CHAPTER 5. PUBLICATIONS, PRESENTATIONS, & RELATED ACTIVITIES

Publications

This section includes articles that appeared in print in refereed journals and conference proceedings in 2000.

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Schneider-Muntau, H., *The Generation of Continuous High Magnetic Fields: Recent Accomplishments and Future Possibilities,* PAMIR Conf., Giens, France, September (2000)

Schneider-Muntau, H., *The Generation of Ultrastrong Pulsed Magnetic Fields at the NHMFL,* Research Center for Materials Science and Extreme Conditions, Osaka University, Osaka, Japan, April (2000)

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Schneider-Muntau, H., *The National High Magnetic Field Laboratory: An International User Facility In Support of Science and Magnet Technology,* Research Institute for Materials, University of Nijmegen, Nijmegen, The Netherlands, August (2000)

Schneider-Muntau, H., *The NHMFL: A Unique Resource for Industrial Cooperation,* Oxford Instruments Superconductivity, Oxford, England, February (2000)

Schneider-Muntau, H., *The NHMFL: A National Resource for Research, Technology and Applications of High Magnetic Fields,* Seaborg Symposium on Colliding Beam Fusion, University of California, Irvine, CA, March (2000)

Schneider-Muntau, H., *The Potential of High Magnetic Fields for Future Industrial Applications,* National Research Institute for Metals, Tsukuba-shi, Japan, April (2000)

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Schrieffer, J.R., *The Science of HTS,* 6th Int. Conf. on Materials and Mechanisms of Superconductivity and High Temperature Superconductors, Houston TX, February 24 (2000)

Shibauchi, T., *Closing the Pseudogap by Zeeman Splitting in $Bi_2Sr_2CaCu_2O_{8+y}$ at High Magnetic Fields,* Superconductivity Technology Center Seminar, Los Alamos National Laboratory, December 4 (2000)

Shibauchi, T., *On the spin origin of the pseudogap in High-Tc Superconductors,* Novel Physical Systems & Mat'ls Group Seminar, IBM T.J. Watson Research Center, October 27 (2000)

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Symington, J.A.; Singleton, J.; Harrison, N.; Clayton, N.; Schlueter, J.; Kurmoo, M. and Day, P., *Interplane Transport effects in layered organic conductors,* Int. Conf. on the Science and Technology of Synthetic Metals, Bad Gastein, Austria, July 15-21 (2000)

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Ye, P.D.; Engel, L.W.; Tsui, D.C.; Simmons, J.A. and Reno, J.L., *Microwave conductivity of a 2D electron system in an array of antidots,* American Physical Society March Meeting, Minneapolis, MN; Bull Am. Phys Soc., **45** (1), 76 (2000)

Yowtak, J.; Morgan, A.N.; Ferl, R.J.; Brooks, J.S.; Paul, A.-L. and Meisel, M.W., *Magnetic Levitation as a Low Gravity Environment,* 16th Annual Meeting of the American Society for Gravitational Space Biology (ASGSB), Montreal, Canada, October 25-28; Grav. Space Bio. Bull., **14**, 13 (2000)

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Zhou, Z.; Macosko, J.C.; Hughes, D.W.; Sayer, B.G.; Hawes, J.; Shin, Y.K.; Epand, R.M.; Nishimura, J. and Cross, T.A., *^{15}N NMR Study of the Ionization Properties of the Influenza Virus Fusion Peptide in Zwitterionic Phospholipid Dispersions,* Annual Biophysical Society Meeting, New Orleans, LA, February (2000)

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Zvyagin, S.; Saylor, C.; Martins, G.; Brunel, L.-C.; Kamenev, K.; Balakrishnan, G. and McK.Paul, D., *High-frequency ESR investigation of $Pr_{0.5}Sr_{0.5}MnO_3$,* Int. Conf. on Magnetism, Recife, Brazil, August 6-11 (2000)

Zvyagin, S.; Schwenk, H.; Lüthi, B.; Kamenev, K.V.; Balakrishnan, G.; McK.Paul, D.; Kamenev, V.I. and Pashkevich, Yu.G., *Ultrasonic and magnetic studies of $Nd_{0.5}Sr_{0.5}MnO_3$,* Int. Conf. on Magnetism, Recife, Brazil, August 6-11 (2000)

Related Activities

Books and Other One-Time Publications

Bird, M.D.; Bole, S.; Eyssa, Y.; Gao, F.; Schneider-Muntau, H. and Prestemon, S., NHMFL Resistive Magnet Drawing Package, Design RES 10, 33 T II, *Copyright,* 2000.

Heiman, D. and Perry, C.H., "Characterization of Reduced Dimensional Semiconductor Microstructures" in series *Optoelectronic Properties of Semiconductor Quantum Wells and Superlattices*, Heiman2000.

