### UNIVERSITY OF HOUSTON

## **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES**

**Arte Publico Press** 

Investigator: Kanellos, Nicolas Dr. 100%

**Award Amount:** \$2,250.00

Cost Center: 00730 / 5017 / H0093 / C0001 / G104028 / 50393

Agency: Texas Commission on the Arts

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 9/1/2011 to 8/31/2012

CFDA:

CB Designation: Non Research
Project Type: Grant - Public Service

Project Title: TCA Education - Arts Respond Project

**Psychology** 

**Investigator:** Barr, Christopher Dr. 20%

**Award Amount:** \$23,805.60

Cost Center: 00730 / 5013 / H0288 / B0001 / G104840 / 50228

Agency: Center for Applied Linguistics

Pass\_Thru Agency: National Institute of Child Health and Human Development

Agency Type: FEDERAL

**Duration:** 12/1/2011 to 5/31/2012

**CFDA:** 93.865 Center for Research for Mothers and Children

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: CAL Core Research: Test Development

Investigator: Norton, Peter Dr. 50%

**Award Amount:** \$112,312.50

Cost Center: 00730 / 5013 / H0125 / B0001 / G103471 / 50390

Agency: National Institute on Drug Abuse

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 3/1/2012 to 2/28/2013

**CFDA:** 93.279 Drug Abuse Research Programs

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: Augmenting Smoking Cessation with Transdiagnostic CBT for Smokers with Anxiety

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### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES**

**Psychology** 

Investigator: Sharp, Carla Dr. 100%

**Award Amount:** \$1,500.00

Cost Center: 00730 / 5021 / H0125 / B0001 / G101988 / 47486

Agency: The Menninger Clinic

Pass\_Thru Agency:

Agency Type: NON PROFIT

**Duration:** 9/1/2010 to 8/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Development of Personality and Other Disorders in Adolescents -Carolyn Ha and Chastity Farr Student Placements

Investigator: Tolar, Tammy Dr. 20%

**Award Amount:** \$21,588.40

Cost Center: 00730 / 5013 / H0288 / B0001 / G101357 / 48101

Agency: National Institute of Child Health and Human Development

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/1/2011 to 1/31/2013

**CFDA:** 93.865 Center for Research for Mothers and Children

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: Predictors of Growth in Algebra Achievement in Adolescents

Investigator: Zvolensky, Michael Dr. 50%

Award Amount: \$112,312.50

Cost Center: 00730 / 5013 / H0125 / B0001 / G103471 / 50390

Agency: National Institute on Drug Abuse

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 3/1/2012 to 2/28/2013

CFDA: 93.279 Drug Abuse Research Programs

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Augmenting Smoking Cessation with Transdiagnostic CBT for Smokers with Anxiety

### UNIVERSITY OF HOUSTON

## **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

Biology/Biochemistry

Investigator: Widger, William R. Dr. 5%

**Award Amount:** \$15,000.00

Cost Center: 00730 / 5043 / H0546 / B0001 / G104276 / 49700

**Agency:** Johns Hopkins University

Pass\_Thru Agency: Defense Threat Reduction Agency

Agency Type: FEDERAL

**Duration**: 9/14/2011 to 9/30/2013

CFDA: 12.300 Basic and Applied Scientific Research

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Support for Geo-temporal Infection Awareness (GIA) Advanced Technology Demonstration Project

Investigator: Gunaratne, Preethi Dr. 100%

Award Amount: \$32,682.00

Cost Center: 00730 / 5013 / H0104 / B0001 / G101280 / 48733

Agency: Wayne State University

Pass\_Thru Agency: National Institute of General Medical Sciences

Agency Type: FEDERAL

**Duration**: 1/1/2011 to 12/31/2012

CFDA: 93.862 Genetics and Developmental Biology Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Small RNA and whole chromosome recognition

Investigator: Gunaratne, Preethi Dr. 100%

**Award Amount:** \$84,210.00

Cost Center: 00730 / 5021 / H0104 / B0001 / G105085 / 50444

Agency: Baylor College of Medicine

Pass\_Thru Agency: Cancer Prevention and Research Institute of Texas

Agency Type: STATE

**Duration**: 12/1/2011 to 11/30/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: DNA methyltransferase 3B in normal and malignant hematopoiesis

