	SC-26.1	Experimental Nuclear Structure Studies	169
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-04ER15514 01/31/2015 Sygula	SC-22.12	Polynuclear Aromatic Hydrocarbons with Curved Surfaces: Buckybowls	135
MISSISSIPPI STATE UNIVERSITY Mississippi State, MS	DE-FG02-11ER65204 08/13/2013 Hatten	SC-23.1	Exploratory Research - Using Volatile Organic Compounds to Separate Heterotrophic and Autotrophic Forest Soil Respiration	149
MISSISSIPPI, UNIVERSITY OF University, MS	DE-FG02-91ER40622 04/30/2013 Cremaldi	SC-25	Experimental Study of Electroweak and Heavy Flavor Physics	361
Total for MS :				1,383

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (MT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-08ER46527 08/31/2012 Cunningham	SC-22.21	Environmental Responses to Geologic CO2 Sequestrations	369
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER46477 08/31/2014 Douglas	SC-22.23	Multicomponent Protein Cage Architectures for Photocatalysis	253
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-11ER46817 07/31/2014 Nehrir	SC-22.21	Making the Grid "Smart" Through "Smart" Microgrids: Real-Time Power Management of Microgrids with Multiple Distributed Generation Sources Using Intelligent...	155
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-09ER64758 05/14/2012 Gerlach	SC-23.1	Microbial Activity and Precipitation at Solution-Solution Mixing Zones in Porous Media - Environmental Remediation Science	110
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-07ER64366 03/14/2012 Peyton	SC-23.1	Subsurface Uranium Fate & Transport: Integrated Experiments & Modeling of Coupled Biogeochemical Mechanisms of Nanocrystalline Uraninite Oxidation by	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-04ER15563 05/31/2012 Peters	SC-22.13	Novel Microbial Based Enzymatic CO2 Fixation/Carboxylation Mechanisms	0
MONTANA STATE UNIVERSITY Bozeman, MT	DE-FG02-10ER16194 09/14/2013 Broderick	SC-22.13	Role of HydF in Hydrogenase Maturation	185
MONTANA, UNIVERSITY OF Missoula, MT	DE-FG02-03ER54699 03/31/2013 Ware	SC-24.2	High Beta Stellarator Studies and Cross Phase Dynamics in Turbulent Transport	65
Total for MT :				1,137

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
DUKE UNIVERSITY Durham, NC	DE-FG02-97ER41033 02/29/2012 Howell	SC-26.1	Studies of Nuclear Structure Using Neutrons and Charged Particles	3,500
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64961 05/14/2013 Howell	SC-23.2	Radionuclide Imaging Technologies for Biological Systems	70
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER64931 01/31/2013 Jirtle	SC-23.2	Epigenomic Adaptation to Low Dose Radiation	339
DUKE UNIVERSITY Durham, NC	DE-FG02-11ER65168 08/14/2016 Hsu-Kim	SC-23.1	Nanoscale Mercury Sulfide-Organic Matter Interactions and Implications for Solubility and Biomethylation	123
DUKE UNIVERSITY Durham, NC	DE-FG02-11ER65203 08/31/2014 Katul	SC-23.1	Constraining the Simultaneous Effects of Elevated CO ₂ , Temperature, and Shifts in Rainfall Patterns on Ecosystem Carbon Fluxes using Multi-Scale Resource....	294
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER16074 08/31/2012 Therien	SC-22.13	Organic, Nanoscale, and Self-Assembled Structures Relevant to Solar Energy Conversion	160
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41367 03/14/2014 Mueller	SC-26.1	Nuclear Physics at Extreme Energy Density	370
DUKE UNIVERSITY Durham, NC	DE-FG02-05ER41368 03/14/2014 Springer	SC-26.1	Lattice and Effective Field Theory Studies of Quantum Chromodynamics	357
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER41683 05/31/2013 Mueller	SC-26.1	Proposal for a Topical Collaboration on Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	91
DUKE UNIVERSITY Durham, NC	DE-FG02-91ER40665 11/30/2012 Kotwal	SC-25	Research in High Energy Physics at Duke University	1,344
DUKE UNIVERSITY Durham, NC	DE-FG02-03ER41231 12/14/2013 Gao	SC-26.1	Medium Energy Physics at Duke University	450
DUKE UNIVERSITY Durham, NC	DE-FG02-10ER46772 08/31/2013 Baranger	SC-22.22	Quantum Phases of Nanowires: Quantum Monte Carlo Approaches	90
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER46602 08/14/2012 Thomas	SC-22.22	Simulating Strongly Correlated Electrons with a Strongly Interacting Fermi Gas	157
DUKE UNIVERSITY Durham, NC	DE-FG02-09ER46606 05/31/2012 Finkelstein	SC-22.22	Symmetries, Interactions and Correlation Effects in Carbon Nanotubes	150
DUKE UNIVERSITY Durham, NC	DE-FC02-06ER64156 11/30/2012 Jackson	SC-23.1	Southeastern Regional Center of the National Institute for Climatic Change Research	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
DUKE UNIVERSITY Durham, NC	DE-FG02-95ER62083 07/31/2012 Oren, Schlesinger	SC-23.1	Duke Forest FACE - Forest-Atmosphere Carbon Transfer and Storage (FACTS-I)	898
NMENTAL PROTECT AGENCY, NHEERL Research Triangle Pk, NC	DE-AI02-10ER65044 07/31/2013 Mathur	SC-23.1	Evaluation of the Interactions Among Tropospheric Aerosol Loading, Radiative Balance, Clouds, and Precipitation	298
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-10ER41716 08/31/2013 Crowe	SC-26.1	A Proposal to Measure the Space Star Cross Section in Neutron - Deuteron Breakup in a Recoil Geometry Setup	109
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-96ER54385 01/31/2012 Jones	SC-24.2	Precision Characterization of Gyrotron Window Materials	74
NORTH CAROLINA CENTRAL UNIV. Durham, NC	DE-FG02-11ER46834 08/31/2014 Bondarev	SC-22.22	Surface Electromagnetic Phenomena in Pristine and Atomically Doped Carbon Nanotubes: Fundamentals and Applications	100
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-96ER14632 05/14/2014 Lindsey	SC-22.13	Fundamental Studies of Hydroporphyrin Architectures for Solar Energy Applications	220
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-02ER15354 09/14/2014 Smirnov	SC-22.13	Nanotube-Supported Phospholipid Bilayers	160
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-02ER41216 07/14/2013 McLaughlin	SC-26.1	Supernovae and Black Hole Accretion Disks: Weak Interactions and Element Synthesis	135
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-03ER41260 07/14/2012 Schaefer	SC-26.1	Nuclear Theory at North Carolina State University	257
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FC02-10ER26002 08/31/2013 Samatova	SC-21.1	Damsel: a Data Model Storage Library for Exascale Science	230
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FC02-07ER25809 11/14/2012 Vouk	SC-21.1	Scientific Data Management Center for Enabling Technologies (CET)	177
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-07ER15914 08/31/2012 Maggard	SC-22.13	Molecular to Microstructural Designs in Heterometallic Solids for Visible-Light Photocatalysts	0
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-10ER41677 05/31/2015 McLaughlin	SC-26.1	Collaborative Research: Neutrinos and Nucleosynthesis in Hot and Dense Matter	145
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-07ER64448 07/31/2012 Lackmann	SC-23.1	High-Resolution Modeling to Assess Tropical Cyclone Activity in Future Climate Regimes	0
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64510 12/31/2012 Dunn	SC-23.1	Impacts of Elevated Temperature on Ant Species, Communities and Ecological Roles at Two Temperate Forests in Eastern North	721

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-08ER64687 09/14/2013 Kelly	SC-23.2	Biohydrogenogenesis in the Thermotogales	0
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-11ER41750 07/14/2016 Kneller	SC-26.1	The Neutrino: A Better Understanding Through Astrophysics	150
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-98ER45685 02/28/2013 Bernholc	SC-22.22	Theoretical Investigations of Nano Bio Structures	100
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-98ER45737 06/14/2013 Ade	SC-22.23	Fundamental Science of High Open Circuit Voltage Excitonic Solar Cells	250
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-09ER46655 09/14/2012 Henderson	SC-22.23	SISGR: Linking Ion Solvation and Lithium Battery Electrolyte Properties	177
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-97ER41042 03/31/2012 Huffman	SC-26.1	Nuclear Structure Research at the Triangle Universities Nuclear Laboratory	691
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-11ER65173 08/31/2014 Chiang	SC-23.2	Modeling of Cellulose, Hemicellulose and Ligin-Carbohydrate Complex Formation and Regulation to Understand Plant Cell Wall Structure	749
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-11ER65176 08/31/2014 Zhang	SC-23.1	Collaborative Research: Simulating Aerosol Indirect Effects with Improved Aerosol-Cloud-Precipitation	255
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-11ER65198 09/14/2014 Genereux	SC-23.1	Water-Carbon Links in a Tropical Forest: How Interbasin Groundwater Flow Affects Carbon Fluxes and Ecosystem Carbon Budgets	265
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-11ER65189 08/31/2014 Domec	SC-23.1	Quantifying the Effect of Nighttime Interactions Between Roots and Canopy Physiology and Their Control of Water and	215
ORTH CAROLINA STATE UNIVERSITY Raleigh, NC	DE-FG02-11ER65237 09/14/2014 Yuter	SC-23.1	Collaborative Research: Cloudiness Transitions Within Shallow Marine Clouds Near the Azores	167
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-10ER41675 05/31/2015 Engel	SC-26.1	Collaboration: Neutrinos and Nucleosynthesis in Hot and Dense Matter	30
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-97ER41019 01/14/2015 Engel	SC-26.1	Nuclear Theory with Applications to Astrophysics and Particle Physics	110
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-05ER46216 08/14/2012 Tsui	SC-22.22	Structure and Magnetism in Novel Group IV Element-Based Magnetic Materials	161
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FC02-09ER41589 05/31/2012 Engel	SC-26.1	Universal Nuclear Energy Density Functional	83

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-06ER41418 06/30/2012 Ng	SC-25	Theoretical Research in Cosmology, High-Energy Physics and String Theory at UNC-CH	186
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FC02-06ER41445 03/14/2012 Fowler	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	0
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-06ER15788 05/14/2012 Meyer, Papanikolas	SC-22.13	Metal-to-Ligand Charge Transfer Excited States at Interfaces and in Rigid Media: Applications in Energy Conversion	190
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FC02-11ER26050 08/31/2016 Fowler	SC-21.1	The Institute for Sustained Performance, Energy and Resilience (SUPER)	215
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-10ER26016 08/31/2013 Baldine	SC-21.1	Orchestrating Distributed Resource Ensembles for Petascale Science	169
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-10ER25974 03/14/2013 Huang	SC-21.1	Higher-Order, Space-Time Adaptive Finite Volume Methods: Algorithms, Analysis and Applications	161
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-09ER25879 08/14/2012 Forest	SC-21.1	Modeling and Algorithmic Approaches to Constitutively-Complex, Microstructured Fluids	155
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-09ER16099 09/14/2012 Miller	SC-22.12	SISGR - Multiscale Modeling of Multiphase Flow, Transport, and Reactions in Porous Medium Systems	200
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-11ER16235 07/14/2016 Lopez	SC-22.13	Bio-Inspired Electro-Photonic Structure for Dye-Sensitized Solar Cells	171
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FC02-06ER25764 12/14/2012 Fowler	SC-21.1	Performance Engineering Research Center (PERC-3)	215
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-95ER20187 07/14/2012 Dangl	SC-22.13	Pathogen virulence factors as unique probes of plant cell structure and function	236
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-06CH11460 11/30/2011 Pisano	SC-23	Collaborative Initiative in Biomedical Imaging to Study Complex Diseases	0
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-97ER14776 10/31/2012 Baer	SC-22.11	Threshold Photoelectron Photoion Coincidence (TPEPICO) studies: The road to +/-0.1 kJ/mol Thermochemistry	0
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-05ER15671 06/14/2013 Jones	SC-22.13	Sugar Sensing in Arabidopsis via AtRGS1	165
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-05ER15630 10/31/2012 Gagne	SC-22.12	Oxidative Addition at Anomeric Centers in the Pursuit of Value-Added Fine Chemical Feedstocks From Cardboard and Potatoes	145

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
, UNIVERSITY OF AT CHAPEL HILL Chapel Hill, NC	DE-FG02-97ER41041 03/31/2012 Wilkerson	SC-26.1	Studies of Nuclear Processes	1,094
NA, UNIVERSITY OF AT CHARLOTTE Charlotte, NC	DE-FG02-05ER25678 08/31/2012 Cai	SC-21.1	Numerical Methods of Computational Electromagnetics for Complex Inhomogeneous Systems	0
			Total for NC :	17,724

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (ND)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NORTH DAKOTA STATE UNIVERSITY Fargo, ND	DE-FG02-96ER14645 05/14/2014 Hershberger	SC-22.11	Kinetics and Product Channel Studies in Combustion Chemistry	90
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-06ER46292 07/14/2012 Seames	SC-22.21	The North Dakota DOE EPSCoR IIP Phase 2: Performance Impacts of Impurities in Clean Coal Systems Equipped with Carbon Capture	650
NORTH DAKOTA, UNIVERSITY OF Grand Forks, ND	DE-FG02-11ER65139 12/31/2012 Bradley	SC-23.2	Avian Diagnostic and Therapeutic Antibodies	2,916
Total for ND :				3,656

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CREIGHTON UNIVERSITY Omaha, NE	DE-FG02-96ER40991 06/30/2014 Cherney	SC-26.1	A Study of Ultra-Relativistic Heavy Ion Collisions	229
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-03ER63639 09/14/2012 Verma	SC-23.1	Carbon Sequestration in Dryland and Irrigated Agroecosystems: Quantification at Different Scales for Improved Prediction	0
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-08ER55000 07/31/2012 Shadwick	SC-24.2	Wavebreaking and Particle Trapping in Collisionless Plasmas	0
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-09ER46621 08/14/2012 Shield	SC-22.21	Phase Transformations in Confined Nanosystems	15
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-09ER46622 08/14/2012 Ramamurthy	SC-22.21	Dynamic Optimized Advanced Scheduling of Bandwidth Demands for Large-Scale Science Applications	15
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-09ER46591 05/31/2013 Saraf	SC-22.23	Electronic Interfacing Between a Living Cell and a Nanodevice: A Bio-Nano Hybrid System	240
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-10ER46767 07/31/2013 Gruverman	SC-22.21	Nanoscale Resistive Switching Behavior of Ferrelectric and Multiferroic Tunnel Junctions	250
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-10ER46722 06/30/2013 Gruverman	SC-22.21	Nanoscale Studies of Pyroelectric and Thermoelectric Phenomena	15
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-08ER46490 06/14/2012 Snow	SC-22.21	The Luminosity Measurement for the DZERO Experiment at Fermilab	0
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-08ER46498 06/14/2012 arme	SC-22.21	Rational Design of Molecular Ferroelectric Materials and Nanostructures	0
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-04ER46152 06/18/2013 Sellmyer	SC-22.22	Fundamental Studies of High-Anisotropy Nanomagnets	115
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-10ER16189 08/31/2014 Mackenzie	SC-22.13	MSH1: a novel inter-organellar environmental response mechanism in higher plants	179
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-05ER15663 02/14/2013 Umstadter	SC-22.11	Laser Produced Coherent X-Ray Sources	150
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-00ER15044 04/30/2013 Spreitzer	SC-22.13	Role of the Rubisco Small Subunit	165
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-96ER14646 05/31/2014 Starace	SC-22.11	Dynamics of Few-Body Atomic Processes	120

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NE)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
EBRASKA, UNIVERSITY OF LINCOLN Lincoln, NE	DE-FG02-09ER64908 09/14/2012 Dweikat	SC-23.2	Characterization of Nitrogen Use Efficiency in Sweet Sorghum	130
NEBRASKA, UNIVERSITY OF OMAHA Omaha, NE	DE-FG02-08ER64579 07/14/2012 Lyubchenko	SC-23.2	Nanoimaging to Prevent and Treat Alzheimer's and Parkinson's Diseases	0
			Total for NE :	1,623

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER54915 01/31/2012 Rogers	SC-24.2	Gyrokinetic Simulations of Turbulent Transport in Fusion Plasmas	0
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-07ER46392 06/30/2013 Baker	SC-22.22	Deformation of Spinodally-Formed Nanostructured Two-Phase B2/L21 Alloys	150
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-05ER15704 09/14/2012 Schaller	SC-22.13	Post-transcriptional regulation of ethylene perception and signaling in Arabidopsis	174
DARTMOUTH COLLEGE Hanover, NH	DE-FG02-06ER15809 07/31/2012 Guerinot	SC-22.13	From the Soil to the Seed: Metal Transport in Arabidopsis	160
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-88ER40410 12/31/2014 Holtrop, Slifer, Calarco	SC-26.1	Electromagnetic Studies of Nucleon and Nuclear Structure	415
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER46372 06/30/2013 Bhattacharjee	SC-22.21	Center for Integrated Computation and Analysis of Reconnection and Turbulence	750
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-07ER54941 07/31/2012 Chen	SC-24.2	Collaborative Research: Dynamics of Electrostatic Solitary Waves and Their Effects on Current Layers	0
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-11ER55108 08/31/2014 Fox	SC-24.2	Fast Magnetic Reconnection in High-Energy Laser-Produced Plasmas	123
NEW HAMPSHIRE, UNIVERSITY OF Durham, NH	DE-FG02-11ER55093 07/14/2016 Germaschewski	SC-24.2	Extended MHD Modeling of Nonlinear Instabilities in Fusion Plasmas	150
Total for NH :				1,922

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ALCATEL-LUCENT USA Murray Hill, NJ	DE-FC02-10ER25997 08/31/2013 McKie	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	80
ALCATEL-LUCENT USA Murray Hill, NJ	DE-FG02-08ER25847 01/14/2012 McKie	SC-21.1	HARE - Holistic Aggregated Resource Environment for Million-CPU Systems	300
HRS FUSION, LLC West Orange, NJ	DE-FG02-09ER55030 08/14/2012 Strauss	SC-24.2	Hall MHD Stability and Turbulence in Magnetically Accelerated Plasmas	75
HRS FUSION, LLC West Orange, NJ	DE-FC02-09ER55009 02/14/2016 Strauss	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	65
INSTITUTE FOR ADVANCED STUDY Princeton, NJ	DE-FG02-90ER40542 11/30/2012 Seiberg, Arkani-Hamed, Adler	SC-25	Problems in Particle Theory	770
TMOS ADMIN, COMMERCE-PRINCETON Princeton, NJ	DE-AI02-11ER65147 08/31/2014 Donner	SC-23.1	Using ARM Observations to Evaluate Cloud and Convection Parameterizations and Cloud-Convection-Radiation Interactions in the GFDL Atmospheric General Circulatio	124
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-09ER64834 06/01/2012 Prodan	SC-23.1	Adopting Biophysical Methods in Pursuit of Biogeophysical Research	0
NEW JERSEY INSTITUTE OF TECH Newark, NJ	DE-FG02-07ER46402 07/14/2014 Tyson	SC-22.22	Exploring Electrical Polarization Mechanisms in Multiferroic Oxides	164
NOVA PHOTONICS, INC. Princeton, NJ	DE-FG02-01ER54616 12/14/2012 Levinton	SC-24.2	Development of the Motional Stark Effect Diagnostic Using Laser-Induced Fluorescence (MSE-LIF)	360
NOVA PHOTONICS, INC. Princeton, NJ	DE-FG02-99ER54520 02/29/2012 Levinton	SC-24.2	The Motional Stark Effect Diagnostic for NSTX	430
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-08ER55001 07/31/2012 Fleischer	SC-24.2	Kinetic Instabilities and Turbulence in Photonic Plasma	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER55010 03/31/2012 Fisch	SC-24.2	Alpha Channeling in Open-System Magnetic Devices	60
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER41659 04/14/2015 Marlow	SC-25	RECOVERY ACT: Exploring New Physics Beyond the Standard Model	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER64813 08/31/2012 Rabinowitz	SC-23.2	Integration of Carbon, Nitrogen, and Oxygen Metabolism in Escherichia Coli	166
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER55095 07/31/2014 Suckewer	SC-24.2	Compact Ultraintense FSEC Laser Via Raman Amplifier and Compressor in Plasma	129

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER64467 02/29/2012 Sarmiento	SC-23.1	Do Coupled Climate Models Correctly Simulate the Upward Branch of the Deep Ocean Global Conveyor	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-07ER46419 07/31/2013 Yazdani	SC-22.22	Probing Correlated Superconductors and their Phase Transitions on the Nanometer Scale	200
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER46610 08/31/2012 Bhatt	SC-22.22	TMS: Design Principles for Quantum Hall States	475
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER46773 08/31/2013 Car	SC-22.22	CMSN: Structure and Dynamics of Water and Aqueous Solution in Materials Science	320
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45706 04/30/2013 Cava	SC-22.23	New Superconducting Materials	186
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-98ER45683 02/14/2013 Tsui	SC-22.22	Transport Experiments on 2D Correlated Electron Physics in Semiconductors	165
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-00ER45841 11/14/2012 Shayegan	SC-22.22	Magneto-Transport in GaAs Two-Dimensional Hole Systems	175
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER41758 08/31/2012 McDonald	SC-25	Fast Timing Detectors for High-Rate Environments	49
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46200 07/31/2012 Hasan	SC-22.21	Synchrotron X-ray Based Electronic Structure Study of Correlated Quantum Materials	410
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-05ER46201 04/30/2014 Car	SC-22.22	Fundamental Theory of Electronic Structure in the Nanoregime: Transport Through Single Molecules	105
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46165 04/30/2012 Kahn	SC-22.22	Understanding and Design of Polymer Devices Interfaces	0
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-04ER46108 12/31/2014 Torquato	SC-22.23	Optimizing Interaction Potentials to Form Targeted Material Structures	127
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-06ER46344 03/14/2013 Selloni	SC-22.23	Conceptual Design by First-Principles Molecular Dynamics of a Nanostructured Bio-Inspired Catalyst/ Electrode System for Hydrogen Production	225
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-02ER15344 10/31/2014 Rabitz	SC-22.11	Control of Molecular Dynamics: Algorithms for Design, Analysis and Implementation	130
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16057 08/31/2012 Panagiotopoulos	SC-22.11	Interactions, Phase Equilibria and Self-Assembly in Ionic Systems	119

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16058 02/28/2013 Carter	SC-22.11	Optimizing New Materials for Solar Energy Conversion Via Quantum Mechanics	144
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16065 08/31/2012 Bocarsly	SC-22.13	Photoelectrochemical Conversion of Carbon Dioxide to Methanol and Higher Order Alcohols	210
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER16031 07/31/2014 Law	SC-22.13	Energy Frontier Research Center for Combustion Science -- EFRFC	3,537
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER16222 07/14/2014 Chirik	SC-22.12	Understanding Nitrogen Fixation	160
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-91ER40671 04/30/2012 Marlow, Smith	SC-25	High Energy Physics Research	2,839
PRINCETON UNIVERSITY Princeton, NJ	DE-FC02-08ER41544 09/14/2012 Burrows	SC-25	SciDAC: Computational Astrophysics Consortium: 3. Supernovae, Gamma-Ray Bursts, and Nucleosynthesis	75
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER26024 08/31/2013 Kevrekidis	SC-21.1	Modeling and Simulation of High Dimensional Stochastic Multiscale PDE Systems at the Exascale	124
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER25877 08/31/2012 Kevrekidis	SC-21.1	Equation-Free and Variable-Free Modeling for Complex/Multiscale Systems: Coarse-Grained Computation in Science and Engineering Using Fine-Grained Models	524
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-09ER64748 05/14/2012 Peters	SC-23.1	Effects of Pore Structure Change and Multi-Scale Heterogeneity on Contaminant Transport and Reaction Rate Upscaling	137
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER65313 09/15/2014 Jaffe	SC-23.1	Fate of Uranium During Transport Across the Groundwater-Surface Water Interface	250
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER65335 09/14/2014 Held	SC-23.1	Parameterization Development at High Resolution in Atmospheric Models Utilizing Both Idealized and Realistic Model	668
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER65307 09/14/2014 Sarmiento	SC-23.1	Collaborative Project: Mode and Intermediate Waters in Earth System Models	167
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER65288 09/14/2014 Morel	SC-23.1	Mechanisms of Hg(II) Uptake and Methylation in Methylating Bacteria	250
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER65265 08/31/2014 Rabinowitz	SC-23.2	Metabolomics of Clostridial Biofuel Production	440
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-11ER65266 08/31/2014 Yang	SC-23.2	Development of Quantum Dot Probes for Studies of Synergy Between Components of the Wood-Degrading Fungal Enzymes	645

