

12-2017

## ORED Communicator - December 2017

Office of Research and Economic Development, Florida International University

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## Upcoming Events

### December 2017

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### December

- ◇ **December 1, 11 am to 12 noon, AHC3 #205, [Hide and Seek: How to DNA Glycosylases Locate Oxidatively Damaged DNA Bases Amidst a Sea of Undamaged Bases](#)**, presented by [Susan Wallace](#)
- ◇ **December 1, 12 to 1 pm, AHC1 #110, [Critical Challenges in Treating the Most High-Risk Suicidal Adolescents: Results from a Recently Completed RCT](#)**, presented by [Anthony Spirito](#)
- ◇ **December 1, 1 to 3 pm, AHC4 #402, [Managing your Approved IRB Study](#)**, free but requires registration
- ◇ **December 1, 2 to 3 pm, ECS 241, [IHMC Research: National Language Processing, Cyber Security and Big Data](#)**, presented by [Bonnie Borr](#)
- ◇ **December 2, 2 to 4 pm, Vizcaya Village Garage, [Changing Waters](#)**, a conversation with experts about water quality in Biscayne Bay and the impact of sea level rise in South Florida's coastal communities—free event but [RSVP](#) is required
- ◇ **December 4, 1 to 2 pm, AHC4 #402, [Biopharmaceutical lecture](#)** presented by [Hing C. Wong](#)
- ◇ **December 6, 11 am to 12 noon, WC 130, [Fossil fuels and fish: how physiology can provide insight into underlying mechanisms in toxicology](#)** presented by [Rachael Heuer](#)
- ◇ **December 7, 8 to 10 am, MARC 330, [Unite to Ignite with WiTech Miami Council](#)**, sponsored by StartUP FIU—free event but [RSVP](#) is required
- ◇ **December 8, 12 to 1 pm, AHC1 #110, [Intervention for Children with ADHD and Co-existing Dyslexia](#)**, presented by [Rosemary Tannock](#)
- ◇ **December 8, 12:30 to 1:30 pm, AHC4 #402, [Linking pH, Temperature, K+ Concentration and Conformation for the DNA i-Motif](#)**, presented by [Richard Sheardy](#)
- ◇ **December 12, 12 to 1 pm, AHC5 #300, [Health Informatics and Health Systems Joint Faculty and Doctoral Student Seminar](#)**, presented by [Tianyan Hu](#)
- ◇ **December 13, 12 to 1 pm, [Citrus Health Network](#), [Recent studies in dosing and sequencing pharmacological and behavioral treatments for ADHD: When They Go High, We Go Low](#)**, presented by [William Pelham](#)
- ◇ **December 14 and 15, 8 am to 4 pm, Broward County Convention Center, [9<sup>th</sup> Annual Southeast Florida Regional Climate Leadership Summit](#)**, registration required

### January

- ◇ **January 9, 12 to 1 pm, AHC5 #300, [Health Informatics and Health Systems Joint Faculty & Doctoral Student Seminar](#)** presented by [Pouyan Esmaeil Zadeh](#)
- ◇ **January 25 and 26, Miami Airport Marriott, [Resilient Utility Coalition Summit](#)**, payment required at time of [registration](#)
- ◇ **January 26, 2 to 3 pm, ECS 241, [Understanding the Human in Human-Robot Teams](#)**, presented by [Ruzena Bajcsy](#)

### February

Every Friday, the [Department of Biomedical Engineering](#) will feature an expert in applied cardiovascular biology. Confirmed speakers include Dr. [Sheldon Weinbaum](#), Dr. [Masanori Aikawa](#), Dr. [David Merryman](#), and Dr. [Frederick Schoen](#). **Miami Heart Month** will be highlighted by a special Heart Day Symposium on Friday, February 16, which will include a poster session from the Miami cardiovascular research community. If you would like to participate, please contact Josh Hutcheson ([jhutches@fiu.edu](mailto:jhutches@fiu.edu)).