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# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

Center for Nuclear Receptors and Cell Signaling

Investigator: Zhang, Xiaoliu Dr. 100%

Award Amount: \$218,246.00

Cost Center: 00730 / 5013 / H0515 / B0001 / G099897 / 45067

Agency: National Cancer Institute

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration**: 9/11/2009 to 2/28/2013

CFDA: 93.395 Cancer Treatment Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Strategies to Enhance Virotherapy for Breast Cancer

Investigator: Frigo, Daniel Dr. 100%

Award Amount: \$20,000.00

Cost Center: 00730 / 5021 / H0515 / B0001 / G104275 / 50445

Agency: Golfers Against Cancer

Pass\_Thru Agency:

Agency Type: NON PROFIT

**Duration:** 1/1/2012 to 1/31/2013

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Development of a CaMKKß-Selective Antagonist for the Treatment of Advanced Prostate Cancer

#### Chemistry

Investigator: Halasyamani, Shiv Dr. 100%

**Award Amount:** \$10,000.00

Cost Center: 00730 / 5013 / H0107 / B0001 / G101543 / 49524

Agency: U.S. Army Research Office

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 8/1/2011 to 4/30/2012

CFDA: 12.431 Basic Scientific Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Advanced Functional Inorganic Materials: Geometric Ferroelectrics with Multi-Ferroic Applications - Design, Synthesis,

and Characterization of New Mixed-Metal Fluorides

### UNIVERSITY OF HOUSTON

#### **Division of Research**

## New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

**Computer Science** 

Investigator: Johnsson, S. Lennart Dr. 16.5%

**Award Amount:** \$30,525.00

**Cost Center:** 00730 / 5016 / H0429 / B0001 / G101386 / 46202

Agency: Texas Commission on Environmental Quality

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 3/16/2010 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Ozone and Carbon Monoxide Monitor Operation, University of Houston Sites

**Investigator:** Fofanov, Yuriy Dr. 45%

Award Amount: \$135,000.00

Cost Center: 00730 / 5043 / H0546 / B0001 / G104276 / 49700

Agency: Johns Hopkins University

Pass\_Thru Agency: Defense Threat Reduction Agency

Agency Type: FEDERAL

**Duration:** 9/14/2011 to 9/30/2013

CFDA: 12.300 Basic and Applied Scientific Research

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Support for Geo-temporal Infection Awareness (GIA) Advanced Technology Demonstration Project

#### Geosciences

Investigator: Stewart, Robert Dr. 100%

**Award Amount:** \$45,000.00

Cost Center: 00730 / 5022 / H0109 / B0001 / G099988 / 45029

Agency: Various Private Profit Agencies

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration**: 9/1/2009 to 8/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Allied Geophysical Laboratories (AGL) Consortium: Full-wave Seismic Exploration for Reservoir Lithologies and Fluids

From Lab to Oilfield

### UNIVERSITY OF HOUSTON

## **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

Geosciences

Investigator: Murphy, Michael Dr. 100%

**Award Amount:** \$33,901.00

Cost Center: 00730 / 5022 / H0109 / B0001 / G104882 / 50410

Agency: Shell International Exploration and Production Inc.

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 1/1/2012 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Fault evaluation with emphasis on correlative relationships between architectural elements at eolian sandstone/shale

juxtapositions in outcrop along the Cañones Fault, Northern New Mexico: Implications for fluid flow and deformation

processes.

Investigator: Wang, Guoquan Dr. 33%

Award Amount: \$20,724.66

Cost Center: 00730 / 5022 / H0109 / B0001 / G104437 / 49952

Agency: Shell Oil Company

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 11/1/2011 to 8/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Oblique Lidar/Photo Scanning and Construction of Virtual Outcrop: Ferron Sandstone Member, Nielson Wash, Utah

Investigator: Bhattacharya, Janok Dr. 34%

Award Amount: \$21,352.68

Cost Center: 00730 / 5022 / H0109 / B0001 / G104437 / 49952

Agency: Shell Oil Company

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration**: 11/1/2011 to 8/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Oblique Lidar/Photo Scanning and Construction of Virtual Outcrop: Ferron Sandstone Member, Nielson Wash, Utah