Musfeldt, J.L., "Spin Peierls Materials" in *Magnetism: From Molecules to Materials, J.S. Miller and M.C. Drillon, eds.,* 2000.

Singleton, J, "Band theory and electronic properties of solids", *Oxford University Press, Oxford,* 2000.

Internet Disseminations

Blundell, S.; Hayes, W. and Singleton, J., *Correlated Electron Systems Research Group Home Page*, http://www-cmphys.physics.ox.ac.uk/correlated/

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Harrison, N.; Biskup, N.; Brooks, J.S.; Balicas, L.; and Tokumoto, M., *On the absence of spin-splitting in* α*-(BEDT-TTF)*$_2$*KHg(SCN)*$_4$*, http://arXiv.org/abs/cond-mat/0011478,* (November 2000)

Mayr, M.; Moreo, A.; Verges, J.; Arispe, J.; Feiguin, A. and Dagotto, E., *Resistivity of Mixed-Phase Manganites*, http://arXiv.org/abs/cond-mat/0007480

Melik-Alavardian, V.; Ortiz, G. and Bonesteel, N.E., *Quantum Projector Method on Curved Manifolds*, http://arXiv.org/abs/cond-mat/0001121

Mola, M.; Hill, S.; Qualls, J.S. and Brooks, J.S., *Magneto-thermal instabilities in an organic superconductor*, http://arXiv.org/abs/cond-mat/0011227, (December 13, 2000)

Mola, M.; Hill, S.; Qualls, J.S.; Brooks, J.S., *Quantum melting of the quasi-two-dimensional vortex lattice in* κ*-(ET)*$_2$*Cu(NCS)*$_2$*, http://arXiv.org/abs/cond-mat/0008262,* (August 17, 2000)

Products

Bird, M.D.; Brooks, J. and Eyssa, Y., *Desktop Superconducting Levitation Magnet,* Patent Pending

Bird, M.D.; Dixon, I.; Eyssa, Y.; Gavrilin, A. and Gundlach, S., *Repeating Pulsed Magnet,* Patent Pending

Brey, W.W. and Allen, S.D., *Laser-Assisted Fabrication of NMR Resonators,* Patent application submitted

Awards, Honors, Service

Elbio Dagotto

- Selected Member of the Board of Editors of *Solid State Communications*

Zachary Fisk

- Paul A.M. Dirac Professor of Physics Award, Florida State University

Alan G. Marshall

- Kasha Professor, Florida State University
- Thomson Medal, International Mass Spectrometry Society

Timothy Moerland

- Florida State University Program Enhancement Grant

Adriana Moreo

- Named organizer of focused session at APS March Meeting 2001

Roman Movshovich and Marcelo Jaime

- Los Alamos Team Award

Vincent Salters, et al.

- Florida State University Program Enhancement Grant

Justin Schwartz

- Board of Directors Executive Committee, Applied Superconductivity Conference

Guillaume van der Rest

- Societe Francaise de Spectrometrie de Masse Award

Steven W. Van Sciver

- Selected as Fellow in the American Society of Mechanical Engineers

John West

- Florida A&M University, Department of Chemistry, Faculty Development Grant

Theses

Buhler, Charles, *Numerical Simulations of High Tc Superconductors,* Florida State University, Physics

Callihan, Dana E., *Structural Characterization of Peptide Fragments from the FK506 Binding Protein: Modeling the Earliest Events in Protein Folding,* Florida State University, Chemistry

Cothern, John A., *Dynamics of Granular Media in a Magnetic Force Environment,* Florida State University, Physics

Denny, Jeffrey K., *Geometry of Proteins with Applications to Solid-State Nuclear Magnetic Resonance,* Florida State University, Mathematics

Huang, Wei, *A Comparative Study of the Melting and Crystallization Behavior for Metallocene and a Narrow Fraction of Ziegler-Natta Isotactic Polypropylene,* Florida State University, Chemical Engineering

Jackson, Damon, *Anisotropy in Magnetic and Transport Properties of* $RTSb_3$, Florida State University, Physics

Jung, Jung-Hoon, *Optical Studies of Charge/Orbital Ordering in Manganites,* Seoul National University, Physics

Kim, Do-Hyun, *Growth and Zeeman Spectroscopy of GaAs/AlGaAs Quantum Wire Arrays in Various Wire Widths,* Seoul National University, Physics

Kmety, Carmen R., *Phase Transitions in Molecule-Based Magnets: Neutron Diffraction, Magnetic and Specific Heat Studies,* The Ohio State University, Physics

Mertz, Laura, *Peptide Binding Studies of the C-Terminal Domain of Diphtheria Toxin Repressor Protein,* Florida State University, Chemistry

Munteanu, Florin M., *Magneto-Optical Experiments in GaAs/AlGaAs Heterostructures,* Northeastern University, Physics

