

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 2010
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)	1,454
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER41025 05/31/2012 Norum	SC-26.1	Nuclear Studies with Intermediate Energy Probes	424
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-FG02-03ER41240 05/31/2014 Liyana	SC-26.1	Deep Inelastic Scattering in the Nucleon Valence Quark Region for Precision Studies of Nucleon Spin Structure and for Parity	167
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-FG02-09ER16080 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-FG02-09ER16014 12/31/2012 Gunnoe	SC-22.12	Development of Transition Metal Catalysts for the Functionalization of Carbon-Hydrogen Bonds: Fundamental Studies of Catalytic Hydroarylation of Olefins	145
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	119
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-97ER14786 10/31/2012 Gallagher	SC-22.11	Studies of Autoionizing States Relevant to Dielectronic Recombination	276
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-95ER14549 05/31/2012 Davis	SC-22.12	Structure and Function of Supported Base Catalysts	160
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	296
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-07ER64442 07/31/2011 Keene	SC-23.1	The Impact of Primary Marine Aerosol on Atmospheric Chemistry, Radiation, and Climate: A CCSM Model Development	0
VIRGINIA, UNIVERSITY OF Charlottesville, VA	DE-FG02-10ER41668 05/31/2015 Zheng	SC-26.1	RECOVERY ACT - Measurement of Parity Violation in Deep Inelastic Scattering and Studies of the Nucleon Spin Structure at JLab 6 and 11 GeV	647
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	170

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

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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	203
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-FG02-07ER46384 05/31/2013 Lee	SC-22.21	Neutron Scattering Study of Unconventional Superconductors	193
WILLIAM AND MARY, COLLEGE OF Williamsburg, VA	DE-FG02-96ER54344 12/31/2011 Vahala	SC-24.2	Theoretical Plasma Physics	100
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-FG02-09ER41630 08/31/2012 Detmold	SC-26.1	Multi-Meson Systems in Lattice QCD	83
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 Dynamics Effects in Correlated Materials	0
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-FG02-96ER41003 02/14/2014 Griffioen, Averett	SC-26.1	Nucleon Structure Studies	436
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	18
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	280
Total for VA :				35,715

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 2010
& ST AGRICULTURAL COL., U. OF Burlington, VT	DE-FG02-09ER64921 09/28/2012 Bernstein	SC-23.2	University of Vermont Center for Biomedical Imaging	1,166
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	124
Total for VT :				1,290

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 2010
ED MEDICAL ISOTOPE CORPORATION Kennewick, WA	DE-FG02-10ER65004 09/14/2012 Su	SC-23.2	Research to Develop and Test an Advanced Resorbable Brachytherapy Seed Research for Controlled Delivery of Yttrium-90	1,215
FORESIGHT SCIENCE & TECH, INC. Port Townsend, WA	DE-AD02-08ER12272 12/31/2011 Speser	SC-29	SBIR/STTR Commercialization Assistance Program	610
INSTITUTE FOR SYSTEMS BIOLOGY Seattle, WA	DE-FG02-10ER65031 08/14/2013 Baliga	SC-23.2	Enabling a Systems Biology Knowledgebase with Gaggles and Firegoose	494
MSNW, LLC Redmond, WA	DE-FG02-09ER55029 08/14/2012 Slough	SC-24.2	Foil Liner Compression of the FRC to Megagauss Fields	441
NATIONAL OCEAN & ATMOS ADMIN Seattle, WA	DE-AI02-06ER25771 09/14/2011 Hankin	SC-21.1	Scaling the Earth System Grid to Petascale Data	180
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	259
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	90
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
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	164
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-FG02-10ER16154 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-FG02-08ER15927 08/31/2012 Neff	SC-22.13	Biochemical and Molecular Genetic Analysis of the AT-hook Nuclear Localizing (AHL) Gene Family in Arabidopsis	130
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-06ER15820 12/14/2012 Hurst	SC-22.13	Membrane-Organized Chemical Photoredox Systems	140