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

Geosciences

Investigator: Bhattacharya, Janok Dr. 100%

**Award Amount:** \$35,000.00

Cost Center: 00730 / 5022 / H0109 / B0001 / G094776 / 40027

Agency: Various Private Profit Agencies

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 1/1/2007 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Quantitative Sedimentology Research Consortium

Investigator: Khan, Shuhab Dr. 33%

Award Amount: \$20,724.66

Cost Center: 00730 / 5022 / H0109 / B0001 / G104437 / 49952

Agency: Shell Oil Company

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 11/1/2011 to 8/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Oblique Lidar/Photo Scanning and Construction of Virtual Outcrop: Ferron Sandstone Member, Nielson Wash, Utah

**Investigator:** Lefer, Barry Dr. 16%

**Award Amount:** \$29,600.00

Cost Center: 00730 / 5016 / H0429 / B0001 / G101386 / 46202

Agency: Texas Commission on Environmental Quality

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 3/16/2010 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Ozone and Carbon Monoxide Monitor Operation, University of Houston Sites

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

Geosciences

Investigator: Rappenglueck, Bernhard Dr. 16%

Award Amount: \$29,600.00

**Cost Center:** 00730 / 5016 / H0429 / B0001 / G101386 / 46202

Agency: Texas Commission on Environmental Quality

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 3/16/2010 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Ozone and Carbon Monoxide Monitor Operation, University of Houston Sites

Investigator: Brandon, Alan Dr. 100%

**Award Amount:** \$100,000.00

Cost Center: 00730 / 5013 / H0109 / B0001 / G101620 / 50430

Agency: NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 1/4/2012 to 1/3/2015

**CFDA:** 43.001 Aerospace Education Services Program

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Isotopic Investigations of Planetary and Solar System Materials

Investigator: Lapen, Thomas Dr. 100%

Award Amount: \$63,549.00

Cost Center: 00730 / 5013 / H0109 / B0001 / G102229 / 48586

Agency: NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/23/2011 to 2/22/2014

**CFDA:** 43.001 Aerospace Education Services Program

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Coupled Lu-Hf and Sm-Nd isotopic studies of Martian meteorites: constraints on crystallization ages and source

compositions

## **UNIVERSITY OF HOUSTON**

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

#### Institute for Multidimensional Air Quality Studies

Investigator: Rappenglueck, Bernhard Dr. 17%

**Award Amount:** \$31,450.00

Cost Center: 00730 / 5016 / H0429 / B0001 / G101386 / 46202

Agency: Texas Commission on Environmental Quality

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 3/16/2010 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Ozone and Carbon Monoxide Monitor Operation, University of Houston Sites

**Investigator:** Lefer, Barry Dr. 18%

**Award Amount:** \$33,300.00

Cost Center: 00730 / 5016 / H0429 / B0001 / G101386 / 46202

Agency: Texas Commission on Environmental Quality

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 3/16/2010 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Ozone and Carbon Monoxide Monitor Operation, University of Houston Sites

#### **Physics**

Investigator: Cheung, Margaret Dr. 100%

**Award Amount:** \$4,000.00

 $\textbf{Cost Center:} \quad 00730 \ / \ 5013 \ / \ H0112 \ / \ B0001 \ / \ G104993 \ / \ 50570$ 

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 3/7/2012 to 6/30/2013 **CFDA:** 47.074 Biological Sciences

CB Designation: Restricted Research

Project Type: Grant - Research

Project Title: Supplement: Effects of macromolecular crowding on protein structure, folding, and interactions

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## **Division of Research**

## New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

**Physics** 

Investigator: Weglein, Arthur Dr. 100%

Award Amount: \$198,800.00

Cost Center: 00730 / 5022 / H0112 / B0001 / G094786 / 40040

Agency: Various Private Profit Agencies

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 1/1/2007 to 12/31/2014

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Mission-Oriented Seismic Research Program

