3-2019

ORED Communicator - March 2019

Office of Research and Economic Development, Florida International University

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Office of Research and Economic Development Newsletters, 68.
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Upcoming Events

March

⇒ March 1, 12:30 to 1:30 pm, AHC5 #300, FIU-RCMI Research in Progress Seminar, presented by Karina Villalba

⇒ March 1, 2 to 3 pm, ECS 241, SCIS Invited Lecture Series: Using Video Games to Reverse Engineer Human Intelligence, presented by Samuel Gershman

⇒ March 1, 3 to 4 pm, WC 130, Characterizing the Shifting Role of Wildfire in Ecosystem and Watershed Processes, presented by Erin Hanan

⇒ March 3 - 6, FIU Graham Center, The International Workshop on Antenna Technology (iWAT) 2019 at Miami, FL, registration required—prices vary

⇒ March 4, 1 to 2 pm, WC 130, Community Physiological Ecology: Linking Animal Homeostasis to Life History and Ecological Interactions, presented by Robin Warne

⇒ March 4, 1 to 2 pm, PG2 120, Analysis of Sequence-Defined Alleles in Mixtures, presented by Brian Young

⇒ March 4, 3 to 4 pm, WC 130, Investigating Urban Ecology and Sustainability Through the Lens of Urban Ecological Infrastructure, presented by Daniel Childers

⇒ March 6, 12 to 1 pm, WC 130, Karst Processes and the Environmental History of the Miami Rock Ridge, presented by Jack Meeder

⇒ March 8, 9 to 10 am, EC 2300, Light in Turbulence-like Biological Tissues, presented by Olga Korotkova

⇒ March 8, 12:30 to 1:30 pm, AHC3 #214, Challenges in Discovering Next-Generation Therapeutics for Advanced Prostate Cancer, presented by Ramesh Narayanan

⇒ March 8, 2 to 3 pm, EC 3930, Electrical and Computer Engineering’s Spring 2019 Seminar Series, presented by Elisa Bertino

⇒ March 8, 12:00 to 1:00pm, AHC1 #110, Speaker Series - A Rational Mental Health System for Youth, presented by Peter Szatmari

⇒ March 8, 8 to 10 pm, CP 145, What do black holes look like: staring at the beast?, presented by James Webb

⇒ March 15, 12:30 to 1:30 pm, AHC5 #300, FIU-RCMI Research in Progress Seminar, presented by Wasim Maziak

⇒ March 18, 3 to 4 pm, WC 130, Modeling Carbon and Nutrients to Inform Ecosystem Management, presented by Andrea Nocentini

⇒ March 21, 3 to 4 pm, WC 130, Vector-Pathogen Interactions: From Molecules to Mechanisms, presented by Girish Neelakanta

⇒ March 22, 9 to 10 am, EC 2300, Biomedical Engineering Coulter Lecture Series—Self-cleaning Thermoresponsive Membranes for Implanted Glucose Biosensors, presented by Melissa Grunlan

⇒ March 22, 11 am to 12 noon, PG5 #134, Investigating How Oxidative Stress Accelerates Telomere Loss: Implications for Cancer and Aging, presented by Patricia Opresko

⇒ March 22, 12:30 to 1:30 pm, AHC5 300, FIU-RCMI Research in Progress Seminar, presented by Elisa Trucco and Matthew Sutherland
Upcoming Events—continued

**March (continued)**

- March 28, 1:30 to 2:30 pm, WC 130, *Amphibian Diversity, Thermal Physiology, and Species’ Vulnerability to Climate Change along Tropical Elevational Gradients*, presented by Rudolf von May
- March 29, 12:30 to 1:30 pm, AHC5 300, *FIU-RCMI Research in Progress Seminar*, presented by Hui Huang

**April**

- April 3, 9:30 to 11 am, PG 5 215, *Psychological First Aid in Disasters* (morning lecture same as afternoon), presented by Mark Macgowan
- April 3, 1:30 to 3 pm, PG 5 215, *Psychological First Aid in Disasters* (afternoon lecture same as morning), presented by Mark Macgowan
- April 5, 9 to 10 am, EC 1104, *Revisiting Muscle Spindle Function to Understand Impaired Sensorimotor Control*, presented by Lena Ting
- April 5, 11 am to 12 noon, PG 5 134, *Lysine Acetylation of Replication Proteins Regulates the Choice of the Lagging Strand Maturation Pathway*, presented by Lata Balakrishnan
- April 5, 12:30 to 1:30 pm, AHC5 300, *FIU-RCMI Research in Progress Seminar*, presented by Thomas H. Brandon
- April 5, 12:00 to 1:00pm, AHC1 #110, *Speaker Series - Irritability in Youth*, presented by Ellen Leibenluft
- April 5, 3 to 4 pm, WC 130, *Exotic Mud-Ocean Chemistry and Hydrodynamics as Controls of Mud Production on Great Bahama Bank*, presented by Sam Purkis
- April 9, 2 to 3 pm, MARC Pavilion, *The Leadership Research Colloquium*, presented by Nathan Hiller and Cecily Cooper—RSVP at: https://lead.fiu.edu/colloquium
- April 12, 3 to 4 pm, WC 130, *Regional Groundwater Modeling over the Lower West Coastal Superficial and Intermediate Aquifers in South Florida*, presented by Yirgalem Assegid
- April 14 to 18, Hilton Miami Downtown Hotel, *2019 International Applied Computational Electromagnetics Society Symposium*, registration required