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

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WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER25983 05/14/2013 Vixie	SC-21.1	Geometric Analysis for Data Reduction and Structure Discovery	423
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-99ER20323 03/14/2012 Browse	SC-22.13	Jasmonate Signaling and Stamen Development in Arabidopsis	160
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	170
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-FG02-96ER20216 08/31/2014 Okita	SC-22.13	Enhancement of Photoassimilate Utilization by Manipulation of Starch Regulatory Enzymes ADPglucose Pyrophosphorylase and Starch Phosphorylase	169
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-09ER64901 08/31/2012 Gang	SC-23.2	Engineering Specialized Metabolism in a Single Cell Type	463
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER64950 04/14/2015 VanReken	SC-23.1	RECOVERY ACT - Linking Plant Stress, Biogenic SOA, & CCN Production - A New Feedback in the Climate System?	581
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64626 07/31/2011 Jobson	SC-23.1	Field Measurements of Organic Aerosol Precursors and Air Mass Photochemical Age	96
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	160
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-08ER64696 09/14/2011 Wall	SC-23.1	Influence of Organic Ligands on the Stability and Mobility of Reduced Tc(IV) and U(IV)	101
WASHINGTON STATE UNIVERSITY Pullman, WA	DE-FG02-10ER65075 08/31/2012 Harsh	SC-23.1	Technetium(VII) Coprecipitation with Framework Aluminosilicates	100
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64688 09/14/2011 Harwood	SC-23.2	Integrating Large-Scale Functional Genomics Data to Dissect Metabolic Networks for Hydrogen Production	400
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64685 09/14/2011 Leigh	SC-23.2	Hydrogen Regulation and Global Responses to Electron, Carbon and Nitrogen Sources of Methanococcus Maripaludis	600
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-08ER64589 07/14/2012 Lettenmaier	SC-23.1	Susceptibility of Colorado River Basin to Megadroughts in a Warming Climate	134
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64778 06/30/2012 Ackerman	SC-23.1	Evaluating and Improving Cloud Processes in the Multi-Scale Modeling Framework	169

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

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				FY 2010
WASHINGTON, UNIVERSITY OF 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	138
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64767 06/14/2012 Marchand	SC-23.1	Atmospheric Classification for the Analysis of ARM Observations and Global Climate Models	161
WASHINGTON, UNIVERSITY OF 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	118
WASHINGTON, UNIVERSITY OF 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, Metabolomics, and Nano-SIMS Analysis	456
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-09ER64839 08/14/2011 Lettenmaier	SC-23.1	Collaborative Proposal: Hydrologic Extremes in a Changing Climate: How Much Information Can Regional Climate Models	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER16197 09/14/2013 Baker	SC-22.13	Protein Scaffolding for Small Molecule Catalysts	300
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-00ER41132 02/28/2014 Kaplan	SC-26.1	Institute for Nuclear Theory	5,255
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41020 11/30/2011 Robertson	SC-26.1	Experimental Nuclear Physics	4,166
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER41014 10/31/2011 Miller	SC-26.1	Nuclear Theory	785
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-07ER41457 11/30/2011 Bulgac	SC-26.1	Low-Energy Nuclear Physics National HPC Initiative: Building a Universal Nuclear Energy Density Functional	236
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER40956 03/31/2014 Nelson, Wilkes, Yaffe	SC-25	Theoretical and Experimental Particle Physics	1,698
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-05ER15707 08/31/2013 Harwood	SC-22.13	Biohydrogen production by a photosynthetic bacterium	358
WASHINGTON, UNIVERSITY OF 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, UNIVERSITY OF 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 (*)	163
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER14630 03/14/2014 Campbell	SC-22.12	Supported Metal Nanoparticles: Correlating Catalytic Kinetics, Energetics and Surface Structure	190