Investigator: Cheung, Margaret Dr. 60%

Award Amount: \$58,800.00

Cost Center: 00730 / 5014 / H0112 / B0001 / G104626 / 50433

Agency: Texas Higher Education Coordinating Board

Pass\_Thru Agency: U.S. Department of Education

Agency Type: FEDERAL

**Duration:** 2/1/2012 to 4/30/2013

CFDA: 84.367 Improving Teacher Quality State Grants

CB Designation: Non Restricted Research
Project Type: Grant - Research

Project Title: Teaching High School Physics Using Inquiry

#### **COLLEGE OF OPTOMETRY**

#### Optometry, Community

Investigator: Nichols, Jason Dr. 50%

Award Amount: \$19,231.00

Cost Center: 00730 / 5022 / H0114 / B0001 / G104976 / 50408

**Agency:** Johnson & Johnson Visual Care Division

Pass\_Thru Agency:

**Agency Type:** PROFIT

**Duration**: 2/27/2012 to 4/30/2012

CFDA:

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: JJVCI CR-005180-Evaluation of Senofilcon A and Comfilcon A in a Population of Unilateral Astigmats, Part 2

### UNIVERSITY OF HOUSTON

## **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF OPTOMETRY**

Optometry, Community

Investigator: Bergmanson, Jan P. G. Dr. 100%

**Award Amount:** \$100,000.00

Cost Center: 00730 / 5022 / H0114 / B0001 / G099822 / 45027

Agency: Cooper Vision, Inc.

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration**: 8/3/2009 to 8/31/2013

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Clinical Evaluation of Silicone Hydrogel (SiHy) Contact Lenses CV-09-23

Investigator: Smith III, Earl L. Dr. 100%

**Award Amount:** \$105,030.00

Cost Center: 00730 / 5021 / H0114 / B0001 / G090297 / 35093

Agency: Brien Holden Vision Institute

Pass\_Thru Agency:

Agency Type: UNIVERSITY

**Duration:** 6/1/2004 to 6/30/2015

CFDA:

CB Designation: Restricted Research

Project Type: Special Research Agreement - Research

**Project Title:** Optical Intervention

Investigator: Applegate, Raymond Dr. 100%

Award Amount: \$356,400.00

Cost Center: 00730 / 5013 / H0114 / B0001 / G097469 / 44149

Agency: National Eye Institute

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 4/1/2009 to 3/31/2013 **CFDA:** 93.867 Vision Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Optical Aberration and Visual Performance for Highly Aberrated Eyes

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **COLLEGE OF OPTOMETRY**

Optometry, Community

Investigator: Pass, Anastas F. Dr. 100%

**Award Amount:** \$32,798.00

Cost Center: 00730 / 5043 / H0114 / B0001 / G105090 / 50721

Agency: Wyle Science Technology and Engineering Group

Pass\_Thru Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center

Agency Type: FEDERAL

**Duration:** 3/12/2012 to 6/30/2012

CFDA: 43.000 National Aeronautics and Space Administration

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: NASA-Phase I SD-OCT Analysis of The Optic Nerve Head and Surrounding Structures in Long Duration ISS Crew

Members

Investigator: Berntsen, David Dr. 50%

Award Amount: \$19,231.00

Cost Center: 00730 / 5022 / H0114 / B0001 / G104976 / 50408

Agency: Johnson & Johnson Visual Care Division

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 2/27/2012 to 4/30/2012

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: JJVCI CR-005180-Evaluation of Senofilcon A and Comfilcon A in a Population of Unilateral Astigmats, Part 2

#### **CULLEN COLLEGE OF ENGINEERING**

#### **Biomedical Engineering**

Investigator: Gifford, Howard 100%

**Award Amount:** \$187,077.00

Cost Center: 00730 / 5013 / H0071 / B0001 / G104982 / 50380

Agency: National Institute of Biomedical Imaging and Bioengineering

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 11/1/2011 to 2/28/2013

**CFDA:** 93.286 Biomedical Imaging Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Feasibility of Multipinhole SPECT for Prostate Imaging

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### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Biomedical Engineering** 

Investigator: Gifford, Howard 100%

Award Amount: \$432,390.00

Cost Center: 00730 / 5013 / H0071 / B0001 / G105040 / 50466

Agency: National Institute of Biomedical Imaging and Bioengineering

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 11/1/2011 to 8/31/2012

CFDA: 93.286 Biomedical Imaging Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Reliable Human-Model Observers for Emission Tomography

