

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During September, 2005**

**COLLEGE OF EDUCATION**

**Consistency Mgmt and Coop Disc**

Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092050 / 5021 / H0063 / C0001  
Title: Project GRAD-Columbus Marion Franklin Middle Schools (Start-Up)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$89,481.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Non Research

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Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092047 / 5021 / H0063 / C0001  
Title: Proj GRAD - Columbus Linden McKinley Elementary Schools (Implementation Year 6)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$10,401.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092048 / 5021 / H0063 / C0001  
Title: Project Grad - Columbus Marion Franklin Elementary Schools (Implementation Year 1)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$211,267.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092049 / 5021 / H0063 / C0001  
Title: Project GRAD-Columbus Marion Franklin High School (Start - Up)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$63,625.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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**Received During September, 2005**

Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092053 / 5021 / H0063 / C0001  
Title: Project GRAD-Columbus Linden-McKinley Middle Schools (Implementation Year 5)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$12,355.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092052 / 5021 / H0063 / C0001  
Title: Project Grad-Columbus Linden-McKinley High School (Implementation Year 5)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$7,159.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G092051 / 5021 / H0063 / C0001  
Title: Project Grad - Columbus Linmoor Middle School (Implementation Year 2)  
Agency: Project Grad, Columbus, Ohio  
Agency Code: 4PGX03  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$31,573.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G091986 / 5021 / H0063 / C0001  
Title: Project GRAD-Kenai Peninsula on Behalf of Kenai Feeder Pattern K-12 Schools (Implementation Year 1)  
Agency: Project Grad Kenai Peninsula  
Agency Code: 4PGX17  
Revenue Source Code: 800  
Duration: 7/1/2005 to 6/30/2006  
Award Amount: \$59,905.30  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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**Received During September, 2005**

Investigator: Dr. H. Jerome Freiberg, 100.00%  
Cost Center: G005350 / 5022 / H0063 / B0001  
Title: Consistency Management & Cooperative Discipline  
Agency: Project GRAD - Newark  
Agency Code: 4PGX01  
Revenue Source Code: 800  
Duration: 1/1/2001 to 6/30/2003  
Award Amount: \$1,108.70  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Curriculum and Instruction**

Investigator: Dr. Michael Connell, 17.00%  
Cost Center: G091547 / 5013 / H0062 / C0001  
Title: Quality Teacher Recruitment and Assistance Consortium  
Agency: U.S. Department of Education  
Agency Code: HEW100  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2006  
Award Amount: \$79,806.50  
Type of Support: Grant for Research  
CFDA: 84.336 - A Guide for the Preparation of Partnership Grant  
CB Designation: Non Research

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Investigator: Dr. Laveria F. Hutchison, 17.00%  
Cost Center: G091547 / 5013 / H0062 / C0001  
Title: Quality Teacher Recruitment and Assistance Consortium  
Agency: U.S. Department of Education  
Agency Code: HEW100  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2006  
Award Amount: \$79,806.50  
Type of Support: Grant for Research  
CFDA: 84.336 - A Guide for the Preparation of Partnership Grant  
CB Designation: Non Research

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Investigator: Dr. Allen R. Warner, 17.00%  
Cost Center: G091547 / 5013 / H0062 / C0001  
Title: Quality Teacher Recruitment and Assistance Consortium  
Agency: U.S. Department of Education  
Agency Code: HEW100  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2006  
Award Amount: \$79,806.50  
Type of Support: Grant for Research  
CFDA: 84.336 - A Guide for the Preparation of Partnership Grant  
CB Designation: Non Research

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**Received During September, 2005**

Investigator: Dr. Doris Williams-Smith, 100.00%  
Cost Center: G090283 / 5013 / H0062 / B0001  
Title: Mentoring and Induction Support for Urban Secondary Science and Mathematics Teachers  
Agency: University of Alabama at Birmingham  
Agency Code: 7UAB00  
Revenue Source Code: 800  
Duration: 8/15/2004 to 7/31/2006  
Award Amount: \$281,690.00  
Type of Support: Contract for Research  
CFDA: 47.076 - Education and Human Resources  
CB Designation: Restricted Research

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**Educational Leadership & Cultural Studies**

