

11-1-2017

ORED Communicator - November 2017

Office of Research and Economic Development, Florida International University

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Recommended Citation

Office of Research and Economic Development, Florida International University, "ORED Communicator - November 2017" (2017).
Office of Research and Economic Development Newsletters. 50.
https://digitalcommons.fiu.edu/research_newsletter/50

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U.S. Transportation Secretary Chao visits FIU's Engineering Center

On October 17, FIU welcomed U.S. Transportation Secretary Elaine L. Chao. After participating in a transportation and infrastructure stakeholders' meeting with Miami-Dade County representatives, Secretary Chao and Congressman Mario Diaz-Balart visited FIU's Accelerated Bridge Construction University Transportation Center (ABC-UTC), which is funded by the U.S. Department of Transportation (USDOT). While at FIU, Secretary Chao also had the opportunity to visit FIU's Wall of Wind (WOW) and FPL's Solar Facility at FIU.

After President Mark Rosenberg and Engineering Dean John Volakis welcomed Secretary Chao, Dr. Azizinamini, chair of FIU's civil engineering department and director of FIU's ABC-UTC, highlighted cost-effective university-developed technologies that can more rapidly repair existing bridges, create workforce development opportunities and incorporate new technologies. The Secretary was also briefed on FIU's vision for catastrophic disaster research and the role ABC-UTC plays in our resilience efforts.

Secretary Chao toured FIU's Titan Materials Construction Lab, where the folded-plate girder technology, as well as the high-performance concrete and shell were highlighted. Dr. Azizinamini also discussed the introduction of robotics and 3D printing into the construction of bridges. Additionally, several graduate students had the opportunity to meet Secretary Chao and explain their current research.



The research priorities of the ABC-UTC include extending the ABC principles to repair, replace and preserve bridges; enhancing the life of bridges; developing tools, guidelines and specifications to facilitate adoption of ABC principles; and developing the next generation of decision-making tools for better communication among stakeholders.



The 2017 National Accelerated Bridge Construction Conference, sponsored by the ABC-UTC, will be held on December 7 and 8 at the Hyatt Regency Miami. More information is available at the [ABC-UTC Conference website](#).



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Upcoming Events

November

- **November 1, 11 am to 12 noon, WC 130, InWE Seminar Series:** [*Carbon gains and losses under nutrient enrichment in a mangrove wetland*](#) presented by [Brita Jessen](#)
- **November 8, 12 to 1 pm, AHC 1 #110,** [*How to support your teen in making good decisions about alcohol and other drugs*](#), presented by [Nicole Schatz](#)
- **November 8, 3 to 3:50 pm, SIPA 220,** [*Biomolecular Sciences Institute Lecture*](#) by [Carlos A. Torres-Ramos](#)
- **November 17, 1:30 to 2:30 pm, GL 100A,** [*Probing Protein Conformational Dynamics from Single Molecules to Single Living Cells*](#) by [Peter Lu](#)

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*](#) by [Susan Wallace](#)
- **December 1, 2 to 3 pm, ECS 241,** [*IHMC Research: National Language Processing, Cyber Security and Big Data*](#), presented by [Bonnie Borr](#)
- **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 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 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,** [*9th Annual Southeast Florida Regional Climate Leadership Summit*](#), registration required.

Awards Received—September 2017

FIU researchers were awarded \$21,501,668 in September 2017. Below is a listing of awards received:

Agarwal, Arvind

College of Engineering and Computing
Engineering Deans Office
National Science Foundation
NST ERC: Nanosystems Engineering Research Center
Initial

\$89,102

Agarwal, Arvind

College of Engineering and Computing
Engineering Deans Office
Air Force Office of Scientific Research
Acquisition of Low Load Acquisition of a Low-Load Mechanical Testing Platform
Initial

\$108,310

Almirall, Jose R

College of Arts, Sciences & Education
Chemistry
National Science Foundation
FBI Laboratory Membership in the I/UCRC
Increase