OFFICE OF SCIENCE
Information Management for Office of Science (IMSC)
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WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64460 08/14/2011 Lettenmaier	SC-23.1	Collaborative Research: Towards Decadal-Scale Prediction of Arctic Climate Using a High-Resolution Regional Arctic Climate System Model	173
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64482 08/31/2011 Harwood	SC-23.2	Redirection of Metabolism of Hydrogen Production	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64485 08/31/2011 Lidstrom	SC-23.2	Coupling Function to Genomics in Microbial Communities Via Single-Cell Ananlysis	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER64433 07/31/2011 Bitz	SC-23.1	Deep Ocean Heat Uptake and the Influence of Sea Ice in the Southern Ocean	0
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FC02-10ER55073 03/14/2016 Glasser	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	50
WASHINGTON, UNIVERSITY OF 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	216
WASHINGTON, UNIVERSITY OF 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, UNIVERSITY OF Seattle, WA	DE-FG02-10ER46702 05/31/2013 Pozzo	SC-22.21	Self-Assembly of Conjugated Polymer Networks: A Neutron Scattering Study	185
WASHINGTON, UNIVERSITY OF 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	934
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54769 06/14/2012 Slough	SC-24.2	Small Scale Fusion: The Pulsed High Density FRC Experiment	315
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-04ER54756 12/31/2011 Shumlak	SC-24.2	The ZaP Flow Z-Pinch Project	317
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-98ER54480 12/14/2011 Steinhauer	SC-24.2	Theory of Field-Reversed Configurations	95
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54361 05/31/2014 Jarboe	SC-24.2	Helicity Injected Torus (HIT) Current Drive Program	1,059
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-96ER54376 01/31/2012 Slough, Vlases, Milroy	SC-24.2	High Flux FRC Facility for the Stability, Confinement and ITER Divertor Studies	1,536
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-99ER54519 03/14/2014 Jarboe	SC-24.2	Solenoid Free Current Initiation and Sustainment by Coaxial Helicity Injection	310

OFFICE OF SCIENCE
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WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46452 08/14/2013 Andreev	SC-22.22	Electron Interaction Effects in Nanosystems	280
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-07ER46467 05/31/2013 Jenekhe	SC-22.23	Molecular and Nanoscale Engineering of High Efficiency Exciton Solar Cells	380
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-97ER45623 02/14/2012 Rehr	SC-22.22	Quantitative Photon and Electron Spectroscopy Theory	303
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-02ER45990 07/14/2012 Rehr	SC-22.22	Computational Materials and Chemical Sciences Network Administration	55
WASHINGTON, UNIVERSITY OF Seattle, WA	DE-FG02-10ER41645 09/30/2011 Wilbur	SC-26.2	Production of Astatine-211 for U.S. Investigators	705
WHITWORTH UNIVESITY Spokane, WA	DE-FG02-10CH20028 12/31/2011 Noland	SC-23	Whitworth University Science Equipment Upgrades	291
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,	150
Total for WA :				30,486

OFFICE OF SCIENCE
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Listing of Active Awards for State (WI)

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AGRICULTURE, U.S. DEPT. OF Madison, WI	DE-AI02-07ER64480 08/31/2011 Hammel	SC-23.2	A New Solution-State NMR Approach to Elucidate Fungal and Enzyme/Mediator Delignification Pathways	0
AGRICULTURE, U.S. DEPT. OF Madison, WI	DE-AI02-07ER64491 08/31/2011 Hunt	SC-23.2	Development of Modular Platforms for In Vivo Mapping of Local Metabolite Concentrations Important to Cell Wall	0
AGRICULTURE, U.S. DEPT. OF Rhinelander, WI	DE-AI02-09ER64717 01/14/2012 Kubiske	SC-23.1	Final Harvest of Above-Ground Biomass and Allometric Analysis of the Aspen FACE Experiment	88
TAR MEDICAL RADIOISOTOPES, LLC Madison, WI	DE-FG02-10ER41642 09/30/2011 Harvey	SC-26.2	Production of Actinium-225 via High Energy Proton Induced Spallation of Thorium-232	263
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16050 07/31/2012 Xu	SC-22.12	Interface Induced Carbonate Mineralization: A Fundamental Geochemical Process Relevant to Carbon Sequestration	76
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16059 08/31/2012 Schmidt	SC-22.11	Modeling Carbon Dioxide Capture and Separation in Zeolitic Imidazolate Frameworks	125
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER16122 09/14/2012 Hammers	SC-22.13	SISGR - Ultra-Stable Molecule-Surface Architectures at Metal Oxides: Structure, Bonding, and Electron-Transfer Processes	200
WISCONSIN, UNIVERSITY OF 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
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER15690 11/14/2011 Stahl, Brunold	SC-22.12	Mechanisms of Organometallic Aerobic Oxidation Reactions Catalyzed by Copper	155
WISCONSIN, UNIVERSITY OF 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	290
WISCONSIN, UNIVERSITY OF 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 Formation Mechanisms and Function	225
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER14389 03/31/2013 Valley	SC-22.12	Ion Microprobe Analysis of Oxygen and Silicon Isotope Ratios in Diagenetic Cements	248
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13938 06/30/2012 Sussman	SC-22.13	Molecular Mechanism of Energy Transduction by Plant Membrane Proteins	127
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-88ER13968 04/14/2013 Vierstra	SC-22.13	Molecular Dissection of the Arabidopsis Holo-26S Proteasome	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-84ER13183 06/30/2014 Dumesic	SC-22.12	Fundamental Studies of the Reforming of Oxygenated Compounds Over Supported Metal Catalysts	168