**May**

- May 1 and May 2, 9 am to 6 pm, SASC, 8th Annual Florida Forensic Science Symposium, presented by FIU’s International Forensic Research Institute, part of the Global Forensic and Justice Center

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**Awards Received—January 2019**

FIU researchers were awarded $9,609,314 in January 2019. Below is a listing of awards received.

**Alluri, Priyanka**

College of Engineering and Computing  
Civil and Environmental Engineering  
University of Florida  
Provide Technical Support on Safety Analyst Initial  
$18,000

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu
Alluri, Priyanka
College of Engineering and Computing
Civil and Environmental Engineering
Florida Department of Transportation
Guidelines for Installing Pedestrian Channelization Barriers at Midblock Locations
Initial $150,000

Alluri, Priyanka
College of Engineering and Computing
Civil and Environmental Engineering
Florida Department of Transportation
Strategies to Mitigate Wrong-way Driving Incidents on Arterials
Initial $148,916

Alluri, Priyanka
College of Engineering and Computing
Civil and Environmental Engineering
Florida Department of Transportation
Strategies to Identify and Mitigate Secondary Crashes using Real-time Traffic Data
Initial $220,000

Bejar, Elizabeth
Academic Affairs - Other Units
Student Affairs Vice President’s Office
Council for Adult and Experiential Learn
Adult Learner360 Academy
Initial $40,000

Bhardwaj, Shubhendu
College of Engineering and Computing
Electrical and Computer Engineering
North Carolina State University
Upadhyay Supplement to 800002444
Increase $60,000

Briceno, Henry
College of Arts, Sciences & Education
SERC
Pennsylvania State University
Response of carbon cycling to climatic and anthropogenic perturbations
Increase $32,109

Brown, Ellen
Nicole Wertheim College of Nursing and Health Sciences
Miami Jewish Health Systems
Miami Jewish Health and FIU Research Collaboration
Supplemental $17,413

Burgman, Robert
College of Arts, Sciences & Education
Earth and Environment
University of Miami
Decadal Prediction and Predictability of Extremes in Ocean Eddy Resolving Coupled Models
Initial $87,500
Chapagain, Prem
College of Arts, Sciences & Education
Physics
Luna Health Sciences Group Luna Innovation
Marburg Virus Prophylactic Medical Countermeasure
Increase

Chen, Weiwei
Robert Stempel College of Public Health and Social Work
Health Policy and Management
Palm Beach County Community Services Dep
Intergovernmental Agreement for Ryan White Part A HIV Health Support Services
Initial

Chung, Katherine
Herbert Wertheim College of Medicine
Humanities Health and Society
FIU Foundation
Partnering with Communities to Drive out Breast Cancer in Miami-Dade County
Initial

Chung, Katherine
Herbert Wertheim College of Medicine
Humanities Health and Society
FIU Foundation
Strengthen and Maintain Breast Health Services
Initial

Coles, Erika
College of Arts, Sciences & Education—Psychology
Miami-Dade County Public Schools
MDCPS Provision of Mental Health Services
Initial

Cruz, Jose Miguel
Steven J. Green School of International and Public Affairs
LACC
American Institutes for Research
Latin America and the Caribbean Youth Violence Prevention
Initial

Dare, Emily
College of Arts, Sciences & Education
Teaching and Learning
National Science Foundation
Collaborative Research: Design and Development of a K-12 STEM Observation Protocol
Initial