\$25,000

Bagner, Daniel College of Arts, Sciences & Education Psychology Child Health and Human Development Effect of Parent Emotion-Related Talk on Infant Behavior and Regulation Increase	\$468
Barbetta, Patricia College of Arts, Sciences & Education Teaching and Learning Florida Department of Education 2017-2018 Exceptional Student Education (ESE Tuition Support Program) Initial	\$17,669
Bejar, Elizabeth M Academic Affairs - Other Units U.S. Department of Education A Study of Completion Grants at Accessible Public Universities Initial	\$60,000
Bhat, Mahadev College of Arts, Sciences & Education Earth and Environment U.S. Department of Agriculture Veterans and Small Farmers Outreach and Assistance in South Florida Initial	\$178,125
Boeglin, Werner College of Arts, Sciences & Education Physics U.S. Department of Energy A Fast Proton Diagnostic for NSTX Continuation	\$237,881
Boukerrou, Lakhdar College of Arts, Sciences & Education Institute of Water and Environment U.S. Department of Defense Africa Symposiums Support Initial	\$93,055
Boukerrou, Lakhdar College of Arts, Sciences & Education Institute of Water and Environment U.S. Department of Defense Africa Symposiums Support Initial	\$103,000
Briceno, Henry College of Arts, Sciences & Education SERC Environmental Protection Agency Water Quality Monitoring Project for the Florida Keys Increase	\$174,500

Briceno, Henry

College of Arts, Sciences & Education—SERC

National Park Service

Mechanisms and Conditions responsible for elevated TP levels

Increase

\$75,000

Caballero, Amaury

College of Engineering and Computing

Electrical and Computer Engineering

Miami-Dade County Public Schools

Electrical wiring Program for SED Students

Initial

\$15,400

Cano Jr, Miguel A

Robert Stempel College of Public Health & Social Work

Epidemiology

Alcohol Abuse and Alcoholism

Ethnic Discrimination & Alcohol Risk Behaviors among Hispanic Adolescents

Initial

\$105,437

Carmel, Justin H

College of Arts, Sciences & Education

Chemistry

National Science Foundation

Collaborative Research: Developing Items to Assess the Use

Initial

\$188,270

Cirion, Yisell

Academic Affairs - Other Units

Career and Talent Development

Peace Corps

Peace Corps Strategic Recruiter

Continuation

\$21,269

Cruz, Jeannette

Academic Affairs - Other Units

Multicultural Programs MMC

Office of Postsecondary Education

Student Support Services 2015-2020

Continuation

\$232,265

De Caprio, Anthony

College of Arts, Sciences & Education

Chemistry

National Institute of Justice

Novel Blood Protein Modification Assay for Retrospective Detection

Initial

\$467,885

De Caprio, Anthony

College of Arts, Sciences & Education

Chemistry

U.S. Department of Justice

Development of Improved Extraction/Purification Methods

Initial

\$50,000

De Caprio, Anthony

College of Arts, Sciences & Education
Chemistry

National Institute of Justice

Optimization of Pretreatment Parameters in Hair Analysis

Initial

\$50,000

Dinehart, Laura H

College of Arts, Sciences & Education

School of Education

South Florida After-School All Stars Inc.

South Florida ASAS Transfer Agreement 2016-2017

Increase

\$25,000

Fonseca, Brian

Steven J. Green School of International & Public Affairs

J Gordon Institute of Public Policy & Citizenship

Defense Intelligence Agency

Intelligence Community Centers for Academic Excellence

Initial

\$300,000

Fourqurean, James

College of Arts, Sciences & Education

Biology

National Park Service

Dry Tortugas National Park Seagrass Communities Assessment Project

Increase

\$35,000

Fourqurean, James

College of Arts, Sciences & Education

Biology

National Park Service

South Florida Caribbean Inventory and Monitoring Network

Increase

\$56,000

Frankovich, Thomas A

College of Arts, Sciences & Education

SERC

National Park Service

Linkages of Water Quality, Submerged Aquatic Vegetation

Increase

\$80,000

Gaiser, Evelyn

College of Arts, Sciences & Education—SEAS

National Science Foundation

LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research

Increase

\$39,123

Gaiser, Evelyn

College of Arts, Sciences & Education—SEAS

National Park Service

Assessing Near-field and Landscape Scale Ecological Effects

Increase

\$326,523

Gaiser, Evelyn

College of Arts, Sciences & Education—SEAS

South Florida Water Management District

Vegetation and periphyton monitoring in Biscayne Bay Coastal wetlands project

Initial

\$45,300

Gann, Daniel

Academic Affairs - Other Units

GIS Center and Digital Collection

U.S. Army Corps of Engineers

Monitoring of Tree Island Condition in the Southern Ever

Increase

\$18,622

Hadi, Mohammed A

College of Engineering and Computing

Civil and Environ Engineering

Florida Department of Transportation

SR 924/NW 119 Street Adaptive Signal Control Technology Pilot Project Evaluation Phase I