Investigator: Dr. Patricia E. Holland, 10.00%  
Cost Center: G088577 / 5016 / H0061 / B0001  
Title: Houston Schools for a New Society Evaluation Project  
Agency: University of Texas at Austin  
Agency Code: 1UTX00  
Revenue Source Code: 600  
Duration: 8/30/2003 to 10/31/2006  
Award Amount: \$13,120.60  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Joy Phillips, 80.00%  
Cost Center: G088577 / 5016 / H0061 / B0001  
Title: Houston Schools for a New Society Evaluation Project  
Agency: University of Texas at Austin  
Agency Code: 1UTX00  
Revenue Source Code: 600  
Duration: 8/30/2003 to 10/31/2006  
Award Amount: \$104,964.80  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Health and Human Performance**

Investigator: Dr. Mark Clarke, 100.00%  
Cost Center: G089710 / 5013 / H0065 / B0001  
Title: Development and Characterization of a Three-Dimensional Tissue Culture Model of Bone  
Agency: National Aeronautics and Space Administration - Johnson Space Center  
Agency Code: NAS300  
Revenue Source Code: 500  
Duration: 6/1/2004 to 5/31/2006  
Award Amount: \$16,000.00  
Type of Support: Grant for Research  
CFDA: 43.001 - Aerospace Education Services Program  
CB Designation: Restricted Research

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**Texas Center for University School Partnerships**

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

**Received During September, 2005**

Investigator: Dr. Michael Connell, 16.00%  
Cost Center: G091547 / 5013 / H0062 / C0001  
Title: Quality Teacher Recruitment and Assistance Consortium  
Agency: U.S. Department of Education  
Agency Code: HEW100  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2006  
Award Amount: \$75,112.00  
Type of Support: Grant for Research  
CFDA: 84.336 - A Guide for the Preparation of Partnership Grant  
CB Designation: Non Research

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Investigator: Dr. Laveria F. Hutchison, 16.00%  
Cost Center: G091547 / 5013 / H0062 / C0001  
Title: Quality Teacher Recruitment and Assistance Consortium  
Agency: U.S. Department of Education  
Agency Code: HEW100  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2006  
Award Amount: \$75,112.00  
Type of Support: Grant for Research  
CFDA: 84.336 - A Guide for the Preparation of Partnership Grant  
CB Designation: Non Research

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Investigator: Dr. Allen R. Warner, 17.00%  
Cost Center: G091547 / 5013 / H0062 / C0001  
Title: Quality Teacher Recruitment and Assistance Consortium  
Agency: U.S. Department of Education  
Agency Code: HEW100  
Revenue Source Code: 500  
Duration: 10/1/2005 to 9/30/2006  
Award Amount: \$79,806.50  
Type of Support: Grant for Research  
CFDA: 84.336 - A Guide for the Preparation of Partnership Grant  
CB Designation: Non Research

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**COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES**

**Psychology**

Investigator: Dr. H. Julia Hannay, 100.00%  
Cost Center: G091908 / 5021 / H0125 / B0001  
Title: Graduate Student Placement in the Field of Neuropsychology-Victoria Armstrong  
Agency: Matthew L. Nance, Ph.D.  
Agency Code: 3MLN00  
Revenue Source Code: 800  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$18,073.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**University of Houston**  
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**Traineeships, Fellowships, Equipment and Buildings**

**Received During September, 2005**

Investigator: Dr. H. Julia Hannay, 100.00%  
Cost Center: G091905 / 5021 / H0125 / B0001  
Title: Graduate Student Placement in the Field of Neuropsychology - Caryn Glosch  
Agency: John W. Largen, Ph.D.  
Agency Code: 3JWL00  
Revenue Source Code: 800  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$16,354.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

Investigator: Dr. H. Julia Hannay, 100.00%  
Cost Center: G091907 / 5021 / H0125 / B0001  
Title: Graduate Student Placement in the Field of Neuropsychology-Meyers  
Agency: University of Texas - Cancer Center (M.D. Anderson Hosp. & Tumor Inst.)  
Agency Code: 1UTX10  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$36,146.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

Investigator: Dr. H. Julia Hannay, 100.00%  
Cost Center: G091902 / 5021 / H0125 / B0001  
Title: Graduate Student Placement in the Field of Neuropsychology - Deepa Acharya  
Agency: Baylor College of Medicine  
Agency Code: 7BAY00  
Revenue Source Code: 800  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$16,353.75  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