Nam, Moon-Sun, *Magnetotransport in BEDT-TTF Salts, University of* Oxford, Physics

Ohmichi, Eiji, *Oriented Magnetic Field Effects in Quasi Two-Dimensional Superconductors,* Kyoto University, Physics

Pan, Wei, *Experimental Studies of the Even-Denominator Fractions in High Landau Levels,* Princeton University, Physics

Petrovic, Cedomir, *On the Absence of Magnetism in Quasi-2D Ternary Rare Earth Intermetallics,* Florida State University, Physics

Raghavan, Karthik, *Rapid Computational Methods for Velocimetry and Diffusion Measurements from Images Obtained Using Pulsed Field Gradient Techniques in Magnetic Resonance Imaging,* Florida State University, Chemical Engineering

Schrama, J.M., *Magneto-Optics of Quasi-Two-Dimensional Metals,* University of Oxford, Michaelmas, Physics

Stalcup, Thomas F., *Transport and Magnetic Properties of an Organic Superconductor,* Florida State University, Physics

Subramanyam, Pilla, *Electric Field Induced Glass Phases in Molecular Solids at Low Temperatures,* University of Florida, Physics

Watson, Brian C., *Quantum Transitions in Antiferromagnets and Liquid Helium-3,* University of Florida, Physics

Zhou, Kefei, *Thermodynamic Stability Study of DtxR H201W C-Terminal SH3 Domain,* Florida State University, Biological Sciences

Grants

PI: Abbaschian, R. and Singh, R.K.
Grant Title: Request for Crystal Growth for Diamond and Other Materials
Agency: Gemesis Corporation
Project Dates: 04/01/98-03/01/00
Award Amount: $25,000

PI: Abbaschian, R. and Singh, R.K.
Grant Title: Request for Crystal Growth for Diamond and Other Materials
Agency: Gemesis Corporation
Project Dates: 04/01/98-03/31/00
Award Amount: $25,000

PI: Abbaschian, R.
Grant Title: Morphological Stability Faceted Interfaces
Agency: NASA
Project Dates: 05/16/00-11/30/03
Award Amount: $45,000

PI: Abbaschian, R.
Grant Title: Request for Crystal Growth for Diamond and Other Materials
Agency: Gemesis Corporation
Project Dates: 04/01/98-03/31/01
Award Amount: $194,958

PI: Abernathy, C. and Ren, F.
Grant Title: Development of Gan Mosfets and Misfets
Agency: U.S. Navy
Project Dates: 01/01/98-12/31/00
Award Amount: $45,000

PI: Abernathy, C.
Grant Title: Microwave Power HBTS with Regrowth Base Regions
Agency: U.S. Navy
Project Dates: 03/01/99-03/01/01
Award Amount: $38,800

PI: Abernathy, C.
Grant Title: Synthesis & Characterization of Rare Earth Doped Wide Bandgap Materials
Agency: U.S. Army
Project Dates: 04/01/98-03/31/01
Award Amount: $55,000

PI: Abernathy, C. and Ren, F.
Grant Title: Development of Gan Mosfets and Misfets
Agency: U.S. Navy
Project Dates: 01/01/98-03/31/01
Award Amount: $30,000

PI: Abernathy, C.
Grant Title: Minority Engineering Faculty Development Initiative
Agency: General Electric Foundation
Project Dates: 01/01/00-12/31/00
Award Amount: $15,000

PI: Abernathy, C.
Grant Title: Development of Gan Mosfets and Misfets
Agency: U.S. Navy
Project Dates: 01/01/98-12/31/03
Award Amount: $25,872

PI: Adams, E.D.
Grant Title: Neutron Study of Solid ^{3}He: Dissertation Enhancement
Agency: National Science Foundation
Project Dates: 06/15/00-05/31/01
Award Amount: $9,350

PI: Adams, E.D.
Grant Title: Magnetic Ordering in Solid ^{3}He
Agency: National Science Foundation
Project Dates: 08/15/98-07/31/01
Award Amount: $80,000

PI: Adams, E.D. and Xia, J.S.
Grant Title: Experimental Investigation of States at Half-Filled Landau Levels in Very High Magnetic Fields and at Very Low Temperatures
Agency: Florida State University
Project Dates: 09/01/98-12/31/00
Award Amount: $57,228

PI: Andren, P. and Emmett, M.R.
Grant Title: Ultrahigh-Resolution Electrospray FT-ICR Mass Spectrometry: High Mass Resolution, Identification and Trace Analysis of Biomolecules
Agency: STINT (Swedish Foundation for International Cooperation in Research and Higher Education)
Project Dates: 12/01/99-11/30/00
Award Amount: $39,000