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

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER13500 10/14/2012 Crim	SC-22.11	Vibrations and Conical Intersections in Electronically Excited Molecules and Complexes	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER15527 05/31/2013 Spalding	SC-22.13	Amino Acid-Sensing Ion Channels in Plants	170
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-02ER15342 08/31/2012 Bent	SC-22.13	Dissection and Manipulation of LRR Domains in Plant Disease Resistance Receptors	170
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25869 11/30/2010 Linderoth	SC-21.1	Optimization Under Nonconvexity and Uncertainty: Algorithms and Software	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER25861 08/14/2012 Linderoth	SC-21.1	Next-Generation Solvers for Mixed-Integer Nonlinear Programs: Structure, Search, and Implementation	181
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25945 09/14/2012 Miller	SC-21.1	Lightweight and Statistical Techniques for Petascale Debugging	79
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER25940 12/14/2012 Miller	SC-21.1	Foundational Tools for Petascale Computing	138
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER25937 09/14/2012 Miller	SC-21.1	Correctness Tools for Petascale Computing	104
WISCONSIN, UNIVERSITY OF 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	76
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER25972 01/31/2013 Miller	SC-21.1	Tools for the Development of High-Performance Energy Applications and Systems	270
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER16204 09/14/2013 Berry	SC-22.12	Metal-Metal Bonded Reaction Intermediates in C-H Functionalization	155
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER25627 08/31/2012 Mitchell	SC-21.1	BACTER: Bringing Advanced Computational Techniques to Environmental Research	1,400
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER25756 09/14/2012 Livny	SC-21.1	A Center for Enabling Distributed Petascale Science	280
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER25802 11/14/2011 Miller	SC-21.1	SciCET: Center for Scalable-Performance Application Development Software	135
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER25842 08/14/2012 Miller	SC-21.1	A Path to Operating System and Runtime Support for Extreme Scale Tools	347

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

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WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER41436 03/31/2012 Livny	SC-25	SciDAC: Sustaining and Extending the Open Science Grid: Science Innovation on a PetaScale Nationwide Facility	1,739
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-95ER40896 10/31/2013 Smith	SC-25	High Energy Physics Research: Experimental, Theoretical, Phenomenology, Mathematical	4,641
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER46327 07/31/2013 Eom	SC-22.22	Atomic Layer Controlled Growth of Pnictide Thin Film Heterostructures by Design	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46590 05/31/2013 Gopalan	SC-22.23	Optical and Electro-Optic Modulation of Biomimetically-Functionalized Nanotubes	285
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER46547 04/30/2012 Voyles	SC-22.21	Characterization of Dopant / Point Defect Complexes in Semiconductors by STEM	220
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER46493 06/14/2014 Szlufarska	SC-22.22	Radiation Effects in Nanocrystalline Ceramics: Multi-Scale Model and Experiment	214
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER41551 01/31/2012 Heeger	SC-26.1	OJI: Measurement of Neutrino Properties With Bolometric Detectors	160
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER41531 10/31/2013 Ramsey-Musolf	SC-26.1	Fundamental Interactions in Nuclei	325
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER46147 05/31/2013 Evans	SC-22.21	Dynamics and Extreme Conditions in Complex Oxide Heterostructures	196
WISCONSIN, UNIVERSITY OF 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
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER45777 07/31/2012 Chang	SC-22.21	Stability and Novel Properties of Magnetic Materials and Ferromagnet/Insulator Interfaces	168
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-93ER54222 01/31/2014 Anderson	SC-24.2	HSX: A Helically Symmetric Toroidal Experiment	2,049
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-92ER54139 04/30/2014 Callen	SC-24.2	Large Experiment Data Analysis Collaboration	168
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-86ER53218 12/31/2012 Hegna	SC-24.2	Nonlinear and Nonideal MHD	276
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER52122 12/31/2011 Vernon	SC-24.2	High Power Microwave Transmission Systems for Electron-Cyclotron-Resonance Plasma Heating	100