Investigator: Akay, Metin Dr. 100%

**Award Amount:** \$50,000.00

Cost Center: 00730 / 5013 / H0071 / B0001 / G104825 / 50222

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

Duration: 5/1/2012 to 4/30/2013

CFDA: 47.041 Engineering Grants

CB Designation: Non Restricted Research

Project Type: Grant - Research

Project Title: Advanced Study Institute on Global Healthcare Grand Challenges and Opportunities, July 15-30, 2012, Antalya,

Turkey

Investigator: Akay, Metin Dr. 100%

Award Amount: \$50,000.00

Cost Center: 00730 / 5013 / H0071 / B0100 / G104775 / 50166

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 5/1/2012 to 4/30/2014

CFDA: 47.079 International Science and Engineering (OISE)

CB Designation: Non Restricted Research
Project Type: Grant - Research

Project Title: International Summer School on Biocomplexity from Gene to System Summer School Istanbul, Turkey on July 1-7,

2012 and 2013

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## **Division of Research**

## New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Chemical Engineering** 

Investigator: Harold, Michael Dr. 40%

**Award Amount:** \$44,000.00

Cost Center: 00730 / 5013 / H0067 / B0001 / G098356 / 45303

Agency: U.S. Department of Energy - National Energy Technology Laboratory

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 9/21/2009 to 9/20/2012

CFDA: 81.117 Energy Efficiency and Renewable Engery Information Dissemination, Outreach, Training and Technical An

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Development of Optimal Catalyst Designs and Operating Strategies for Lean NOx Reduction in Coupled LNT-SCR

Systems

Investigator: Luss, Dan Dr. 30%

Award Amount: \$33,000.00

Cost Center: 00730 / 5013 / H0067 / B0001 / G098356 / 45303

Agency: U.S. Department of Energy - National Energy Technology Laboratory

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 9/21/2009 to 9/20/2012

CFDA: 81.117 Energy Efficiency and Renewable Engery Information Dissemination, Outreach, Training and Technical An

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Development of Optimal Catalyst Designs and Operating Strategies for Lean NOx Reduction in Coupled LNT-SCR

Systems

Investigator: Nikolaou, Michael Dr. 100%

Award Amount: \$30,000.00

Cost Center: 00730 / 5022 / H0067 / B0001 / G104506 / 50412

Agency: Halliburton Energy Services

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration**: 11/1/2011 to 8/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Optimization methods for development of unconventional resources

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## **Division of Research**

## New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Chemical Engineering** 

Investigator: Balakotaiah, Vemuri Dr. 30%

**Award Amount:** \$33,000.00

Cost Center: 00730 / 5013 / H0067 / B0001 / G098356 / 45303

Agency: U.S. Department of Energy - National Energy Technology Laboratory

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 9/21/2009 to 9/20/2012

CFDA: 81.117 Energy Efficiency and Renewable Engery Information Dissemination, Outreach, Training and Technical An

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Development of Optimal Catalyst Designs and Operating Strategies for Lean NOx Reduction in Coupled LNT-SCR

Systems

Investigator: Stein, Gila Dr. 100%

**Award Amount:** \$100,000.00

Cost Center: 00730 / 5013 / H0067 / B0001 / G104102 / 50569

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration**: 6/1/2012 to 5/31/2017

CFDA: 47.049 Mathematical and Physical Sciences

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: CAREER: Controlling the Morphology of Polymer/Fullerene Solar Cells

**Investigator:** Vekilov, Peter Dr. 100%

Award Amount: \$7,000.00

Cost Center: 00730 / 5013 / H0107 / B0001 / G105027 / 50611

**Agency:** National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 3/13/2012 to 1/31/2013 **CFDA:** 47.074 Biological Sciences

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Supplement: Mesoscopic Aggregation of Folded Proteins

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Civil Engineering** 

**Investigator:** Ayoub, Ashraf Dr. 60%

**Award Amount:** \$3,600.00

Cost Center: 00730 / 5013 / H0068 / B0001 / G105041 / 50418

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/18/2012 to 12/31/2013 **CFDA:** 47.041 Engineering Grants

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: REU SUPPLEMENT: Establishing the Shear Constitutive Laws of FRP-Strengthened Concrete Elements

