

University of Houston
Division of Research
New Grants and Continuation Awards for Research,
Traineeships, Fellowships, Equipment and Buildings

Received During September, 2006

COLLEGE OF EDUCATION

Consistency Mgmt and Coop Disc

Investigator: Dr. H. Jerome Freiberg, 100.00%
Cost Center: G093632 / 5021 / H0063 / C0001
Title: Duston School (Phase 1-Year 2)
Agency: Duston School
Agency Code: 4PGX20
Agency Type: Private Non-Profit
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$83,967.00
Type of Support: Contract for Public Service
CFDA:
CB Designation: Non Research

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

History

Investigator: Dr. Landon Storrs, 100.00%
Cost Center: G093263 / 5021 / H0089 / B0001
Title: Domestic Insecurity: Gender and Cold War Loyalty Investigations of U.S. Policymakers
Agency: American Council of Learned Societies
Agency Code: 4ACL00
Agency Type: Private Non-Profit
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$40,000.00
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Psychology

Investigator: Dr. Jack M. Fletcher, 78.00%
Cost Center: G092587 / 5013 / H0125 / B0001
Title: Cognitive, Instructional & Neuroimaging Factors in Math - Master Account
Agency: National Institute of Child Health and Human Development
Agency Code: HEW407
Agency Type: Federal
Duration: 2/1/2006 to 7/31/2006
Award Amount: \$586,486.91
Type of Support: Grant for Research
CFDA: 93.865 - Center for Research for Mothers and Children
CB Designation: Restricted Research

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Received During September, 2006

Investigator: Dr. David J. Francis, 4.40%
Cost Center: G092587 / 5013 / H0125 / B0001
Title: Cognitive, Instructional & Neuroimaging Factors in Math - Master Account
Agency: National Institute of Child Health and Human Development
Agency Code: HEW407
Agency Type: Federal
Duration: 2/1/2006 to 7/31/2006
Award Amount: \$33,083.88
Type of Support: Grant for Research
CFDA: 93.865 - Center for Research for Mothers and Children
CB Designation: Restricted Research

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Biology/Biochemistry

Investigator: Dr. Rebecca Zufall, 100.00%
Cost Center: G092971 / 5013 / H0104 / B0001
Title: Starter Grant: Cis-Acting Signals and Genome-Wide Effects of Extensive Genome Processing in Diverse
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$50,000.00
Type of Support: Grant for Research
CFDA: 47.074 - Biological Sciences
CB Designation: Restricted Research

Center for Applied Geoscience Excellence

Investigator: Dr. Kurt Marfurt, 50.00%
Cost Center: G090731 / 5022 / H0451 / B0001
Title: Research in Imaging New Types of Seismic Data
Agency: Various Private Profit Agencies
Agency Code: 3VAR00
Agency Type: Private Profit
Duration: 10/1/2004 to 9/30/2007
Award Amount: \$3,125.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

Investigator: Dr. Hua-Wei Zhou, 50.00%
Cost Center: G093531 / 5022 / H0109 / B0001
Title: Near-Surface Statics Estimation by Deformable-Layer Tomography
Agency: Reliable GeoInfo, Inc.
Agency Code: 3REL00
Agency Type: Private Profit
Duration: 2/1/2007 to 1/31/2008
Award Amount: \$14,942.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

Chemistry

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Received During September, 2006

Investigator: Dr. Rigoberto Advincula, 100.00%
Cost Center: G087053 / 5013 / H0107 / B0001
Title: Multiply Bound Polymer Chains: Novel Chemistry for Improved Interfacial Properties
Agency: University of Tennessee
Agency Code: 7UTN00
Agency Type: University
Duration: 7/1/2003 to 8/31/2007
Award Amount: \$86,334.00
Type of Support: Contract for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

Investigator: Dr. Boris Makarenko, 25.00%
Cost Center: G092555 / 5013 / H0107 / B0001
Title: Ion/Atom/Electron Surface Dynamics Using Experimental Coincidence-Correlation Techniques and Theoretic
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$40,000.00
Type of Support: Grant for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

Investigator: Dr. J. Wayne Rabalais, 75.00%
Cost Center: G092555 / 5013 / H0107 / B0001
Title: Ion/Atom/Electron Surface Dynamics Using Experimental Coincidence-Correlation Techniques and Theoretic
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$120,000.00
Type of Support: Grant for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

Dean, Natural Sciences and Mathematics

Investigator: Dr. John L. Bear, 100.00%
Cost Center: G090128 / 5013 / H0102 / H0001
Title: STRATEGIES TO EXPAND PARTICIPATION AND ENHANCE RETENTION IN MINORITY
Agency: Rice University
Agency Code: 7RIC00
Agency Type: University
Duration: 10/1/2004 to 9/30/2007
Award Amount: \$465,000.00
Type of Support: Co-Op Agreement for Research
CFDA: 47.076 - Education and Human Resources
CB Designation: Non Research