## ***Awards Received—October 2017***

FIU researchers were awarded \$13,463,333 in October 2017. Below is a listing of awards received:

### **Agoulnik, Alexander**

Herbert Wertheim College of Medicine

Human and Molecular Genetics

Bristol-Myers Squibb

Initial

8th International Conference on Relaxin and Related Peptides 2018 \$5,000

### **Alluri, Priyanka**

College of Engineering and Computing

Civil and Environ Engineering

Florida Department of Transportation

Initial

A Data-Driven Approach to Implementing Wrong-Way Driving Countermeasures \$145,000

### **Barbetta, Patricia**

College of Arts, Sciences & Education

Teaching and Learning

Florida Department of Education

Initial

2017-2018 Exceptional Student Education (ESE Tuition Support Program) \$307,331

### **Boswell, Kevin**

College of Arts, Sciences & Education

Biology

University of Miami

Initial

Developing acoustic classification methods for reef fish species in the Gulf of Mexico \$18,887

### **Boukerrou, Lakhdar**

College of Arts, Sciences & Education

Institute of Water and Environment

US Agency for International Development

Increase

West Africa Water Supply \$23,013

### **Brewster, Luther G**

Herbert Wertheim College of Medicine

Humanities Health and Society

Trinity Church

Initial

Generation 2050 \$9,242

### **Caballero, Amaury**

College of Engineering and Computing

Electrical and Computer Engineering

Miami-Dade County Public Schools

Initial

Electrical wiring Program for SED Students \$61,600

**Casas, Alexander D**

Division of Finance University Police  
U.S. Department of Justice  
Initial

FIUPD Body-Worn Camera Policy and Implementation Program \$82,500

**Cevallos, Fabian**

College of Engineering and Computing  
Civil and Environmental Engineering  
City of Doral

Increase

Transportation Engineering Technical and Research Support Services \$14,212

**Chatfield, David C**

College of Arts, Sciences & Education  
Chemistry

U.S. Nuclear Regulatory Commission

Supplemental

Faculty Development for Radiochemistry Ph.D. Program at FIU \$419,970

**Chen, Jiuhua**

College of Engineering and Computing  
Mechanical and Mat Engineering  
National Science Foundation

Initial

Study of water solubility in bridgmanite at the lower mantle conditions \$237,934

**Cramer, Elizabeth D**

College of Arts, Sciences & Education  
Teaching and Learning

U.S. Department of Education

Supplemental

Project OPERATE 2015-2020 \$81,690

**Cramer, Elizabeth D**

College of Arts, Sciences & Education  
Teaching and Learning

U.S. Department of Education

Supplemental

Project OPERATE 2015-2020 \$168,310

**Crowl, Todd Alan**

College of Arts, Sciences & Education  
Institute of Water and Environment  
National Science Foundation

Increase

CREST: Center for Aquatic Chemistry and the Environment CACE \$71,065

**Crowl, Todd Alan**

College of Arts, Sciences & Education  
Institute of Water and Environment  
National Science Foundation

Increase

CREST: Center for Aquatic Chemistry and the Environment CACE \$109,104

**Danziger, Zachary**

College of Engineering and Computing  
Biomedical Engineering  
FIU Foundation  
Initial

Post-SCI Bladder Reflex Conditioning with Pelvic Neuromodulation \$141,503

**Devieux, Jessy**

Robert Stempel College of Public Health Social Work  
Health Promotion and Disease Prevention  
University of Florida  
Continuation

Effects of experimentally-induced reductions in alcohol consumption \$193,378

**Dinehart, Laura H**

College of Arts, Sciences & Education  
School of Education  
U.S. Department of Education  
Initial

2017-2022 Upward Bound Math-Science FIU \$245,899

**Dinehart, Laura H**

College of Arts, Sciences & Education  
School of Education  
U.S. Department of Education  
Initial

2017-2022 Upward Bound Math-Science FIU \$18,000

**Dulikravich, George S**

College of Engineering and Computing  
Mechanical and Materials Engineering  
Texas A&M University  
Initial

ROA-2016 / D.5 University Leadership Initiative \$101,413

**Eaton, Asia**

College of Arts, Sciences & Education—Psychology  
Society Psychological Study Social Issue  
Initial

Amending Florida law to increase justice for victims of nonconsensual porn \$2,000

**Faria, Jose A**

College of Engineering and Computing  
Moss School of Construction  
U.S. Department of Labor  
Initial

Susan Harwood Targeted Topic Training Grant in Construction \$155,000

**Fava, Nicole M**

Robert Stempel College of Public Health Social Work  
School of Social Work  
Children's Trust  
Initial

Trauma-informed screening & treatment in community university clinic \$284,141

**Fonseca, Brian**

Steven J. Green School of International & Public Affairs  
 J Gordon Institute Public Policy and Citizenship  
 CACI International Inc.