PI: Angerhofer, A.
Grant Title: Time-Resolved ESR and ENDOR on Triplet States In Photosynthetic Complexes
Agency: National Science Foundation
Project Dates: 02/01/00-02/28/03
Award Amount: $430,000

PI: Angerhofer, A.
Grant Title: Ultrafast Switches for Pulsed Sub-Mm Radiation
Agency: Florida State University
Project Dates: 09/01/99-08/31/01
Award Amount: $58,239

PI: Bartlett, R.J.
Grant Title: Identification and Synthesis of High Nitrogen Propellants
Agency: U.S. Air Force
Project Dates: 06/01/98-05/31/01
Award Amount: $120,000

PI: Bartlett, R.J. and Cheng, H.P.
Grant Title: Multi-Scale Simulation of Materials Behavior through Integrated Computational Hierarchies
Agency: National Science Foundation
Project Dates: 09/15/99-08/31/02
Award Amount: $133,913

PI: Bartlett, R.J.
Grant Title: Workshop on Applied Molecular Orbital Theory Conference
Agency: Multiple Sources
Project Dates: 07/01/00-07/01/01
Award Amount: $387

PI: Bartlett, R.J.
Grant Title: Metastable Molecules in the Ground and in Excited States: Theory Development, Implementation…
Agency: U.S. Air Force
Project Dates: 12/01/00-11/30/01
Award Amount: $160,000

PI: Blackband, S.J.
Grant Title: NMR Microscopy of Single Neural Cells and Brain Slices
Agency: National Institutes of Health
Project Dates: 05/15/98-02/28/01
Award Amount: $199,108

PI: Blackband, S.J.
Grant Title: Automatic Shape Recovery of Hippocampus from Brain MRI
Agency: National Institutes of Health
Project Dates: 09/30/98-08/31/01
Award Amount: $74,247

PI: Brennan, A.B.
Grant Title: The Role of Surface Properties of PDMS Coatings Marine Biofouling By Enteromorpha
Agency: U.S. Navy
Project Dates: 05/01/99-11/30/01
Award Amount: $47,500

PI: Brennan, A.B.
Grant Title: The Role of Surface Properties of PDMS Coatings Marine Biofouling by Enteromorpha
Agency: U.S. Navy
Project Dates: 05/01/99-11/30/01
Award Amount: $47,500

PI: Brennan, A.B.
Grant Title: A Broad Based Biomedical Engineering Department at the University of Florida
Agency: Whitaker Foundation
Project Dates: 05/01/00-10/30/01
Award Amount: $20,000

PI: Brennan, A.B.
Grant Title: Dispersion, Agglomeration, and Consolidation
Agency: National Science Foundation
Project Dates: 09/01/97-08/31/00
Award Amount: $800

PI: Brennan, A.B.
Grant Title: Dispersion, Agglomeration, and Consolidation
Agency: National Science Foundation
Project Dates: 09/01/97-08/31/01
Award Amount: $800

PI: Brooks, J.
Grant Title: High Magnetic Field Probes of Electronic and Magnetic Structure in Low Dimensional and Correlated Electron Systems
Agency: National Science Foundation
Project Dates: 07/01/00-06/30/01
Award Amount: $105,000

PI: Brooks, J.S. and Tokumoto
Grant Title: Study of Superconductivity in Organic Conductors Using Uniaxial Stress
Agency: AIST (Japanese Government)
Project Dates: 09/01/00-04/31/01
Award Amount: $15,000

PI: Chandra, N.
Grant Title: Computational Methods
Agency: University of Rhode Island
Project Dates: 05/14/00-11/14/01
Award Amount: $109,907

PI: Chanton, J. and Wang, Y.
Grant Title: Isotopic Studies at Ameriflux Tower Sites: Estimating Co_2 Exchange and Anthropogenic CH_4
Agency: NIGEC
Project Dates: 07/01/00-06/30/01
Award Amount: $86,577

PI: Cheng, H.P.
Grant Title: Multi-Scale Simulation of Materials Behavior through Integrated Computational Hierarchies
Agency: National Science Foundation
Project Dates: 09/15/99-08/31/02
Award Amount: $4,335

PI: Cheng, H.P.
Grant Title: Interfacial Phenomena in Metal-C60 Interaction
Agency: U.S. Department of Energy
Project Dates: 08/01/00-07/31/03
Award Amount: $40,000

PI: Cross, T.A.
Grant Title: Correlations: Structure-Dynamics Functions in Channels
Agency: National Institute of Allergy and Infectious Diseases
Project Dates: 03/01/00-02/28/01
Award Amount: $394,177

PI: Cross, T.A. and Chapman
Grant Title: Center for Biomolecular Modeling & Simulation
Agency: Florida State University Research Foundation
Project Dates: 12/00-11/02
Award Amount: $995,105