Dare, Emily
College of Arts, Sciences & Education
Teaching and Learning
National Science Foundation
Participant Support - Collaborative Research: Design and Development of a K-12 STEM
Initial
<table>
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<tr>
<th>Name</th>
<th>College/Department</th>
<th>Project Description</th>
<th>Funding Amount</th>
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<tr>
<td>Frankovich, Thomas</td>
<td>College of Arts, Sciences &amp; Education</td>
<td>Microscopic Analysis of Phytoplankton Communities in St. Lucie Estuary:</td>
<td>$22,950</td>
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<td>Fuller, Karen</td>
<td>College of Communication, Architecture + The Arts</td>
<td>Miami-Dade County Cultural Affairs FY 2018 - 2019 FIU Music Festival</td>
<td>$50,000</td>
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<td>Gaiser, Evelyn</td>
<td>College of Arts, Sciences &amp; Education</td>
<td>Vegetation and periphyton monitoring in Biscayne Bay Coastal wetlands project</td>
<td>$49,522</td>
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<td>Garber, David</td>
<td>College of Engineering and Computing</td>
<td>Evaluation of Concrete Pile to Footing or Cap Connections</td>
<td>$299,800</td>
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<td>Gladstone, Susan</td>
<td>Academic Affairs - Jewish Museum of Florida-FIU</td>
<td>City of Miami Beach City Wide Grant</td>
<td>$50,000</td>
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<td>Gladstone, Susan</td>
<td>Academic Affairs - Jewish Museum of Florida-FIU</td>
<td>City of Miami Beach City of Miami Beach Cultural Anchor Grant FY18/19</td>
<td>$26,400</td>
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<td>Godavarty, Anuradha</td>
<td>College of Engineering and Computing</td>
<td>Differentiate healing and non-healing diabetic foot ulcers using a portable,</td>
<td>$100,000</td>
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<td>Jin, Xia</td>
<td>College of Engineering and Computing</td>
<td>Discovering Potential Market for the Integration of Public Transportation</td>
<td>$49,560</td>
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Jin, Xia
College of Engineering and Computing
Civil and Environmental Engineering
Florida Department of Transportation
The Impacts of Emerging Mobility Options and Vehicle Technologies on Travel Behavior
Initial $187,990

Katsenovich, Yelena
Academic Affairs - ARC
Savannah River Nuclear Solutions LLC
Management of Hanford Low Activity Waste Off-Gas Condensate
Initial $270,101

Kavallieratos, Konstantinos
College of Arts, Sciences & Education
Chemistry
Savannah River Nuclear Solutions LLC
Development of Alternative Solvent Extraction Technology for Combined Cesium
Initial $300,000

Kominoski, John
College of Arts, Sciences & Education
Biology
Texas A&M University
The effects of shifting coastal wetland plant communities on the restoration of food webs
Increase $14,250

Kominoski, John
College of Arts, Sciences & Education
Biology
Texas A&M University
Ecosystem Responses to Hurricanes Synthesis Workshop
Initial $3,295

Kos, Lidia
Academic Affairs - UGS University Graduate School
Miami Heart Research Institute
Phenotypic and functional characterization of neural crest derived aortic valve interstitial cells
Initial $60,000

Kutateladze, Besiki
Steven J. Green School of International and Public Affairs
Criminology and Criminal Justice
FIU Foundation
A Study of the Influence of Charging Decisions on Disproportionate Sentencing
Initial $82,690

Lagos, Leonel
Academic Affairs - ARC
Savannah River Nuclear Solutions LLC
Dexterous Robotic Manipulator and Adaptation of Exoskeleton Devices for Assisted Glovebox Operations to Reduce Human Fatigue and Injuries
Initial $272,070
Lothridge, Kevin  
College of Arts, Sciences & Education—SISH  
Marine Corps Systems Command  
Item No 0001AC PM & Supply Support Services  
Increase  
$491,648

Lothridge, Kevin  
College of Arts, Sciences & Education—SISH  
Marine Corps Systems Command  
Item No 0002AC Consumables and Non-Consumables  
Increase  
$133,024

Lothridge, Kevin  
College of Arts, Sciences & Education—SISH  
Marine Corps Systems Command  
Item No 0003AC Initial User Training  
Increase  
$613,785

Lothridge, Kevin  
College of Arts, Sciences & Education—SISH  
Marine Corps Systems Command  
Item No 0004AC Initial Employment Scenario Training  
Increase  
$987,052

Lothridge, Kevin  
College of Arts, Sciences & Education—SISH  
Marine Corps Systems Command  
Item No 0005 AB & AC Sustainment Training  
Increase  
$351,689

Lundy, Debra  
Division of Finance  
Miami Beach Visitor & Convention Authority  
2019 Annual South Beach Wine & Food Festival (MBVCA)  
Initial  
$51,000

Lundy, Debra  
Division of Finance  
Miami-Dade County Cultural Affairs 2019 FEST South Beach Wine & Food Festival  
Initial  
$89,104