Investigator: Glennie, Craig Dr. 100%

**Award Amount:** \$20,000.00

Cost Center: 00730 / 5013 / H0068 / B0001 / G102688 / 50165

Agency: Oregon State University

Pass\_Thru Agency: U.S. Department of Transportation

Agency Type: FEDERAL

**Duration**: 9/14/2011 to 3/14/2013

CFDA: 20.701 University Centers Transportation Program

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Guidelines for the use of mobile LIDAR in transportation applications

Investigator: Strom, Kyle Dr. 100%

**Award Amount:** \$40,000.00

Cost Center: 00730 / 5017 / H0068 / B0001 / G104620 / 50301

Agency: Texas Water Development Board

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 1/1/2012 to 7/1/2013

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Suspended Sediment Sampling and Annual Sediment Yield on the Middle Trinity River

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Civil Engineering** 

Investigator: Strom, Kyle Dr. 100%

**Award Amount:** \$10,062.00

Cost Center: 00730 / 5021 / H0068 / B0001 / G104582 / 50517

Agency: Texas EcoLab

Pass\_Thru Agency:

Agency Type: NON PROFIT

**Duration:** 1/1/2012 to 12/31/2013

CFDA:

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Geomorphology of ephemeral streams in the flash-flood prone Texas Hill Country - Phase II

Investigator: Mo, Yi-Lung Dr. 35%

**Award Amount:** \$13,162.10

Cost Center: 00730 / 5022 / H0073 / B0001 / G104457 / 50582

Agency: Cameron

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 10/1/2011 to 3/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Durability Study of a New Damper for Jumper Vibration Control - Phase 3 Proposal

Investigator: Rifai, Hanadi Dr. 100%

Award Amount: \$200,000.00

**Cost Center:** 00730 / 5014 / H0068 / B0001 / G105103 / 50564

Agency: Texas Commission on Environmental Quality
Pass\_Thru Agency: National Environmental Protection Agency

Agency Type: FEDERAL

**Duration**: 2/27/2012 to 8/31/2012

CFDA: 66.419 Water Polution Control - State and Interstate Program Support

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: In Situ Remediation of Legacy Pollutants in Texas Aquatic Systems

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Civil Engineering** 

Investigator: Belarbi, Abdeldjelil Dr. 40%

**Award Amount:** \$2,400.00

Cost Center: 00730 / 5013 / H0068 / B0001 / G105041 / 50418

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/18/2012 to 12/31/2013 **CFDA:** 47.041 Engineering Grants

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: REU SUPPLEMENT: Establishing the Shear Constitutive Laws of FRP-Strengthened Concrete Elements

#### **Electrical & Computer Engineering**

Investigator: Contreras-Vidal, Jose Dr. 100%

Award Amount: \$16,000.00

Cost Center: 00730 / 5013 / H0070 / B0001 / G105005 / 50421

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/24/2012 to 5/31/2015

CFDA: 47.070 Computer and Information Science and Engineering (CISE)

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: REU SUPPLEMENT: HCC:Medium: Collaborative Research: Improved Control and Sensory Feedback for

Neuroprosthetics

Investigator: Contreras-Vidal, Jose Dr. 100%

**Award Amount:** \$280,143.00

Cost Center: 00730 / 5013 / H0070 / B0001 / G105004 / 50465

Agency: National Institute of Neurological Disorders and Stroke

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 11/1/2011 to 6/30/2012

**CFDA:** 93.853 Clinical Research Related to Neurological Disorders

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Noninvasive Neural Decoding of Walking

### UNIVERSITY OF HOUSTON

#### **Division of Research**

## New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Electrical & Computer Engineering** 

Investigator: Han, Zhu Dr. 100%

**Award Amount:** \$80,000.00

Cost Center: 00730 / 5013 / H0070 / B0001 / G099651 / 45949

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 3/1/2010 to 2/28/2015

CFDA: 47.070 Computer and Information Science and Engineering (CISE)

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: CAREER: Mutual Benefit in Cognitive Radio Networks: A Coalitional Game Framework

Investigator: Han, Zhu Dr. 100%

**Award Amount:** \$16,000.00

Cost Center: 00730 / 5013 / H0070 / B0001 / G105055 / 50565

Agency: National Science Foundation

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 3/8/2012 to 2/28/2015

CFDA: 47.070 Computer and Information Science and Engineering (CISE)