PI: Cross, T.; Quine, J. and Fu, R.
Grant Title: Solid-State NMR Derived Structure: Backbone of Influenza A M2 Protein
Agency: National Science Foundation
Project Dates: 02/01/00-01/31/01
Award Amount: $135,000

PI: Dagotto, E. and Moreo, A.
Grant Title: Computational Studies of Electronic Models for Ladders and Planes
Agency: National Science Foundation
Project Dates: 11/01/00-10/31/01
Award Amount: $92,000

PI: Dalal, N.; Stiegman, A.E.; Schlenoff, J.B.; Dahmen, K.H. and Goldsby, K.A.
Grant Title: Purchase of a Fourier Transform Infrared Spectrometer
Agency: National Science Foundation
Project Dates: 09/01/00-08/31/02
Award Amount: $76,841

PI: Dobrosavljevic, V.
Grant Title: Theory of Metal-Insulator Transitions in Strongly Correlated Electronic Systems with Disorder
Agency: National Science Foundation
Project Dates: 07/01/00-06/30/01
Award Amount: $50,000

PI: Dorsey, A.T. and Yelton, J.M.
Grant Title: GAANN at the University of Florida, Department of Physics
Agency: U.S. Department of Education
Project Dates: 08/15/98-08/14/01
Award Amount: $127,500

PI: Dorsey, A.T.
Grant Title: Dynamics of Vortices and Interfaces in Condensed Matter
Agency: National Science Foundation
Project Dates: 10/15/99-09/30/02
Award Amount: $92,000

PI: Dufty, J.W.
Grant Title: Charge Dynamics in High Energy Density Matter
Agency: U.S. Department of Energy
Project Dates: 03/15/98-03/14/02
Award Amount: $59,000

PI: Dufty, J.W.
Grant Title: Multi-Scale Simulation of Materials Behavior through Integrated Computational Hierarchies
Agency: National Science Foundation
Project Dates: 09/15/99-08/31/02
Award Amount: $4,335

PI: Dunn, B.M. and Edison, A.S.
Grant Title: Novel Inhibitors of Fungal Aspartic Proteinases
Agency: National Institutes of Health
Project Dates: 01/01/01-12/31/03
Award Amount: $156,661

PI: Durbin, S.; Garmestani, H.; Alamo, R. and Schwartz, J.
Grant Title: Acquisition of a Variable-Temperature Scanning Probe Microscope System for Materials Research and Education
Agency: National Science Foundation
Project Dates: 2000-2001
Award Amount: $125,000

PI: Edison, A.S.
Grant Title: REU: Structure and Function of Fmrfamide-Like Neuropeptides
Agency: National Science Foundation
Project Dates: 06/01/00-05/31/02
Award Amount: $5,000

PI: Ellington W.R.
Grant Title: Evolution of Cellular ATP Buffering and Energy Transport Systems
Agency: National Science Foundation
Project Dates: 09/01/00-08/31/01
Award Amount: $91,192

PI: Eyler, J.R.
Grant Title: Fourier Transform Mass Spectrometer Development Support
Agency: Education, Research & Development Association of Georgia University
Project Dates: 01/01/00-06/30/01
Award Amount: $49,803

PI: Eyler, J.R.
Grant Title: Dissertation Fellowships
Agency: University of Florida Foundation
Project Dates: 11/23/99-12/31/01
Award Amount: $3,178

PI: Eyler, J.R.
Grant Title: Graduate Research Fellowship Program
Agency: National Science Foundation
Project Dates: 10/01/99-09/30/01
Award Amount: $4,000

PI: Fajer, P.
Grant Title: Orientation and Dynamics of Myosin Head Regulatory Domain
Agency: National Science Foundation
Project Dates: 09/01/00-08/31/01
Award Amount: $5,000

PI: Fajer, P.
Grant Title: Orientation and Dynamics of Myosin Head Regulatory Domain
Agency: National Science Foundation
Project Dates: 09/01/00-08/31/01
Award Amount: $82,000

PI: Fajer, P.; Krzystek, U. and Brunel, L. C.
Grant Title: Consortium for the Acquisition of a W-Band Electron Magnetic Resonance Spectrometer
Agency: National Science Foundation
Project Dates: 08/01/00-07/31/03
Award Amount: $776,874

PI: Fisk, Z.
Grant Title: Correlated Electron Physics in Hexaborides: A Unique Experimental Material
Agency: National Science Foundation
Project Dates: 08/01/00-07/31/01
Award Amount: $91,584

PI: Fitzsimmons, J.R.
Grant Title: Custom Rf Coil Design and Development
Agency: Varian Associates, Inc.
Project Dates: 03/22/00-03/22/01
Award Amount: $8,500

PI: Fitzsimmons, J.R. and Duensing, G.R.
Grant Title: Very High Frequency Transceiver Phased Array Rf Coil Development Application to Imaging the Spinal Cord
Agency: National Institutes of Health
Project Dates: 09/20/00-08/31/03
Award Amount: $252,688