Malone, Sparkle  
College of Arts, Sciences & Education  
Biology  
University of Alabama  
Understanding the effects of increased freshwater inputs and salt water intrusion  
Initial  
$84,522

McDaniel, Dwayne  
Academic Affairs - ARC  
Savannah River Nuclear Solutions LLC  
Development of Methods for In-line Monitoring of Yield Stress during the Transfer  
Initial  
$204,475
Mohammed, Osama
College of Engineering and Computing
Electrical and Computer Engineering
Office of Naval Research
A Cyber Physical System/Communication Framework for Resilient Real-time Control Increase
$83,220

Mohammed, Osama
College of Engineering and Computing
Electrical and Computer Engineering
University of Arkansas
Mohammed-Y3
Supplemental
$74,860

Mohammed, Osama
College of Engineering and Computing
Electrical and Computer Engineering
University of Arkansas
Uluagac-Y3
Supplemental
$98,548

Mohammed, Osama
College of Engineering and Computing
Electrical and Computer Engineering
University of Arkansas
Akkaya-Y3
Supplemental
$72,220

Mozumder, Pallab
College of Arts, Sciences & Education
Earth and Environment
University of Miami
A Web-based Survey to Estimate the Economic Value of Improved Hurricane Forecasts Initial
$67,500

Pissinou, Niki
College of Engineering and Computing
Computer Information Sciences
National Science Foundation
Participant support 800010469 Increase
$286,830

Raptis, Raphael
College of Arts, Sciences & Education
Chemistry
Savannah River Nuclear Solutions LLC
Development of Separations Methods to Address the Challenge of Organic Mercury Initial
$299,598

Richardson, Jason
Robert Stempel College of Public Health and Social Work Dean’s Office
Duke University
Translational Studies on the Role of Pesticides in Cognitive Aging and AD Initial
$113,422
**Sah, Jay**  
College of Arts, Sciences & Education  
SERC  
U.S. Army Corps of Engineers  
Evaluation of Vegetation Response to Changes in Hydrologic Parameters  
Increase  
$125,000

**Sarwat, Arif**  
College of Engineering and Computing  
Electrical and Computer Engineering  
University of Arkansas  
Akkaya-Y3  
Supplemental  
$109,230

**Schriner, Brian**  
College of Communication, Architecture + The Arts  
Dean’s Office  
FIU Foundation  
Miami Future Urban Initiative  
Increase  
$185,245

**Shirley, Matthew**  
College of Arts, Sciences & Education  
Biology  
Fresno Chaffee Zoo  
Ecological and Ethno-zoological Basis for Pangolin Management in Côte d’Ivoire  
Initial  
$7,000

**Steadman, Casey**  
Academic Affairs - The Wolfsonian  
Miami-Dade County Cultural Affairs  
FY 2018-2019 Major Cultural Institutions (MCI) Program - Miami Dade County  
Initial  
$354,293

**Strong, Alexandra**  
College of Engineering and Computing  
SUCCEED  
National Science Foundation  
Collaborative Conference: Research on Engineering Practice: Catalyzing a Scholarly Community  
Initial  
$3,035

**Thomas, Tami Lynn**  
Nicole Wertheim College of Nursing and Health Sciences  
Dean’s Office  
Health Resources & Services Administration  
A Program for Minority Nursing Graduate Students to Serve the Rural Underserved  
Increase  
$143,704

**Tomitaka, Asahi**  
Herbert Wertheim College of Medicine  
Immunology and Nano Medicine  
University of Miami  
Imaging of HIV-infected cells within the brain using nano particle-based photo-acoustic agents  
Increase  
$34,096

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu
Trepka, Mary Jo  
Robert Stempel College of Public Health and Social Work  
Epidemiology  
Minority Health and Health Disparities  
Influences of patient-centered HIV care on retention and viral suppression disparities  
Initial $278,650

Troxler, Tiffany  
College of Arts, Sciences & Education  
SERC  
South Florida Water Management District  
Surface water-groundwater interactions in Everglades tree islands  
Increase $112,350

Upadhyay, Himanshu  
Academic Affairs - ARC  
University of South Florida  
Health Monitoring with IoT Wearable Devices using Machine Learning and Edge Computing  
Initial $34,999

Wdowinski, Shimon  
College of Arts, Sciences & Education  
Earth and Environment  
NASA Goddard Space Flight Center  
Cascading hazards: Understanding triggering relations between wet tropical cyclones  
Increase $190,000

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**Limited Submissions**
Current limited submission opportunities are available at [http://research.fiu.edu/funding/limited-submissions/](http://research.fiu.edu/funding/limited-submissions/).
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