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 2010
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-85ER53212 11/30/2013 Terry	SC-24.2	Theoretical Studies Related to Reversed Field Pinch Physics	151
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-89ER53291 12/14/2011 Terry	SC-24.2	Turbulence and Transport in Toroidal Plasmas	155
WISCONSIN, UNIVERSITY OF 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	550
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46730 08/14/2013 Bisognano	SC-22.3	Construction and Test of a Novel Superconducting RF Electron Gun	3,000
WISCONSIN, UNIVERSITY OF 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
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER46685 04/14/2015 Fredrickson	SC-22.23	RECOVERY ACT - Chemical Frustration: A Design Principle for the Discovery of New Complex Alloy and Intermetallic Phases	600
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER46642 09/14/2012 Ediger	SC-22.22	SISGR - Characterization of High Density/High Stability Glasses	146
WISCONSIN, UNIVERSITY OF 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
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54513 10/31/2013 Sawan, Mogahed, Sviatoslavsky,	SC-24.2	Nuclear Technologies for Near Term Fusion Devices	215
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-99ER54546 12/31/2013 Hegna	SC-24.2	Theoretical Studies of Near Symmetric Stellarator Plasmas	142
WISCONSIN, UNIVERSITY OF 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	1,398
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-98ER54462 12/31/2012 El-Guebaly, Henderson, Haynes, Kulcinski	SC-24.2	Fusion Advanced Design Studies	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-97ER54437 09/14/2012 Hershkovitz	SC-24.2	Laboratory Measurements of Bohm Presheaths: Experimental Check of Many of the Predicted Properties	179
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-04ER54751 05/31/2012 Santarius	SC-24.2	Investigation of Converging Plasma-Jet Compression and Magno-Inertial Fusion Burn Dynamics	84
WISCONSIN, UNIVERSITY OF 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

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 2010
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-00ER54603 12/31/2011 Forest	SC-24.2	Stabilization of Resistive Wall Modes Using Moving Metal Walls	488
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER54619 01/14/2014 Shaing	SC-24.2	Neoclassical Theory and its Applications	160
WISCONSIN, UNIVERSITY OF 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	97
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-05ER54814 12/14/2014 Sarff	SC-24.2	Reversed Field Pinch Research in MST	6,487
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54831 07/14/2013 Forest	SC-24.2	Liquid Metal Studies of Dynamos	250
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-05ER54821 03/14/2014 Pfotenhauer	SC-24.2	Cryogenic Optimization of D2 Pellet Injectors: Preparation for ITER-Scale Fusion Reactors	75
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54850 04/30/2012 Sovinec	SC-24.2	Transients and Magnetic Relaxation in Innovative Confinement Concepts	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54932 07/14/2011 Boldyrev	SC-24.2	Toward the Theory of Turbulence in Magnetized Plasmas	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-06ER54899 08/14/2011 Schnack	SC-24.2	Center for Wave Interactions With Magnetohydrodynamics	100
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER54868 06/30/2014 Schnack	SC-24.2	Transport and Dynamics in Toroidal Fusion Systems	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-08ER54999 07/31/2014 McKee	SC-24.2	Behavior and Multifield Dynamics of Tokamak Turbulence and Instabilities	180
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER55014 06/14/2012 McKee	SC-24.2	Investigations of Long-Wavelength Turbulence Properties in the Spherical Torus Configuration	226
WISCONSIN, UNIVERSITY OF 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	125
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-08ER54975 02/14/2016 Sovinec	SC-24.2	Center for Extended Magnetohydrodynamic Modeling	132
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER54939 07/31/2013 Hegna	SC-24.2	Communication Support for U.S. Burning Plasma Organization	85