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER65101 09/14/2013 Myneni	SC-23.1	Role of Sulfhydryl Sites on Bacterial Cell Walls in the Biosorption, Mobility and Bioavailability of Mercury	242
PRINCETON UNIVERSITY Princeton, NJ	DE-FG02-10ER64990 07/14/2013 Onstott	SC-23.2	The Impact of Global Warming on the Carbon Cycle of Arctic Permafrost: An Experimental and Field Based Study	668
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-96ER40959 02/28/2013 Thomas	SC-25	Research in Theoretical High Energy Physics	577
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-01ER41165 02/28/2013 Neuberger	SC-25	Research in High Energy Physics - Theory	90
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-10ER25977 04/30/2013 Silver	SC-21.1	SciDAC Institute for Ultra-Scale Visualization: Activity Recognition for Ultra-Scale Visualization	140
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-01ER15256 01/14/2012 Galoppini, Bartynski	SC-22.13	Model Dyes for Study of Electron Transfer Processes at Metal Oxide Semiconductor Interfaces	192
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-93ER14331 02/14/2014 Bartynski	SC-22.12	Nanoscale Surface Chemistry and Electrochemistry of Clean and Metal-Covered Faceted Substrates: Structure, Reactivity and Electronic	170
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-09ER16118 09/14/2012 Castner	SC-22.13	SISGR: Physical Chemistry of Reaction Dynamics in Ionic Liquids	650
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-10ER16195 08/31/2013 Dismukes	SC-22.13	Maximizing Photosystem II Water Oxidizing Efficiency Through the Identification of Optimal Protein Coordination Environments	165
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-99ER45742 11/14/2012 Andrei	SC-22.22	Experimental Studies of Magnetic Correlation and Induced Superconductivity in Graphene Crystals	160
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-99ER45790 06/30/2012 Coleman	SC-22.22	Spin Driven Phenomena in Strongly Correlated Materials	125
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-99ER45761 08/14/2012 Kotliar, Abrahams	SC-22.22	Correlation Effects and Magnetism in Actinide: Elements and Compounds	150
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-06ER46336 05/14/2013 Garofalini	SC-22.23	Atomistic Structure, Strength, and Kinetic Properties of Intergranular Films in Ceramics	190
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-07ER46382 05/31/2013 Cheong	SC-22.21	Magnetoelectric Hybrid Modes in Multiferroics: Neutron and Ellipsometry Studies	209
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-10ER46765 05/14/2014 Batson	SC-22.21	Discovery of Dielectric Response and Forces in Sub-Nanoscale Objects	200

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NJ)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-10ER46763 08/31/2013 Podzorov	SC-22.23	Basic Surface Chemistry and Physics of Carbon-Based Electronic Materials Modified by Silane Molecular Layers	133
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-10ER46778 08/31/2013 Blumberg	SC-22.22	Raman Spectroscopy of Iron Oxypnictide Superconductors	140
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-10ER46775 08/31/2013 Kotliar	SC-22.22	CMSN: Computational Design of Fe-based Superconductors	245
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-08ER64544 04/30/2012 Barkay	SC-23.1	Reduction of Mercury in Saturated Subsurface Sediments and its Potential to Mobilize Mercury in its Elemental Form	0
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-08ER64531 05/31/2012 Miller	SC-23.1	Site Science for the Atmospheric Radiation Measurement Mobile Facility #1	416
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FC02-06ER54857 01/14/2013 Parashar	SC-24.2	SciDAC - Center for Plasma Edge Simulation	150
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-96ER40987 06/30/2014 Mekjian	SC-26.1	Studies of Nuclei Under the Extreme Conditions of Density, Temperature, Isospin Asymmetry and the Phase Diagram of	62
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-11ER65145 03/31/2012 Zylstra	SC-23.1	US-EU Environmental Biotechnology Short Course on Microbial Catalysts for the Environment, July 2011	70
TATE UNIV OF NJ, NEW BRUNSWICK New Brunswick, NJ	DE-FG02-11ER65229 09/14/2014 Barkay	SC-23.1	Microbial Oxidation of Hg(0): Its Effect on Hg Stable Isotope Fractionation and Methylmercury Production	339
ERS - STATE UNIV OF NJ, NEWARK Newark, NJ	DE-FG02-11ER65219 09/14/2014 Schafer	SC-23.1	Effects of Disturbance on Carbon Sequestration in the New Jersey Pine Barrens	195
ERS - STATE UNIV OF NJ, NEWARK Newark, NJ	DE-FG02-11ER65311 09/14/2013 Keating	SC-23.1	Integrated Geophysical Measurements for Bioremediation Monitoring: Combining Spectral Induced Polarization, Nuclear	150
ERS - STATE UNIV OF NJ, NEWARK Newark, NJ	DE-FG02-09ER64854 08/14/2012 Ntarlagiannis	SC-23.1	Quantifying Microbe-Mineral Interactions Leading to Remotely Detectable Induced Polarization Signals: Implications for Monitoring Bioremediation	0
ERS - STATE UNIV OF NJ, NEWARK Newark, NJ	DE-FG02-06ER15828 12/31/2011 Piotrowiak	SC-22.13	Femtosecond Fluorescence Microscopy of Nanoparticles in Solar Photoconversion	0

Total for NJ :

21,407

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NM)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CE RESEARCH LAB., KIRTLAND AFB Kirtland AFB, NM	DE-AI02-04ER54764 05/31/2012 Degnan	SC-24.2	Compressional Heating of a Simply Connected, Magnetically Confined Toroidal Plasma	1,734
N INDIAN SCIENCE & ENG SOCIETY Albuquerque, NM	DE-FG02-10ER30327 05/14/2013 George	SC-27	AISES: Intertribal Middle School Science Bowl (IMSSB)	148
CNI TECHNICAL SERVICES, LLC Albuquerque, NM	DE-AC02-11ER35923 03/31/2013 Humphries	SC-45	IT Support Contract	1,500
LOVELACE BIOMED & ENVIR RES IN Albuquerque, NM	DE-FG02-09ER64783 07/14/2014 Scott	SC-23.2	Biological Bases for Radiation Adaptive Responses in the Lung	1,500
EXICO INST. OF MINING AND TECH Socorro, NM	DE-FG02-08CH11529 03/31/2012 Jones, Cervantes	SC-23	New Mexico Institute of Mining and Technology Will Use These Funds to Facilitate and Plan for Efforts to Construct an On-Campus Research Facility	0
O STATE UNIVERSITY, LAS CRUCES Las Cruces, NM	DE-FG02-08ER15996 08/14/2014 Smith	SC-22.12	Nitrogen Atom Transfer from High Valent Iron	155
O STATE UNIVERSITY, LAS CRUCES Las Cruces, NM	DE-FG02-94ER40847 03/31/2012 Kyle	SC-26.1	Experimental Studies of Quark-Gluon Structure of Nucleons and Nuclei	470
O STATE UNIVERSITY, LAS CRUCES Las Cruces, NM	DE-FG02-96ER40965 03/31/2014 Burkardt, Engelhardt	SC-26.1	Quark Gluon Structure of Hadrons in QCD	150
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-04ER41300 02/28/2013 Matthews, Seidel, Gold	SC-25	New Mexico Center for Particle Physics (NMCPP) -- Task A: Collider Physics; Task A2 Collider Physics; Task B: Particle Astrophysics	510
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-94ER40821 11/30/2014 Bassalleck, Fields	SC-26.1	Strange Particles and Heavy Ion Physics	363
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER25899 07/31/2012 Ghani	SC-21.1	Virtualized Network Control (VNC) Project	52
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FC02-10ER26007 08/31/2013 Bridges	SC-21.1	Enabling Exascale Hardware and Software Design Through Scalable System Virtualization	450
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-06ER15765 12/31/2012 Kemp	SC-22.12	Direct Partial Oxidations Using Molecular Oxygen	250
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15712 08/31/2014 Datye	SC-22.12	Nanostructured Catalysts for Hydrogen Generation from Renewable Feedstocks	205
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-03ER15419 07/31/2012 Paine	SC-22.12	Preorganized and Immobilized Ligands for Metal Ion Separations	145

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NM)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-05ER15694 10/31/2014 Guo	SC-22.11	Quantum Dynamics of Elementary Chemical Reactions	61
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-02ER15368 11/14/2012 Brinker	SC-22.12	Catalytic and Transport Behaviors of Model Porous and Composite Nanostructures	180
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-08ER46506 06/30/2012 Litvak	SC-22.21	Linking Ecosystem Scale Vegetation Change to Shifts in Carbon and Water Cycling: The Consequences of Widespread Pinon	0
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-08ER46530 08/31/2012 Atanassov	SC-22.21	DOE EPSCoR Materials for Energy Conversion	500
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER46619 08/14/2012 Lynn	SC-22.21	Development of Optimized Field-Reversed Configuration Plasma Formation Techniques for Magnetized Target Fusion	15
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER46720 06/30/2013 Leseman	SC-22.21	Manipulation of Phonons With Phononic Crystals	10
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-07ER64393 03/14/2014 Pockman	SC-23.1	Hydraulic Mechanisms of Survival and Mortality During Drought in Pinon-Juniper Woodlands of Southwestern USA	508
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-09ER55062 08/14/2012 Gilmore	SC-24.2	Collaborative Research: Numerical and Experimental Investigation of Turbulent Transport Control via Shaping of Radial Plasma Flow Profiles	40
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER55028 05/31/2012 Gilmore	SC-24.2	Formation of Imploding Plasma Liners for HEDP and MIF Applications	137
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-10ER41674 05/31/2015 Allahverdi	SC-26.1	Neutrinos and Nucleosynthesis in Hot and Dense Matter	93
NEW MEXICO, UNIVERSITY OF Albuquerque, NM	DE-FG02-99ER41104 05/14/2014 Ellison	SC-25	Investigations of Beam Dynamics Issues at Current and Future Hadron Accelerators	166
NC (DBA NEW MEXICO CONSORTIUM) Los Alamos, NM	DE-FG02-09ER55026 07/31/2012 Rose	SC-24.2	Instability and Transport of Laser Beam in Plasma	115
Total for NM :				9,457

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NV)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SYSTEM OF HIGHER ED - LAS VEGAS Las Vegas, NV	DE-FG02-08ER64709 05/31/2012 Piechota	SC-23.2	University of Nevada, Las Vegas Water in the 21st Century Multi-Disciplinary Research Project	0
SYSTEM OF HIGHER ED - LAS VEGAS Las Vegas, NV	DE-FG02-03ER63651 09/14/2012 Nowak	SC-23.1	Biotic Processes Regulating the Carbon Balance of Desert Ecosystems	0
SYSTEM OF HIGHER ED - LAS VEGAS Las Vegas, NV	DE-FG02-10ER46721 06/30/2013 Cornelius	SC-22.21	High Pressure X-ray Absorption Studies on Correlated-Electron Systems	15
SYSTEM OF HIGHER ED - LAS VEGAS Las Vegas, NV	DE-FG02-03ER15424 01/31/2013 Phaneuf	SC-22.11	Energetic Photon and Electron Interactions with Positive Ions	165
ADA SYSTEM OF HIGHER ED - RENO Reno, NV	DE-FG02-11ER16218 06/30/2014 Darling	SC-22.12	A New Probe for Rock Elasticity - Time-of-flight Modulation (TOFM)	61
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER54752 05/31/2012 Bauer	SC-24.2	Intense Magnetized Plasma-Wall Interaction	380
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-08ER54951 12/14/2013 Safronova	SC-24.2	Theoretical Study of Radiation for Tungsten Ions for Magnetic Fusion Diagnostics	150
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-10ER41647 05/31/2012 Murphy	SC-25	Single Crystal Niobium Tubes for Particle Colliders Accelerator Cavities	200
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-09ER46670 03/14/2013 Li	SC-22.22	Micro-Mechanisms and Multi-Scale Modeling of Cyclic Plastic Deformation of Magnesium Single Crystals	280
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-05ER15645 12/31/2012 Ervin	SC-22.11	Hydrocarbon Radical Thermochemistry: Gas-Phase Ion Chemistry Studies	141
NEVADA, UNIVERSITY OF Reno, NV	DE-FG02-04ER15626 08/31/2012 Harper	SC-22.13	P-type ATPases in Plants- Role of Lipid Flippases in Membrane Biogenesis	140
GHER ED OBO DESERT RES INST-LV Las Vegas, NV	DE-FG02-10ER64965 06/14/2013 Moser	SC-23.1	Radiochemically-Supported Microbial Communities: A Potential Mechanism for Biocolloid Production of Importance to Actinide Transport	370
ER ED OBO DESERT RES INST-RENO Reno, NV	DE-FG02-09ER64851 08/14/2012 Koracin	SC-23.1	North Pacific Mesoscale Coupled Air-Ocean Simulations Compared with Observations	0
ER ED OBO DESERT RES INST-RENO Reno, NV	DE-FG02-06ER64201 03/14/2012 Mitchell	SC-23.1	Improving the Representation of Ice Sedimentation Rates in Global Climate Models	170
Total for NV :				2,072

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ALFRED UNIVERSITY Alfred, NY	DE-FG02-10ER16128 03/14/2013 Bowers	SC-22.12	Computational and Experimental Investigations of the Molecular Scale Structure and Dynamics of Geologically	78
N NATIONAL STANDARDS INSTITUTE New York, NY	DE-FG02-09ER46566 08/14/2013 Benko	SC-22.22	Nanotechnology Standardization Activities - Support of U.S. Representation on ISO/TC 229 Nanotechnologies	10
BARNARD COLLEGE New York, NY	DE-FG02-11ER65370 09/14/2013 Mailloux	SC-23.1	Linking As, Se, V, and Mn Behavior to Natural and Biostimulated Uranium Cycling	150
THOMPSON INST. FOR PLANT RES. Ithaca, NY	DE-FG02-08ER64628 07/31/2013 Harrison	SC-23.1	Identification of Genes That Regulate Phosphate Acquisition and Plant Performance During Arbuscular Mycorrhizal Symbiosis in Medicago Truncatula and	0
THOMPSON INST. FOR PLANT RES. Ithaca, NY	DE-FG02-90ER20015 08/31/2013 Stern	SC-22.13	Function and Regulation of Chloroplast-Encoded Antisense RNAs	151
CLARKSON UNIVERSITY Potsdam, NY	DE-FG02-11ER16272 11/30/2014 Issen	SC-22.12	Non-Darcian Flow, Imaging, and Coupled Constitutive Behavior of Heterogeneous Deforming Porous Media	97
COLUMBIA UNIVERSITY New York, NY	DE-FG02-92ER40699 11/30/2013 Christ, Weinberg	SC-25	Theoretical High Energy Physics	1,771
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER40764 12/14/2013 Gyulassy	SC-26.1	Theory of Ultra-Dense Matter and the Dynamics of High Energy Interactions Involving Nuclei	295
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER25783 08/14/2012 Keyes	SC-21.1	Towards Optimal Petascale Simulations (TOPS)	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-08ER25856 08/14/2012 Goldfarb	SC-21.1	Algorithms for Mathematical Programming with Emphasis on Bi-Level Models	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER25919 08/31/2012 Gelman	SC-21.1	Petascale Hierarchical Modeling via Parallel Execution	283
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER25915 09/14/2012 Waisman	SC-21.1	Modeling the Fracture of Ice Sheets on Parallel Computers	238
COLUMBIA UNIVERSITY New York, NY	DE-FC02-10ER25990 08/31/2013 Bergman	SC-21.1	Data Movement Dominates: Advanced Memory Technology to Address the Real Exascale Power Problem	400
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER40281 11/14/2013 Zajc	SC-26.1	Jet and Heavy Flavor Probes of the Quark-Gluon Plasma	731
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER16224 06/30/2014 Brus	SC-22.13	Graphene Charge Transfer and Chemical Reactions	224

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER16064 08/14/2012 McDermott	SC-22.13	Studies of Structure and Dynamics of Light Harvesting Complex 1 of R. Sphaeroides by Solid State NMR	240
COLUMBIA UNIVERSITY New York, NY	DE-FG02-93ER14339 07/31/2012 Parkin	SC-22.12	Fundamental Studies of Metal Centered Transformations Relevant to Catalysis	155
COLUMBIA UNIVERSITY New York, NY	DE-FG02-97ER14807 05/31/2013 Norton	SC-22.12	Catalytic Applications of H Atom Transfer from Transition-Metal Hydride Complexes	155
COLUMBIA UNIVERSITY New York, NY	DE-FG02-01ER15264 01/31/2014 Nuckolls, Brus	SC-22.12	Catalytic Growth of Molecular-Scale Wiring.	170
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14162 04/30/2012 Friesner	SC-22.13	Theoretical Studies of Photoactive Molecular Systems: Electron Transfer, Energy Transport, and Optical Spectroscopy	180
COLUMBIA UNIVERSITY New York, NY	DE-FG02-91ER14226 01/31/2013 Eisenthal	SC-22.11	Photochemistry at Interfaces	152
COLUMBIA UNIVERSITY New York, NY	DE-FG02-90ER14104 05/31/2014 Osgood	SC-22.11	Laser Dynamics Studies of Photoreactions on Single-Crystal and Nanostructured Surfaces	120
COLUMBIA UNIVERSITY New York, NY	DE-FG02-88ER13937 06/30/2012 Flynn	SC-22.11	Scanning Tunneling Microscopy Studies of Chemical Reactions on Surfaces	160
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER64809 07/14/2012 Hall, Smilenov	SC-23.2	Genetic Control of the Trigger for the G2/M Checkpoint	433
COLUMBIA UNIVERSITY New York, NY	DE-FG02-07ER64334 07/31/2012 Kleiman	SC-23.2	Low Dose Radiation Cataract	0
COLUMBIA UNIVERSITY New York, NY	DE-FG02-00ER54585 08/14/2012 Mauel	SC-24.2	Nonlinear Dynamics of Strong Interchange Instabilities in a Rotating Dipole-Confined Plasma	105
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER54761 08/14/2013 Navratil	SC-24.2	MHD Mode Control Research in DIII-D	384
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER46829 07/31/2014 Millis	SC-22.22	CMCSN: Many Body Methods from Chemistry to Physics: Novel Computational Techniques for Materials-Specific Modelling a Computational Materials and Chemical ...	320
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER46805 07/14/2016 Owen	SC-22.23	Measuring the Importance of Valence to Chemistry of Nanocrystal Surfaces	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER46811 08/31/2014 Kumar	SC-22.23	Optimizing Immobilized Enzyme Performance in Cell-Free Environments to Produce Liquid Fuels	120

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
COLUMBIA UNIVERSITY New York, NY	DE-FG02-86ER53222 11/30/2013 Navratil	SC-24.2	High Beta Tokamak Research	1,100
COLUMBIA UNIVERSITY New York, NY	DE-FG02-99ER54524 03/14/2014 Sabbagh	SC-24.2	Study of MHD Stability and Active Mode Control in NSTX	554
COLUMBIA UNIVERSITY New York, NY	DE-FG02-95ER54333 01/31/2013 Boozer	SC-24.2	Stellarator Theory	79
COLUMBIA UNIVERSITY New York, NY	DE-FG02-03ER54696 02/14/2012 Boozer	SC-24.2	Resistive Wall Modes and Error Field Amplification	100
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54464 01/14/2012 Sen	SC-24.2	Basic Physics of Tokamak Transport and Feedback Control	162
COLUMBIA UNIVERSITY New York, NY	DE-FG02-98ER54459 10/31/2012 Mauel	SC-24.2	Levitated Dipole Experiment	123
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54862 01/14/2012 Keyes	SC-24.2	Center for Plasma Edge Simulation	120
COLUMBIA UNIVERSITY New York, NY	DE-FC02-06ER54863 01/14/2012 Keyes	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics	55
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER41743 07/14/2016 Nicolis	SC-25	Quantum Field Theories for Cosmology	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46157 07/14/2012 Osgood	SC-22.22	Mapping the Electron Response of Nanomaterials	205
COLUMBIA UNIVERSITY New York, NY	DE-FG02-05ER46215 07/14/2014 Kim	SC-22.22	Investigation of the Electron Interactions in Graphene	175
COLUMBIA UNIVERSITY New York, NY	DE-FG02-04ER46169 08/31/2013 Millis	SC-22.22	Theory of Surface and Interface Physics of Correlated Electron Materials	150
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER65274 08/31/2014 Robertson	SC-23.1	Collaborative Research: Decadal Prediction and Stochastic Simulation of Hydroclimate Over Monsoonal Asia	355
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER65291 09/14/2014 Tselioudis	SC-23.1	Advancing Cloud Lifecycle Representation in Numerical Models Using Innovative Analysis Method that Bridge ARM Observation Over a Breadth of Scales	156
COLUMBIA UNIVERSITY New York, NY	DE-FG02-11ER65337 09/14/2014 Perez Garcia-Pando	SC-23.1	Improving the Representation of Soluble Iron in Climate Models	145

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
COLUMBIA UNIVERSITY New York, NY	DE-FG02-09ER64898 09/14/2014 Bauer	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	242
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER41628 08/14/2012 Hoffstaetter	SC-25	Fundamental Research in Superconducting RF Cavity Design	412
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER26025 08/31/2013 Zabaras	SC-21.1	Modeling and Simulation of High Dimensional Stochastic Multiscale PDE Systems at the Exascale	139
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-93ER25164 02/28/2012 Guckenheimer	SC-21.1	Computational Analysis of Dynamical Systems	0
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER16199 08/31/2013 Chen	SC-22.12	Chemical Imaging of Single Metal Nanoparticle Catalysis	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER16210 01/31/2014 Elser	SC-22.11	Algorithms for X-Ray Imaging of Single Particles	150
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER16257 08/31/2014 Umrigar	SC-22.11	Quantum Chemistry via Walks in Determinant Space	282
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER16070 08/14/2012 Hanson	SC-22.13	Chloroplast Dynamics and Photosynthetic Efficiency	160
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-05ER15687 08/14/2014 Coates	SC-22.12	Development and Application of New Catalysts for Heterocycle Carbonylation	190
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-00ER15095 12/31/2013 Davis	SC-22.11	Bimolecular Dynamics of Combustion Reactions	150
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-01ER15180 04/30/2012 Cool	SC-22.11	Studies of Flame Chemistry with Sampling Photoionization Mass Spectrometry	109
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-90ER14128 06/14/2012 Pope	SC-22.11	Investigation of Non-Premixed Turbulent Combustion	146
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-08ER46517 05/31/2014 Liddell	SC-22.23	Self-Assembly of Non-Spherical Colloids: New Reduced Symmetry Crystals and Mesophases for Templating Functional Materials at Fine Scales	200
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46432 08/31/2013 Chan	SC-22.22	Bridging the Quantum-Chemistry Solid-State Divide: Theory and Application to Molecular Crystals	285
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46440 08/31/2013 van Dover	SC-22.22	Complex Amorphous and Crystalline Thin Film Dielectrics	190

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46758 08/14/2013 Miller	SC-22.22	Understanding Microplasticity Processes Related to Fatigue Damage Using High Energy X-Rays and a Crystal-Based Modeling	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER46791 05/31/2012 Brock	SC-22.3	Workshops on Science Enabled by a Coherent, CW, Synchrotron X-Ray Source, June 2011	100
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER46693 04/30/2013 Gruner	SC-22.3	Versatile, Reprogrammable Area Pixel Array Detector for Time-Resolved Synchrotron X-ray Applications	700
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER46654 09/14/2012 Schlom	SC-22.23	SISGR - Using Interfaces To Create Strongly-Coupled Magnetic-Ferroelectrics	700
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER41728 02/29/2012 Talman	SC-26.2	Simulation and Optimization of the Spin Coherence Time for the Proton Electric Dipole Moment Measurement	45
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER41717 07/14/2014 Rubin	SC-25	Damping Ring R&D at CESR TA	1,200
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-87ER45298 12/31/2013 DiSalvo	SC-22.23	Synthesis, Characterization and Properties of Nanoparticles of Intermetallic Compounds	270
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-89ER45405 04/30/2012 Henley	SC-22.22	Quasi-crystals and Quasi-equivalence: Symmetries and Energies in Alloys and Biological Materials	125
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-07ER46393 04/14/2013 Sethna	SC-22.22	Deformed Materials: Towards a Theory of Materials Morphology Dynamics	250
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER55031 08/14/2012 Hammer	SC-24.2	Spectroscopic Determination of the Magnetic Fields in Exploding Wire and X Pinch Plasmas	187
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-09ER55048 08/14/2012 Greenly	SC-24.2	Experimental and Computational Studies of High Energy Density Plasma Streams Ablated from Fine Wires	200
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER46821 08/31/2014 Wise	SC-22.22	Charge Transfer Across the Boundary of Photon-Harvesting Nanocrystals	655
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER65341 09/14/2014 Mahowald	SC-23.1	Collaborative Project: Building Improved Optimized Parameter Estimation Algorithms to Improve Methane and Nitrogen Fluxes in	337
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-10ER64988 06/14/2013 Buckley	SC-23.2	Microbial Food Web Mapping: Linking Carbon Cycling and Community Structure in Soils Through Pyrosequencing Enabled Stable Isotope Probing	301
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER65336 09/14/2014 Mahowald	SC-23.1	Collaborative Project: Improving the Representation of Soluble Iron in Climate Models	89