Geosciences

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Received During September, 2006

Investigator: Dr. Daewon Byun, 50.00%
Cost Center: G093467 / 5013 / H0429 / B0001
Title: Operations of the Minerals Management Service's Radar Wind Profiler/RASS at the HCC
Agency: U.S. Department of Interior - Minerals Management
Agency Code: INT001
Agency Type: Federal
Duration: 9/5/2006 to 9/4/2009
Award Amount: \$75,000.00
Type of Support: Co-Op Agreement for Research
CFDA: 15.423 - Minerals Management (MMS) Environmental Studies Progr
CB Designation: Restricted Research

Investigator: Dr. Thomas Lapen, 100.00%
Cost Center: G092565 / 5022 / H0109 / B0001
Title: U-Pb Age and Hf Isotope Composition of Detrital Zircons from Strata of the Ouachita Orogenic Belt, Arkansa
Agency: Petroleum Research Fund
Agency Code: 4PRF00
Agency Type: Private Non-Profit
Duration: 9/1/2006 to 8/31/2008
Award Amount: \$35,000.00
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Investigator: Dr. Barry Lefer, 37.00%
Cost Center: G092064 / 5021 / H0429 / B0001
Title: Solar Occultation Flux (SOF) Measurements in the Houston Ship Channel
Agency: Houston Advanced Research Center
Agency Code: 4HRC00
Agency Type: Private Non-Profit
Duration: 5/19/2006 to 3/1/2007
Award Amount: \$38,850.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

Investigator: Dr. Kurt Marfurt, 50.00%
Cost Center: G090731 / 5022 / H0451 / B0001
Title: Research in Imaging New Types of Seismic Data
Agency: Various Private Profit Agencies
Agency Code: 3VAR00
Agency Type: Private Profit
Duration: 10/1/2004 to 9/30/2007
Award Amount: \$3,125.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

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Received During September, 2006

Investigator: Dr. Bernhard Rappenglueck, 13.00%
Cost Center: G092064 / 5021 / H0429 / B0001
Title: Solar Occultation Flux (SOF) Measurements in the Houston Ship Channel
Agency: Houston Advanced Research Center
Agency Code: 4HRC00
Agency Type: Private Non-Profit
Duration: 5/19/2006 to 3/1/2007
Award Amount: \$13,650.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

Investigator: Dr. Hua-Wei Zhou, 50.00%
Cost Center: G093531 / 5022 / H0109 / B0001
Title: Near-Surface Statics Estimation by Deformable-Layer Tomography
Agency: Reliable GeoInfo, Inc.
Agency Code: 3REL00
Agency Type: Private Profit
Duration: 2/1/2007 to 1/31/2008
Award Amount: \$14,942.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

Institute for Multidimensional Air Quality Studies

Investigator: Dr. Daewon Byun, 50.00%
Cost Center: G093467 / 5013 / H0429 / B0001
Title: Operations of the Minerals Management Service's Radar Wind Profiler/RASS at the HCC
Agency: U.S. Department of Interior - Minerals Management
Agency Code: INT001
Agency Type: Federal
Duration: 9/5/2006 to 9/4/2009
Award Amount: \$75,000.00
Type of Support: Co-Op Agreement for Research
CFDA: 15.423 - Minerals Management (MMS) Environmental Studies Progr
CB Designation: Restricted Research

Investigator: Dr. Barry Lefer, 37.00%
Cost Center: G092064 / 5021 / H0429 / B0001
Title: Solar Occultation Flux (SOF) Measurements in the Houston Ship Channel
Agency: Houston Advanced Research Center
Agency Code: 4HRC00
Agency Type: Private Non-Profit
Duration: 5/19/2006 to 3/1/2007
Award Amount: \$38,850.00
Type of Support: Contract for Research
CFDA:
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Investigator: Dr. Bernhard Rappenglueck, 13.00%
Cost Center: G092064 / 5021 / H0429 / B0001
Title: Solar Occultation Flux (SOF) Measurements in the Houston Ship Channel
Agency: Houston Advanced Research Center
Agency Code: 4HRC00
Agency Type: Private Non-Profit
Duration: 5/19/2006 to 3/1/2007
Award Amount: \$13,650.00
Type of Support: Contract for Research
CFDA:
CB Designation: Restricted Research

Mathematics

Investigator: Dr. Jiwen He, 30.00%
Cost Center: G090840 / 5013 / H0110 / B0001
Title: Multigrid Methods for PDE Constrained Optimization
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2005 to 8/31/2008
Award Amount: \$17,905.80
Type of Support: Grant for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