Supplemental

CERDEC Flight Activity (CFA) System Engineering Support \$25,000

**Fu, Zhaohui**

Academic Affairs - Other Units  
 GIS Center and Digital Collection  
 City of Coral Gables  
 Initial

Sea Level Rise Impact Web Tool \$135,300

**Furton, Kenneth G**

Academic Affairs - Other Units  
 Provost and Executive Vice President for Academic Affairs  
 National Science Foundation

Increase

ADVANCE Institutional Transformation at FIU 2016-2021 \$56,000

**Gan, Cheng-Tin**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 Supplemental

Effectiveness of Stationary Police Vehicles with Blue Lights in Freeway Work Zones \$53,068

**Gan, Cheng-Tin**

College of Engineering and Computing—Civil and Environmental Engineering  
 Florida Department of Transportation  
 Initial

Development of 2018 Florida Transit Information System (FTIS) \$82,130

**Gan, Cheng-Tin**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 Initial

Development of 2018 Florida Transit Information System (FTIS) \$20,532

**Gan, Cheng-Tin**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Florida Department of Transportation  
 Initial

ITS Research, Computer, and Miscellaneous Support (Two #462-07) \$150,000

**Garber, David B**

College of Engineering and Computing  
 Civil and Environmental Engineering  
 Oceans Technology Group  
 Increase

Behavior of Algae-Based Binder Concrete \$10,007

**Gladstone, Susan**

Academic Affairs - Other Units  
 Jewish Museum of Florida (JMOF)—FIU  
 Florida Division of Cultural Affairs  
 Initial  
 JMOF General Support Grant FY17-18

\$47,368

**Gonzalez, Juan E**

Nicole Wertheim College of Nursing and Health Sciences  
 Nursing Anesthesiology  
 Health Resources & Services Administration  
 Increase  
 FIU Nurse Anesthetist Traineeship

\$2,800

**Graziano, Paulo**

College of Arts, Sciences & Education  
 Psychology  
 National Institute of Mental Health  
 Initial

Biosignatures of Executive Function and Emotion Regulation in young children with ADHD

\$712,346

**Gudavalli, Ravi Krishna**

Academic Affairs - ARC Applied Research Center  
 Savannah River Nuclear Solutions LLC  
 Initial

Technetium sulfide as a potential immobilization form for Tc-99 in the environment

\$201,011

**Guilarte, Tomas R**

Robert Stempel College of Public Health & Social Work  
 Robert Stempel CPHSW Deans Off  
 Environmental Health Sciences  
 Continuation

Pb Grant: NMDA Receptor Function in Lead Neurotoxicity

\$570,256

**Ibanez, Gladys E**

Robert Stempel College of Public Health Social Work  
 Epidemiology  
 University of California Davis  
 Initial

The Acceptability and Feasibility of the iPad version of the NIH Neurocognitive

\$4,900

**Ilcheva, Maria**

Steven J. Green School of International & Public Affairs  
 Metropolitan Center  
 City of Miami Beach  
 Initial

Economic Analysis: Potential Short and Long-Term Impact of Reducing

\$85,000

**Iyengar, Sundararaj Sitharama**

College of Engineering and Computing  
 Computer Information Sciences  
 Army Research Office  
 Initial