**Sociology**

Investigator: Dr. Joseph A. Kotarba, 10.00%  
Cost Center: G088577 / 5016 / H0061 / B0001  
Title: Houston Schools for a New Society Evaluation Project  
Agency: University of Texas at Austin  
Agency Code: 1UTX00  
Revenue Source Code: 600  
Duration: 8/30/2003 to 10/31/2006  
Award Amount: \$13,120.60  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

**COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

**Biology/Biochemistry**

**University of Houston**  
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**New Grants and Continuation Awards for Research,**  
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**Received During September, 2005**

Investigator: Dr. James M. Briggs, 100.00%  
Cost Center: G092034 / 5015 / H0104 / B0001  
Title: Utilization of Antimicrobial Natural Products for the Management of Microorganisms in Spacecraft  
Agency: Texas Southern University  
Agency Code: 1TSU00  
Revenue Source Code: 600  
Duration: 6/16/2005 to 6/15/2006  
Award Amount: \$185,753.00  
Type of Support: Contract for Research  
CFDA: 43.000 - National Aeronautics and Space Administration  
CB Designation: Restricted Research

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Investigator: Dr. Dan E. Wells, 100.00%  
Cost Center: G090948 / 5022 / H0104 / B0100  
Title: MHE: Insights Into Pathogenesis  
Agency: March of Dimes  
Agency Code: 4MOD00  
Revenue Source Code: 800  
Duration: 9/1/2005 to 2/28/2006  
Award Amount: \$5,000.00  
Type of Support: Grant for Research  
CFDA:  
CB Designation: Non Restricted Research

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**Chemistry**

Investigator: Dr. Eric R. Bittner, 60.00%  
Cost Center: G088418 / 5013 / H0107 / B0001  
Title: Quantum Dynamics and Electronic Processes in Condensed Phase Systems  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 8/1/2004 to 7/31/2006  
Award Amount: \$66,000.00  
Type of Support: Grant for Research  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Restricted Research

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**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  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$15,387.00  
Type of Support: Grant for Research  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Restricted Research

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**Received During September, 2005**

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  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$15,387.00  
Type of Support: Grant for Research  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Restricted Research

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Investigator: Dr. Ilya Timofeyev, 100.00%  
Cost Center: G089473 / 5013 / H0110 / B0001  
Title: Numerical Strategies for Reduced Dynamics for Models of Geophysical Flows  
Agency: U.S. Department of Energy  
Agency Code: DOE000  
Revenue Source Code: 500  
Duration: 9/15/2004 to 9/14/2006  
Award Amount: \$33,846.00  
Type of Support: Grant for Research  
CFDA: 81.049 - Office of Energy Research Financial Assistance Program  
CB Designation: Restricted Research

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**Physics**

Investigator: Dr. Quark Y. Chen, 15.00%  
Cost Center: G089943 / 5013 / H0452 / B0001  
Title: Nano Vacancy Clusters and Trap Limited Diffusion of Si Interstitials in Silicon  
Agency: U.S. Department of Energy-Chicago Operations Office  
Agency Code: DOE116  
Revenue Source Code: 500  
Duration: 8/15/2005 to 8/14/2008  
Award Amount: \$59,677.80  
Type of Support: Grant for Research  
CFDA: 81.049 - Office of Energy Research Financial Assistance Program  
CB Designation: Restricted Research

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Investigator: Dr. Wei-Kan Chu, 15.00%  
Cost Center: G089943 / 5013 / H0452 / B0001  
Title: Nano Vacancy Clusters and Trap Limited Diffusion of Si Interstitials in Silicon  
Agency: U.S. Department of Energy-Chicago Operations Office  
Agency Code: DOE116  
Revenue Source Code: 500  
Duration: 8/15/2005 to 8/14/2008  
Award Amount: \$59,677.80  
Type of Support: Grant for Research  
CFDA: 81.049 - Office of Energy Research Financial Assistance Program  
CB Designation: Restricted Research

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**COLLEGE OF OPTOMETRY**

**Community Optometry**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During September, 2005**

Investigator: Dr. Alison McDermott, 100.00%  
Cost Center: G090653 / 5013 / H0114 / B0001  
Title: Defensins and Corneal Wound Healing  
Agency: National Eye Institute  
Agency Code: HEW402  
Revenue Source Code: 500  
Duration: 8/1/2005 to 7/31/2006  
Award Amount: \$361,456.00  
Type of Support: Grant for Research  
CFDA: 93.867 - Vision Research  
CB Designation: Restricted Research