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER65255 08/31/2014 Rose	SC-23.2	Defining Determinants and Dynamics of Cellulose Microfibril Biosynthesis, Assembly and Degradation	675
CORNELL UNIVERSITY Ithaca, NY	DE-FG02-11ER65256 08/31/2014 Richardson	SC-23.2	Improved Understanding of Microbial Iron and Sulfate Reduction Through a Combination of Bottom-Up and Top-Down	382
GENERAL ELECTRIC COMPANY Niskayuna, NY	DE-FG02-09ER46575 07/31/2014 Soloveichik	SC-22.11	Center for Electrocatalysis, Transport Phenomena and Materials for Innovative Energy Storage -- EFRC	2,499
HEALTH RESEARCH, INC. Menands, NY	DE-FG02-09ER64756 05/14/2012 Newberg	SC-23.2	Bayesian Computational Approaches for Gene Regulation Studies of Bioethanol and Biohydrogen Production	69
IBM TJ WATSON RESEARCH CENTER Yorktown Heights, NY	DE-FC02-10ER25996 08/31/2013 Van Hensbergen	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	89
IBM TJ WATSON RESEARCH CENTER Yorktown Heights, NY	DE-FG02-09ER25941 09/14/2012 Moreira	SC-21.1	HPC Colony II	164
KITWARE, INC. Clifton Park, NY	DE-FC02-10ER26038 08/31/2013 Geveci	SC-21.1	A Pervasive Parallel Processing Framework for Data Visualization and Analysis at Extreme Scale	300
ODDARD INST. FOR SPACE STUDIES New York, NY	DE-AI02-09ER64739 04/30/2012 Del Genio	SC-23.1	Evaluation and Improvement of Cloud and Convective Parameterizations from Analyses of ARM Observations and Models	211
NEW YORK UNIVERSITY New York, NY	DE-FG02-86ER53223 12/31/2012 Weitzner, Chang	SC-24.2	Plasma Properties (Task III)	425
NEW YORK UNIVERSITY New York, NY	DE-FG02-08ER64654 10/31/2012 Barcellos-Hoff	SC-23.2	Integrative Radiation Biology	871
NEW YORK UNIVERSITY New York, NY	DE-FG02-03ER46099 02/28/2013 Evans	SC-22.23	Material Lessons of Biology: Structure-Function Studies of Protein Sequences Involved in Inorganic-Organic Composite Material Formation	250
NEW YORK UNIVERSITY New York, NY	DE-FG02-92ER20071 05/31/2014 Coruzzi	SC-22.13	Asparagine Synthetase Gene Regulatory Network and Plant Nitrogen Metabolism	170
NEW YORK UNIVERSITY New York, NY	DE-FG02-06ER25718 12/14/2012 Widlund	SC-21.1	Domain Decomposition and Parallel Computing	132
NEW YORK UNIVERSITY New York, NY	DE-FG02-88ER25053 04/30/2014 Berger, Greengard	SC-21.1	Applied Analysis and Computational Mathematics	1,350
NEW YORK UNIVERSITY New York, NY	DE-FG02-09ER25924 09/14/2012 Vanden-Eijnden	SC-21.1	Stochastic Nonlinear Data-Reduction Methods with Detection and Prediction of Critical Rare Events	118

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NIVERSITY, POLYTECHNIC INST OF Brooklyn, NY	DE-FG02-11ER65215 08/31/2014 Silva	SC-23.1	Ultra-Scale Visualization Climate Data Analysis Tools (UV-CDAT)	720
NIVERSITY, POLYTECHNIC INST OF Brooklyn, NY	DE-FC02-10ER26019 08/31/2013 Chiang	SC-21.1	An Informational-theoretic Framework for Enabling Extreme-scale Science Discovery	100
ORK, CITY U. OF BARUCH COLLEGE New York, NY	DE-FG02-09ER41620 06/30/2012 Jalilian-Marian	SC-26.1	High-Energy QCD in Heavy-Ion Collisions	95
ORK, CITY U. OF BARUCH COLLEGE New York, NY	DE-FG02-11ER41767 08/31/2013 Bathe	SC-26.1	Understanding Energy Loss of Hard Partons in the Quark-Gluon Plasma	81
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-06ER15817 08/14/2012 Koplik	SC-22.12	Particulate Transport and Sedimentation in Fracture Systems	96
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-09ER16075 08/31/2012 Gunner	SC-22.13	Studies of Photosynthetic Reaction Centers and Biomimetic Systems	165
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-03ER15458 04/30/2013 Makse	SC-22.12	Studies of Elasticity, Sound Propagation and Attenuation of Acoustic Modes in Granular Media	122
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-84ER45153 08/31/2012 Sarachik	SC-22.22	Thermal Conductivity and Thermopower Near the 2D Metal-Insulator Transition	25
NEW YORK, CITY U. OF CITY COLL New York, NY	DE-FG02-10ER46678 12/31/2012 Tamargo	SC-22.23	Synthesis & Engineering of Submonolayer Type-II Quantum Dots to Enhance Material Properties of Wide Bandgap Semiconductors	200
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-10ER46777 08/31/2013 Greenbaum	SC-22.23	Spectroscopic Studies of Materials for Electrochemical Energy Storage	180
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-01ER45935 01/14/2014 Matsui	SC-22.23	Programmed Nanomaterial Assemblies in Large-Scale Structures: Applications of Synthetic and Genetically Engineered	230
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-02ER15287 10/31/2014 Alexandratos	SC-22.12	Polymer-Supported Complexants: Metal Ion Selectivity and the Variables of Rational Design	145
NEW YORK, CITY U. OF HUNTER C. New York, NY	DE-FG02-09ER16097 09/14/2012 Francesconi	SC-22.12	SISGR - Fundamental Chemistry of Technetium-99 Incorporated Into Metal Oxide, Phosphate and Sulfide Materials:	400
ORK, CITY U. OF LEHMAN COLLEGE Bronx, NY	DE-FG02-93ER45487 04/14/2014 Chudnovsky	SC-22.22	Dynamics of the Magnetic Flux in Superconductors	80
RK, CITY U. OF, QUEENS COLLEGE Flushing, NY	DE-FG02-09ER16047 08/31/2012 Jang	SC-22.11	Computational Modeling and Theory Development of Energy and Charge Flow Dynamics in Photosynthetic Units and	82

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TY UNIVERSITY OF STATEN ISLAND Staten Island, NY	DE-FG02-09ER25907 08/31/2012 Teddall	SC-21.1	Analysis of Self-Similar Solutions of Multidimensional Conservation Laws	38
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-07ER41502 08/31/2013 Ernst	SC-25	New Ideas for the ATLAS Experiment	125
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-03ER63531 12/14/2012 Min	SC-23.1	Retrievals of Cloud Optical Properties and Photon Path Length Distributions Using Existing ARM Data Streams	188
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-92ER61369 01/31/2013 Wang	SC-23.1	Study of Regional Climate Change	388
NEW YORK, STATE U. OF ALBANY Albany, NY	DE-FG02-09ER64849 08/14/2012 Yu	SC-23.1	Coupling an Advanced Particle Microphysics Model with WRF-Chem and Improving Aerosol-Climate Interaction Simulations at Regional Scales	0
NEW YORK, STATE U. OF BINGHTN Binghamton, NY	DE-FG02-09ER46600 05/14/2012 Zhou	SC-22.23	In Situ Visualization and Theoretical Modeling of Early Stages of Oxidation of Metals and Alloys	150
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-90ER14143 10/14/2012 Bright	SC-22.12	Interfacial Solvation Under Aggressive Conditions	0
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-02ER15372 11/14/2012 Coppens	SC-22.13	Ground and Excited State Structures of Sensitizer Dyes Adsorbed on Semiconductor Nanoparticles	230
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER16066 08/14/2012 Autschbach	SC-22.12	Computational Studies of NMR Chemical Shifts in Open-Shell Actinide and Lanthanide Systems	140
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-10ER46781 09/14/2013 Zutic	SC-22.22	Tailoring Magnetism and Spin in Quantum Dots	140
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-09ER46660 09/14/2012 Takeuchi	SC-22.23	SISGR: Bimetallic Electrochemical Displacement Materials Yielding High Energy, High Power, and Improved Reversibility	200
NEW YORK, STATE U. OF BUFFALO Buffalo, NY	DE-FG02-04ER46180 09/14/2013 Bird	SC-22.22	Quantum Coherence and its Manipulation in Coupled Quantum Dots	147
NEW YORK, STATE U. OF DELHI Delhi, NY	DE-FG02-06ER64288 03/14/2012 Volk, Smith	SC-23.2	Center of Excellence in Watershed Applications and Technology-enhanced Economic Revitalization - Willow and Forest Biomass Project	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER64747 05/14/2012 Lindquist	SC-23.1	Effects of Pore Structure Change and Multi-Scale Heterogeneity on Contaminant Transport and Reaction Rate Upscaling	137
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-11ER65290 09/14/2014 Zhang	SC-23.1	Development of Integrated ASR Model Forcing Data and Their Applications to Improve CAM	358

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-98ER62570 02/29/2012 Zhang	SC-23.1	Development of Integrated ARM Datasets and Their Application to Improve Climate Models	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER64444 07/31/2012 Zhang	SC-23.1	Improved Atmosphere-Ocean Coupled Modeling in the Tropics for Climate Prediction	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER64900 09/14/2014 Zhang	SC-23.1	Continuous Evaluation of Fast Processes in Climate Models Using ARM Measurements	186
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER40988 03/31/2014 Jacak, Drees, Hemmick	SC-26.1	Studies of Relativistic Heavy Ion Collisions at RHIC	976
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER55036 06/30/2012 Samulyak	SC-24.2	Study of Plasma Liner Driven Magnetized Target Fusion via Advanced Simulations	72
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-11ER41723 11/30/2011 Kharzeev	SC-26.1	The Physics of Hot and Dense Quark-Gluon Matter	90
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-11ER41732 03/14/2012 Litvinenko	SC-25	2011 Particle Accelerator Conference, March 27-April 1, 2011	20
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-11ER46784 12/31/2013 Ben-Zvi	SC-22.3	Photocathodes for High Repetition Rate Light Sources	333
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER46650 09/14/2012 Parise	SC-22.21	SISGR - Fundamental Studies of the Structural Response of Disordered Materials to High P and T	164
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER46550 02/29/2012 Allen	SC-22.22	Quantum Theory of Semiconductor Photo-Catalysis and Solar Water Splitting	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-07ER41488 04/30/2012 Shkolnikov	SC-25	High Brightness Picosecond Ion Beam Source Based on Brookhaven National Lab Ultrafast Terawatt CO2 Laser: Proof-of-Principle	0
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-06ER41448 11/30/2013 Zingale	SC-26.1	Multidimensional Modeling of Astrophysical Thermonuclear Explosions	93
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-05ER41372 12/31/2013 Deshpande	SC-26.1	Studies of Polarized Proton Collisions at RHIC	310
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER41547 07/14/2012 Ben-Zvi	SC-25	Study of Electron Transport and Amplification in Diamond	123
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER41540 11/30/2012 Teaney	SC-26.1	Transport Processes in Non-Abelian Gauge Theories	98

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER41626 09/14/2012 Ben-Zvi	SC-25	R&D on Very-High-Current Superconducting Proton Linac	285
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40331 03/31/2014 Lacey	SC-26.1	Nuclear Reaction Studies	444
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-87ER40317 11/30/2013 Lattimer	SC-26.1	Research in Nuclear Astrophysics: Supernovae and Neutron Stars	221
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-88ER40388 11/30/2014 Shuryak	SC-26.1	Research in Theoretical Nuclear Physics	790
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-92ER40697 11/14/2012 Jung, Rijssenbeek, Hobbs	SC-25	Nucleon Decay and Neutrino Experiments and Experiments at High Energy Hadron Colliders	1,187
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-10ER16159 05/31/2013 Wong	SC-22.12	Changes of Porosity, Permeability and Mechanical Strength Induced by Carbon Dioxide Sequestration	210
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-08ER15984 02/14/2014 Weinacht	SC-22.11	Combining High Level Ab Initio Molecular Structure Calculations with Laser Control of Molecular Dynamics	120
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16017 05/31/2012 Reeder	SC-22.12	Structural Basis for Stabilization and Transformation Behavior of Amorphous Calcium Carbonate	168
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16033 07/31/2014 Whittingham	SC-22.22	Northeastern Chemical Energy Storage Center (NOCESC) -- EFRS	2,621
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-09ER16052 08/31/2012 Fernandez-Serra	SC-22.11	Optimizing Interfacial Charge Transfer in Photocatalytic Water Splitting Devices	49
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FC02-06ER25770 06/14/2012 Li	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations (ITAPS)	145
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-11ER16266 08/31/2014 Khalifah	SC-22.13	Next-Generation Semiconductors for Solar Photoelectrolysis	140
NEW YORK, STATE U. OF ST BROOK Stony Brook, NY	DE-FG02-96ER14633 06/30/2012 Schoonen	SC-22.12	Reactivity of Iron Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary and Experimental Approach	78
NEW YORK, STATE U. OF SYRACUSE Syracuse, NY	DE-FG02-09ER16101 12/14/2013 Dibble	SC-22.11	SISGR: Dynamics of Radical Reactions in Biodiesel Combustion	87
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER46593 05/31/2013 Kane	SC-22.23	Engineering the Interface Between Inorganic Materials and Cells	175

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER46608 08/31/2012 Zhang	SC-22.22	TMS: Defect Modeling Beyond the Density Functional Theory	600
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-06ER46347 09/14/2012 Lin	SC-22.22	Architectural Photonics for Maximizing Solar Energy Conversion	250
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-11ER55105 08/31/2016 Shephard	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	45
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-11ER46812 08/31/2014 Belfort	SC-22.23	Optimizing Immobilized Enzyme Performance in Cell-free Environments to Produce Liquid Fuels	145
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-06ER25769 12/14/2012 Shephard	SC-21.1	Interoperable Technologies for Advanced Petascale Simulations	500
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-10ER25989 08/31/2013 Carothers	SC-21.1	Enabling Co-design of Multi-layer Exascale Storage Architectures	144
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FC02-11ER26060 08/31/2016 Shephard	SC-21.1	Frameworks, Algorithms, and Scalable Technologies for Mathematics (FASTMath) SciDAC Institute	500
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-08ER41575 08/31/2014 Napolitano	SC-25	Searching for Theta ₁₃ at Daya Bay	286
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-07ER15903 08/31/2013 Lakshmi	SC-22.13	Elucidating the Principles that Control Proton-Coupled Electron Transfer Reactions in the Photosynthetic Protein, Photosystem	160
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-09ER16005 07/31/2012 Belfort	SC-22.12	Combinatorial and High Throughput Membrane Synthesis and Testing: Tailoring Membrane Surfaces to Applications	292
RENSSELAER POLYTECHNIC INST. Troy, NY	DE-FG02-94ER14432 10/31/2014 Watson	SC-22.12	The Role of Water in Grain Boundary Diffusion	0
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-93ER54215 11/30/2012 Betti	SC-24.2	Magnetohydrodynamics of Tokamak Plasma with Arbitrary Flow: Equilibrium, Stability and Nonlinear Evolution	97
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER55033 08/14/2012 Frank	SC-24.2	The Dynamics of Magnetized Astrophysical Jets Through Pulsed Power HEDP Laboratory Studies	574
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FC02-04ER54789 07/31/2014 Betti	SC-24.2	Fusion Science Center for Extreme States of Matter and Fast Ignition Physics	1,610
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER54839 05/31/2012 Theobald	SC-24.2	Advanced Concept Exploration of Fast Ignition	416

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-04ER54768 05/31/2012 Betti	SC-24.2	Laser Driven Magnetic-Flux Compression: Advanced Ignition and Applications to Basic Science	197
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER46298 04/30/2012 Teitel	SC-22.22	Critical Phenomena in Driven Granular Matter: Jamming and Glassy Behavior	115
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER46207 05/14/2014 Novotny	SC-22.22	Optical Spectroscopy of Defects and Dopants in Nanocarbon Materials	155
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-11ER41736 07/14/2016 Garcia-Bellido	SC-25	Precision Physics and Searches with Top and Bottom Quarks	150
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-11ER41751 08/14/2014 Wolfs	SC-25	Pushing the Dark Matter Limit: Triggering LUX	117
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER16121 09/14/2012 Bren	SC-22.13	SISGR: Modular Nanoscale and Biomimetic Assemblies for Photocatalytic Hydrogen Generation	560
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-09ER16089 09/14/2012 Holland	SC-22.12	High-Spin Cobalt Hydrides for Catalysis	145
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-11ER16221 06/30/2012 Prezhdo	SC-22.13	Atomistic Time-Domain Simulations of Light-Harvesting and Charge-Transfer Dynamics in Novel Nanoscale Materials for	151
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-05ER15713 01/31/2015 Eberly	SC-22.11	Atomic and Molecular Electron Correlation in Strong Fields	100
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-86ER13569 05/31/2014 Jones	SC-22.12	Transition Metal Activation and Functionalization of Carbon-Hydrogen Carbon-Carbon Bonds	155
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-01ER15204 10/31/2013 Novotny	SC-22.11	Antenna-Coupled Light-Matter Interactions	315
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-88ER40414 03/31/2014 Schroeder	SC-26.1	Studies of Heavy Ion Reactions and Transuranic Nuclei	321
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-91ER40685 04/30/2012 McFarland	SC-25	Theoretical and Experimental Studies of Elementary Physics	2,286
ROCHESTER, UNIVERSITY OF Rochester, NY	DE-FG02-06ER15821 02/28/2013 Krauss	SC-22.13	Photophysics and Photoinduced Charge Transport in Single Walled Carbon Nanotubes	120
ROCKEFELLER UNIVERSITY New York, NY	DE-FG02-91ER40651 01/31/2013 Goulianos	SC-25	Experimental Studies of Elementary Particle Interactions at High Energies	534

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (NY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ETTERING INST. FOR CANCER RES. New York, NY	DE-FG02-09ER64822 08/31/2013 Lewis	SC-23.2	Integrated Manhattan Project for Excellence in Radiochemistry (IMPER)	1,200
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-85ER40231 12/31/2012 Balachandran	SC-25	Research Program in Elementary Particle Theory	350
SYRACUSE UNIVERSITY Syracuse, NY	DE-FG02-84ER40146 03/31/2014 Souder	SC-26.1	Spin Dependent Phenomena in Medium Energy Physics	407
UNION COLLEGE Schenectady, NY	DE-FG02-05ER41398 08/31/2013 Surman	SC-26.1	Neutrinos and Nucleosynthesis in Gamma Ray Bursts	33
Total for NY :				54,007

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-90ER14151 06/30/2014 Perry	SC-22.11	The Dynamics of Large-Amplitude Motion in Energized Molecules	135
AKRON, UNIVERSITY OF Akron, OH	DE-FG02-10ER46779 08/31/2013 Karim	SC-22.21	In-situ Neutron Scattering Determination of 3D Phase-Morphology Correlations in Fullerene Block Copolymer Systems	266
BOWLING GREEN STATE UNIVERSITY Bowling Green, OH	DE-FG02-06ER15827 03/31/2013 Lu	SC-22.11	Single-Molecule Interfacial Electron Transfer	188
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-01ER45934 11/14/2012 Rosenblatt	SC-22.23	Nanosopic Manipulation and Imaging of Liquid Crystals	128
CASE WESTERN RESERVE UNIV. Cleveland, OH	DE-FG02-95ER40898 12/31/2012 Starkman, Vachaspati	SC-25	Theoretical Physics Research at the High Energy Frontier, Including Astrophysics and Cosmology	179
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-84ER40153 12/31/2013 Wijewardhana	SC-25	Research in Particle Physics Task A and B	770
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-04ER15604 08/14/2013 Guliants	SC-22.12	Surface Termination of M1 Phase and Rational Design of Propane Ammoxidation Catalysts	160
CINCINNATI, UNIVERSITY OF Cincinnati, OH	DE-FG02-07ER64353 08/31/2012 Heineman	SC-23.1	Spectroelectrochemical Sensor for Pertechnetate Applicable to Hanford and other DOE Sites	0
EVELAND CLINIC FOUNDATION, THE Cleveland, OH	DE-FG02-09CH11565 07/31/2012 Lowe	SC-23	Next Generation Neuroimaging at Cleveland Clinic	0
DAYTON, UNIVERSITY OF Dayton, OH	DE-FG02-11ER64978 02/29/2012 Hallinan	SC-23.2	Clean Energy Education Infrastructure Initiative (OH)	486
ENTAL PROTECT AGENCY, NRML-OH Cincinnati, OH	DE-AI02-11ER65233 09/14/2013 Scheckel	SC-23.1	Fate of Uranium During Transport Across the Groundwater-Surface Water Interface	28
KENT STATE UNIVERSITY Kent, OH	DE-FG02-10ER64971 05/31/2013 Blackwood	SC-23.2	Tracking Down Cheaters: Molecular Analysis of Carbon Consumption by Organisms That Do Not Contribute to Extracellular Enzyme Pools	376
KENT STATE UNIVERSITY Kent, OH	DE-FG02-09ER46572 02/28/2013 Kumar	SC-22.23	Biaxiality in Thermotropic Bent-Core and Tetrapodic Nematic Liquid Crystals	350
KENT STATE UNIVERSITY Kent, OH	DE-FG02-06ER46331 08/14/2013 Lavrentovich	SC-22.22	Electric Field Effects in Liquid Crystals with Dielectric Dispersion	180
KENT STATE UNIVERSITY Kent, OH	DE-FG02-01ER41194 06/14/2013 Manley	SC-26.1	Baryon Spectroscopy Through Partial-Wave Analysis and Meson Photoproduction	90

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
KENT STATE UNIVERSITY Kent, OH	DE-FG02-89ER40531 03/31/2012 Keane, Margetis	SC-26.1	Heavy Ion Collisions Over a Range of Relativistic Energies	449
MIAMI UNIVERSITY Oxford, OH	DE-FG02-07ER64369 03/14/2012 Dong	SC-23.1	Technetium and Iron Biogeochemistry in Suboxic Subsurface Environments with Emphasis on the Hanford Site	0
MIAMI UNIVERSITY Oxford, OH	DE-FG02-86ER45281 12/31/2013 Pechan	SC-22.22	Magnetic Nanostructures and Spintronic Materials	141
MIAMI UNIVERSITY Oxford, OH	DE-FG02-11ER65178 06/30/2012 Friedberg	SC-23.2	Critical Assessment of Function Annotation Conference, Summer 2011	5
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-99ER45795 12/31/2013 Wilkins	SC-22.22	Modeling Dynamically and Spatially Complex Materials	120
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-03ER46054 06/14/2013 Hammel	SC-22.21	Nanoscale Understanding of Exchange Bias and Spin Wave Manipulation Using Advanced MRFM Imaging Techniques	190
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER46567 06/30/2012 Mills	SC-22.22	Mechanisms and Modeling of High Output Shape Memory Alloys	204
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER46595 05/14/2012 Yang	SC-22.22	Optical Study of Spin Dynamics in Semiconductor Nanowires	200
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER46533 04/30/2012 Lemberger	SC-22.22	Experimental Study of Severely Underdoped Ultrathin Cuprate Films	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46427 08/31/2013 Wu	SC-22.22	Fabricating Highly Efficient Photocathodes for p-type Dye-sensitized Solar Cells	174
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46423 12/31/2013 Trivedi	SC-22.22	Orbitally Controlled Magnetism and Transport in Oxide Heterostructures: Quantum Simulations and Nanoscale Imaging	120
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER46424 04/30/2012 Trivedi	SC-22.22	Interaction Effects in Quasi-One-Dimensional Electron Systems	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER46740 08/14/2013 Randeria	SC-22.22	Theoretical Investigations of Single Particle Spectroscopies of Novel Materials	105
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-04ER15614 10/31/2013 DiMauro	SC-22.11	Attosecond and Ultra-Fast X-Ray Science	305
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-04ER15495 11/14/2012 Allen	SC-22.12	Geochemistry of Interfaces: From Surfaces to Interlayers to Clusters	86