Research, Education and Workforce Training for Engagement in the Cyber-learning

\$339,957

**Jayachandran, Krishnaswamy**

College of Arts, Sciences &amp; Education

Earth and Environment

National Institute of Food &amp; Agriculture

Continuation

Broadening Agriculture Science Education (BASE) for Hispanic Students

\$250,000

**Katsenovich, Yelena**

Academic Affairs - Other Units

ARC Applied Research Center

Savannah River Nuclear Solutions LLC

Initial

Management of Hanford Low Activity Waste Off-Gas Condensate

\$363,730

**Kavallieratos, Konstantinos**

College of Arts, Sciences &amp; Education

Chemistry

Savannah River Nuclear Solutions LLC

Supplemental

Development of an Alternative Solvent Extraction Technology for

\$390,972

**Lagos, Leonel**

Academic Affairs - ARC Applied Research Center

U.S. Army

Increase

Cyber Attack Orchestration Test Bed for Automation and Threat Monitoring

\$529,722

**Lagos, Leonel**

Academic Affairs - Other Units

ARC Applied Research Center

Savannah River Nuclear Solutions LLC

Initial

Evaluation of a Dexterous Robotic Manipulator for Semi-Autonomous Glove

\$397,803

**Laird, Angela Marie Richmond**

College of Arts, Sciences &amp; Education

Physics

National Institute on Drug Abuse

Increase

Adolescent Brain Cognitive Development (ABCD): FIU

\$674,525

**Li, Chenzhong**

College of Engineering and Computing

Biomedical Engineering

Everglades Foundation

Need to Correct

Paper based Disposable Biosensors for Trace Analysis of Organophosphate

\$20,000

**Li, Hebin**

College of Arts, Sciences &amp; Education

Physics

U.S. Army

Initial

Acquisition of an ultrafast amplified laser system for research and education

\$404,835



**Madhivanan, Purnima**

Robert Stempel College of Public Health Social Work  
Epidemiology  
University of California Berkeley  
Initial  
Global Health Equity Scholars Program

\$165,501

**Madhivanan, Purnima**

Robert Stempel College of Public Health Social Work  
Epidemiology  
University of California Berkeley  
Initial  
Global Health Equity Scholars Program

\$5,000

**Maidique, Modesto A**

College of Business Administration  
Department of Management and International Business  
Miami-Dade County  
Initial  
Chapmanville Leadership Development Program Second Cohort

\$245,000

**McCord, Bruce**

College of Arts, Sciences & Education—Chemistry  
U.S. Department of Justice  
Initial  
An Epigenetic multiplex amplification for the determination of age and body fluid type

\$368,512

**Mills, De Etta kay**

College of Arts, Sciences & Education  
Biology  
U.S. Department of Justice  
Initial  
Non-destructive, enhanced collection and recovery form difficult forensic samples

\$286,931

**Mohammed, Osama A**

College of Engineering and Computing  
Electrical and Computer Engineering  
University of Arkansas  
Continuation  
An Interdisciplinary Approach to Integratable, Composable and Evolvable

\$124,619

**Mohammed, Osama A**

College of Engineering and Computing  
Electrical and Computer Engineering  
University of Arkansas  
Continuation  
An Interdisciplinary Approach to Integratable, Composable and Evolvable

\$86,639

**Mohammed, Osama A**

College of Engineering and Computing  
Electrical and Computer Engineering  
University of Arkansas  
Continuation  
An Interdisciplinary Approach to Integratable, Composable and Evolvable

\$63,226

**Montas-Hunter, Sonja S**

Academic Affairs - Other Units

Student Access and Success

Florida Department of Agriculture and Co

Increase

Summer Food Service Program (ETS, EV3, UBMS) 2014-2018

\$57,263

**Montas-Hunter, Sonja S**

Academic Affairs - Other Units

Student Access and Success

Florida Education Fund

Initial

2017-2018 COE South Florida Center of Excellence at FIU

\$20,800

**Ozgen, Mesut**

College of Communication, Architecture + The Arts

Music

FIU Foundation

Initial

2018 GuitART Festival KAC Grant

\$46,027

**Ozgen, Mesut**

College of Communication, Architecture + The Arts

Music

Florida Division of Cultural Affairs

Initial

2018 Guitar Festival Specific Cultural Projects Grant

\$25,000

**Pala, Nezh**

College of Engineering and Computing

Electrical and Computer Engineering

University of Central Florida

Initial

UAV-based Defective Solar Panels Detection and Maintenance

\$951

**Pelham Jr, William E**

College of Arts, Sciences &amp; Education

Psychology

University of Pittsburgh

Continuation

Neural Correlates of symptoms and functioning in young adults with childhood ADHD

\$36,986

**Pomeroy, Jordana**

Academic Affairs - Frost Art Museum

Florida Division of Cultural Affairs

Initial

FY2017-2018 General Program Support: Discipline-Based (Museum)