PI: Gor'Kov, L.
Grant Title: Properties of Novel Magnetic Systems
Agency: Office of Naval Research
Project Dates: 04/01/00-03/31/01
Award Amount: $100,000

PI: Hebard, A.F.
Grant Title: Nanoscale Devices & Novel Engineered Materials
Agency: U.S. Air Force
Project Dates: 12/15/98-03/31/01
Award Amount: $72,250

PI: Hebard, A.F.
Grant Title: Materials and Devices for Optical Sources and Protection of Optical Sensors
Agency: U.S. Army
Project Dates: 07/01/00-10/31/01
Award Amount: $50,000

PI: Hershfield, S.P. and Sharifi, F.
Grant Title: Nanoscale Devices & Novel Engineered Materials
Agency: U.S. Air Force
Project Dates: 12/15/95-03/31/01
Award Amount: $138,963

PI: Ihas, G.G.
Grant Title: Aeolian Tones in Superfluid Helium
Agency: University of Oregon
Project Dates: 08/01/98-08/15/00
Award Amount: $22,384

PI: Ingersent, J.K. and Dorsey, A.T.
Grant Title: An REU Site in Physics at the University of Florida
Agency: National Science Foundation
Project Dates: 04/01/99-03/31/02
Award Amount: $69,000

PI: Ingersent, J.K. and Dorsey, A.T.
Grant Title: An REU Site in Physics at the University of Florida
Agency: National Science Foundation
Project Dates: 04/01/99-03/31/01
Award Amount: $22,000

PI: Kim, Y.
Grant Title: Sensitivity and Predictability Studies in Long-Term Noise Statistics Regional Climate
Agency: U. S. Department of Energy
Project Dates: 09/15/00-09/14/01
Award Amount: $112,793

PI: Logan, T.
Grant Title: Nonrandom Infolded States and Proteins Stability
Agency: National Institute of General Medical Sciences
Project Dates: 06/01/00-05/31/01
Award Amount: $34,469

PI: Logan, T.
Grant Title: Nonrandom Unfolded States and Protein Stability
Agency: National Institute of General Medical Sciences
Project Dates: 06/01/00-05/31/01
Award Amount: $68,940

PI: Marshall, A.G.
Grant Title: Mapping Surface Contacts in Bio-macromolecule Non-Covalent Complexes
Agency: National Institute of General Medical Sciences
Project Dates: 08/01/00-07/31/01
Award Amount: $190,000

PI: Marshall, A.; Hendrickson, C.L. and Emmett, M.
Grant Title: National High Field FT-ICR Mass Spectroscopy Facility
Agency: National Science Foundation
Project Dates: 01/01/00-12/31/00
Award Amount: $1,206,338

PI: Marshall, A.
Grant Title: Unrestricted
Agency: ExxonMobil Research Engineering Company
Project Dates: 01/00/00-12/31/00
Award Amount: $50,000

PI: Martin, C.R. and Eyler, J.R.
Grant Title: Advance Carbon Nanotube Membrane DOE Direct Methanol Fuel Cell
Agency: Physical Sciences, Inc.
Project Dates: 01/01/00-06/30/00
Award Amount: $14,600

PI: Martin, C.R. and Eyler, J.R.
Grant Title: Nanomaterials in Secondary Battery Research & Development
Agency: U.S. Department of Energy
Project Dates: 09/15/99-09/14/02
Award Amount: $108,384

PI: Martin, C.R. and Richards, N.G.
Grant Title: Development of Nanotube-Based Technology for Stochastic Chemical Sensors
Agency: U.S. Navy
Project Dates: 12/26/00-12/25/03
Award Amount: $45,000

PI: Maslov, D.
Grant Title: Career: Mesoscopic Interacting Systems
Agency: National Science Foundation
Project Dates: 06/15/97-04/30/02
Award Amount: $50,000

PI: Meisel, M.W. and Paul, A.
Grant Title: Low Gravity Plant Growth Experiments Using High Magnetic Field Gradient Levitation
Agency: Florida State University
Project Dates: 09/01/98-08/31/01
Award Amount: $13,834

PI: Moerland, T.
Grant Title: Effects of Temperature and Ultra Structure on Solute Diffusion in Striated Muscle
Agency: National Science Foundation
Project Dates: 09/01/00-08/31/01
Award Amount: $82,000

PI: Monkhorst, H.J.
Grant Title: Support for the Research and Development of the Colliding Beam Fusion Reactor
Agency: Tri Alpha Energy, Inc.
Project Dates: 05/12/00-08/10/00
Award Amount: $26,000

PI: Monkhorst, H.J.
Grant Title: Support for the Research and Development of the Colliding Beam Fusion Reactor
Agency: Tri Alpha Energy, Inc.
Project Dates: 05/12/00-08/10/01
Award Amount: $19,500