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-01ER15172 10/31/2013 Miller	SC-22.11	Spectroscopic Detention, Characterization and Dynamics of Free Radicals Relevant to Combustion Processes	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER15976 08/31/2014 Tabita	SC-22.13	Molecular Regulation of Photosynthetic Carbon Dioxide Fixation in Nonsulfur Purple Bacteria	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25775 09/30/2012 Catalyurek	SC-21.1	SciDAC Institute: Combinatorial Scientific Computing and Petascale Simulations (CSCAPES)	157
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25755 09/14/2012 Panda	SC-21.1	Center for Programming Models for Scalable Parallel Computing	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-91ER20042 07/31/2013 Krzycki	SC-22.13	Transmethylation reactions during methylotrophic methanogenesis in methanogenic Archaea	165
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-11ER16280 12/31/2014 Cole	SC-22.12	Collaborative Research: Nanopore Confinement of C-H-O Mixed-Volatile Fluids Relevant to Subsurface Energy Systems	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-11ER16209 12/14/2013 Chisholm	SC-22.12	Mechanistic Studies Aimed at the Development of Single Site Metal Alkoxide Catalysts for the Production of	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-07ER15896 08/14/2013 Ozkan	SC-22.12	Investigation of the Nature of Active Sites on Heteroatom-Containing Carbon Nano-Structures for Oxygen Reduction Reaction	170
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-91ER40690 11/30/2013 Kass	SC-25	Research in Elementary Particle Physics	1,952
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-09ER41586 11/30/2011 Furnstahl	SC-26.1	Building a Universal Nuclear Energy Density Functional	100
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER41609 11/14/2011 Kagan	SC-25	Development of Single Crystal Chemical Vapor Deposition Diamonds for Detector Applications	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41687 06/14/2013 Heinz, Kovchegov	SC-26.1	Nuclear Theory for High Energy Collisions	385
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-10ER41684 05/31/2013 Heinz	SC-26.1	Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	47
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-95ER40900 12/31/2012 Collings	SC-25	Material, Strands, and Cables for Superconducting Accelerator Magnets	241
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER25995 08/31/2013 Sadayappan	SC-21.1	A Fault-Oblivious Extreme-Scale Execution Environment	75

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER25906 08/31/2012 Keyfitz	SC-21.1	Analysis of Self-Similar Solutions of Multidimensional Conservation Laws	94
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-09ER25901 07/31/2012 Calyam	SC-21.1	Sampling Approaches for Multi-Domain Internet Performance Measurement Infrastructures to Better Serve Network	175
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-08ER25850 07/31/2012 Sadayappan	SC-21.1	Scalable Fault Tolerance Runtime Technology for Petascale Computers	0
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-06ER25779 12/14/2012 Shen	SC-21.1	SCIDAC Institute for Ultrascale Visualization	150
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER26018 08/31/2013 Shen	SC-21.1	An Information-theoretic Framework for Enabling Extreme-scale Science Discovery	312
OHIO STATE UNIVERSITY Columbus, OH	DE-FC02-10ER26040 08/31/2013 Sadayappan	SC-21.1	A Polyhedral Transformation Framework for Compiler Optimization	133
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-06ER15833 12/31/2012 DiMauro	SC-22.11	Imaging of Electronic Wave Functions During Chemical Reactions	222
OHIO STATE UNIVERSITY Columbus, OH	DE-FG02-11ER65205 08/31/2014 Curtis	SC-23.1	Forecasting Carbon Storage as Eastern Forests Age: Joining Experimental and Modeling Approaches at the UMBS Ameriflux	347
OHIO UNIVERSITY Athens, OH	DE-FG02-88ER40387 11/30/2011 Brune	SC-26.1	Studies of Nuclear Astrophysics, Structure, and Reactions with Neutrons, Radioactive Beams, and Other Probes	340
OHIO UNIVERSITY Athens, OH	DE-FG02-93ER40756 10/31/2013 Elster	SC-26.1	Nuclear Dynamics and Astrophysics in Few- and Many-Body Systems	361
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46300 11/30/2012 Castillo	SC-22.22	Fluctuations in the Slow Dynamics of Glasses and Granular Systems	71
OHIO UNIVERSITY Athens, OH	DE-FG02-06ER46317 07/31/2013 Smith	SC-22.22	Spin-Polarized Scanning Tunneling Microscopy Studies of Nanoscale Magnetic and Spintronic Nitride Systems	160
OHIO UNIVERSITY Athens, OH	DE-FG02-02ER46012 09/14/2014 Hla	SC-22.22	Investigation and Manipulation of Nanoscale Molecular Superconductivity	132
OHIO UNIVERSITY Athens, OH	DE-FG02-10ER41678 05/31/2015 Elster	SC-26.1	Advancing the Theory of Nuclear Reactions With Rare Isotopes: From the Laboratory to the Cosmos	11
WRIGHT STATE UNIVERSITY Dayton, OH	DE-FG02-03ER15379 03/31/2012 Higgins	SC-22.12	Geochemical Rate Processes at Mineral-Water Interfaces: Linking Molecular-Scale Surface Properties to Macroscopic Observables	115

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OH)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WRIGHT STATE UNIVERSITY Dayton, OH	DE-FG02-11ER46820 08/31/2014 Look	SC-22.22	Experimental and Theoretical Pursuit of the Ultimate Conductivity in ZnO	332
			Total for OH :	12,322

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OK)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
LANGSTON UNIVERSITY Langston, OK	DE-FG02-99ER41109 05/14/2012 Snow	SC-25	Langston University - High Energy Physics (LU-HEP)	70
A STATE UNIVERSITY, STILLWATER Stillwater, OK	DE-FG02-04ER46124 02/28/2013 Xie	SC-22.22	Charge, Spin and Heat Transport in Low-Dimensional Systems	90
A STATE UNIVERSITY, STILLWATER Stillwater, OK	DE-FG02-04ER41306 04/30/2013 Nandi	SC-25	Theoretical Research in Weak, Electromagnetic, and Strong Interactions	350
A STATE UNIVERSITY, STILLWATER Stillwater, OK	DE-FG02-08ER15968 07/14/2014 Burnap	SC-22.13	Genetic and Metabolic Integration of the Carbon Concentrating Mechanism with the Light and Dark Reactions of Oxygenic	155
A STATE UNIVERSITY, STILLWATER Stillwater, OK	DE-FG02-96ER20215 08/31/2014 Mort	SC-22.13	The Structure of Pectins	117
A STATE UNIVERSITY, STILLWATER Stillwater, OK	DE-FG02-11ER65250 09/14/2014 Atekwana	SC-23.1	Induced Polarization Signature of Biofilms in Porous Media: From Laboratory Experiments to Theoretical Developments	250
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-11ER65249 09/14/2013 Butler	SC-23.1	In-Situ Generation of Iron-Chromium Precipitates for Long Term Immobilization of Chromium at the Hanford Site	112
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-11ER65212 08/14/2014 Bartley	SC-23.2	Association Mapping of Cell Wall Synthesis Regulatory Genes and Cell Wall Quality in Switchgrass	472
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-11ER65300 09/14/2014 Turner	SC-23.1	Lidar Investigations of Aerosol, Cloud, and Boundary Layer Properties Over the ARM ACRF Sites	152
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-96ER20214 06/14/2014 McInerney	SC-22.13	Protein Complexes Involved in Syntrophic Hydrogen Production and Electron Transfer	189
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-11ER16276 09/14/2014 Nicholas	SC-22.12	Catalytic Deoxydehydration of Biomass-Derived Polyols to Chemicals and Fuels	146
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-11ER16279 12/31/2014 Striolo	SC-22.12	Collaborative Research: Nanopore Confinement of C-H-O Mixed-Volatile Fluids Relevant to Subsurface Energy Systems	40
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER41517 08/31/2012 Baron	SC-25	Spectroscopic Studies of SNe Ia: Finding the Right Model	55
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-04ER41305 04/30/2013 Skubic, Milton	SC-25	Experimental Physics Investigations Using Colliding Beam Detectors at Fermilab, Cornell & LHC; Nonperturbative Quantum	976
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-06ER15769 07/31/2012 Krumholz	SC-22.13	Genes Needed for H2 Production by Sulfate Reducing Bacteria	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OK)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER46706 06/30/2013 Yang	SC-22.21	Interband Cascade Photovoltaic Cells	10
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-10ER46725 07/14/2013 Resasco	SC-22.21	Center for Interfacial Reaction Engineering	50
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-09ER46618 08/14/2013 Striolo	SC-22.21	Electrolytes at Solid-Water Interfaces: Theoretical Studies for Practical Applications	15
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-05ER64062 05/31/2012 Lamb	SC-23.1	Southern Great Plains Site Scientist	250
OKLAHOMA, UNIVERSITY OF Norman, OK	DE-FG02-07ER64383 03/31/2012 Zhou	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-10ER55067 05/31/2013 Brennan	SC-24.2	Development and Application of Predictive Tools for MHD Stability Limits in Tokamaks	242
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-08ER54950 01/31/2013 Brennan	SC-24.2	Flow Shear Effects in the Onset Physics of Resistive MHD Instabilities in Tokamaks	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-07ER54931 07/14/2012 Brennan	SC-24.2	Hot Particle and Turbulent Transport Effects on Resistive Instabilities	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-09ER64886 07/31/2012 Blais	SC-23.2	The National Energy Policy Institute (NEPI) at The University of Tulsa	0
TULSA, UNIVERSITY OF Tulsa, OK	DE-FG02-10ER65045 09/14/2012 Crunkleton	SC-23.2	Development of Green Fuels from Algae - The University of Tulsa	0
Total for OK :				3,741

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
GALOIS, INC. Portland, OR	DE-FC02-10ER26000 08/31/2013 Sottile	SC-21.1	COMPOSE - HPC: Software Composition for Extreme Scale Computational Science and Engineering	86
GALOIS, INC. Portland, OR	DE-FG02-11ER25985 06/14/2013 Sottile	SC-21.1	Fortran Transformational Tools in Support of Scientific Application Development for Petascale Computer Architectures	112
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-09ER64806 07/14/2012 Tratnyek	SC-23.1	Technetium Reduction and Permanent Sequestration by Abiotic and Biotic Formation of Low-Solubility Sulfide	218
ON HEALTH & SCIENCE UNIVERSITY Portland, OR	DE-FG02-10ER64953 05/31/2013 Tebo	SC-23.1	Manganese Redox Mediation of UO2 Stability and Uranium Fate in the Subsurface: Molecular and Meter Scale Dynamics	366
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER65000 07/14/2013 Myrold	SC-23.2	Meta-"omics" Analysis of Microbial Carbon Cycling Responses to Altered Rainfall Inputs in Native Prairie Soils	437
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-10ER65076 09/14/2013 Law	SC-23.1	The Effects of Climate, Forest Age, and Disturbance History on Carbon and Water Processes at Ameriflux Sites Across Gradients in Pacific Northwest Forests	349
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-11ER65192 08/31/2014 Arp	SC-23.2	Responses of and Interactions Between Nitrifying Bacteria to Environmental Changes: A Systems Level Approach	197
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-11ER65238 09/14/2014 de Szoeke	SC-23.1	Collaborative Research: Cloudiness Transitions Within Shallow Marine Clouds Near the Azores	68
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-09ER64860 08/31/2012 Haggerty	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	41
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-09ER64759 05/14/2012 Colwell	SC-23.1	Microbial Activity and Precipitation in at Solution-Solution Mixing Zones in Porous Media	199
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-08ER64665 09/14/2012 Strauss	SC-23.2	Epigenomics of Development in Populus	0
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-08ER64630 08/14/2012 Mockler	SC-23.2	A Universal Genome Array and Transcriptome Atlas for Brachypodium Distachyon.	0
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-06ER64307 08/31/2012 Law	SC-23.1	Enhancing the Precision and Accuracy Within and Among Ameriflux Site Measurements	500
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	160
OREGON STATE UNIVERSITY Corvallis, OR	DE-FG02-11ER16277 11/30/2014 Wildenschild	SC-22.12	A Detailed Study of the Physical Mechanisms Controlling CO2-Brine Capillary Trapping in the Subsurface	143

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-11ER16252 06/30/2012 Richmond	SC-22.11	Support for a Special Symposium to Highlight the Research of Early Career Women Physical Chemists at the 2011 Fall ACS National Meeting, Aug 28-Sept 1, 2011	7
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-07ER15907 08/31/2013 Lonergan	SC-22.13	Photovoltaic and Photochemical Properties of Conjugated Ionomer Junctions (new title)	175
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER15634 12/31/2014 Kellman	SC-22.11	Dynamical Analysis of Highly Excited Spectra	100
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-05ER41383 08/31/2012 Brau	SC-25	University-Based Detector Research & Development for the International Linear Collider	0
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER41623 08/14/2012 Brau	SC-25	Sid Detector R&D	895
OREGON, UNIVERSITY OF Eugene, OR	DE-FC02-11ER26057 08/31/2016 Malony	SC-21.1	The Institute for Sustained Performance, Energy, and Resilience (SUPER)	215
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER25933 09/14/2012 Malony	SC-21.1	MOGO: Model-Oriented Global Optimization of Petascale Applications	174
OREGON, UNIVERSITY OF Eugene, OR	DE-FC02-10ER26005 08/31/2013 Malony	SC-21.1	Vancouver: Designing a Next-Generation Software Infrastructure for Productive Heterogeneous Exascale Computing	392
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER25873 08/31/2012 Malony	SC-21.1	Performance Refactoring of Instrumentation, Measurement, and Analysis Technologies for Petascale Computing: the PRIMA Project	334
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40969 06/30/2014 Brau	SC-25	Task A: Theory of Elementary Particles; Task B Experimental High Energy Physics	1,183
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER40972 04/30/2013 Hwa	SC-26.1	Physics of Nuclear Collisions at High Energy	100
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-11ER46831 08/31/2014 Kevan	SC-22.21	Nanoscale Dynamical Heterogeneity in Complex Magnetic Materials	157
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-96ER45557 02/28/2014 Richmond	SC-22.23	Molecular Processes Underlying the Structures and Assembly of Thin Films and Nanoparticles at Complex Interfaces	260
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-03ER46061 07/14/2012 Richmond	SC-22.23	Research Project on the Recruitment, Retention, and Promotion of Women in the Chemical Sciences	160
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-04ER46158 08/31/2012 Kevan	SC-22.22	Manybody Interactions in Magnetic Films and Nanostructures	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (OR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
OREGON, UNIVERSITY OF Eugene, OR	DE-FG02-09ER64719 12/31/2012 Bridgham	SC-23.1	Climate Effects on Plant Range Distributions and Community Structure of Pacific Northwest Prairies	389
PARATOOLS, INC. Eugene, OR	DE-FC02-07ER54910 02/14/2012 Malony	SC-24.2	Framework Application for Core-Edge Transport Simulation (FACETS)	80
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-06CH11404 06/30/2012 Wamser	SC-23	Solar Photovoltaic Test Facility System	0
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-08ER64515 06/30/2012 Khalil	SC-23.1	Closing the Gaps in the Budgets of Methane and Nitrous Oxide	0
PORTLAND STATE UNIVERSITY Portland, OR	DE-FG02-07ER46406 06/30/2013 Koenenkamp	SC-22.21	High-Resolution Photoemission Electron Microscopy	220
Total for OR :				7,717

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ULTURE, U.S. DEPT. OF, FS-NGCP Newtown Square, PA	DE-AI02-07ER64355 03/14/2012 Hollinger	SC-23.1	Using Model Analyses & Surface-Atmosphere Exchange Measurements from the Howland AmeriFlux Supersite in Maine, USA, to Improve Understanding of Forest Ecosystem	0
BUCKNELL UNIVERSITY Lewisburg, PA	DE-FG02-09ER25909 08/31/2012 Frey	SC-21.1	Data Network Weather Service Reporting	122
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER16078 09/14/2012 Gellman	SC-22.12	Molecular-Level Design of Heterogeneous Chiral Catalysts	660
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER25918 09/14/2012 Schneider	SC-21.1	Machine Learning for Massive Scale Cosmology	415
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-07ER15919 02/14/2012 Kitchin	SC-22.12	Modeling Coverage Dependence in Surface Reaction Networks	0
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-87ER40315 11/30/2013 Franklin	SC-26.1	Experimental Medium Energy Physics	1,020
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-91ER40682 10/31/2012 Paulini, Ferguson, Vogel	SC-25	Research in Experimental and Theoretical High Energy Physics	1,312
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-08ER46481 03/14/2012 Majetich	SC-22.22	Dipolar Ferromagnets for Magnetocaloric Effect Nanocomposites	100
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-09ER46645 09/14/2012 Suter	SC-22.21	SISGR - Quantifying Damage Accumulation During Ductile Plastic Deformation Using Synchrotron Radiation	400
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-01ER45893 06/30/2014 De Graef	SC-22.21	Materials Applications of Aberration-Corrected Lorentz Microscopy	175
CARNEGIE MELLON UNIVERSITY Pittsburgh, PA	DE-FG02-11ER65296 09/14/2014 Donahue	SC-23.1	Aging of Organic Aerosol: Cloud and Climate Effects	200
NEY UNIVERSITY OF PENNSYLVANIA Cheyney, PA	DE-FG02-09ER64911 12/31/2012 Eva	SC-23.2	Cheyney University Curriculum and Infrastructure Enhancement in STEM Phase II	0
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-07ER46473 08/31/2013 Gogotsi	SC-22.23	Low Temperature Synthesis of Carbide-derived-carbons from Binary and Ternary Carbides in the Si-Ti-C System: Experiments and Modeling	150
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-11ER16271 12/31/2014 Shuford	SC-22.11	Plasmon Enhanced Photovoltaics: Modeling Energy and Charge Transfer in Solar Nanoassemblies	119
DREXEL UNIVERSITY Philadelphia, PA	DE-FG02-00ER41134 06/30/2012 Lane	SC-25	Neutrino Physics	205

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NAL ADVANCEMENT ALLIANCE, INC. Philadelphia, PA	DE-FG02-05CH11302 12/31/2012 Hamm, Nicholas	SC-23	Center for Development of Math, Science and Technology Understanding	0
FOX CHASE CANCER CENTER Philadelphia, PA	DE-FG02-09ER64800 07/30/2012 Doss	SC-23.2	Application of Low Dose Radiation Adaptive Response to Control Aging-Related Diseases	391
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-92ER54141 11/30/2012 Kritz	SC-24.2	Predicted Integrated Modeling of Heated Tokamak Plasmas	209
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-09ER55022 07/14/2012 Schuster	SC-24.2	Numerical and Experimental Investigation of Turbulent Transport Control via Shaping of Radial Plasma Flow Profiles	68
LEHIGH UNIVERSITY Bethlehem, PA	DE-FC02-08ER54985 02/29/2012 Kritz	SC-24.2	Proposed Lehigh University Contribution to the Center for Plasma Edge Simulation (CPES) Project	100
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-08ER54993 05/31/2012 Kritz	SC-24.2	Center for Simulation of Wave Interactions with Magnetohydrodynamics (SWIM) Project	50
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-08ER46548 04/30/2012 Harmer	SC-22.21	Discovering the Role of Grain Boundary Complexions in Materials	160
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-07ER46463 05/14/2013 Jagota	SC-22.23	Bio-Inspired Architectures for Controlled Adhesion, Friction and Surface Compliance	285
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-10ER46698 04/30/2014 Jain	SC-22.23	Laser Fabrication of Active Single-Crystal Architecture in Glass	175
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-93ER14350 06/14/2012 Wachs	SC-22.12	Fundamental Surface Structure-Photoactivity Relationships of Semiconductor Mixed Oxides for Splitting of H ₂ O to H ₂ /O ₂	165
LEHIGH UNIVERSITY Bethlehem, PA	DE-FG02-05ER15720 06/14/2014 Regen	SC-22.12	Hyper-Thin Membranes for Hydrogen Purification	280
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER64732 04/30/2013 Fisher-Vanden	SC-23.1	Factors Influencing Energy Use and Carbon Emissions in China	60
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER64859 08/31/2012 Singha	SC-23.1	Geoelectrical Measurement of Multi-Scale Mass Transfer Parameters	82
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-11ER65246 09/14/2014 Tien	SC-23.1	Biochemical Mechanisms and Associated Biomolecular Signatures Underlying Energy Strategies of Geobacter Sulfurreducens	179
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-11ER65309 09/14/2013 Li	SC-23.1	Scaling Effects of Cr(VI) Reduction Kinetics: The Role of Geochemical Heterogeneity	150

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-04ER46159 05/31/2014 Liu	SC-22.22	Engineering of Mixed Pairing and Non-Abelian Majorana States of Matter in Chiral p-wat Superconductor Sr2Ru04 and Other Materials	130
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER46222 09/14/2014 Golbeck	SC-22.23	A Hybrid Biological/Organic Half-Cell for Generating Dihydrogen	305
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER46656 09/14/2012 Lueking	SC-22.23	SISGR- Hydrogen Caged in Carbon-Exploration of Novel Carbon-Hydrogen Interactions	340
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER46744 08/14/2013 Jain	SC-22.22	Theory of Topological Quantum Numbers in Low Dimensions	125
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER46768 05/31/2013 Schiffer	SC-22.22	Exploration of Artificial Frustrated Magnets	150
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46531 11/14/2014 Li	SC-22.22	Studies of Multiband and Topological Superconductors	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46414 08/14/2013 Fichthorn	SC-22.23	Forces, Crystallization, and Assembly in Nanoparticle Suspensions	134
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46409 08/31/2013 Colby	SC-22.23	Conduction Mechanisms and Structure of Ionomeric Single-Ion Conductors	445
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46410 08/31/2014 Zhang	SC-22.23	Giant Electrocaloric Effect in Ferroelectric Polymers with Taylored Polar-Nanostructures	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER46417 06/30/2013 Chen	SC-22.21	Structure and Dynamics of Domains in Ferroelectric Nanostructures - Phase Field Modeling	143
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46483 12/14/2012 Schaak	SC-22.23	Chemical Routes to Intermetallic Superconductors	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER41631 08/31/2012 Stasto	SC-26.1	QCD Description of Hadronic Interactions at High Energies	112
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46615 08/14/2012 Mueller	SC-23.1	Release of Aged Contaminants From Weathered Sediments: Effects of Sorbate Speciation on Scaling of Reactive Transport	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46461 08/14/2012 Wagener	SC-23.1	A Framework for Probabilistic Projections of Energy-Relevant Streamflow Indicators Under Climate Change Scenarios for the US	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER46570 06/14/2012 Harrington	SC-23.1	Parameterization and Analysis of 3-D Solar Radiative Transfer in Clouds	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER64058 05/31/2014 Verlinde, Harrington	SC-23.1	North Slope Site Scientist Team	834
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER64701 07/14/2012 de OliveiraBuanafina	SC-23.2	Identifying Genes Controlling Ferulate Cross-Link Formation in Grass Cell Walls	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER25872 08/31/2012 Maranas	SC-21.1	Multiscale Simulation for Dynamics Evolution and Structure Formation in Systems Comprised of Chain Molecules	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER25862 08/14/2014 Berlyand	SC-21.1	Finite Dimensional Approximations for Continuum Multiscale Problems	150
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-09ER25926 09/14/2012 Kandemir	SC-21.1	An Optimizing Compiler for Petascale I/O on Leadership Class Architectures	138
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER15911 08/31/2013 Mallouk	SC-22.13	Nanostructured Photocatalytic Water Splitting Systems	180
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-11ER26062 08/31/2014 Xu	SC-21.1	Scalable Adaptive Multilevel Solvers for Multiphysics Problems	168
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-10ER26036 12/31/2013 Du	SC-21.1	Collaborative Research: Mathematical and Numerical Analyses of Peridynamics or Multiscale Materials Modeling	150
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-06ER15803 06/30/2012 Winograd	SC-22.12	Chemical Imaging With Cluster Ion Beams and Lasers	168
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-07ER41460 11/14/2012 Gamberg	SC-26.1	Transverse Spin and Momentum Structure of Hadrons in QCD	42
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-93ER40771 12/31/2013 Strikman	SC-26.1	Theoretical Studies in High Energy Nuclear Physics	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-90ER40577 04/30/2012 Collins	SC-25	Theoretical Studies in Elementary Particle Physics	125
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-05ER15675 08/31/2014 Brantley	SC-22.12	An Investigation of Roughness and Weathering at the Bedrock-Regolith Interface	230
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13295 11/30/2012 Sen	SC-22.12	Transition Metal Mediated Transformations of Small Molecules	155
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-89ER14020 04/14/2012 Maroncelli	SC-22.13	Solvation and Charge Transfer in Ionic Liquids	75