\$44,794

**Prospect, Sean Antonio**

College of Arts, Sciences &amp; Education

Community Engagement

Florida Department of Education

Initial

Project HOPE (FIU After School All Stars) 2017-2018

\$194,556

**Prospect, Sean Antonio**

College of Arts, Sciences & Education—Community Engagement  
 Florida Department of Education  
 Initial  
 Project OPPORTUNITY (FIU After School All Stars) 2017-2018

\$104,528

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project PRIDE (FIU After School All-Stars) 2017-2018

\$128,215

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project CLAW (FIU After School All Stars) 2017-2018

\$43,305

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project IMPACT (FIU After School All-Stars) 2017-2018

\$100,000

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project PRIDE (FIU After School All-Stars) 2017-2018

\$32,053

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project PANTHER (FIU After School All Stars) 2017-2018

\$225,768

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project PANTHER (FIU After School All Stars) 2017-2018

\$56,441

**Prospect, Sean Antonio**

College of Arts, Sciences & Education  
 Community Engagement  
 Florida Department of Education  
 Initial  
 Project HOPE (FIU After School All Stars) 2017-2018

\$48,639

**Ramella Roman, Jessica**

College of Engineering and Computing  
Biomedical Engineering  
Texas A&M University

Initial

NST ERC: Precise Advanced Technologies and Health Systems for \$17,400

**Raptis, Raphael**

College of Arts, Sciences & Education  
Chemistry  
Savannah River Nuclear Solutions LLC

Initial

Development of Separations Methods to Address the Challenge of Organic \$391,090

**Raymond, Andrea D**

Herbert Wertheim College of Medicine  
Immunology

Brigham and Women's Hospital

Initial

Development of circulating exosomes as a theranostic of neurodisease progression \$73,250

**Sadjadi, Seyedmasoud**

College of Engineering and Computing  
Computer Information Sciences  
Georgia Institute of Technology

Increase

VIP Program at Florida International University \$35,000

**Sibley, Margaret**

Herbert Wertheim College of Medicine  
Psychiatry and Behavioral Health  
Institute of Education Sciences

Continuation

Developing a Peer to Peer Behavioral Intervention for High School Students with ADHD \$537,485

**Sibley, Margaret**

Herbert Wertheim College of Medicine  
Psychiatry and Behavior Health  
FIU Foundation

Initial

Cognitive and Behavioral Predictors of Success at the High School Transition \$50,000

**Trucco, Elisa M**

College of Arts, Sciences & Education—Psychology  
Alcohol Abuse and Alcoholism

Continuation

Environment, Genes, and Temperament on the Development of Alcohol Use Disorder \$169,204

**Tse Dinh, Yukching**

College of Arts, Sciences & Education  
Chemistry

National Institutes of Health

Continuation

Control of DNA Topology \$335,635

**Volakis, John**

College of Engineering and Computing  
 Engineering Deans Office  
 National Science Foundation

Initial

NCS-FO: Collaborative Research: Wireless and Fully-Passive Multi-Channel Neural \$569,087

**Volakis, John**

College of Engineering and Computing  
 Engineering Deans Office  
 National Science Foundation

Increase

A New Class of Millimeter-wave Phased Array for Secure High Data Rate Systems \$67,389

**Volakis, John**

College of Engineering and Computing  
 Engineering Deans Office  
 Regents of the University of New Mexico

Initial

MURI: Innovative use of Metamaterials in Confining, Controlling, and Radiating \$131,550

**Volakis, John**

College of Engineering and Computing  
 Engineering Deans Office  
 Lockheed Martin

Initial

Numerical Study of High Impedance Electromagnetic Bandgap Structures \$75,000

**Wdowinski, Shimon**

College of Arts, Sciences & Education  
 Earth and Environment  
 NASA Goddard Space Flight Center

Initial

Cascading hazards: Understanding triggering relations between wet tropical cyclones \$77,037

## *Funding Opportunities*

ORED has a new, improved and interactive webpage for funding opportunities. Please visit <http://research.fiu.edu/funding/#current>.

## *Limited Submissions*

Current limited submission opportunities are available at <http://research.fiu.edu/funding/limited-submissions/>.

## Contact ORED Senior Leadership

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