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**COLLEGE OF PHARMACY**

**Clinical Sciences and Administration**

Investigator: Dr. Ekere Essien, 100.00%  
Cost Center: G088547 / 5013 / H0118 / B0001  
Title: Videotape-Based HIV Prevention Intervention  
Agency: National Institute of Mental Health  
Agency Code: HEW803  
Revenue Source Code: 500  
Duration: 8/20/2003 to 8/31/2006  
Award Amount: \$392,508.00  
Type of Support: Grant for Research  
CFDA: 93.859 - Pharmacology, Physiology, and Biological Chemistry  
CB Designation: Restricted Research

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**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  
Revenue Source Code: 500  
Duration: 9/1/2003 to 8/31/2006  
Award Amount: \$59,616.75  
Type of Support: Grant for Research  
CFDA: 93.859 - Pharmacology, Physiology, and Biological Chemistry  
CB Designation: Restricted Research

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**Pharmacological and Pharmaceutical Sciences**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
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**Received During September, 2005**

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  
Revenue Source Code: 500  
Duration: 9/1/2003 to 8/31/2006  
Award Amount: \$178,850.25  
Type of Support: Grant for Research  
CFDA: 93.859 - Pharmacology, Physiology, and Biological Chemistry  
CB Designation: Restricted Research

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**COLLEGE OF TECHNOLOGY**

**Engineering Technology**

Investigator: Dr. Wajiha Shireen, 100.00%  
Cost Center: G090847 / 5013 / H0139 / B0001  
Title: Development of a Modern DSP-Based Laboratory for Power Electronics Education  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$73,996.00  
Type of Support: Grant for Research  
CFDA: 47.076 - Education and Human Resources  
CB Designation: Restricted Research

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**CULLEN COLLEGE OF ENGINEERING**

**Center for Innovative Grouting Materials and Tech**

Investigator: Mr. Omer Bilgin, 10.00%  
Cost Center: G091407 / 5016 / H0069 / B0001  
Title: Predictions of Embankment Settlement Over Soft Soils  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$8,995.50  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**University of Houston**  
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**Received During September, 2005**

Investigator: Dr. Cumaraswamy Vipulanandan, 40.00%  
Cost Center: G091407 / 5016 / H0069 / B0001  
Title: Predictions of Embankment Settlement Over Soft Soils  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$35,982.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Cumaraswamy Vipulanandan, 80.00%  
Cost Center: G091587 / 5016 / H0069 / B0001  
Title: Continuous Auger Pile Bridge Foundation-Phase II  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$64,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Chemical Engineering**

Investigator: Dr. Vincent Donnelly, 20.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$59,228.40  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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Investigator: Dr. Demetre J. Economou, 20.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$59,228.40  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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**Civil Engineering**

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
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**Received During September, 2005**

Investigator: Mr. Omer Bilgin, 40.00%  
Cost Center: G091407 / 5016 / H0069 / B0001  
Title: Predictions of Embankment Settlement Over Soft Soils  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$35,982.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Theodore G. Cleveland, 100.00%  
Cost Center: G091655 / 5016 / H0068 / B0001  
Title: Regional Characteristics of Unit Hydrographs  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$25,004.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Theodore G. Cleveland, 50.00%  
Cost Center: G091659 / 5016 / H0068 / B0001  
Title: Guidance for Design in Areas of Extreme Bed-Load Mobility  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$47,484.50  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Reagan Herman, 100.00%  
Cost Center: G091577 / 5016 / H0068 / B0001  
Title: Effects of Thermal Loads on Texas Steel Bridges  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$60,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**University of Houston**  
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**Received During September, 2005**

Investigator: Dr. Thomas T. C. Hsu, 50.00%  
Cost Center: G091575 / 5016 / H0068 / B0001  
Title: Rational Shear Provisions for AASHTO LRFD Specifications  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$73,117.50  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

Investigator: Dr. Yi-Lung Mo, 50.00%  
Cost Center: G091575 / 5016 / H0068 / B0001  
Title: Rational Shear Provisions for AASHTO LRFD Specifications  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$73,117.50  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

Investigator: Dr. Cumaraswamy Vipulanandan, 10.00%  
Cost Center: G091407 / 5016 / H0069 / B0001  
Title: Predictions of Embankment Settlement Over Soft Soils  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$8,995.50  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