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-02ER15332 08/31/2012 Ma	SC-22.13	Analysis of Anther Cell Differentiation	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-92ER14258 04/30/2012 Castleman, Jr.	SC-22.11	Elucidating the Molecular Level Mechanisms of Oxidation Reactions Effected by Heterogeneous Catalysts	0
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-84ER13179 04/30/2014 Cosgrove	SC-22.13	Molecular Mechanisms of Plant Cell Wall Loosening	170
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-08ER15986 08/31/2014 Williams	SC-22.13	Tuning Photochemical Function of Multimetallic Assemblies Linked by Artificial Oligopeptide Scaffolds	160
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-11ER16273 11/30/2014 Karpyn	SC-22.12	Modified Invasion Percolation Models for Multiphase Processes	124
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-95ER20198 08/14/2014 Ferry	SC-22.13	New Perspectives on Acetate and One-Carbon Metabolism in the Methanoarchaea: Carbonic Anhydrase	150
PENNSYLVANIA STATE UNIVERSITY University Park, PA	DE-FG02-94ER20137 03/31/2012 Bryant	SC-22.13	Light Energy Transduction in Green Sulfur Bacteria	287
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-91ER20052 07/30/2014 Daldal	SC-22.13	Membrane-Attached Electron Carriers in Photosynthesis and Respiration	190
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-11ER16239 08/14/2016 Schelter	SC-22.12	A Physicochemical Method for Separating Rare Earths: Addressing an Impending Shortfall	150
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-85ER13350 05/31/2012 Gorte	SC-22.12	Thermodynamic Properties of Supported Catalysts	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-87ER13792 06/30/2014 Lester	SC-22.11	Intermolecular Interactions of Hydroxyl Radicals on Reactive Potential Energy Surfaces	150
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-04ER15605 08/14/2013 Vohs	SC-22.12	Fundamental Studies of the Steam Reforming of Alcohols on PdZnO and Co/ZnO Catalysts	150
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER15719 06/30/2012 Sneddon	SC-22.12	Mechanistic Studies of Activated Hydrogen Release from Amine Boranes	0
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER15721 06/30/2012 Gorte	SC-22.12	The Development of Nano-Composite Electrodes for Natural Gas-Assisted Steam Electrolysis for Hydrogen Production	300
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-88ER40479 12/31/2011 Klein	SC-26.1	The Low Energy Neutrino Physics Research Program at Penn	600

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-95ER40893 04/30/2012 Williams	SC-25	High Energy Physics Research	3,350
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER15920 08/14/2013 Rappe	SC-22.12	Understanding, Harnessing, and Tuning the Catalytic Chemistry of Nonstoichiometric Oxide Surfaces	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-08ER64680 09/14/2012 Karp	SC-23.2	High-Resolution PET Detector	0
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-11ER46814 05/14/2014 Chen	SC-22.23	Electric-Loading Enhanced Kinetics in Oxide Ceramics: Pore Migration, Sintering and Grain Growth	200
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-11ER46809 05/31/2012 Rappe	SC-22.22	ES11: The 23rd Annual Workshop on Electronic Structure Methods, June 6-9, 2011	10
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-11ER46810 08/31/2014 Hammer	SC-22.23	Designing Smart, Responsive Communicating Microcapsules from Polymersomes	170
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-07ER46431 08/14/2013 Rappe	SC-22.22	First-principles Investigations of the Physics of New Semiconducting Ferroelectrics for Solar Light Absorption	250
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-08ER46522 08/14/2013 Yildirim	SC-22.21	From Fundamental Understanding to Predicting New Nanomaterials for High-Capacity Hydrogen Storage	0
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-09ER46661 09/14/2012 Kagan	SC-22.23	SISGR - Bi-Continuous Multi-Component Nanocrystal Superlattices for Solar Energy Conversion	732
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46223 09/14/2014 Dutton	SC-22.23	Modular Designed Protein Constructions for Solar Generated H2 From Water	256
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-05ER46199 04/30/2013 Liu	SC-22.22	Anharmonic and Thermal Effects Associated with Jammed Solids	120
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-98ER45702 06/30/2013 Vitek	SC-22.22	Combined Atomistic and Mesoscopic Study of Deformation of Body-Centered-Cubic Transition Metals: Effects of Alloying and Magnetism	155
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-00ER45813 05/31/2014 Bonnell	SC-22.21	Local Properties at Nanosized Interfaces and Defects	165
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-11ER41733 04/30/2012 Cvetic	SC-25	A Conference Series on Mathematical String Theory	7
PENNSYLVANIA, UNIVERSITY OF Philadelphia, PA	DE-FG02-84ER45118 01/31/2015 Mele	SC-22.22	Electronic and Piezoelectric Phenomena in Nanostructures	35

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-90ER45438 01/31/2015 Balazs	SC-22.23	Inducing Artificial Morphogenesis in Soft Synthetic Materials	120
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-02ER45998 01/14/2015 Balazs	SC-22.23	Integrating Modeling and Experiments to Design Robust Self-Healing Materials	293
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	120
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-09ER46662 09/14/2012 Kumta	SC-22.23	SISGR - Fundamental Experimental and Theoretical Studies on a Novel Family of Oxides Catalyst Supports for Water	250
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-08ER46545 07/14/2014 Wiezorek	SC-22.21	Electron Density Determination, Bonding and Properties of Tetragonal Ferromagnetic Intermetallics	162
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46430 08/31/2013 Waldeck	SC-22.22	Nanocrystal-Based Dyads for Solar to Electric Energy Conversion	260
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46421 12/14/2011 Levy	SC-22.22	Development of Spintronic Bandgap Materials	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-07ER46446 07/31/2012 Yang	SC-22.21	Multiscale Atomistic Simulation of Metal-Oxygen Surface Interactions: Methodological Development, Theoretical	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-11ER46806 07/14/2016 Dutt	SC-22.21	Quantum Control of Spins in Diamond for Nanoscale Magnetic Sensing and Imaging	150
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-08ER46586 07/31/2012 Liang	SC-23.1	The Role of Vegetation, Surface, and Subsurface Processes on Mega Drought and its Implications to Climate Change	0
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-91ER40646 04/30/2012 Paolone, Shepard	SC-25	Experimental Particle Physics	977
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER15066 06/30/2012 Jordan	SC-22.11	Coordinating Experiment and Theory to Understand How Excess Electrons Are Accomodated by Water Networks Through	109
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-11ER16225 07/14/2013 Wang	SC-22.12	SISGR: Theoretically Relating the Surface Composition of the Pt Alloys to Their Performance as the Electrocatalysts of Low-Temperature Fuel Cells	232
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-04ER25618 06/30/2014 Yotov	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	150
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-09ER16056 08/14/2012 Petek	SC-22.11	Studies of Surface Adsorbate Electronic Structure and Femtochemistry at the Fundamental Length and Time Scales	265

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-10ER16165 05/31/2013 Johnson	SC-22.11	Computational Design of Metal Organic Frameworks for Photocatalytic Reduction of CO2	42
PITTSBURGH, UNIVERSITY OF Pittsburgh, PA	DE-FG02-00ER41135 11/30/2013 Swanson	SC-26.1	Studies of the Quark and Gluon Structure of Nuclear and Hadronic Matter	95
SOCIETY FOR INDL. & APPL. MATH Philadelphia, PA	DE-FG02-11ER26045 07/31/2014 Crowley	SC-21.1	SIAM Conferences in Computational Sciences and Its Applications, December 2011	59
SUSQUEHANNA UNIVERSITY Selinsgrove, PA	DE-FG02-10CH20003 06/30/2011 Clarke	SC-23	Equipment Purchases for Susquehanna University's New Science Center	0
SWARTHMORE COLLEGE Swarthmore, PA	DE-FG02-00ER54604 11/30/2013 Brown	SC-24.2	Relaxation of Three-Dimensional Magnetic Structures: SSX Experiments and Experimentally-Validated Simulations	114
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-94ER40844 03/31/2012 Meziani	SC-26.1	Nuclear Research Using the Electromagnetic Probe	340
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-09ER16000 12/14/2011 Wayland	SC-22.12	Catalytic Hydrogenation of Carbon Monoxide and Hydrocarbon Oxidations	0
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-08ER15983 02/14/2014 Matsika	SC-22.11	Combining High Level Ab Initio Calculations with Laser Control of Molecular Dynamics	100
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-96ER14644 05/31/2012 Strongin	SC-22.12	Reactivity of Iron-Bearing Minerals and CO2 Sequestration: A Multi-Disciplinary Experimental Approach	99
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-10ER46710 06/14/2013 Iavarone	SC-22.21	Vortex Matter in Confined Superconductors and Mesoscopic Hybrid Heterostructures	205
TEMPLE UNIVERSITY Philadelphia, PA	DE-FG02-01ER45872 01/31/2014 Riseborough	SC-22.22	Strongly Correlated Electron Systems	70

Total for PA :

24,599

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (PR)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
O RICO, UNIVERSITY OF MAYAGUEZ Mayaguez, PR	DE-FG02-97ER41045 05/31/2013 Lopez	SC-25	UPR/Mayaguez High Energy Physics	235
O RICO, UNIVERSITY OF MAYAGUEZ Mayaguez, PR	DE-FG02-11ER41731 03/14/2013 Marin	SC-26.2	Exploring One Alternative Approach for Isotope Enrichment Using Green and Safe Low-Cost Nanotechnologies	499
UNIVERSITY OF MEDICAL SCIENCES San Juan, PR	DE-FG02-08ER46526 08/31/2014 Katiyar	SC-22.21	Development and Understanding of Multifunctional Nanostructures for Spintronics and Magnetoelectrics Applications	810
Total for PR :				1,544

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (RI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
BROWN UNIVERSITY Providence, RI	DE-FG02-03ER15452 10/31/2012 Weber	SC-22.11	Ultrafast Structural Dynamics in Combustion-relevant Model Systems	245
BROWN UNIVERSITY Providence, RI	DE-FG02-11ER16261 08/14/2014 Wang	SC-22.12	Probing the Actinide-Ligand Binding and the Electronic Structure of Gaseous Actinide Molecules and Clusters Using Anion Photoelectron Spectroscopy	360
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER16011 04/14/2012 Diebold	SC-22.12	Ultrasonic Distillation, Thermal Diffusion, and Photoacoustics	135
BROWN UNIVERSITY Providence, RI	DE-FG02-91ER40688 10/31/2012 Cutts	SC-25	A Research Program in Theoretical and Experimental High Energy Physics	1,858
BROWN UNIVERSITY Providence, RI	DE-FG02-08ER15937 06/30/2014 Rose-Petruck	SC-22.11	Spatial Frequency X-ray Heterodye Imaging of Micro and Nano structured Materials and their Time-resolved Dynamics	140
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER25923 09/14/2012 Karniadakis	SC-21.1	Stochastic Nonlinear Data-reduction Methods with Detection and Prediction of Critical Rare Event	99
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER25818 08/31/2013 Karniadakis	SC-21.1	Stochastic Analysis of Advection-Diffusion-Reactive Systems with Applications to Reactive Transport in	100
BROWN UNIVERSITY Providence, RI	DE-FG02-08ER25863 08/14/2014 Shu	SC-21.1	High Order Discontinuous Galerkin Method and Applications	162
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER25891 08/31/2012 Dupuis	SC-21.1	Large Deviation Methods for the Analysis and Design of Monte Carlo Schemes in Physics and Chemistry	265
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER64757 05/14/2012 Lawrence	SC-23.2	Bayesian Computational Approaches for Gene Regulation Studies of Bioethanol and Biohydrogen Production	136
BROWN UNIVERSITY Providence, RI	DE-FG02-11ER46835 09/14/2014 Guduru	SC-22.21	Fundamental Investigations of Mechanical and Chemical Degradation Mechanisms in Lithium Ion Battery Materials	2,205
BROWN UNIVERSITY Providence, RI	DE-FG02-09ER46644 09/14/2012 Nurmikko	SC-22.21	Optoacoustic Microscopy for Investigation of Material Nanostructures - Embracing the Ultrasmall, Ultrafast, and the Invisible	200
BROWN UNIVERSITY Providence, RI	DE-FG02-10ER46771 08/31/2013 Sheldon	SC-22.22	Understanding and Controlling Toughening Mechanisms in Nanotube Reinforced Ceramic Coatings	220
BROWN UNIVERSITY Providence, RI	DE-FG02-07ER46387 12/31/2013 Nurmikko	SC-22.22	Optically Active 3-Dimensional Semiconductor Quantum DOT Assemblies in Heterogeneous Nanoscale Hosts	210
BROWN UNIVERSITY Providence, RI	DE-FG02-11ER41754 07/14/2012 Cutts	SC-25	Support of the APS Division of Particles and Fields Meeting DPF2011, August 9-13, 2011	30

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (RI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
BROWN UNIVERSITY Providence, RI	DE-FG02-11ER41742 07/14/2016 Volovich	SC-25	Miracles in Scattering Amplitudes: from QCD to Gravity	150
BROWN UNIVERSITY Providence, RI	DE-FG02-01ER45913 11/30/2012 Chason	SC-22.23	Mechanisms of Sputter Ripple Formation: Coupling Among Energetic Ions, Surface Kinetics, Stress and Composition	124
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16214 12/31/2011 Stair	SC-22.12	2011 Chemical Reactions at Surfaces Gordon Research Conference, February 6-11, 2011	10
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16215 12/14/2011 Hupp	SC-22.13	2011 Renewable Energy: Solar Fuels to be held January 15 - 16, 2011	13
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16223 06/30/2012 Settersten	SC-22.11	2011 Laser Diagnostics in Combustion Gordon Research Conference, August 14-19, 2011	7
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16229 05/31/2012 Sitz	SC-22.11	2011 Dynamics at Surfaces Gordon Research Conference and Gordon-Kenan Research Seminar, August 7-12, 2011	12
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16236 06/30/2012 Meyer	SC-22.13	2011 Photochemistry GRC and GRS, July 10-15, 2011	6
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16240 05/31/2012 Niyogi	SC-22.13	2011 Photosynthesis Gordon Research Seminar and Conference, June 11-17, 2011	15
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16242 07/31/2012 McCoy	SC-22.11	2012 Molecular and Ionic Clusters Gordon Research Conference, January 29 - February 3, 2012	8
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16238 06/30/2012 Bunel	SC-22.12	2011 Gordon Research Conference on Organometallic Chemistry, July 10-15, 2011	5
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16250 12/31/2012 LaVerne	SC-22.11	2012 Radiation Chemistry Gordon Research Conference and Gordon Research Seminar, July 28, - August 3, 2012	11
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16251 06/30/2012 Stedman	SC-22.13	2011 Archaea: Ecology, Metabolism and Molecular Biology Gordon Research Conference, July 31 - August 5, 2011	10
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16258 07/14/2012 Weinacht	SC-22.11	2011 Quantum Control of Light & Matter Gordon Research Conference	5
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER16264 12/31/2012 Ben-Amotz	SC-22.11	2012 Water & Aqueous Solutions Gordon Research Conference (GRC) and Gordon Research Seminar (GRS), Aug 10-17, 2012	11
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER46801 05/31/2012 Yazdani	SC-22.22	2011 Superconductivity Gordon Research Conference, June 5-10, 2011	10

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (RI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER46822 07/31/2012 Stephenson	SC-22.21	2011 X-Ray Science Gordon Research Conference, August 7-12, 2011, Waterville, Maine	10
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER65137 03/31/2012 Haggblom	SC-23.2	2011 Applied and Environmental Microbiology Gordon Research Conference, July 10-15, 2011	12
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER65143 03/31/2012 Wood	SC-23.1	2011 Radiation and Climate Gordon Research Conference, July 10-14, 2011	15
GORDON RESEARCH CONF., INC. West Kingston, RI	DE-FG02-11ER65133 03/31/2012 Doudareva	SC-23.2	2011 Plant Metabolic Engineering GRC/GRS, July 24-29, 2011	20
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-09CH11578 08/31/2012 Bozylinsky	SC-23	Improving the University of Rhode Island (URI) Cyber-Infrastructure for Enhancing Research	0
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-10ER46736 08/14/2013 Lucht	SC-22.21	Improving the Calendar Life and Safety of Lithium Ion Batteries: Development of Novel Electrolytes and Additives	22
RHODE ISLAND, UNIVERSITY OF Kingston, RI	DE-FG02-10ER65047 09/14/2012 Rothstein	SC-23.2	Unviersity of Rhode Island Regional Earth System Center	0
Total for RI :				6,841

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (SC)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
CITADEL, THE Charleston, SC	DE-FG02-10ER41694 08/14/2013 Yost	SC-25	Precision Studies of Hadronic and Electro-Weak Interactions for Collider Physics	23
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-06ER46342 08/14/2013 Chumanov	SC-22.23	Asymmetric Hybrid Nanoparticles (AHNs)	194
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-08ER46511 03/14/2012 Luo	SC-22.21	Grain Boundary Complexions and Transitions in Doped Silicon	95
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-10ER64966 06/14/2013 Powell	SC-23.1	Development of a Self-Consistent Model of Plutonium Sorption: Quantification of Sorption Enthalpy and Ligand-Promoted	334
CLEMSON UNIVERSITY Clemson, SC	DE-FG02-09ER64853 08/14/2012 Moysey	SC-23.1	Quantifying Microbe-Mineral Interactions Leading to Remotely Detectable Induced Polarization Signals: Implications for Monitoring Bioremediation	37
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-95ER40910 05/31/2013 Rosenfeld, Purohit	SC-25	Experimental Particle Physics	667
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-09ER46616 08/14/2012 Wang	SC-22.21	1D and 2D Assembly of Bionanoparticles for Materials Development	15
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-09ER46617 08/14/2012 Vogt	SC-22.21	Structure-Composition-Property Relationships of Complex Bismuth Oxide Base Photocatalysts	10
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-09ER46581 07/31/2014 Reifsnider	SC-22.13	Science Based Nano-Structure Design and Synthesis of Heterogeneous Functional Materials for Energy Systems -- EFRC	2,400
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-99ER45763 04/14/2014 Kunchur	SC-22.22	Dissipative and Fast-Timescale Phenomena in Superconductors	110
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-09ER41621 07/31/2012 Gudkov	SC-26.1	Fundamental Neutron Physics: Theory and Analysis	102
OLINA, UNIVERSITY OF RES FOUND Columbia, SC	DE-FG02-11ER16268 08/31/2014 Heyden	SC-22.12	Theoretical Investigation of Heterogeneous Catalysis at the Solid-Liquid Interface for the Conversion of Lignocellulosic	150
Total for SC :				4,137

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (SD)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
DAKOTA SCHOOL OF MINES & TECH. Rapid City, SD	DE-FG02-08ER46503 06/30/2012 Ahrenkiel	SC-22.21	Lattice-Mismatched III-V Epilayers for High-Efficiency Photovoltaics	0
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-10ER46709 06/30/2013 Mei	SC-22.21	Crystal Growth and Detector Development at Homestake for DUSEL Experiments	50
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-10ER41718 08/31/2013 Guisepe	SC-26.1	Cosmogenic Background and Shielding R&D for a Ge Neutrinoless Double-Beta Decay Experiment	71
SOUTH DAKOTA, UNIVERSITY OF Vermillion, SD	DE-FG02-08ER64624 12/31/2012 Hoefelymeyer	SC-23.2	USD Catalysis Group for Alternative Energy	1,069
Total for SD :				1,190

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
MEMPHIS, UNIVERSITY OF Memphis, TN	DE-FG02-09ER25904 08/31/2012 Wu	SC-21.1	Towards a Scalable and Adaptive Application Support Platform for Large-Scale Distributed E-Sciences in High-Performance Network Environments	142
MIDDLE TENNESSEE STATE UNIV. Murfreesboro, TN	DE-FG02-10ER65002 09/14/2012 MacDougall	SC-23.2	Computational Modeling of Drug-Resistant Bacteria	0
SPECTRA TECH, INC. Oak Ridge, TN	DE-AT02-09CH11469 07/31/2014 Hale	SC-22.21	Technical Support Service for the Office of Science (SC) Basic Energy Sciences (BES)	0
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-89ER40530 03/31/2013 Ayik	SC-26.1	Studies of Fluctuation Processes in Nuclear Collisions	37
TENNESSEE TECH. UNIVERSITY Cookeville, TN	DE-FG02-96ER40955 02/28/2014 Kozub	SC-26.1	Nuclear Physics with Radioactive Ion Beams	60
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-91ER40627 03/31/2013 Kamyshkov	SC-25	Elementary Particle Interactions	657
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-06ER41407 12/31/2014 Papenbrock	SC-26.1	JUSTIPEN: Japan US Theory Institute for Physics with Exotic Nuclei	50
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-96ER40963 02/14/2014 Nazarewicz	SC-26.1	Theoretical Nuclear Structure	255
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-03ER41258 04/30/2012 Greene	SC-26.1	Fundamental Neutron Physics	255
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FC02-09ER41583 05/31/2012 Nazarewicz	SC-26.1	Building a Universal Nuclear Energy Density Functional	260
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER41700 08/31/2013 Nazarewicz	SC-26.1	FUSTIPEN - France-U.S. Theory Institute for Physics with Exotic Nuclei	35
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FC02-11ER26059 08/31/2016 Moore	SC-21.1	The Institute for Sustained Performance, Energy, and Resilience (SuPER)	215
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER25987 08/31/2013 Dongarra	SC-21.1	Matrix Algebra for GPU and Multicore Architectures (MAGMA) for Large Petascale Systems	150
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER25971 03/14/2013 Dongarra	SC-21.1	Architecture-Aware Algorithms for Scalable Performance and Resilience on Heterogeneous Architectures	160
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FC02-06ER25778 08/31/2012 Huang	SC-21.1	SciDAC Institute for Ultra-Scale Visualization	100

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FC02-07ER25801 11/14/2012 Dongarra	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-01ER15259 10/31/2012 Barnes	SC-22.12	Nanostructured Metal Oxide Catalysts via Building Block Syntheses	135
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-02ER15283 02/28/2014 Macek	SC-22.11	Theory of Atomic Collisions and Dynamics	125
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-05ER15723 06/14/2012 Keffer	SC-22.12	A Computational and Experimental Investigation into the Transport Through of Protons near the Electrolyte/Water, Electrolyte/Catalyst and	225
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-09ER16024 07/14/2012 Guiochon	SC-22.12	Separation of Highly Complex Mixtures by Two-Dimension Liquid Chromatography	120
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FC02-06ER25761 12/14/2012 Dongarra	SC-21.1	Performance Engineering Research Center (PERC-3) SciDAC Center for Enabling Technology	235
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-96ER20223 07/14/2012 von Arnim	SC-22.13	Eukaryotic Initiation Factor 3 (EIF3) and 5' mRNA Leader Sequences as Agents of Translational Regulation in Arabidopsis	180
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-01ER45885 07/31/2012 Musfeldt	SC-22.22	Spectroscopic Investigations of Novel Electronic and Magnetic Solids	135
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER41715 08/31/2013 Efremenko	SC-26.1	Search for the Neutrinoless Double Beta Decay	83
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-11ER41756 07/31/2012 Kamyshkov	SC-25	BLV-2011 Workshop, September 22-24, 2011	8
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-05ER46202 05/14/2014 Dai	SC-22.21	Study Magnetic Excitations in Doped Transition Metal Oxides Using Inelastic Neutron Scattering	220
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-07ER46370 05/14/2012 Eguiluz	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and Dynamic Effects in Correlated Materials	0
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER46713 06/30/2013 Camden	SC-22.21	Plasmon Mapping in Metallic Nanostructures and its Application to Single Molecule Surface Enhanced Raman Scattering: Imaging	15
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER46718 07/31/2013 Grossbeck	SC-22.21	Study of Compatibility of Stainless Steel Weld Joints with Liquid Sodium-Potassium Coolants for Fission Surface Power Reactors for Lunar and Space Applications	23
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-08ER46528 05/31/2012 Egami	SC-22.21	Neutron Scattering Research Network for EPSCoR States	0