PI: Monkhorst, H.J.
Grant Title: Support for the Research and Development of the Colliding Beam Fusion Reactor
Agency: Tri Alpha Energy, Inc.
Project Dates: 05/12/00-08/10/01
Award Amount: $19,500

PI: Monkhorst, H.J.
Grant Title: Support for the Research and Development of the Colliding Beam Fusion Reactor
Agency: Tri Alpha Energy, Inc.
Project Dates: 05/12/00-08/10/01
Award Amount: $19,500

PI: Pearton, S.J.
Grant Title: Nanoscale Devices & Novel Engineered Materials
Agency: U.S. Air Force
Project Dates: 12/15/95-03/31/01
Award Amount: $993,944

PI: Pearton, S.J.
Grant Title: Ion Implantation Doping Isolation of Iii-Nitrides
Agency: National Science Foundation
Project Dates: 04/15/98-03/31/01
Award Amount: $75,890

PI: Pearton, S.J.
Grant Title: Materials, Process and Device Development and GAN MCTS
Agency: Electric Power Research Institute
Project Dates: 07/01/98-06/30/01
Award Amount: $350,226

PI: Pearton, S.J.
Grant Title: University Research Program in Robotics for Environmental Restoration and Waste Management
Agency: U.S. Department of Energy
Project Dates: 06/01/00-05/31/03
Award Amount: $12,500

PI: Popovic, D.
Grant Title: Study of Correlated Insulators and Metals in Two Dimensions
Agency: National Science Foundation
Project Dates: 05/01/00-04/30/01
Award Amount: $90,000

PI: Popovic, D.
Grant Title: Study of Correlated Insulators and Metals in Two Dimensions
Agency: National Science Foundation
Project Dates: 05/01/00-04/30/02
Award Amount: $37,650

PI: Richardson, D.E. and Eyler, J.R.
Grant Title: Gas-Phase Chemistry and Spectroscopy of Transition Metal Complex Ions
Agency: National Science Foundation
Project Dates: 02/01/98-01/31/02
Award Amount: $14,400

PI: Rinzler, A.G.
Grant Title: Materials and Devices for Optical Sources and Protection of Optical Sensors
Agency: U.S. Army
Project Dates: 07/01/00-10/31/01
Award Amount: $210,000

PI: Rinzler, A.G.
Grant Title: Artificial Muscle Arrays
Agency: Honeywell, Inc.
Project Dates: 06/13/00-06/13/01
Award Amount: $110,433

PI: Sabin, J.R. and Ohrn, N.Y.
Grant Title: "We Can Do That!" Theory and Computation of Large and Complex Molecules
Agency: U.S. Navy
Project Dates: 11/01/00-04/30/01
Award Amount: $20,000

PI: Sabin, J.R.
Grant Title: Media Effect in Molecular Structure & Spectroscopy
Agency: U.S. Navy
Project Dates: 01/01/96-12/31/01
Award Amount: $17,486

PI: Sabin, J.R.
Grant Title: Media Effect in Molecular Structure & Spectroscopy
Agency: U.S. Navy
Project Dates: 01/01/96-12/31/01
Award Amount: $78,905

PI: Salters, V.
Grant Title: Collaborative Research: Experimental Determinations of Trace Element Distributions Between Melts and Mantle Phases at P, T and X Relevant to MORB Genesis
Agency: National Science Foundation
Project Dates: 11/15/00 -10/31/01
Award Amount: $67,723

PI: Salters, V. and Zindler, A.
Grant Title: Determining the Mineralogy of the MORB-Source Through Abyssal Peridotites
Agency: National Science Foundation
Project Dates: 09/01/00-08/31/01
Award Amount: $57,465

PI: Salters, V.J.; Cooper, W.T.; Landing, W.M.; Marshall, A.G.; Krzystek, J. and Choppin, G.R.
Grant Title: Determining the Speciation of Nutrients, Radionuclides, and Metals in Natural Waters
Agency: Florida State University Research Foundation
Project Dates: 06/01/00-05/31/02
Award Amount: $98,739

PI: Schwartz, J.
Grant Title: A Large-Bore High Field Liquid Neon Facility for High Temperature Super Conductor Material and Component Testing
Agency: Office of Naval Research
Project Dates: 10/15/00-10/14/01
Award Amount: $72,799

PI: Schwartz, J.
Grant Title: Risk Mitigation for HTS Motors: Intermediate Temperature (27 K) Strain Effects in Reinforced Bi-Sr-Ca-Cu-O Superconductors
Agency: Office of Naval Research
Project Dates: 2000-2001
Award Amount: $100,000