Investigator: Dr. Cumaraswamy Vipulanandan, 20.00%  
Cost Center: G091587 / 5016 / H0069 / B0001  
Title: Continuous Auger Pile Bridge Foundation-Phase II  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$16,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During September, 2005**

Investigator: Dr. Keh-Han Wang, 50.00%  
Cost Center: G091659 / 5016 / H0068 / B0001  
Title: Guidance for Design in Areas of Extreme Bed-Load Mobility  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$47,484.50  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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**Dean, Engineering**

Investigator: Dr. Gerhard F. Paskusz, 100.00%  
Cost Center: G090913 / 5021 / H0066 / C0001  
Title: Mentoring and Enrichment Seminar in Engineering Training (MESET)  
Agency: Texas Alliance for Minorities in Engineering, Inc.  
Agency Code: 4TAE00  
Revenue Source Code: 800  
Duration: 9/1/2004 to 12/31/2005  
Award Amount: \$5,800.00  
Type of Support: Contract for Public Service  
CFDA:  
CB Designation: Non Research

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**Electrical Engineering**

Investigator: Dr. Xuemin Chen, 25.00%  
Cost Center: G091421 / 5016 / H0070 / B0001  
Title: Nanotechnology Synthesis Study  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$27,750.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Xuemin Chen, 25.00%  
Cost Center: G091467 / 5016 / H0070 / B0001  
Title: The Evaluation of a System for Measuring Seal Coat Quality  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$25,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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

**Received During September, 2005**

Investigator: Dr. Jing Li, 25.00%  
Cost Center: G091421 / 5016 / H0070 / B0001  
Title: Nanotechnology Synthesis Study  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$27,750.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

---

Investigator: Dr. Jing Li, 25.00%  
Cost Center: G091467 / 5016 / H0070 / B0001  
Title: The Evaluation of a System for Measuring Seal Coat Quality  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$25,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Dmitri Litvinov, 10.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$29,614.20  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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Investigator: Dr. C. Richard Liu, 50.00%  
Cost Center: G090988 / 5013 / H0070 / B0001  
Title: Collaborative Research: Role of Neuronal Activity in Visually Guided Escape Behaviors  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$103,570.50  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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

**Received During September, 2005**

Investigator: Dr. C. Richard Liu, 50.00%  
Cost Center: G091421 / 5016 / H0070 / B0001  
Title: Nanotechnology Synthesis Study  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$55,500.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. C. Richard Liu, 50.00%  
Cost Center: G091467 / 5016 / H0070 / B0001  
Title: The Evaluation of a System for Measuring Seal Coat Quality  
Agency: Texas Department of Transportation  
Agency Code: 1DOT00  
Revenue Source Code: 600  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$50,000.00  
Type of Support: Contract for Research  
CFDA:  
CB Designation: Restricted Research

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Investigator: Dr. Paul Ruchhoeft, 10.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$29,614.20  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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Investigator: Dr. John C. Wolfe, 10.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$29,614.20  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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

**Received During September, 2005**

Investigator: Dr. John C. Wolfe, 50.00%  
Cost Center: G090988 / 5013 / H0070 / B0001  
Title: Collaborative Research: Role of Neuronal Activity in Visually Guided Escape Behaviors  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$103,570.50  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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**Industrial Engineering**

**Nanosystem Manufacturing Center**

Investigator: Dr. Dmitri Litvinov, 10.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$29,614.20  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

---

Investigator: Dr. Paul Ruchhoeft, 10.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$29,614.20  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

---

Investigator: Dr. John C. Wolfe, 10.00%  
Cost Center: G091102 / 5013 / H0070 / B0001  
Title: MRI: Development of an Energetic Atom Beam Lithography System for Nanosystem Prototyping and  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2008  
Award Amount: \$29,614.20  
Type of Support: Grant for Research  
CFDA: 47.041 - Engineering Grants  
CB Designation: Restricted Research

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**Texas Manufacturing Assistance Center**

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

**Received During September, 2005**

**DIVISION OF RESEARCH**

**Center for Materials Chemistry**

Investigator: Dr. Eric R. Bittner, 40.00%  
Cost Center: G088418 / 5013 / H0107 / B0001  
Title: Quantum Dynamics and Electronic Processes in Condensed Phase Systems  
Agency: National Science Foundation  
Agency Code: NSF000  
Revenue Source Code: 500  
Duration: 8/1/2004 to 7/31/2006  
Award Amount: \$44,000.00  
Type of Support: Grant for Research  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Restricted Research