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-11ER55102 08/31/2015 Wirth	SC-24.2	A Multiscale Investigation of the Mechanisms Controlling Materials Degradation in the Fusion Energy Environment	275
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-09ER41634 08/31/2012 Grzywacz-Jones	SC-26.1	Spectroscopic Studies Close to 100Sn and 132Sn Using Direct Reactions and Gamma-Ray Measurements	104
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-96ER40982 05/31/2014 Sorensen	SC-26.1	Studies of Hot and Dense Nuclear Matter	309
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-96ER40983 02/28/2014 Grzywacz, Jones, Bingham, Riedinger	SC-26.1	Nuclear Spectroscopic Studies with Radioactive and Stable Ion Beams	420
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-11ER65267 08/31/2014 Loeffler	SC-23.2	Towards Predictive Understanding of Nitrogen Flux in Soils	504
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-11ER65193 08/31/2014 Podar	SC-23.2	From Genomes to Metabolomes: Understanding Mechanisms of Symbiosis and Cell-Cell Signaling Using the Archaeal	423
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER65014 06/30/2013 Pfiffner	SC-23.1	Metaproteomics Identifies the Protein Machinery Involved in Metal and Radionuclide Reduction in Subsurface Microbiomes and Elucidates Mechanisms and	315
ESSEE, UNIVERSITY OF KNOXVILLE Knoxville, TN	DE-FG02-10ER65016 07/31/2012 Loeffler	SC-23.1	MURMoT: Design and Application of Microbial Uranium Reduction Monitoring Tools	462
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-88ER40407 12/31/2012 Hamilton, Ramayya	SC-26.1	Experimental Nuclear Physics	355
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-92ER40712 02/28/2013 Maguire	SC-26.1	Relativistic Heavy Ion Experimental Physics	583
VANDERBILT UNIVERSITY Nashville, TN	DE-FC02-06ER41447 03/14/2012 Bapty	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	0
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-85ER40226 05/31/2014 Weiler, Kephart	SC-25	Theoretical Investigations in Elementary Particle Physics	260
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-99ER45781 10/31/2013 Tolk	SC-22.22	Ultrafast Studies of Hydrogen and Related Defects in Semiconductors and Oxides	200
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-01ER45916 03/14/2014 Haglund	SC-22.22	Linear and Nonlinear Optical Properties of Metal Nanocomposite Materials	183
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-09ER46554 02/14/2015 Pantelides	SC-22.21	Physics of Complex Materials Systems Through Theory and Microscopy / EELS	256

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TN)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-96ER40975 05/31/2013 Umar, Oberacker, Ernst	SC-26.1	Microscopic Heavy-Ion Theory	160
VANDERBILT UNIVERSITY Nashville, TN	DE-FG02-09ER64872 09/14/2012 Peterson	SC-23.2	Small Animal SPECT/CT System Based on Position-Sensitive Semiconductor Detectors	0
Total for TN :				8,824

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
ABILENE CHRISTIAN UNIVERSITY Abilene, TX	DE-FG02-03ER41243 05/14/2012 Isenhower	SC-26.1	The Spin and Anti-Quark Structure of the Nucleon	197
BAYLOR UNIVERSITY Waco, TX	DE-FG02-10ER41692 08/14/2013 Wang	SC-25	Horava-Lifshitz Theory and Applications to Cosmology and Astrophysics	50
BAYLOR UNIVERSITY Waco, TX	DE-FG02-05ER41399 05/31/2012 Dittmann	SC-25	Elementary Particle Physics at Baylor	160
FOURTH STATE RESEARCH Austin, TX	DE-FG02-08ER54978 02/14/2014 Bravenec	SC-24.2	A Systematic Method for Verification and Validation of Gyrokinetic Microstability Codes	50
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41518 08/14/2013 Lau	SC-25	A Proposal to Measure the Neutrino Mixing Angle Theta_13 in the Daya Bay Experiment	385
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER41521 08/14/2013 Bellwied, Pinsky	SC-26.1	Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC	477
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-07ER15888 06/30/2014 Thummel	SC-22.13	Further Studies on Photocatalytic Water Decomposition	170
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-10ER16175 08/31/2013 Cheung	SC-22.11	Multiscale Investigation of Thermal Fluctuations on Solar-Energy Conversion	81
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-09ER55042 08/14/2012 Economou	SC-24.2	Pulsed Plasma With Synchronous Boundary Voltage for Rapid Atomic Layer Etching	114
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-08ER46486 07/31/2012 Reiter	SC-22.21	Neutron Compton Scattering as a Probe of Hydrogen Bonded (and other) Systems	99
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-09ER46571 02/28/2013 Jacobson	SC-22.23	Enhanced Mixed Electronic-Ionic Conductors Through Cation Ordering	400
HOUSTON, UNIVERSITY OF Houston, TX	DE-FG02-10ER46747 08/31/2013 Halasyamani	SC-22.23	Controlling Magnetic and Ferroelectric Order Through Geometry: Synthesis, Ab Initio Theory, and Characterization of New Multi-Ferroic Fluoride Materials	339
IBM CORPORATION Austin, TX	DE-FC02-11ER26048 08/31/2014 Rajamony	SC-21.1	Performance Health Monitoring for Large-Scale Systems	199
NASA - JOHNSON SPACE CENTER Houston, TX	DE-AI02-10ER64969 05/14/2013 Cucinotta	SC-23.2	Systems Biology Model of Interactions Between Tissue Growth Factors and DNA Damage Pathways: Low Dose Response and Cross-Talk in TGFbeta and ATM Signaling	128
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER46312 04/30/2012 Krokhin	SC-22.22	Effective Medium Theory for Periodic Composites	110

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-06ER54883 07/14/2012 Ordonez	SC-24.2	Experimental and Theoretical Study of the Plasma Physics of Antihydrogen Generation and Trapping	46
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-09ER64812 07/31/2012 Chapman	SC-23.2	Engineering Neutral Lipid Accumulation in Vegetative Tissues of Plants	223
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-05ER15647 08/31/2014 Chapman	SC-22.13	Amidase-Mediated Modulation of N-Acylethanolamine (NAE) Signaling Pathway in Plants	180
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-04ER15508 12/31/2012 Bagus	SC-22.12	The Influence of Reaction Pathways on the Reduction of U(VI) to U (IV): The Role of the Intermediate U (V) Species	61
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-03ER15387 05/14/2014 Cundari	SC-22.12	Modeling of Late Transition Metal Catalysts for Energy Applications	108
NORTH TEXAS, UNIVERSITY OF Denton, TX	DE-FG02-10ER16147 04/14/2013 Cooke	SC-22.12	Experimentally Characterizing the Electronic Structures of f-Electron Systems Using Advanced High Resolution	65
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-97ER54452 01/31/2013 Boyd	SC-24.2	The Institute for High Heat Flux Removal: Phase II	201
PRAIRIE VIEW A&M RES FOUND Prairie View, TX	DE-FG02-04ER54777 02/29/2012 Huang	SC-24.2	Study of Rotamak Plasmas	272
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER46598 08/14/2013 Yakobson	SC-22.23	The Dawn of Boron Fullerenes: Key Issues of Stability and Synthetic Routes	250
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46337 06/14/2012 Natelson	SC-22.22	Nanostructure Studies of Strongly Correlated Materials	115
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46308 07/31/2012 Kono	SC-22.22	Spectroscopy of Degenerate One-Dimensional Electrons in Carbon Nanotubes	150
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-06ER46274 02/14/2014 Du	SC-22.22	Experiments on Quantum Hall Topological Phases at Ultra-Low Temperatures	150
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-10ER41666 12/31/2012 Geurts	SC-26.1	Experimental Relativistic Heavy Ion Physics	417
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER55032 08/14/2012 Liang	SC-24.2	Relativistic Plasma Physics Using Ultra-Intense Lasers	347
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-11ER55107 08/31/2012 Mittleman	SC-24.2	Proposal of Support for: IRMMW-THz 2011 - The 36th International Conference on Infrared, Millimeter, and Terahertz Waves	10

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-97ER41031 04/30/2013 Padley, Roberts, Corcoran	SC-25	High Energy Physics	745
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER63662 12/14/2012 Levander, Zelt	SC-23.1	3-D Seismic Experimentation and Advanced Processing/Inversion Development for Investigations of the Shallow Subsurface	0
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-04ER15523 04/14/2013 Scuseria	SC-22.12	Accurate Theoretical Approaches for Studying Actinides and Other Heavy Elements in Solid State	135
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-03ER15456 09/14/2012 Deem	SC-22.12	Towards Rational, Nanoscale Control of Catalysis: A Fundamental Study of Zeolite Structure and Nucleation	165
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER16053 07/31/2012 Scuseria	SC-22.11	Accurate Band Gaps for Tailor-Made Photovoltaic Materials	214
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-11ER16237 06/30/2012 Landes	SC-22.13	From Ultrafast Electron Transfer to Single Molecule Spectroscopy: Forces Driving Contemporary Themes in Physical Chemistry: Fall 2011 ACS National Meeting 8/28-	8
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-06ER25762 12/14/2012 Mellor-Crummey	SC-21.1	Performance Engineering Research Center (PERC3)	215
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER25920 08/31/2012 Jermaine	SC-21.1	The MCDB System for Management and Analysis of Petabyte-Scale Uncertain Data	200
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FG02-09ER25931 09/14/2012 Mellor-Crummey	SC-21.1	Correctness Tools for Petascale Computing	115
RICE UNIVERSITY, WILLIAM MARSH Houston, TX	DE-FC02-07ER25800 11/14/2012 Mellor-Crummey	SC-21.1	Center for Scalable Performance Application Development Software	1,260
SOUTHERN METHODIST UNIVERSITY Dallas, TX	DE-FG02-04ER41299 02/14/2013 Stroynowski	SC-25	High Energy Physics	713
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-11ER65242 09/14/2014 Chang	SC-23.1	Collaborative Project: Understanding Climate Model Biases in Tropical Atlantic and Their Impact on Simulations of Extreme Climate Events	494
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-11ER65221 09/14/2014 Santschi	SC-23.1	Plutonium Speciation and Mobility Through the Subsurface Environment: Nature of Organic Collodial Carriers	223
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-11ER65222 09/14/2014 Santschi	SC-23.1	Collaborative Research: The Importance of Organo-Iodine an Iodate in Iodine-127,129 Speciation, Mobility, and Microbial Activity in Groundwater at DOE Sites	224
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-11ER65350 09/14/2014 Saravanan	SC-23.1	Collaborative Project: Ocean-Atmosphere Interaction From Meso- to Planetary-Scale: Mechanisms, Parameterization, and	62

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41682 05/31/2013 Fries	SC-26.1	Proposal for a Topical Collaboration on Quantitative Jet and Electromagnetic Tomography (JET) of Extreme Phases of Matter in Heavy-Ion Collisions	46
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER41680 05/31/2015 Zhanov	SC-26.1	Advancing the Theory of Nuclear Reactions with Rare Isotopes: From the Laboratory to the Cosmos	27
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-09ER64766 06/30/2012 Schumacher	SC-23.1	Radiative Heating Associated with Tropical Convective Cloud Systems: Its Importance at Meso and Global Scales	78
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-08ER64620 07/31/2012 Chang	SC-23.1	Searching for Atlantic Thermohaline Circulation Strength Threshold Leading to Abrupt Change of the African Monsoon	0
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER46450 08/14/2013 Lyuksyutov	SC-22.22	Emergent Behavior in Magnet-Superconductor Hybrids	150
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER46278 03/14/2012 Pokrovsky	SC-22.22	Theory of Magnetic Heterostructures on the Nanometer Scale	148
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-02ER45999 09/14/2014 Dunbar	SC-22.23	Molecular Magnets Based on a Modular Approach: Investigation of Coupling, Anisotropy and Electronic Factors on Bistability	240
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER25727 03/31/2014 Efendiev	SC-21.1	Multiscale Analysis and Computation for Flows in Heterogeneous Media	80
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER16201 09/14/2013 Ozerov	SC-22.12	New Horizons in C-F Activation by Main Group Electrophiles	160
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-03ER15420 11/14/2012 Clearfield	SC-22.12	The Synthesis, Structures, and Chemical Properties of Macrocyclic Ligands Covalently Bonded into Layered Arrays	120
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER14511 12/31/2013 Goodman	SC-22.12	The Physical and Chemical Properties of Nanostructured Mixed-Metal Catalysts	220
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-09ER25949 09/14/2012 Rojas	SC-21.1	Topology for Statistical Modeling of Petascale Data	85
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-10ER26027 08/31/2013 Efendiev	SC-21.1	Bayesian Uncertainty Quantification in Predictions of Flows in Highly Heterogeneous Media and Its Applications to the CO2 Sequestration	255
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-06ER41405 11/30/2013 McIntyre	SC-25	New Technology for Future Colliders	819
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-07ER41485 06/14/2013 Mioduszewski	SC-26.1	Toward Understanding the QGP with the STAR Experiment at RHIC	196

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-93ER40765 11/30/2011 Tribble, Gagliardi	SC-26.1	QCD and Standard Model Studies	263
TEXAS A&M RESEARCH FOUNDATION College Station, TX	DE-FG02-95ER40917 04/30/2013 Webb, Nanopoulos, Kamon, McIntyre	SC-25	High Energy Physics Research at Texas A&M University	1,115
A&M UNIVERSITY, COLLEGE STATION College Station, TX	DE-FG02-10ER41705 08/31/2013 Tribble	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics and the Development of a	30
A&M UNIVERSITY, COLLEGE STATION College Station, TX	DE-FG02-93ER40773 12/31/2013 Tribble	SC-26.1	Texas A&M University Cyclotron Institute Research Plan	3,240
A&M UNIVERSITY, COLLEGE STATION College Station, TX	DE-FG02-11ER41747 07/14/2016 Melconian	SC-26.1	Fundamental Electroweak Interaction Studies Using Trapped Atoms and Ions	150
TEXAS A&M UNIVERSITY, COMMERCE Commerce, TX	DE-FG02-09ER64836 08/31/2012 Saffer	SC-23.2	The Development of an Artificial Science and Engineering Research Infrastructure to Facilitate Innovative Computational Modeling, Analysis, and Application...	0
TEXAS A&M UNIVERSITY, COMMERCE Commerce, TX	DE-FG02-10ER41706 08/31/2013 Bertulani	SC-26.2	Breakup of Loosely Bound Nuclei at Intermediate Energies for Nuclear Astrophysics and the Development of a	13
TEXAS A&M UNIVERSITY, COMMERCE Commerce, TX	DE-FC02-09ER41588 11/30/2011 Bertulani	SC-26.1	Building a Universal Nuclear Energy Density Functional	48
TEXAS A&M UNIVERSITY, COMMERCE Commerce, TX	DE-FG02-08ER41533 01/14/2014 Bertulani	SC-26.1	Reactions With Rare Isotopes	60
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-11ER26063 08/31/2012 Taylor	SC-21.1	Programs for Increasing the Engagement of Underrepresented Ethnic Group and People with Disabilities in HPC	49
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-06ER15836 08/31/2012 Balbuena	SC-22.12	Modeling Catalyzed Growth of Single-Wall Carbon Nanotubes	106
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-00ER15034 01/31/2013 Datta-Gupta	SC-22.12	Time-Lapse Seismic Monitoring and Performance Assessment of CO2 Sequestration in Hydrocarbon Reservoirs	221
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-05ER15729 12/14/2012 Balbuena	SC-22.12	Theory-Guided Design of Nanoscale Multi-Metallic Catalysts For Fuel Cells	0
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-08ER64644 02/29/2012 Kaihatu	SC-23.1	Collaborative Proposal: Climate-Induced Changes in Hurricane Winds, Surge, and Risk to Electric Power Systems	0
TEXAS ENGRNG EXPERIMNT STATION College Station, TX	DE-FG02-11ER46828 08/14/2014 Shao	SC-22.22	Radiation Response of Low Dimensional Carbon Systems	286

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER46552 11/30/2014 Jiang	SC-22.22	Optical and Electrical Properties of III-Nitrides and Related Materials	158
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER46638 09/14/2012 Lichti	SC-22.22	SISGR - MuSR Studies of Magnetic Semiconductors for Spintronics Applications	210
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	125
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-99ER20346 08/31/2014 Knaff	SC-22.13	Ferredoxin-Dependent Plant Metabolic Pathways	370
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-09ER25889 08/31/2012 Long	SC-21.1	Quantifying Prediction Fidelity in Multiscale Multiphysics Simulations	76
TEXAS TECH UNIVERSITY Lubbock, TX	DE-FG02-95ER40938 02/28/2013 Wigmans	SC-25	Experimental Particle Physics Research	421
OF HEALTH SC. CTR. AT HOUSTON Houston, TX	DE-FG02-07ER15867 05/14/2012 Spudich	SC-22.13	Folding and Function of Proteorhodopsins in Photoenergy Transducing Membranes	0
HEALTH SC. CTR. AT SAN ANTONIO San Antonio, TX	DE-FG02-09ER64799 07/14/2012 Yuan	SC-23.2	The c-Abl Signaling Network in the Radio-Adaptive Response	440
UNIV. OF SOUTHWESTERN MED. CTR Dallas, TX	DE-FG02-09ER64789 06/30/2012 Boothman	SC-23.2	Low Dose IR Activation of TGF-Beta 1-IGF-1-sCLU In Vivo: Mechanisms, Functions of a Changing Microenvironment	600
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-11ER65338 09/14/2014 Jackson	SC-23.1	Collaborative Project: The Problem of Bias in Defining Uncertainty in Computationally Enabled Strategies for Data-Driven Climate	163
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER64746 08/14/2012 Dickinson	SC-23.1	Systematic Development of a Subgrid Scaling Framework to Improve Land Simulation	321
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-11ER26052 08/31/2016 Ghattas	SC-21.1	Quantification of Uncertainty in Extreme Scale Computations (QUEST)	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER15884 07/31/2013 Stanton	SC-22.11	Quantum Chemistry of Radicals and Reactive Intermediates	179
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER25860 08/14/2012 Ghattas	SC-21.1	Large-Scale Optimization for Bayesian Inference in Complex Systems	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER25914 08/31/2012 Ghattas	SC-21.1	Uncertainty Quantification for Large-Scale Ice Sheet Modeling and Simulation	303

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER41321 04/30/2012 Shvets	SC-25	Investigations of the Plasma and Structure-Based Particle Accelerators	190
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-94ER40845 03/31/2012 Hoffmann	SC-26.1	Studies in High Energy Heavy Ion Nuclear Physics	700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-93ER40757 04/30/2013 Ritchie, Lang, Schwitters, Kopp,	SC-25	Research in High Energy Physics	758
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER40954 01/14/2014 Downer	SC-25	Laser Wakefield Acceleration: Channeling, Seeding, and Diagnostics	314
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-01ER15186 10/31/2013 Sessler	SC-22.12	Ion Pair Receptors: Fundamental Studies and Tests Involving Sulfate Anion and Thorium Cation Extraction	330
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15587 07/31/2012 Mullins	SC-22.12	Surface Chemical Studies of Gold Model Catalysts	145
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER15496 11/14/2012 Katz	SC-22.12	Metal-Anion Pairing at Oxide/Water Interfaces: Theoretical and Experimental Investigations from the Nanoscale to the	88
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER15746 11/14/2012 Vanden Bout	SC-22.13	Single Molecule Spectroscopic Studies of Charge Separation and Charge Transfer	185
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER15362 01/15/2015 Freeman	SC-22.12	Fundamental Structure/Property Studies of Gas Separation Membrane Polymers	179
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15406 10/31/2013 Ditmire	SC-22.11	High Intensity Femtosecond XUV Pulse Interactions with Atomic Clusters	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-03ER15430 11/30/2012 Laubach	SC-22.12	Predicting Fracture Porosity Evolution In Sandstone	300
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER25617 06/30/2014 Wheeler	SC-21.1	Modeling and Simulation of Coupled Complex Multiscale Subsurface Phenomena	177
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER25701 06/14/2012 Oden	SC-21.1	Adaptive Multi-Scale Modeling Based on Goal Oriented Error Estimation and Control	301
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-11ER16228 04/30/2012 Rossky	SC-22.11	Support of the 2011 American Conference on Theoretical Chemistry, July 18-22, 2011	8
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-06ER15758 01/31/2012 Crooks	SC-22.12	Separations and Analysis using Bipolar Electrodes	151

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16036 07/31/2014 Pope	SC-22.21	Frontiers of Subsurface Energy Security -- EFRC	1,700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16044 07/31/2014 Zhu	SC-22.11	RECOVERY ACT - Understanding Charge Separation and Transfer at Interfaces in Energy Materials and Devices (CST) -- EFRC	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16119 09/14/2012 Bard	SC-22.13	SISGR: Nano-Structured Electrocatalysts for Conversion of Solar Energy to Fuels	350
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER16090 09/14/2012 Crooks	SC-22.12	SISGR: Correlation of Theory and Function in Well-Defined Bimetallic Electrocatalysts	316
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-11ER55106 08/31/2016 Berk	SC-24.2	Collaborative Research: Center for Nonlinear Simulation of Energetic Particles Burning Plasmas (CSEP)	145
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-11ER55109 08/31/2012 Van Dam	SC-24.2	IAEA Technical Meetings on Energetic Particles in Magnetic Confinement Systems and on Theory of Plasma Instabilities,	19
TEXAS, UNIVERSITY OF Austin, TX	DE-FC02-08ER54988 01/14/2012 Berk	SC-24.2	Center for Gyrokinetic/MHD Hybrid Simulation of Energetic Particle Physics in Toroidal Plasmas (CSEPP)	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54754 06/14/2014 Kotschenreuther	SC-24.2	Removing the Divertor Bottleneck in Magnetic Fusion Energy	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54766 05/14/2014 Gentle	SC-24.2	Collaborative Research: Magnetized Plasma Turbulence and Coupling to Bulk Flows	386
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-08ER64610 07/31/2012 Cook	SC-23.1	Influence of Atlantic SST Thresholds on Continental Climates: Development and Application of a Coupled	0
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54938 07/31/2013 Van Dam	SC-24.2	Activities of U.S. Burning Plasma Organization	237
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER54945 07/31/2013 Downer	SC-24.2	Holographic Imaging of Evolving Laser-Plasma Structures	150
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-04ER54742 10/31/2012 Waelbroeck	SC-24.2	Institute for Fusion Studies	2,494
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-05ER54840 05/31/2012 Shvets	SC-24.2	Collective High-Current Beam Effects Relevant to Fast Ignition of Fusion Targets	43
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-96ER54373 03/31/2012 Gentle	SC-24.2	C-Mod Collaboration	362

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-97ER54415 03/31/2012 Gentle	SC-24.2	Proposed Diagnostics and Physics Contributions of the University of Texas Fusion Research Center to the DIII-D	440
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46673 08/31/2013 Zhu	SC-22.23	Extracting Hot Charge Carriers from Photoexcited Semiconductor Nanocrystals	210
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46657 09/14/2012 Ruoff	SC-22.23	SISGR - Improved Electrical Energy Storage With Electrochemical Double Layer Capacitance Based on Novel Carbon	453
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-09ER46609 08/31/2012 Chelikowsky	SC-22.22	TMS: Theory and Simulation of Defects in Oxide Materials	385
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-10ER46749 08/31/2013 Goodenough	SC-22.23	Materials and Interfacial Chemistry for Next-Generation Electrical Energy Storage	700
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-02ER45958 06/14/2014 MacDonald, Niu	SC-22.22	Geometric Phases and Topological Effects in Graphene and Magnetic Systems	205
TEXAS, UNIVERSITY OF Austin, TX	DE-FG02-07ER46377 05/31/2013 Shi	SC-22.22	Energy Transport in Graphene	150
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-96ER40943 01/31/2014 White	SC-25	Research in Experimental Elementary Particle Physics	640
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-09ER46597 08/14/2012 Tao	SC-22.23	Doping Cuprous Oxide in Electrolyte Solution: Dopant Incorporation, Atomic Structures and Electrical Properties	167
EXAS, UNIVERSITY OF ARLINGTON Arlington, TX	DE-FG02-11ER41759 08/31/2013 Brandt	SC-25	Advanced Detector Research: Electronics for a Picosecond Time-of-Flight Measurement	135
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-08ER46491 08/14/2013 Chabal	SC-22.23	Novel Theoretical and Experimental Approaches for Understanding and Optimizing Hydrogen-Sorbent Interactions	360
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-09ER55037 07/14/2012 Overzet	SC-24.2	Micro-Misted Plasmas	133
TEXAS, UNIVERSITY OF DALLAS Richardson, TX	DE-FG02-04ER41310 04/14/2013 Izen	SC-25	Elementary Particle Physics	365
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER41599 12/31/2013 Incera	SC-26.1	Quark Matter Under Extreme Conditions	60
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER25948 09/14/2012 Teller	SC-21.1	I/O Coordination to Improve HEC System Performance: A Marriage of Analytical Modeling, Control Theory, and	222