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: REU supplemental funding for "CAREER: Mutual Benefit in Cognitive Radio Networks: A Coalitional Game

Framework"

#### **Mechanical Engineering**

**Investigator:** Masson, Philippe Dr. 100%

**Award Amount:** \$220,000.00

Cost Center: 00730 / 5013 / H0073 / B0001 / G104743 / 50113

Agency: Advanced Magnet Lab

Pass\_Thru Agency: NASA - National Aeronautics and Space Administration - Glenn Research Center

Agency Type: FEDERAL

**Duration:** 1/16/2012 to 6/7/2014

CFDA: 43.A90 Superconductivity Research

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: High Fidelity Sizing Model for Superconducting Rotating Machines for Turbo-Electric Propulsion Design

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **CULLEN COLLEGE OF ENGINEERING**

**Mechanical Engineering** 

Investigator: Song, Gangbing Dr. 65%

**Award Amount:** \$24,443.90

Cost Center: 00730 / 5022 / H0073 / B0001 / G104457 / 50582

Agency: Cameron

Pass\_Thru Agency:

Agency Type: PROFIT

**Duration:** 10/1/2011 to 3/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Durability Study of a New Damper for Jumper Vibration Control - Phase 3 Proposal

Investigator: Selvamanickam, Venkat Dr. 60%

**Award Amount:** \$1,148,505.60

Cost Center: 00730 / 5013 / H0073 / B0001 / G104069 / 50171

Agency: U.S. Department of Energy

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 1/1/2012 to 9/30/2013

CFDA: 81.135 Advanced Research and Projects Agency - Energy Financial

CB Designation: Restricted Research

**Project Type:** Co-Op Agreement - Research

Project Title: High Performance, Low Cost Superconducting Wires and Coils for High Power Wind Generators

#### **DIVISION OF RESEARCH**

#### Center for Biomedical & Environmental Genomics

Investigator: Fofanov, Yuriy Dr. 45%

**Award Amount:** \$135,000.00

Cost Center: 00730 / 5043 / H0546 / B0001 / G104276 / 49700

**Agency:** Johns Hopkins University

Pass\_Thru Agency: Defense Threat Reduction Agency

Agency Type: FEDERAL

**Duration**: 9/14/2011 to 9/30/2013

CFDA: 12.300 Basic and Applied Scientific Research

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Support for Geo-temporal Infection Awareness (GIA) Advanced Technology Demonstration Project

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **DIVISION OF RESEARCH**

#### **Center for Biomedical & Environmental Genomics**

Investigator: Widger, William R. Dr. 5%

**Award Amount:** \$15,000.00

Cost Center: 00730 / 5043 / H0546 / B0001 / G104276 / 49700

Agency: Johns Hopkins University

Pass\_Thru Agency: Defense Threat Reduction Agency

Agency Type: FEDERAL

**Duration:** 9/14/2011 to 9/30/2013

CFDA: 12.300 Basic and Applied Scientific Research

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Support for Geo-temporal Infection Awareness (GIA) Advanced Technology Demonstration Project

#### **TcSUH**

Investigator: Selvamanickam, Venkat Dr. 40%

**Award Amount:** \$765,670.40

Cost Center: 00730 / 5013 / H0073 / B0001 / G104069 / 50171

Agency: U.S. Department of Energy

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 1/1/2012 to 9/30/2013

**CFDA:** 81.135 Advanced Research and Projects Agency - Energy Financial

**CB Designation:** Restricted Research

**Project Type:** Co-Op Agreement - Research

Project Title: High Performance, Low Cost Superconducting Wires and Coils for High Power Wind Generators