Initial

\$36,874

Ibarra, Julio E

Academic Affairs - Other Units

CIARA

National Science Foundation

Large Synoptic Survey Telescope (LSST)

Continuation

\$5,041,500

Ibarra, Julio E

Academic Affairs - Other Units

CIARA

National Science Foundation

IRNC: Backbone: Americas Africa Research and eduCation Lightpaths (AARCLight)

Increase

\$200,000

Ibarra, Julio E

Academic Affairs - Other Units

CIARA

National Science Foundation

IRNC Backbone - AmLight Express and Protect (Exp)

Continuation

\$2,000,000

Ilcheva, Maria

Steven J. Green School of International & Public Affairs

Metropolitan Center

Citizens Independent Transportation Trust

2017 Citizens' Independent Transportation Trust (CITT) Transportation Summit Planning

Increase

\$20

Jayachandran, Krishnaswamy

College of Arts, Sciences & Education

Earth and Environment

U.S. Department of Agriculture

A Foundation for New Farmers in South Florida

Initial

\$300,000

Jayachandran, Krishnaswamy

College of Arts, Sciences & Education

Earth and Environment

U.S. Department of Agriculture

START NOW "Student Training in Agricultural Research Techniques by

Continuation

\$83,000

Kadko, David

Academic Affairs - Other Units

ARC Applied Research Center

National Science Foundation

Collaborative Research: Pb-210 and Po-210 as tracers of scavenging and export

Initial

\$96,385

Kominoski, John

College of Arts, Sciences & Education

Biology

National Science Foundation

Collaborative Research: Do mangroves provide better coastal protection

Initial

\$39,386

Kutateladze, Besiki Luka

Steven J. Green School of International & Public Affairs

Criminal Justice

National Institute of Justice

LGBTQ/GNC Hate Crimes in Miami

Initial

\$499,597

Lagos, Leonel

Academic Affairs - Other Units

ARC Applied Research Center

Office of Environmental Management

Chemical Process Alternatives for Radioactive Waste

Continuation

\$308,750

Lagos, Leonel

Academic Affairs - Other Units

ARC Applied Research Center

Office of Environmental Management

Environmental Remediation Science and Technology

Continuation

\$308,750

Lagos, Leonel

Academic Affairs - Other Units—ARC

Office of Environmental Management

Waste and D & D Engineering and Technology Development

Continuation

\$308,750

Lagos, Leonel

Academic Affairs - Other Units—ARC

Office of Environmental Management

DOE-FIU Science and Technology Workforce Development Program

Continuation

\$308,750

Lagos, Leonel

Academic Affairs - Other Units—ARC

U.S. Department of Energy

Robust and Remote Radiation Hardened Robotic System for Tunnel Inspection

Increase

\$15,000

Lisetti, Christine

College of Engineering and Computing

Computer Info Sciences

U.S. Department of Education

Interactive Virtual Training (IVT) for Early Career Teachers in Urban Schools

Increase

\$146,877

Madhivanan, Purnima

Robert Stempel College of Public Health & Social Work

Epidemiology

National Institutes of Health

Global Health Equity Scholars Program

Pre-Award

\$6,000

Madhivanan, Purnima

Robert Stempel College of Public Health & Social Work

Epidemiology

National Institutes of Health

Global Health Equity Scholars Program

Pre-Award

\$25,000

Maziak, Wasim

Robert Stempel College of Public Health & Social Work

Epidemiology

Fogarty International Center NIH

Translating evidence and building capacity to support water pipe control

Initial

\$374,093

Miguez, Maria Jose

College of Arts, Sciences & Education

SISH

National Institutes of Health

Alcohol and HIV: Bio-behavioral Interactions and Intervention-Year 3

Continuation

\$142,433

Montas-Hunter, Sonja S

Academic Affairs - Other Units

Student Access and Success

U.S. Department of Education

Educational Talent Search Program 2016-2021

Continuation