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**TcSUH**

Investigator: Dr. Quark Y. Chen, 35.00%  
Cost Center: G089943 / 5013 / H0452 / B0001  
Title: Nano Vacancy Clusters and Trap Limited Diffusion of Si Interstitials in Silicon  
Agency: U.S. Department of Energy-Chicago Operations Office  
Agency Code: DOE116  
Revenue Source Code: 500  
Duration: 8/15/2005 to 8/14/2008  
Award Amount: \$139,248.20  
Type of Support: Grant for Research  
CFDA: 81.049 - Office of Energy Research Financial Assistance Program  
CB Designation: Restricted Research

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Investigator: Dr. Wei-Kan Chu, 35.00%  
Cost Center: G089943 / 5013 / H0452 / B0001  
Title: Nano Vacancy Clusters and Trap Limited Diffusion of Si Interstitials in Silicon  
Agency: U.S. Department of Energy-Chicago Operations Office  
Agency Code: DOE116  
Revenue Source Code: 500  
Duration: 8/15/2005 to 8/14/2008  
Award Amount: \$139,248.20  
Type of Support: Grant for Research  
CFDA: 81.049 - Office of Energy Research Financial Assistance Program  
CB Designation: Restricted Research

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**Texas Learning/Computation Center**

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  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$10,258.00  
Type of Support: Grant for Research  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During September, 2005**

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  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$10,258.00  
Type of Support: Grant for Research  
CFDA: 47.049 - Mathematical and Physical Sciences  
CB Designation: Restricted Research

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**GRADUATE SCHOOL OF SOCIAL WORK**

**Community Projects - Social Work**

Investigator: Dr. Avelardo Valdez, 100.00%  
Cost Center: G086666 / 5013 / H0130 / B0001  
Title: Proyecto Safe: San Antonio Family Enhancement  
Agency: Substance Abuse and Mental Health Services Administration  
Agency Code: HEW805  
Revenue Source Code: 500  
Duration: 9/30/2002 to 9/29/2006  
Award Amount: \$499,789.00  
Type of Support: Grant for Research  
CFDA: 93.244 - Mental Health Clinical and Aids Service-Related Training  
CB Designation: Restricted Research

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Investigator: Dr. Avelardo Valdez, 100.00%  
Cost Center: G091697 / 5013 / H0130 / B0001  
Title: Hispanic Heroin User, Transitions to Injecting and HIV - Supplement  
Agency: National Institute on Drug Abuse  
Agency Code: HEW802  
Revenue Source Code: 500  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$45,047.00  
Type of Support: Grant for Research  
CFDA: 93.279 - Drug Abuse Research Programs  
CB Designation: Restricted Research

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Investigator: Dr. Avelardo Valdez, 100.00%  
Cost Center: G085620 / 5013 / H0130 / B0001  
Title: Hispanic Herion users, Transitions to Injecting and HIV  
Agency: National Institute on Drug Abuse  
Agency Code: HEW802  
Revenue Source Code: 500  
Duration: 10/2/2001 to 8/31/2006  
Award Amount: \$385,968.00  
Type of Support: Grant for Research  
CFDA: 93.279 - Drug Abuse Research Programs  
CB Designation: Restricted Research

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**University of Houston**  
**Division of Research**  
**New Grants and Continuation Awards for Research,**  
**Traineeships, Fellowships, Equipment and Buildings**  
**Received During September, 2005**

**LAW CENTER**

**Law**

Investigator: Dr. Peter Hoffman, 100.00%  
Cost Center: G091465 / 5022 / H0099 / C0001  
Title: Crime Victims Legal Services Program (CVCLS)  
Agency: Texas Equal Access to Justice Foundation  
Agency Code: 6TEA00  
Revenue Source Code: 800  
Duration: 9/1/2005 to 8/31/2006  
Award Amount: \$30,000.00  
Type of Support: Grant for Research  
CFDA:  
CB Designation: Non Research

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<b>Total Federal</b>	<b>\$3,578,952.00</b>
<b>Total State</b>	<b>\$1,060,268.00</b>
<b>Total Local</b>	<b>\$0.00</b>
<b>Total Other</b>	<b>\$860,145.75</b>
<b>TOTAL THIS MONTH</b>	<b>\$5,499,365.75</b>