

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
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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)

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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)

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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)

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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
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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)

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				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)

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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)

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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