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (TX)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-09ER16048 08/31/2012 Baruah	SC-22.11	Density Functional Based Tools for Simulation of Photo-Induced Charge Transfer	152
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-11ER16270 11/14/2014 Zope	SC-22.11	Density Functional Based Software for the X-Ray Based Spectra	100
TEXAS, UNIVERSITY OF EL PASO El Paso, TX	DE-FG02-11ER65159 08/31/2015 Robertson	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System Model (RASM)	73
XAS, UNIVERSITY OF SAN ANTONIO San Antonio, TX	DE-FG02-09ER25946 09/14/2012 Yi	SC-21.1	A Multi-Language Environment for Programmable Code Optimization and Empirical Tuning	115
Total for TX :				37,441

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (UT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-03ER15410 01/31/2013 Farnsworth	SC-22.12	Ion Production and Transport in Atmospheric Pressure Ion Source Mass Spectrometers	140
BRIGHAM YOUNG UNIVERSITY Provo, UT	DE-FG02-05ER15666 08/14/2014 Woodfield	SC-22.12	Energetics of Nanomaterials	330
GEOLOGICAL SURVEY, US, MOAB Moab, UT	DE-AI02-08ER64550 05/14/2013 Belnap	SC-23.1	Climate Change in Arid Lands: How Effects Differ Among Plant Functional Groups	327
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-04ER54746 12/14/2012 Held	SC-24.2	Advanced Closures for Numerical Simulations of Plasmas	82
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-05ER54812 02/28/2014 Held	SC-24.2	Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State Universities	70
UTAH STATE UNIVERSITY Logan, UT	DE-FC02-08ER54973 02/14/2016 Held	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	89
UTAH STATE UNIVERSITY Logan, UT	DE-FG02-10ER16162 06/14/2013 Evans	SC-22.12	Impact of Micro- to Meso-Scale Fractures on Sealing Behavior of Argillaceous Caprocks on Carbon Sequestration	199
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER16167 06/30/2013 Lighty	SC-22.11	Development of Kinetics for Soot Oxidation at High Pressures Under Fuel-Lean Conditions	159
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER16079 09/14/2012 Louie	SC-22.12	Harnessing the Chemistry of Carbon Dioxide	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-99ER15003 02/28/2014 Anderson	SC-22.11	Model Catalysts by Size-Selected Cluster Deposition	158
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-01ER15176 12/14/2013 Morse	SC-22.11	Spectroscopy of Organometallic Radicals	155
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER15404 05/31/2012 Armentrout	SC-22.11	Thermochemistry and Reactivity of Transition Metal Clusters and Their Oxides	145
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14333 05/31/2014 Harris	SC-22.12	Analytical Spectroscopy Methods for Liquid/Solid Interfaces	294
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER14315 07/31/2014 Miller	SC-22.12	The Hydrophobic Character of Nonsulfide Mineral Surfaces as Influenced by Double-Bond Reactions of Adsorb of	310
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-11ER26053 08/31/2016 Hall	SC-21.1	The Institute for Sustained Performance, Energy and Resilience (SUPER)	215

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (UT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-10ER25898 12/14/2012 Hall	SC-21.1	Performance Engineering Research Institutes	100
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-08ER25865 09/14/2012 Sanderson	SC-21.1	Visualization and Analysis in Support of Fusion Science	0
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER25781 12/14/2012 Johnson	SC-21.1	Visualization and Analytics Center for Enabling Technologies	854
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER25950 09/14/2012 Pascucci	SC-21.1	Topology for Statistical Modeling of Petascale Data	130
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER25973 09/30/2012 Hall	SC-21.1	Compiler-Directed Automatic Performance Tuning	235
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FC02-06ER41446 09/14/2012 Detar	SC-25	SciDAC: National Computational Infrastructure for Lattice Gauge Theory	61
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-98ER62571 02/28/2012 Mace	SC-23.1	The Coupling Between the Large Scale Atmospheric State and Cloud Properties: A Continuing Investigation with ARM Data	0
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-08ER64553 05/14/2013 Krueger	SC-23.1	Interactions of Cumulus Convection and the Boundary Layer at the Southern Great Plains ACRF	0
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-08ER64557 05/14/2012 Zipser	SC-23.1	Validation of Model Simulations of Anvil Cirrus Properties	39
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46639 09/14/2012 Scarpulla	SC-22.22	SISGR - Fundamental Studies of Unconventional Sulfide Semiconductors for Cost- Effective and Environmentally Benign Thin Film Photovoltaics	300
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46663 09/14/2012 Smith	SC-22.23	SISGR: The Influence of Electrolyte Structure and Electrode Morphology on the Performance of Ionic-Liquid Based	500
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-09ER46568 07/14/2012 Boehme	SC-22.22	Coherent Control of Spin-States in Organic Electronics	185
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46027 04/30/2013 Liu	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing, Characterization, and Novel Devices	150
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-93ER45504 12/31/2013 Miller	SC-22.23	Synthesis of Molecule/Polymer Based Magnetic Materials	237
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-06ER46313 05/31/2013 Mishchenko	SC-22.22	Transport and Interactions in Chiral Electron Systems	110

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (UT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46148 05/31/2013 Liu	SC-22.22	Classical and Quantum Stress Effects in Nano Thin Films and in Doping of Semiconductors	144
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-04ER46109 11/14/2013 Vardeny	SC-22.23	Optical, Electrical and Magnetic Studies of pi-Conjugated Systems	210
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-03ER46086 08/31/2012 Virkar	SC-22.22	Thermodynamic, Kinetic and Electrochemical Studies on Mixed Proton, Oxygen Ion and Electron (Hole) Conductors	158
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER65084 09/14/2013 Ehleringer	SC-23.1	Improving Representation of Drought Stress and Fire Emissions in Climate Carbon Models: Measurements and Modeling with a	349
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-10ER64937 05/14/2012 Lazzi	SC-23.2	Artificial Retina Project: Electromagnetic and Thermal Effects	147
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-11ER65235 09/14/2013 Mace	SC-23.1	Sparticus and Stormvex Science	93
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-11ER65324 09/14/2014 Mace	SC-23.1	Development of Cloud and Precipitation Property Retrieval Algorithms and Measurement Simulators from ASR Data	200
UTAH, UNIVERSITY OF Salt Lake City, UT	DE-FG02-11ER65326 09/14/2014 Pu	SC-23.1	Retrieving 4-Dimensional Atmospheric Boundary Layer Structure from Surface Observations and Profiles Over a Single	77
Total for UT :				7,102

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (VA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ATION FOR WOMEN IN MATHEMATICS Fairfax, VA	DE-FG02-07ER25822 03/31/2014 Manning	SC-21.1	Support for Recognition of Women and for Activities for Women in Mathematical Sciences at National Meetings	50
DEFENSE ADV RES PROJECT AGENCY Arlington, VA	DE-AI02-07ER25819 12/31/2012 Holland	SC-21.1	Cascade: High Productivity Adaptive Computing	0
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-09ER64773 06/14/2012 Boybeyi	SC-23.1	Assessment of the Indirect and Semi-Direct Aerosol Effects During ISDAC Through Integrated Observational and Modeling Studies	185
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-08ER64633 08/31/2012 DelSole	SC-23.1	Optimal Detection of Decadal Predictability	0
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-07ER46425 03/31/2012 Papaconstantopoulos	SC-22.22	Modeling of Complex Hydrides by First Principles, Tight-Binding and Kinetic Monte Carlo Approach	0
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-01ER45871 08/31/2014 Mishin	SC-22.22	Interfaces in Electronic and Structural Materials	129
GEORGE MASON UNIVERSITY Fairfax, VA	DE-FG02-09ER25886 08/14/2012 Nash	SC-21.1	Optimization Algorithms for Hierarchical Problems, with Application to Nanoporous Materials	160
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-97ER41047 05/31/2012 Tang	SC-26.1	Selected Problems in Hypernuclear Physics	160
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-04ER54793 07/31/2013 Punjabi	SC-24.2	Homoclinic Tangles in DIII-D Divertor Tokamak	147
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-07ER54937 07/31/2012 Ali	SC-24.2	The Hampton University Undergraduate Research Experience in Fusion Science and Related Areas for Minority and Female	26
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-01ER54624 04/14/2013 Ali	SC-24.2	The Problem of Heat Deposition on Divertor Tokamak	91
HAMPTON UNIVERSITY Hampton, VA	DE-FG02-87ER40380 03/31/2013 Keppel	SC-26.1	The Hampton University Graduate Studies (HUGS) Summer Program at Jefferson Lab	48
YPERV TECHNOLOGIES CORPORATION Chantilly, VA	DE-FG02-05ER54835 05/31/2012 Witherspoon	SC-24.2	Hybrid Kinetic/Fluid Simulations for Magnetized High Energy Density Plasma Studies	478
YPERV TECHNOLOGIES CORPORATION Chantilly, VA	DE-FG02-05ER54810 05/31/2012 Witherspoon	SC-24.2	Formation of Imploding Plasma Liners for HEDP and MIF Applications	600
AGEMENT ANALYSIS, INCORPORATED Vienna, VA	DE-AT02-11ER35922 09/30/2013 Smith	SC-46	Integrated Financial Management and Analysis Services - (FSS Contract: GS-23F-8056H)	239

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (VA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
NASA - LANGLEY RESEARCH CENTER Hampton, VA	DE-AI02-11ER65301 09/14/2014 Ferrare	SC-23.1	Lidar Investigations of Aerosol, Cloud, and Boundary Layer Properties Over the ARM ACRF Sites	148
NASA - LANGLEY RESEARCH CENTER Hampton, VA	DE-AI02-11ER65234 08/31/2014 Xu	SC-23.1	Improving Boundary-Layer Turbulence and Cloud Processes in CAM with a Higher-Order Turbulence Closure Scheme and ASR Measurements	152
NASA - LANGLEY RESEARCH CENTER Hampton, VA	DE-AI02-11ER65225 08/31/2014 Hostetler	SC-23.1	Characterizing Aerosol Distributions, Types, and Optical and Microphysical Properties using the NASA Airborne High	199
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-98ER25365 09/14/2012 McDuffie	SC-21.1	Co-Sponsorship of the ITR&D Program	498
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-11ER35920 12/31/2011 Richardson	SC-1	Partial Support for The Global Science Forum	210
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER45568 04/30/2012 Stolberg	SC-22.23	Pan American Advanced Studies Institute Program (PASI)	200
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER45582 02/28/2014 Murillo	SC-22.23	Research Facilities at ChemMatCARS: A Synchrotron Resource for Chemistry and Materials Science at the Advanced Photon	240
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-04ER46143 07/14/2012 Roco	SC-22.22	National Nanotechnology Coordinating Office (NNCO)	637
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-02ER63425 10/31/2013 McCartney	SC-23.2	PDB Management by the Research Collaboratory for Structural Biology	600
NATIONAL SCIENCE FOUNDATION Arlington, VA	DE-AI02-96ER62250 05/14/2012 Stephens	SC-23.1	Support of Distributed Cost Activities of the U.S. Global Change Research Program	751
NORFOLK STATE UNIVERSITY Norfolk, VA	DE-FG02-89ER40525 06/30/2013 Punjabi	SC-26.1	Polarization Experiments with Electromagnetic Probes	110
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-96ER54360 05/31/2013 Vahala	SC-24.2	Topics in Plasma Physics	10
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-97ER41028 04/14/2012 Radyushkin	SC-26.1	Topics in Theoretical Nuclear Physics	143
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-05ER54820 03/31/2012 Vahala	SC-24.2	EBW Physics of ECE in NSTX	0
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-11ER41766 08/31/2014 Dudek	SC-26.1	Germany-U.S. Nuclear Theory Exchange Program for QCD Studies of Hadrons & Nuclei "GAUSTEQ"	35

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (VA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-11ER41769 08/31/2014 Weinstein	SC-26.1	Short Distance Structure of Nuclei - Mining the Wealth of Existing Jefferson Lab Data	150
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-11ER41749 07/14/2016 Dudek	SC-26.1	Meson Spectroscopy from QCD	150
ION UNIVERSITY RESEARCH FOUND. Norfolk, VA	DE-FG02-96ER40960 03/14/2014 Hyde, Weinstein, Dodge, Kuhn	SC-26.1	From Quarks to Nuclei	760
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-05ER41379 04/30/2014 Beausang	SC-26.1	Nuclear Structure Research at Richmond	50
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-09ER16063 02/28/2013 Parish	SC-22.11	A Theoretical Investigation of the Structure and Reactivity of the Molecular Constituents of Oil Sand and Oil Shale	86
RICHMOND, UNIVERSITY OF Richmond, VA	DE-FG02-96ER40980 05/31/2012 Gilfoyle	SC-26.1	Medium Energy Nuclear Physics at the University of Richmond	48
ROLLING BAY LLC Manassas, VA	DE-AC02-07ER35878 08/26/2012 Hughes	SC-45	Mission Specific IT Services	10,287
SOCIETY OF NUCLEAR MEDICINE Reston, VA	DE-FG02-10ER64958 04/30/2012 Wenzel-Lamb	SC-23.2	Support of Students for Radiochemistry Symposium, September 8-11, 2010	0
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-11ER16213 06/30/2014 Khanna	SC-22.11	Magnetic and Tunable Band Gap Cluster Building Blocks for Novel Nanostructure Materials and Electron Transport through their Assemblies	127
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-10ER16127 12/31/2012 Luzar	SC-22.11	Hydration Mechanisms in Nanoparticle Interaction and Surface Energetics	120
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-11ER46827 08/14/2014 Jena	SC-22.22	Elucidation of Hydride Interaction Mechanisms with Carbon Nanostructures and the Formation of Novel Nanocomposites	75
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-11ER46808 06/30/2012 Jena	SC-22.22	International Symposium on Clusters and Nanostructures, November 7-10, 2011	20
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-96ER45579 08/31/2014 Jena	SC-22.22	Super Beyond Halogens & Beyond Clusters	202
RGINIA COMMONWEALTH UNIVERSITY Richmond, VA	DE-FG02-09ER46665 09/14/2012 El-Kaderi	SC-22.23	SISGR - Design and Synthesis of Chemically and Electronically Tunable Nanoporous Organic Polymers for Use in Hydrogen	190
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER46290 07/31/2012 Viehland	SC-22.22	Mesoscale Design of Interphase-Interfaces in Magnetoelectric Nanocomposites	216

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (VA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-11ER41755 07/31/2012 Huber	SC-25	Sterile Neutrinos at the Crossroads Workshop, September 26-28, 2011	5
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-08ER46532 04/30/2014 Heremans	SC-22.22	Spin-Coherent Transport Under Strong Spin-Orbit Interaction	100
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER46480 05/14/2014 Priya	SC-22.21	Correlation of Bulk Dielectric and Piezoelectric Properties to the Local Scale Phase Transformations, Domain	179
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-09ER46613 08/14/2012 Tauber	SC-22.22	Driven Magnetic Flux Lines in Disordered Superconductors: Relaxation Towards Equilibrium and Nonequilibrium Stationary States	150
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-07ER64449 07/31/2014 Beers	SC-23.2	Functional Interactomics: Determining the Roles Played by Members of the Popular Biomass Protein-Protein Interactome	994
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-06ER15786 09/14/2012 Hochella	SC-22.12	Dissolution Rates and Sorption/Catalytic Reactivity of Nanominerals and Nanomineral Aggregates	155
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-92ER40709 01/31/2013 Piilonen, Takeuchi	SC-25	Investigations in Experimental and Theoretical Particle Physics	486
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15658 08/14/2014 Ross	SC-22.12	Energetics of Nanomaterials	80
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-05ER15751 05/31/2014 Brewer	SC-22.13	Photoinitiated Electron Collection in Mixed-Metal Supramolecular Complexes: Development of Photocatalysts for Hydrogen	129
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-96ER14669 12/14/2012 Oyama	SC-22.12	Molecular Understanding of Advanced Catalysis for Hydrodeoxygenation	150
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-97ER14751 04/30/2012 Cox	SC-22.12	Hydrocarbon Dehydrogenation and Oxidation Over Model Metal Oxide Surfaces	155
A POLYTECHNIC INST AND ST UNIV Blacksburg, VA	DE-FG02-11ER65223 09/14/2012 Hochella	SC-23.1	Biotic Controls on Uranium Sequestration and Release by Framboidal Pyrite in Bioreduced Sediments	90
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-11ER65347 09/14/2013 Keene	SC-23.1	Development of a Wind-Wave Air-Sea Interface Module to Quantify Heat, Mass & Momentum Transfer in the Atmospheric	62
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER14786 10/31/2012 Gallagher	SC-22.11	Studies of Autoionizing States Relevant to Dielectronic Recombination	148
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-95ER14549 05/31/2012 Davis	SC-22.12	Structure and Function of Supported Base Catalysts	160

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (VA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-00ER15053 11/30/2012 Jones	SC-22.11	Using Strong Optical Fields to Manipulate and Probe Coherent Molecular Dynamics	145
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16080 09/14/2012 Yates	SC-22.12	Observing Carbon-Hydrogen Bond Activation in Chemisorbed Species Using a New Highly Sensitive Optical Method	200
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16025 07/31/2012 Andrews	SC-22.12	Matrix Infrared Spectroscopic and Computational Investigations of Novel Small Uranium Containing Molecules	120
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER16014 12/31/2012 Gunnoe	SC-22.12	Development of Transition Metal Catalysts for the Functionalization of Carbon-Hydrogen Bonds: Fundamental Studies	145
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-96ER40950 11/30/2013 Day, Crabb	SC-26.1	Electron Interactions with Nuclei	720
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-03ER41240 05/31/2014 Liyanaage	SC-26.1	Deep Inelastic Scattering in the Nucleon Valence Quark Region for Precision Studies of Nucleon Spin Structure and for Parity	232
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41168 03/31/2013 Cates	SC-26.1	Medium Energy Spin Physics with Lasers	520
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER41200 04/30/2013 Liuti	SC-26.1	Studies of Quantum Chromodynamics at the Intersection of the Perturbative and Non-Perturbative Regimes	95
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER41522 04/30/2012 Paschke	SC-26.1	Precision Electroweak Studies at Low Q ² using Parity-Violating Electron-Scattering	175
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER15894 02/14/2012 Neurock	SC-22.12	Theory Aided Design of Active and Durable Nanoscale Cathode Catalysts	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER25908 08/31/2012 Veeraraghavan	SC-21.1	Resource Optimization in Hybrid Core Networks With 10 G Systems	174
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41027 04/15/2012 Thacker	SC-25	Experimental and Theoretical High Energy Physics Group (Tasks A, B, C, and D)	1,136
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41025 05/31/2012 Norum	SC-26.1	Nuclear Studies with Intermediate Energy Probes	583
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-09ER46582 07/31/2014 Gunnoe	SC-22.11	Center for Catalytic Hydrocarbon Functionalization -- EFRC	2,200
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-01ER45927 06/14/2014 Louca	SC-22.21	Emergent Phenomena in Novel Materials and Functionality Control: Characterization at Multiple Length and Time Scales	220

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (VA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER46384 05/31/2013 Lee	SC-22.21	Neutron Scattering Study of Unconventional Superconductors	199
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER41302 03/14/2013 Orginos, Detmold	SC-26.1	Topics in Theoretical Physics	136
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER41630 08/31/2012 Detmold	SC-26.1	Multi-Meson Systems in Lattice QCD	99
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-11ER26044 08/14/2016 Shen	SC-21.1	Data Locality Enhancement of Dynamic Simulations for Exascale Computing	147
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER25885 08/14/2012 Lewis	SC-21.1	Optimization Algorithms for Hierarchical Problems, with Application to Nanoporous Materials	19
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-09ER16046 08/31/2012 Krakauer	SC-22.11	Quantum Monte Carlo Calculations of Chemical Binding and Reactions	293
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-07ER46366 04/30/2012 Krakauer	SC-22.22	Predictive Capability for Strongly Correlated Systems: Mott Transition in MnO, Multielectron Magnetic Moments, and	0
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-04ER46127 04/14/2013 Luepke	SC-22.22	Time-Resolved Spectroscopy of Insulator-Metal Transitions: Exploring Low-Energy Dynamics in Strongly Correlated Systems	150
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER41003 02/14/2014 Griffioen, Averett	SC-26.1	Nucleon Structure Studies	423
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER54344 12/31/2012 Vahala	SC-24.2	Theoretical Plasma Physics	100
Total for VA :				30,001

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (VT)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SAINT MICHAELS COLLEGE Colchester, VT	DE-FG02-11ER55098 07/31/2014 Brizard	SC-24.2	Hamiltonian Formulations and Momentum Conservation Laws of Reduced Plasma Models	33
& ST AGRICULTURAL COL., U. OF Burlington, VT	DE-FG02-11ER65170 08/14/2016 Dunlop	SC-23.2	Engineering Robust Hosts for Microbial Biofuel Production	158
VERMONT, UNIVERSITY OF Burlington, VT	DE-FG02-07ER46380 05/31/2014 Headrick	SC-22.21	Fundamental Mechanisms of Roughening and Smoothing During Thin Film Deposition	182
Total for VT :				373

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
FORESIGHT SCIENCE & TECH, INC. Port Townsend, WA	DE-AD02-08ER12272 12/31/2011 Speser	SC-29	SBIR/STTR Commercialization Assistance Program	323
INSTITUTE FOR SYSTEMS BIOLOGY Seattle, WA	DE-FG02-10ER65031 08/14/2013 Baliga	SC-23.2	Enabling a Systems Biology Knowledgebase with Gaggle and Firegoose	499
MSNW, LLC Redmond, WA	DE-FG02-09ER55029 08/14/2012 Slough	SC-24.2	Foil Liner Compression of the FRC to Megagauss Fields	425
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46386 05/31/2013 McCluskey	SC-22.22	Optical Properties of Doped ZnO Nanocrystals and Ceramics	151
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-07ER46435 08/14/2013 Zbib	SC-22.22	Investigating Deformation and Failure Mechanisms in Nanoscale Multilayer Metallic Composites	185
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64560 05/14/2012 Beyenal	SC-23.1	Microscale Metabolic, Redox and Abiotic Reactions in Hanford 300 Area Subsurface Sediments	0
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64660 08/31/2012 Flury	SC-23.1	Long-Term Colloid Mobilization and Colloid-Facilitated Transport of Radionuclides in a Semi-Arid Vadose Zone	0
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER64901 08/31/2012 Gang	SC-23.2	Engineering Specialized Metabolism in a Single Cell Type	462
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER25983 05/14/2013 Vixie	SC-21.1	Geometric Analysis for Data Reduction and Structure Discovery	412
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-06ER15820 12/14/2012 Hurst	SC-22.13	Membrane-Organized Chemical Photoredox Systems	130
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER15927 08/31/2012 Neff	SC-22.13	Biochemical and Molecular Genetic Analysis of the AT-hook Nuclear Localizing (AHL) Gene Family in Arabidopsis	120
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-11ER26042 08/14/2016 Kalyanaraman	SC-21.1	Efficient Graph Kernels for Extreme Scale Analysis of Environmental Community Data	149
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16062 08/14/2012 Cousins	SC-22.13	Disruption of C4 Photosynthesis by Changes in Light Quantity and Quality: Implications for CO2 Fixation and Photosynthetic Efficiency in C4 Crop and	170
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16054 08/14/2012 Lange	SC-22.13	Unraveling the Regulation of Terpenoid Oil and Resin Biosynthesis for the Development of Biocrude Feedstocks	135
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER16098 09/14/2012 Clark	SC-22.12	SISGR - Origin of Actinide Ion Partitioning in Biphasic Systems	200