Investigator: Dr. Ronald Hoppe, 30.00%
Cost Center: G090840 / 5013 / H0110 / B0001
Title: Multigrid Methods for PDE Constrained Optimization
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2005 to 8/31/2008
Award Amount: \$17,905.80
Type of Support: Grant for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

Physics

Investigator: Dr. Ed V. Hungerford, 100.00%
Cost Center: G092514 / 5013 / H0112 / B0001
Title: The Development of a High-Rate, Multi-Function ASIC for Data Acquisition
Agency: Invocon, Inc.
Agency Code: 3INV00
Agency Type: Private Profit
Duration: 7/28/2006 to 3/20/2007
Award Amount: \$52,112.00
Type of Support: Contract for Research
CFDA: 81.049 - Office of Energy Research Financial Assistance Program
CB Designation: Restricted Research

COLLEGE OF OPTOMETRY

Community Optometry

University of Houston
Division of Research
New Grants and Continuation Awards for Research,
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Received During September, 2006

Investigator: Dr. Ronald S. Harwerth, 100.00%
Cost Center: G092343 / 5013 / H0114 / B0001
Title: Behavioral Measures of Vision
Agency: National Eye Institute
Agency Code: HEW402
Agency Type: Federal
Duration: 9/1/2006 to 6/30/2007
Award Amount: \$384,550.00
Type of Support: Grant for Research
CFDA: 93.867 - Vision Research
CB Designation: Restricted Research

COLLEGE OF PHARMACY

Heart and Kidney Institute

Investigator: Dr. Carlos H. Pedemonte, 25.00%
Cost Center: G087676 / 5013 / H0117 / B0001
Title: Dopamine Inhibition of Proximal Tubule Na, K-ATPase
Agency: National Institute of Diabetes and Digestive and Kidney Diseases
Agency Code: HEW406
Agency Type: Federal
Duration: 9/1/2003 to 8/31/2007
Award Amount: \$58,215.75
Type of Support: Grant for Research
CFDA: 93.859 - Pharmacology, Physiology, and Biological Chemistry
CB Designation: Restricted Research

Pharmacological and Pharmaceutical Sciences

Investigator: Dr. Douglas C. Eikenburg, 100.00%
Cost Center: G093041 / 5021 / H0117 / B0001
Title: Regulation of GRK3, Expression, A Critical Modulator of Signaling in Bipolar Disorder
Agency: National Alliance for Research on Schizophrenia & Depression (NARSAD)
Agency Code: 4NAL00
Agency Type: Private Non-Profit
Duration: 9/15/2006 to 9/14/2008
Award Amount: \$50,000.00
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Investigator: Dr. Carlos H. Pedemonte, 75.00%
Cost Center: G087676 / 5013 / H0117 / B0001
Title: Dopamine Inhibition of Proximal Tubule Na, K-ATPase
Agency: National Institute of Diabetes and Digestive and Kidney Diseases
Agency Code: HEW406
Agency Type: Federal
Duration: 9/1/2003 to 8/31/2007
Award Amount: \$174,647.25
Type of Support: Grant for Research
CFDA: 93.859 - Pharmacology, Physiology, and Biological Chemistry
CB Designation: Restricted Research

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Received During September, 2006

CULLEN COLLEGE OF ENGINEERING

Center for Neuro-Engineering and Cognitive Science

Investigator: Dr. Valery Kalatsky, 30.00%
Cost Center: G092123 / 5021 / H0070 / B0001
Title: Spatial and Temporal Dynamics of Plasticity in Adult Visual Cortex: High Resolution Imaging Study
Agency: Human Frontier Science Program
Agency Code: 4HFSP0
Agency Type: Private Non-Profit
Duration: 10/1/2006 to 9/30/2007
Award Amount: \$37,500.00
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Investigator: Dr. Bhavin Sheth, 30.00%
Cost Center: G092876 / 5021 / H0070 / B0001
Title: Dynamic Topography of Somatosensory and Motor Systems in Individuals with Autism
Agency: National Alliance for Autism Research - Autism Speaks
Agency Code: 4NAA00
Agency Type: Private Non-Profit
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$17,900.10
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Dean, Engineering

Investigator: Dr. Julie Martin Trenor, 100.00%
Cost Center: G092918 / 5021 / H0066 / B0001
Title: Developing Programmatic and Pedagogical Support Mechanisms for Diverse Women in Engineering at an Ur
Agency: Engineering Information Foundation
Agency Code: 6EIF00
Agency Type: Foundation
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$20,650.00
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Electrical Engineering

Investigator: Dr. Valery Kalatsky, 70.00%
Cost Center: G092123 / 5021 / H0070 / B0001
Title: Spatial and Temporal Dynamics of Plasticity in Adult Visual Cortex: High Resolution Imaging Study
Agency: Human Frontier Science Program
Agency Code: 4HFSP0
Agency Type: Private Non-Profit
Duration: 10/1/2006 to 9/30/2007
Award Amount: \$87,500.00
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