PI: Schwartz, J.
Grant Title: Stability and Quench Protection of YBCO Wires and Coils
Agency: UT-Battele, LLC
Project Dates: 06/01/00-05/31/02
Award Amount: $61,837

PI: Spiegel, S.
Grant Title: Research Experiences for Teachers
Agency: National Science Foundation
Project Dates: 04/01/00-12/31/00
Award Amount: $106,000

PI: Spiegel, S.
Grant Title: Science, Tobacco and You
Agency: Florida Department of Health
Project Dates: 07/01/00-06/30/01
Award Amount: $1,023,355

PI: Talham, D.R.
Grant Title: The Features of Self Assembling Organic Bilayers Important to the Formation of Inorganic Materials
Agency: NASA
Project Dates: 05/11/00-11/30/03
Award Amount: $40,000

PI: Talham, D.R.
Grant Title: Florida Advanced Materials Chemistry Conference
Agency: Multiple Sources
Project Dates: 07/01/00-07/01/01
Award Amount: $1,500

PI: Talham, D.R.
Grant Title: Supramolecular Assembly at Interfaces: Coordinate Covalent Networks and Polygons…
Agency: National Science Foundation
Project Dates: 06/01/99-05/31/02
Award Amount: $104,134

PI: Tanner, D.B.
Grant Title: Effect of Transport Current on the Infrared Properties of Superconductors
Agency: Teracomm Research, Inc.
Project Dates: 09/01/98-03/01/01
Award Amount: $10,000

PI: Tanner, D.B.
Grant Title: Materials and Devices for Optical Sources and Protection of Optical Sensors
Agency: U.S. Army
Project Dates: 07/01/00-10/31/01
Award Amount: $120,000

PI: Tanner, D.B.
Grant Title: Radiative Properties & Optical Response of High-Temperature Superconducting Thin-Film
Agency: National Science Foundation
Project Dates: 11/15/00-10/31/03
Award Amount: $133,250

PI: Trickey, S.B.
Grant Title: Multi-Scale Simulation of Materials Behavior Through Integrated Computational Hierarchies
Agency: National Science Foundation
Project Dates: 09/15/99-08/31/02
Award Amount: $4,335

PI: Trickey, S.B. and Cheng, H.P.
Grant Title: High Speed Computing & Virtual Reality Machines For Visualization of Molecular Systems & Semiconductor
Agency: National Science Foundation
Project Dates: 12/15/00-05/31/02
Award Amount: $80,000

PI: Van Sciver, S.
Grant Title: Fabrication of Resistive Magnet for High Field Lab at Nijmegen
Agency: University of Nijmegen/High Field Magnet Laboratory
Project Dates: 08/08/00-04/29/02
Award Amount: $426,189

PI: Van Sciver, S.
Grant Title: Liquid Helium Fluid Dynamics Studies
Agency: U. S. Department of Energy
Project Dates: 01/01/00-12/31/00
Award Amount: $215,000

PI: Van Sciver, S.
Grant Title: REU in Visualization Studies of Heat and Mass Transfer in Forced Flow Heat II
Agency: National Science Foundation
Project Dates: 08/15/00-07/31/03
Award Amount: $5,000

PI: Van Sciver, S.
Grant Title: U. S.–Japan Joint Seminar: Innovative Measurement Techniques in Cryogenics
Agency: National Science Foundation
Project Dates: 07/15/00-06/30/01
Award Amount: $12,000

PI: Van Sciver, S.
Grant Title: Visualization Studies of Heat and Mass Transfer in Forced Flow He II
Agency: National Science Foundation
Project Dates: 08/15/00-07/31/03
Award Amount: $260,000

PI: von Molnar, S.
Grant Title: STM-Fabricated Magnets and Their Influence on Semiconductor Electronics
Agency: National Science Foundation
Project Dates: 03/15/00-02/28/03
Award Amount: $230,147

PI: Wang, Y.
Grant Title: Isotopic Evidence for Late Cenozoic Ecosystem and Climate Changes in Southwest China
Agency: National Science Foundation
Project Dates: 11/01/01-10/31/01
Award Amount: $19,613

PI: Wang, Y.
Grant Title: Tracing the Source of Phosphorus Using Oxygen Isotopic Ratios
Agency: National Science Foundation
Project Dates: 08/01/00-07/31/02
Award Amount: $61,993

PI: Yang, K.
Grant Title: Dynamics, Thermodynamics and Spin Transport in Random Quantum Spin Chains
Agency: National Science Foundation
Project Dates: 06/01/00-05/31/01
Award Amount: $50,000

PI: Zheng, J.P. and Fu, R.
Grant Title: Investigation of Capacity Degradation in Lithium-Ion Batteries at Low Temperatures using NMR Spectroscopy
Agency: U.S. Army Communications-Electronics Command
Project Dates: 10/1/00-9/30/01
Award Amount: $32,726