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER16154 08/31/2013 Clark	SC-22.12	Controlling Actinide Hydration in Mixed Solvent Systems: Towards Tunable Solvent Systems to Close the Nuclear Fuel Cycle	150
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-11ER16259 05/31/2012 Lewis	SC-22.13	Phytochemical Society of North American 50th Anniversary Meeting, 12/10/11 - 12/15/11	5
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-99ER20323 03/14/2012 Browse	SC-22.13	Jasmonate Signaling and Stamen Development in Arabidopsis	165
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20225 07/14/2014 Kahn	SC-22.13	The Rhizobial Nitrogen Stress Response and Effective Symbiotic Nitrogen Fixation	180
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-96ER20216 08/31/2014 Okita	SC-22.13	Enhancement of Photoassimilate Utilization by Manipulation of Starch Regulatory Enzymes ADPglucose Pyrophosphorylase and	180
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-97ER20259 01/31/2013 Lewis	SC-22.13	Lignin Biopolymer Assembly and Primary Structure: A (Bio)Chemical Characterization	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-04ER15618 07/31/2012 Dickinson	SC-22.12	Laser Material Interactions Relevant to Analytic Spectroscopy of Wide Band Gap Materials	0
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-05ER15709 08/31/2014 Leigh	SC-22.13	Electron flow and energy conservation in a hydrogenotrophic methanogen	180
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-96ER14630 03/14/2014 Campbell	SC-22.12	Supported Metal Nanoparticles: Correlating Catalytic Kinetics, Energetics and Surface Structure	215
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER16248 11/14/2014 Li	SC-22.11	Time-Dependent Density Functional Theory: Introducing First-Principles Electron Friction in Time-Domain	90
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER16105 09/14/2012 Khalil	SC-22.11	SISGR - Correlating Electronic and Nuclear Motions During Photoinduced Charge Transfer Processes using Multidimensional	280
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER16106 09/14/2012 Seidler	SC-22.11	SISGR - New Scientific Opportunities Through Inelastic X-Ray Scattering at 3rd-and 4th-Generation Light Sources (*)	164
WASHINGTON, UNIV OF, SEATTLE 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	224
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-96ER40956 03/31/2014 Nelson, Wilkes, Yaffe	SC-25	Theoretical and Experimental Particle Physics	1,313
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER64767 06/14/2012 Marchand	SC-23.1	Atmospheric Classification for the Analysis of ARM Observations and Global Climate Models	167

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER64769 06/14/2012 Fu	SC-23.1	Radiative Energy Balance in the Tropical Tropopause Layer: An Investigation with ARM DATA	146
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER64833 08/31/2012 Wood	SC-23.1	Clouds, Aerosol, and Precipitation in the Marine Boundary Layer: Analysis of Results from the ARM Mobile Facility Deployment to	0
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-08ER64589 07/14/2012 Lettenmaier	SC-23.1	Susceptibility of Colorado River Basin to Megadroughts in a Warming Climate	0
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-04ER54756 12/31/2012 Shumlak	SC-24.2	The ZaP Flow Z-Pinch Project	122
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER55090 08/14/2014 Raman	SC-24.2	Disruption Mitigation Studies in NSTX in Support of ITER and Future STs Using Massive Gas Injection	33
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-99ER54519 03/14/2014 Jarboe	SC-24.2	Solenoid Free Current Initiation and Sustainment by Coaxial Helicity Injection	303
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-97ER41020 11/30/2011 Robertson	SC-26.1	Experimental Nuclear Physics	3,766
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-97ER41014 10/31/2014 Miller	SC-26.1	Theoretical Nuclear Physics	785
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-98ER54480 07/14/2012 Steinhauer	SC-24.2	Theory of Field-Reversed Configurations	95
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-96ER54361 05/31/2014 Jarboe	SC-24.2	Helicity Injected Torus (HIT) Current Drive Program	1,045
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-96ER54376 01/31/2013 Hoffman, Vlases, Milroy	SC-24.2	High Flux FRC Facility for the Stability, Confinement and ITER Divertor Studies	310
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-04ER54769 06/14/2012 Slough	SC-24.2	Small Scale Fusion: The Pulsed High Density FRC Experiment	320
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FC02-05ER54811 02/28/2014 Jarboe	SC-24.2	Plasma Science and Innovation Center (PSI Center) at Washington, Wisconsin, and Utah State	982
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FC02-10ER55073 03/14/2016 Glasser	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	97
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER55034 08/14/2012 Smith	SC-24.2	Internal Field, Density and Temperature Measurements in Magnetized Target Fusion Plasmas Using Pulsed Polarimetry	202

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-07ER46467 05/31/2013 Jenekhe	SC-22.23	Molecular and Nanoscale Engineering of High Efficiency Exciton Solar Cells	380
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER46653 09/14/2012 Cobden	SC-22.21	SISGR - Intrinsic Properties of Correlated Materials Derived From Combined Nanoscale Transport and Ultrafast Spatio-Temporal Imaging Experiments	398
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-10ER46702 05/31/2013 Pozzo	SC-22.21	Self-Assembly of Conjugated Polymer Networks: A Neutron Scattering Study	166
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-02ER45990 07/14/2012 Rehr	SC-22.22	Computational Materials and Chemical Sciences Network Administration	21
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-97ER45623 02/14/2015 Rehr	SC-22.22	Next Generation Photon and Electron Spectroscopy Theory	150
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER41765 08/31/2014 Rosenberg	SC-25	The Phase II Upgrade of the Axion Dark-Matter Experiment (ADMX)	1,275
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65362 09/14/2014 MacCready	SC-23.1	Collaborative Project: Improving the Representation of Coastal and Estuarine Processes in Earth System Models	97
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER64778 06/30/2012 Ackerman	SC-23.1	Evaluating and Improving Cloud Processes in the Multi-Scale Modeling Framework	174
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-09ER64752 05/14/2012 Houze	SC-23.1	Use of ARM Observations and Numerical Models to Determine Radiative and Latent Heating Profiles of Mesoscale Convective	127
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-00ER41132 02/28/2014 Kaplan	SC-26.1	Institute for Nuclear Theory	2,655
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65226 09/14/2014 Wood	SC-23.1	Analysis of Data and Development of VAPs from the AMF Azores Deployments to Understand Cloud-Aerosol-Precipitation	142
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65269 08/31/2014 Lidstrom	SC-23.2	Systems Biology Approach to Metabolic Integration in Methylobacterium Exorquens AM1	551
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65270 08/31/2014 Stahl	SC-23.2	Archaeal Influence on Nitrogen Transformations in Soil and Root Systems of Bioenergy Crop Species	734
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65318 09/14/2014 Thornton	SC-23.1	Connecting Organic Aerosol Climate-Relevant Properties to Chemical Mechanisms of Sources and Processing	61
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-10ER64972 05/31/2013 Lidstrom	SC-23.2	Systems Level Insights into Alternate Methane Cycling Modes in a Freshwater Lake via Community Transcriptomics,	594

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (WA)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65152 04/14/2014 Thornton	SC-23.1	COLLABORATIVE RESEARCH: Study of Aerosol Sources and Processing at the GVAX Pantnagar Supersite	130
WASHINGTON, UNIV OF, SEATTLE Seattle, WA	DE-FG02-11ER65161 08/31/2015 Lettenmaier	SC-23.1	Collaborative Proposal: Improving Decadal Prediction of Arctic Climate Variability and Change Using a Regional Arctic System	254
YAHSGS, LLC Richland, WA	DE-AC02-09ER41625 07/31/2013 Yuracko	SC-26.2	Isotope Program Support Services Requirement for Strategic Planning, Measurement and Analysis, and Quality, Productivity, and Operational Improvement.	150
Total for WA :				23,099

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-96ER54375 11/30/2013 Fonck, Hegna, Corradini	SC-24.2	Non-Solenoidal Startup and Stability Limits at Near-Unity Aspect Ratio	1,404
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-99ER54513 10/31/2013 Sawan, Mogahed, Sviatoslavsky,	SC-24.2	Nuclear Technologies for Near Term Fusion Devices	215
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-98ER54462 12/31/2012 El-Guebaly, Henderson, Haynes, Kulcinski	SC-24.2	Fusion Advanced Design Studies	327
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-97ER54437 09/14/2012 Hershkowitz	SC-24.2	Laboratory Measurements of Bohm Presheaths: Experimental Check of Many of the Predicted Properties	185
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-92ER54139 04/30/2014 Callen	SC-24.2	Large Experiment Data Analysis Collaboration	173
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-93ER54222 01/31/2014 Anderson	SC-24.2	HSX: A Helicallly Symmetric Toroidal Experiment	1,613
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER46800 07/14/2016 Arnold	SC-22.23	Templated Bottom-Up Synthesis of Semiconducting and Nanostructured Graphene Materials	150
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-86ER53218 12/31/2012 Hegna	SC-24.2	Nonlinear and Nonideal MHD	276
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-89ER53291 12/14/2011 Terry	SC-24.2	Turbulence and Transport in Toroidal Plasmas	155
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-89ER53296 12/31/2012 Fonck, McKee	SC-24.2	Multifield Fluctuation Diagnostics Development for Nonlinear Instability Studies in Fusion-Grade Toroidal Plasmas	450
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER46832 03/14/2013 Himpsel	SC-22.21	Design of Molecular Solar Cells via Feedback from Soft X-Ray Spectroscopy	180
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-85ER53212 11/30/2013 Terry	SC-24.2	Theoretical Studies Related to Reversed Field Pinch Physics	191
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-85ER52122 12/31/2014 Vernon	SC-24.2	High Power Microwave Transmission and Mode Conversion Program	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER55049 08/14/2012 Boldyrev	SC-24.2	Study of Nonlinear Interaction and Turbulence of Alfven Waves in LAPD Experiments	59
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-04ER54751 05/31/2012 Santarius	SC-24.2	Investigation of Converging Plasma-Jet Compression and Magno-Inertial Fusion Burn Dynamics	71

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-07ER54939 07/31/2013 Hegna	SC-24.2	Communication Support for U.S. Burning Plasma Organization	87
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER55014 06/14/2012 McKee	SC-24.2	Investigations of Long-Wavelength Turbulence Properties in the Spherical Torus Configuration	238
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-05ER54813 02/28/2014 Sovinec	SC-24.2	Plasma Science and Innovation Center (PSI-Center) at Washington, Wisconsin, and Utah State Universities	105
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-05ER54814 12/14/2014 Sarff	SC-24.2	Reversed Field Pinch Research in MST	6,231
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-05ER54821 03/14/2014 Pfothenhauer	SC-24.2	Cryogenic Optimization of D2 Pellet Injectors: Preparation for ITER-Scale Fusion Reactors	75
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-05ER54831 07/14/2013 Forest	SC-24.2	Liquid Metal Studies of Dynamos	250
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-04ER54745 02/14/2013 Santarius	SC-24.2	Atomic Physics Effects on Spherically Convergent, Child-Langmuir Ion Flow Between Nearly Transparent Electrodes	68
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-06ER54868 06/30/2014 Schnack	SC-24.2	Transport and Dynamics in Toroidal Fusion Systems	160
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-06ER54850 04/30/2012 Sovinec	SC-24.2	Transients and Magnetic Relaxation in Innovative Confinement Concepts	100
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER55091 07/14/2016 Volpe	SC-24.2	Physics and Control of Locked Modes in the DIII-D Tokamak	150
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER55086 05/14/2014 Hegna	SC-24.2	Targeted Optimization of Quasisymmetric Stellarators	300
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER55089 07/31/2014 Fonck	SC-24.2	Test of Point-Source Helicity Injection for Non-Solenoidal Startup in NSTX	165
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-08ER54974 02/14/2016 Schnack	SC-24.2	SciDAC: Center for Extended Magnetohydrodynamic Modeling/Transport and Dynamics in Toroidal Fusion Systems	105
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-08ER54975 02/14/2016 Sovinec	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	142
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER54999 07/31/2014 McKee	SC-24.2	Behavior and Multifield Dynamics of Tokamak Turbulence and Instabilities	205

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-99ER54546 12/31/2013 Hegna	SC-24.2	Theoretical Studies of Near Symmetric Stellarator Plasmas	142
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-01ER54619 01/14/2014 Shaing	SC-24.2	Neoclassical Theory and its Applications	160
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-07ER64494 11/30/2012 Donohue	SC-23.2	Great Lakes Bioenergy Research Center	24,373
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-07ER64495 09/14/2012 Noguera	SC-23.2	Networks Impacting Solar-Powered Hydrogen Production	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-06ER64167 12/14/2012 Tobin, Turner	SC-23.1	Evaluating Radiative Closure in the Middle-to-Upper Troposphere	170
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER64840 08/14/2012 Bennartz	SC-23.1	Next Generation Aerosol-Cloud Microphysics for Advanced High-Resolution Climate Predictions	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-04ER46147 05/31/2013 Evans	SC-22.21	Dynamics and Extreme Conditions in Complex Oxide Heterostructures	196
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-06ER46327 07/31/2013 Eom	SC-22.22	Atomic Layer Controlled Growth of Pnictide Thin Film Heterostructures by Design	200
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-99ER45777 07/31/2012 Voyles	SC-22.21	Stability and Novel Properties of Magnetic Materials and Ferromagnet/Insulator Interfaces	147
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-03ER46028 04/30/2013 Lagally	SC-22.23	Group IV Nanomembranes, Nanoribbons, and Quantum Dots: Processing Characterization, and Novel Devices	470
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER41746 07/14/2012 Shiu	SC-25	String Phenomenology 2011: The Tenth Annual Meeting on Strong Phenomenology, August 22-26, 2011	5
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER46547 04/30/2012 Voyles	SC-22.21	Characterization of Dopant / Point Defect Complexes in Semiconductors by STEM	220
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER46590 05/31/2013 Gopalan	SC-22.23	Optical and Electro-Optic Modulation of Biomimetically-Functionalized Nanotubes	285
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER46493 06/14/2014 Szlufarska	SC-22.22	Radiation Effects in Nanocrystalline Ceramics: Multi-Scale Model and Experiment	238
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER46642 09/14/2012 Ediger	SC-22.22	SISGR - Characterization of High Density/High Stability Glasses	146

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER46664 09/14/2012 Jin	SC-22.23	SISGR: Fundamental Studies of Charge Transfer in Quantum Confined Nanostructure Heterojunctions and Applications to Solar Energy Conversion	650
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-10ER46692 03/31/2013 de Pablo	SC-22.23	Functional, Hierarchical Colloidal Liquid Crystal Gels and Liquid Crystal Elastomers Nanocomposites	250
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER16050 07/31/2012 Xu	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	79
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER16059 08/31/2012 Schmidt	SC-22.11	Modeling Carbon Dioxide Capture and Separation in Zeolitic Imidazolate Frameworks	94
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER16122 09/14/2012 Hamers	SC-22.13	SISGR - Ultra-Stable Molecule-Surface Architectures at Metal Oxides: Structure, Bonding, and Electron-Transfer Processes	200
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER16110 09/14/2012 Skinner	SC-22.11	SISGR - Water Dynamics in Heterogeneous and Confined Environments: Salt Solutions, Reverse Micelles, and Lipid Multi-Bilayers	200
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-10ER16204 09/14/2013 Berry	SC-22.12	Metal-Metal Bonded Reaction Intermediates in C-H Functionalization	155
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER16208 01/31/2012 Casey	SC-22.11	Support for Chemistry Symposia at the 2011 American Association for the Advancement of Science Meeting February 17-21, 2011	23
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-04ER25627 08/31/2012 Mitchell	SC-21.1	BACTER: Bringing Advanced Computational Techniques to Environmental Research	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-06ER25756 09/14/2012 Livny	SC-21.1	A Center for Enabling Distributed Petascale Science	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-88ER13968 04/14/2013 Vierstra	SC-22.13	Molecular Dissection of the Arabidopsis Holo-26S Proteasome	180
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-88ER13938 06/30/2012 Sussman	SC-22.13	Molecular Mechanism of Energy Transduction by Plant Membrane Proteins	129
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-86ER13500 10/14/2012 Crim	SC-22.11	Vibrations and Conical Intersections in Electronically Excited Molecules and Complexes	175
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-84ER13183 06/30/2014 Dumesic	SC-22.12	Fundamental Studies of the Reforming of Oxygenated Compounds Over Supported Metal Catalysts	175
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-93ER14389 03/31/2013 Valley	SC-22.12	Ion Microprobe Analysis of Oxygen and Silicon Isotope Ratios in Diagenetic Cements	256

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands)
				FY 2011
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-05ER15731 07/14/2014 Mavrikakis	SC-22.12	Atomic-Scale Design of Metal and Metal Alloy Catalysts: A Combined Theoretical and Experimental Approach	240
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-04ER15527 05/31/2013 Spalding	SC-22.13	Amino Acid-Sensing Ion Channels in Plants	170
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-02ER15342 08/31/2012 Bent	SC-22.13	Dissection and Manipulation of LRR Domains in Plant Disease Resistance Receptors	100
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-05ER15690 11/14/2014 Stahl, Brunold	SC-22.12	Copper-Catalyzed Aerobic Oxidation of Arenes and Alcohols	155
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER25861 08/14/2012 Linderoth	SC-21.1	Next-Generation Solvers for Mixed-Integer Nonlinear Programs: Structure, Search, and Implementation	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FC02-07ER25802 11/14/2012 Miller	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER25842 08/14/2012 Miller	SC-21.1	A Path to Operating System and Runtime Support for Extreme Scale Tools	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-10ER25972 01/31/2013 Miller	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	283
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-10ER25940 12/14/2012 Miller	SC-21.1	Foundational Tools for Petascale Computing	144
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER25945 09/14/2012 Miller	SC-21.1	Lightweight and Statistical Techniques for Petascale Debugging	83
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER25937 09/14/2012 Miller	SC-21.1	Correctness Tools for Petascale Computing	109
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER25934 09/14/2012 Miller	SC-21.1	Building a Community Infrastructure for Scalable On-Line Performance Analysis Tools Around Open Speedshop	79
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER41551 01/31/2012 Heeger	SC-26.1	OJI: Measurement of Neutrino Properties With Bolometric Detectors	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER41531 10/31/2013 Ramsey-Musolf	SC-26.1	Fundamental Interactions in Nuclei	325
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-95ER40896 10/31/2013 Smith	SC-25	High Energy Physics Research: Experimental, Theoretical, Phenomenology, Mathematical	3,833

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WI)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-06ER41436 03/31/2012 Livny	SC-25	SciDAC: Sustaining and Extending the Open Science Grid: Science Innovation on a PetaScale Nationwide Facility	822
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-07ER15899 08/31/2013 Gilbert	SC-22.12	Phase Transitions and Crystalline Orientations in Marine Invertebrate Skeletons: Key Insight into Biomineral	225
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER65174 08/31/2014 Ralph	SC-23.2	Development of Crucial Tools for Lignin Research	645
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER65325 09/14/2014 Eloranta	SC-23.1	Combined High Spectral Resolution Lidar and Millimeter Wavelength Radar Measurement of Ice Crystal Precipitation	179
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER65271 08/31/2014 Hammel	SC-23.2	Biodegradative Oxidant Production by Fungi in Lignocellulose: In Situ Mapping and Relationship to Gene Expression	333
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER64754 11/14/2012 Roden	SC-23.1	Physiological Models of Microbial Redox Metabolism in Uranium(VI)-Contaminated Subsurface Sediments	263
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-08ER64593 07/31/2012 Liu	SC-23.1	A Collaborative Proposal: Simulating and Understanding Abrupt Climate-Ecosystem Changes During Holocene With NCAR-CCSM3	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-09ER64858 08/31/2012 Xu	SC-23.1	The Role of Nanopores on U(VI) Sorption and Redox Behavior in U(VI)-Contaminated Subsurface Sediments	0
SCONSIN, UNIVERSITY OF MADISON Madison, WI	DE-FG02-11ER65342 09/14/2014 Liu	SC-23.1	Collaborative Project: Development of an Isotope-Enabled CESM for Testing Abrupt Climate Changes	147
ONSIN, UNIVERSITY OF MILWAUKEE Milwaukee, WI	DE-FG02-11ER65355 09/14/2014 Larson	SC-23.1	Collaborative Project: Physics and Dynamics Coupling Across Scales in the Next Generation CESM: Meeting the	99
ONSIN, UNIVERSITY OF MILWAUKEE Milwaukee, WI	DE-FG02-09ER16085 08/31/2012 Saldin	SC-22.13	Fluctuation X-Ray Diffraction of Membrane Proteins	120
ONSIN, UNIVERSITY OF MILWAUKEE Milwaukee, WI	DE-FG02-09ER16114 09/14/2012 Ourmazd	SC-22.11	SISGR - Structure From Fleeting Illumination of Faint Spinning Objects in Flight	149
ONSIN, UNIVERSITY OF MILWAUKEE Milwaukee, WI	DE-FG02-05ER46228 08/14/2012 Li	SC-22.21	Tailoring Magnetism in Epitaxial Graphene on SiC	185
ONSIN, UNIVERSITY OF MILWAUKEE Milwaukee, WI	DE-FG02-07ER64382 03/31/2012 Saffarini	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0
XANTHO TECHNOLOGIES, LLC Madison, WI	DE-FG02-11ER55087 04/30/2013 Demers	SC-24.2	HIBP Applications to Advance Understanding of Plasma Transport Physics	304

Total for WI :

52,275

OFFICE OF SCIENCE
 Information Management for Office of Science (IMSC)
 Listing of Active Awards for State (WV)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-10ER16164 05/31/2013 Lewis	SC-22.11	Computational Design of Metal Organic Frameworks for Photocatalytic Reduction of Carbon-Dioxide	46
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-06ER46299 07/31/2013 Bajura	SC-22.21	Direct Utilization of Coal Syngas in High Temperature Fuel Cells: Debradation Mechanisms and Lifetime Predictions	350
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-10ER46714 07/14/2013 Scime	SC-22.21	Two Photon Absorption Laser Induced Fluorescence for Neutral Hydrogen Profile Measurements	15
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-09ER46615 08/14/2012 Nix	SC-22.21	Experimental Investigation of Turbine Vane Heat Transfer for Alternative Fuels	15
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46505 06/30/2012 DiFazio	SC-22.21	Land Reclamation for Bioenergy: Genomics of Adaptation of Populus to Marginal Sites	0
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46507 06/30/2012 Lederman	SC-22.21	Hydrogen Absorption in Pd-Based Nanostructures	0
Total for WV :				426

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
Listing of Active Awards for State (WY)

Name of Awardee	Award Number / Project End / Pr. Investigator	Divisio	Title	Funding (in Thousands) FY 2011
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER46708 06/30/2013 Lewis	SC-22.21	X-Ray Diffraction and Neutron Scattering Structural Analysis of Natural and Synthetic Spider Silk Fibers	15
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER46728 08/14/2013 Parish	SC-22.21	Wyoming DOE EPSCoR: Quantum Dot Sensitized Solar Cells Based on Ternary Metal Oxide Nanowires	25
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15979 11/30/2011 Roddick	SC-22.13	Highly Oxidizing Excited States	75
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15972 08/31/2014 Parkinson	SC-22.13	Combinatorial Discovery and Optimization of the Composition, Doping and Morphology of New Oxide Semiconductors for Efficient Photoelectrochemical Water Splittin	60
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-11ER16255 08/31/2014 Parkinson	SC-22.13	Studies of Photoinduced Electron Transfer from Dyes, Polymers and Quantum Confined Systems into Semiconducting Single	249
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-10ER26029 08/31/2013 Ginting	SC-21.1	Enabling Predictive Simulation and UQ of Complex Multiphysics PDE Systems by the Development of Goal-Oriented Variational Sensitivity Analysis and A-Posteriori	24
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-11ER65327 09/14/2014 Wang	SC-23.1	Improving Mixed-phase Cloud Parameterization in Climate Model with the ACRF Measurements	178
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-11ER65201 09/14/2014 Pendall	SC-23.1	Direct, Indirect and Interactive Effects of Warming and Elevated CO2 on Grassland Carbon Metabolism	345
Total for WY :				971
Grand Total:				879,222