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 2010
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER55072 04/14/2015 Boldyrev	SC-24.2	RECOVERY ACT - Scaling Laws in Magnetized Plasma Turbulence	750
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER55049 08/14/2012 Boldyrev	SC-24.2	Study of Nonlinear Interaction and Turbulence of Alfvén Waves in LAPD Experiments	59
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-01ER63249 09/14/2011 Liu, Kutzbach	SC-23.1	Towards the Prediction of Decadal to Centennial Climate Processes in the Coupled Earth System Model	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-06ER64167 12/14/2012 Tobin, Turner	SC-23.1	Evaluating Radiative Closure in the Middle-to-Upper Troposphere	200
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FC02-07ER64494 11/30/2012 Donohue	SC-23.2	Great Lakes Bioenergy Research Center	24,027
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-07ER64495 09/14/2012 Noguera	SC-23.2	Networks Impacting Solar-Powered Hydrogen Production	0
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65111 08/31/2011 Liu	SC-23.1	Synthesis of Transient Climate Evolution of the Last 21-kyr (SynTraCE-21) - Workshop Support, October 9-13, 2010	15
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65108 09/14/2013 Vimont	SC-23.1	Pacific Decadal Variability and Central Pacific Warming El Niño in a Changing Climate	46
WISCONSIN, UNIVERSITY OF 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	99
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-10ER65057 08/31/2013 DeJesus	SC-23.2	Multimodality Plant Imaging Using Small Peptide Derivatives	873
WISCONSIN, UNIVERSITY OF Madison, WI	DE-FG02-09ER64754 05/14/2012 Roden	SC-23.1	Physiological Models of Microbial Redox Metabolism in Uranium(VI)-Contaminated Subsurface Sediments	259
WISCONSIN, UNIVERSITY OF 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	125
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-10ER65114 09/14/2013 Tsonis	SC-23.1	Collaborative Research: An Interactive Multi-Model for Consensus on Climate Change	85
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64428 07/14/2011 Kravtsov	SC-23.1	Collaborative Research: Regional Climate-Change Projections Through Next-Generation Empirical and Dynamical Models	0
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-07ER64382 03/31/2012 Saffarini	SC-23.2	Integrated Genome-Based Studies of Shewanella Ecophysiology	0

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 2010
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-84ER45076 10/31/2011 Saldin	SC-22.21	Electron Scattering from Surfaces	108
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-06ER46277 12/31/2011 Lyman	SC-22.21	Probing Surfaces and Nanostructures with Surface X-ray Diffraction: Application of a Direct Method for the Visualization of	189
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-05ER46228 08/14/2012 Li	SC-22.21	Tailoring Magnetism in Epitaxial Graphene on SiC	185
WISCONSIN, UNIVERSITY OF Milwaukee, WI	DE-FG02-09ER16114 09/14/2012 Ourmazd	SC-22.11	SISGR - Structure From Fleeting Illumination of Faint Spinning Objects in Flight	149
Total for WI :				60,928

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 2010
SHALL UNIVERSITY RESEARCH CORP Huntington, WV	DE-FG02-10ER65022 09/14/2014 Maher	SC-23.2	Center for Diagnostic Nanosystems	4,765
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	112
VIRGINIA UNIVERSITY RES. CORP. Morgantown, WV	DE-FG02-08ER46507 06/30/2012 Lederman	SC-22.21	Hydrogen Absorption in Pd-Based Nanostructures	10
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	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-FG02-06ER46299 07/31/2013 Bajura	SC-22.21	Direct Utilization of Coal Syngas in High Temperature Fuel Cells: Debradation Mechanisms and Lifetime Predictions	50
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	569
Total for WV :				5,536

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 2010
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-08ER15979 11/30/2011 Roddick	SC-22.13	Highly Oxidizing Excited States	115
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	190
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	24
WYOMING, UNIVERSITY OF Laramie, WY	DE-FG02-09ER46614 08/14/2012 Naughton	SC-22.21	Investigation of Dynamic Aerodynamics and Control of Wind Turbine Sections Under Relevant Inflow/Blade Attitude Conditions	45
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	570
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	1,933
Total for WY :				2,877
Grand Total:				038,333