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Received During September, 2006

Investigator: Dr. Bhavin Sheth, 70.00%
Cost Center: G092876 / 5021 / H0070 / B0001
Title: Dynamic Topography of Somatosensory and Motor Systems in Individuals with Autism
Agency: National Alliance for Autism Research - Autism Speaks
Agency Code: 4NAA00
Agency Type: Private Non-Profit
Duration: 9/1/2006 to 8/31/2007
Award Amount: \$41,766.90
Type of Support: Grant for Research
CFDA:
CB Designation: Restricted Research

Industrial Engineering

Investigator: Dr. Christopher A. Chung, 75.00%
Cost Center: G092175 / 5013 / H0072 / B0001
Title: Research and Development of Portable Running Gear Entanglement System
Agency: United States Coast Guard Research and Development Center
Agency Code: DOT101
Agency Type: Federal
Duration: 11/21/2005 to 9/30/2006
Award Amount: \$1,091.48
Type of Support: Contract for Research
CFDA: 12.910 - Research and Technology Development
CB Designation: Restricted Research

Investigator: Dr. Lawrence J. H. Schulze, 25.00%
Cost Center: G092175 / 5013 / H0072 / B0001
Title: Research and Development of Portable Running Gear Entanglement System
Agency: United States Coast Guard Research and Development Center
Agency Code: DOT101
Agency Type: Federal
Duration: 11/21/2005 to 9/30/2006
Award Amount: \$363.83
Type of Support: Contract for Research
CFDA: 12.910 - Research and Technology Development
CB Designation: Restricted Research

Mechanical Engineering

Investigator: Dr. Karolos M. Grigoriadis, 70.00%
Cost Center: G092265 / 5013 / H0073 / B0001
Title: Collaborative Research: Hysteresis Compensation Using Linear Parameter Varying Control Methods
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2006 to 8/31/2009
Award Amount: \$184,104.90
Type of Support: Grant for Research
CFDA: 47.041 - Engineering Grants
CB Designation: Restricted Research

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Received During September, 2006

Investigator: Dr. Gangbing Song, 30.00%
Cost Center: G092265 / 5013 / H0073 / B0001
Title: Collaborative Research: Hysteresis Compensation Using Linear Parameter Varying Control Methods
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2006 to 8/31/2009
Award Amount: \$78,902.10
Type of Support: Grant for Research
CFDA: 47.041 - Engineering Grants
CB Designation: Restricted Research

DIVISION OF RESEARCH

Texas Learning/Computation Center

Investigator: Dr. David J. Francis, 2.20%
Cost Center: G092587 / 5013 / H0125 / B0001
Title: Cognitive, Instructional & Neuroimaging Factors in Math - Master Account
Agency: National Institute of Child Health and Human Development
Agency Code: HEW407
Agency Type: Federal
Duration: 2/1/2006 to 7/31/2006
Award Amount: \$16,541.94
Type of Support: Grant for Research
CFDA: 93.865 - Center for Research for Mothers and Children
CB Designation: Restricted Research

Investigator: Dr. Jiwen He, 20.00%
Cost Center: G090840 / 5013 / H0110 / B0001
Title: Multigrid Methods for PDE Constrained Optimization
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2005 to 8/31/2008
Award Amount: \$11,937.20
Type of Support: Grant for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

Investigator: Dr. Ronald Hoppe, 20.00%
Cost Center: G090840 / 5013 / H0110 / B0001
Title: Multigrid Methods for PDE Constrained Optimization
Agency: National Science Foundation
Agency Code: NSF000
Agency Type: Federal
Duration: 9/1/2005 to 8/31/2008
Award Amount: \$11,937.20
Type of Support: Grant for Research
CFDA: 47.049 - Mathematical and Physical Sciences
CB Designation: Restricted Research

TIMES

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Division of Research
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Received During September, 2006

Investigator: Dr. David J. Francis, 15.40%
Cost Center: G092587 / 5013 / H0125 / B0001
Title: Cognitive, Instructional & Neuroimaging Factors in Math - Master Account
Agency: National Institute of Child Health and Human Development
Agency Code: HEW407
Agency Type: Federal
Duration: 2/1/2006 to 7/31/2006
Award Amount: \$115,793.57
Type of Support: Grant for Research
CFDA: 93.865 - Center for Research for Mothers and Children
CB Designation: Restricted Research

Total Federal	\$2,053,467.59
Total State	\$0.00
Total Local	\$0.00
Total Other	\$1,158,864.00
TOTAL THIS MONTH	\$3,212,331.59