Investigator: Cheung, Margaret Dr. 40%

**Award Amount:** \$39,200.00

Cost Center: 00730 / 5014 / H0112 / B0001 / G104626 / 50433

Agency: Texas Higher Education Coordinating Board

Pass\_Thru Agency: U.S. Department of Education

Agency Type: FEDERAL

**Duration:** 2/1/2012 to 4/30/2013

CFDA: 84.367 Improving Teacher Quality State Grants

CB Designation: Non Restricted Research
Project Type: Grant - Research

Project Title: Teaching High School Physics Using Inquiry

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **DIVISION OF RESEARCH**

**Texas Learning/Computation Center** 

Investigator: Tolar, Tammy Dr. 10%

**Award Amount:** \$10,794.20

Cost Center: 00730 / 5013 / H0288 / B0001 / G101357 / 48101

Agency: National Institute of Child Health and Human Development

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/1/2011 to 1/31/2013

CFDA: 93.865 Center for Research for Mothers and Children

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Predictors of Growth in Algebra Achievement in Adolescents

**Investigator:** Barr, Christopher Dr. 10%

**Award Amount:** \$11,902.80

Cost Center: 00730 / 5013 / H0288 / B0001 / G104840 / 50228

Agency: Center for Applied Linguistics

Pass\_Thru Agency: National Institute of Child Health and Human Development

Agency Type: FEDERAL

**Duration**: 12/1/2011 to 5/31/2012

**CFDA:** 93.865 Center for Research for Mothers and Children

**CB Designation:** Restricted Research **Project Type:** Grant - Research

Project Title: CAL Core Research: Test Development

Investigator: Johnsson, S. Lennart Dr. 16.5%

Award Amount: \$30,525.00

**Cost Center:** 00730 / 5016 / H0429 / B0001 / G101386 / 46202

Agency: Texas Commission on Environmental Quality

Pass\_Thru Agency: State of Texas

Agency Type: STATE

**Duration:** 3/16/2010 to 12/31/2012

CFDA:

CB Designation: Restricted Research
Project Type: Contract - Research

Project Title: Ozone and Carbon Monoxide Monitor Operation, University of Houston Sites

### UNIVERSITY OF HOUSTON

### **Division of Research**

# New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **DIVISION OF RESEARCH**

**TIMES** 

**Investigator:** Barr, Christopher Dr. 70%

**Award Amount:** \$83,319.60

Cost Center: 00730 / 5013 / H0288 / B0001 / G104840 / 50228

Agency: Center for Applied Linguistics

Pass\_Thru Agency: National Institute of Child Health and Human Development

Agency Type: FEDERAL

**Duration**: 12/1/2011 to 5/31/2012

CFDA: 93.865 Center for Research for Mothers and Children

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: CAL Core Research: Test Development

Investigator: Tolar, Tammy Dr. 70%

**Award Amount:** \$75,559.40

Cost Center: 00730 / 5013 / H0288 / B0001 / G101357 / 48101

Agency: National Institute of Child Health and Human Development

Pass\_Thru Agency:

Agency Type: FEDERAL

**Duration:** 2/1/2011 to 1/31/2013

**CFDA:** 93.865 Center for Research for Mothers and Children

CB Designation: Restricted Research
Project Type: Grant - Research

Project Title: Predictors of Growth in Algebra Achievement in Adolescents

## **UNIVERSITY OF HOUSTON**

### **Division of Research**

## New/Continuation Sponsored Research Grants and Contracts Fiscal Year 2012 - Received during MARCH

#### **GRADUATE COLLEGE OF SOCIAL WORK**

**Drug and Social Policy Research** 

Investigator: Torres-Hostos, Luis Dr. 100%

**Award Amount:** \$64,167.00

Cost Center: 00730 / 5013 / H0508 / B0100 / G098473 / 44177

Agency: Lewin Group, Inc.

Pass\_Thru Agency: Department of Health and Human Services - Office of Disease Prevention and Health Promotion (ODPHP)

Agency Type: FEDERAL

**Duration**: 1/1/2009 to 9/27/2012

CFDA: 93.100 Health Disparities in Minority Health

CB Designation: Non Restricted Research
Project Type: Contract - Research

Project Title: Hispanic Healthy Marriage Initiative Grantee Implementation Evaluation

## REPORTING PERIOD ACTIVITY SUMMARY

 Federal Funding:
 \$5,420,223.00

 State Funding:
 \$311,460.00

 Local Funding:
 \$0.00

 Profit Funding:
 \$581,571.00

 Non Profit Funding:
 \$31,562.00

 Foundation Funding:
 \$0.00

 University Funding:
 \$105,030.00

Total: \$6,449,846.00