\$246,000

Montas-Hunter, Sonja S

Academic Affairs - Other Units

Student Access and Success

U.S. Department of Education

EV3 Robotics 2017-2018 21st Century Community Learning Centers

Initial

\$61,935

Montas-Hunter, Sonja S

Academic Affairs - Other Units—Student Access and Success
 U.S. Department of Education
 FIU McNair 2017-2022 Post-Baccalaureate Achievement Program
 Initial

\$243,874

Montas-Hunter, Sonja S

Academic Affairs - Other Units—Student Access and Success
 U.S. Department of Education
 FIU TRIO Upward Bound: Florida International University Upward Bound
 Increase

\$10,863

Munroe, Norman D

College of Engineering and Computing
 Mechanical and Mat Engineering
 National Action Council for Minorities
 NACME Initiative at Florida International University
 Increase

\$5,000

Munroe, Norman D

College of Engineering and Computing
 Mechanical and Mat Engineering
 National Action Council for Minorities
 NACME Initiative at Florida International University
 Increase

\$15,000

Munroe, Norman D

College of Engineering and Computing
 Mechanical and Mat Engineering
 Children's Trust
 FIU-ENLACE
 Initial

\$434,682

Munroe, Norman D

College of Engineering and Computing
 Mechanical and Mat Engineering
 Children's Trust
 FIU-ENLACE
 Initial

\$77,811

Murray, Edward P

Steven J. Green School of International & Public Affairs
 Metropolitan Center
 University of Miami
 JPMorgan + UM Housing Policy Toolkit
 Initial

\$10,000

Odai, Michelle L

Nicole Wertheim College of Nursing & Health Sciences
 Athletic Training
 National Athletic Trainers' Association
 Leadership Training to Support Improved Outcomes from Conference Travel
 Initial

\$4,992

O'Shea, Kevin

College of Arts, Sciences & Education—Chemistry

National Science Foundation

Collaborative Research: EAGER: Tailored sorbents for the removal of

Initial

\$35,000

Pala, Nezh

College of Engineering and Computing

Electrical & Computer Engineering

Army Research Laboratory

3D Simulation of THz Plasmonic Structures

Increase

\$7,105

Papastamatiou, Yannis Peter

College of Arts, Sciences & Education

Biology

Earthwatch Institute

Shark and ray conservation in Belize

Initial

\$53,497

Prospect, Sean Antonio

College of Arts, Sciences & Education

Community Engagement

After-School All Stars

Project SUPPORT (FIU After-School All-Stars) 2015-2016

Continuation

\$13,185

Raiker Jr, Joseph

College of Arts, Sciences & Education

Psychology

Children's Trust

After-school support program for youth at-risk for behavior problems

Initial

\$225,767

Rangaswami, Raju

College of Engineering and Computing

Computer Info Sciences

National Science Foundation

SHF: Small: Vertically Integrated Persistence

Initial

\$450,000

Rangaswami, Raju

College of Engineering and Computing

Computer Info Sciences

National Science Foundation

REU

Initial

\$8,000

Ross, Michael S

College of Arts, Sciences & Education

Earth and Environment

National Park Service

Ecosystem dynamics in the White Zone: history, drivers, and restoration implications

Increase

\$121,970

<p>Ross, Monique Serena Lara College of Engineering and Computing Computer Info Sciences National Science Foundation EAGER: Demystifying the Engineering and Computer Science Underrepresentation Initial</p>	\$71,206
<p>Royles, Daniel E Steven J. Green School of International & Public Affairs History Institute of Museum and Library Services Digital Archives for Virginia Key Initial</p>	\$7,664
<p>Russell, Valerie College of Arts, Sciences & Education Leadership and Professional Studies U.S. Department of Education Training Worlds Ahead Vocational Rehabilitation Counselors at FIU Continuation</p>	\$54,865
<p>Russell, Valerie College of Arts, Sciences & Education Leadership and Prof Stu U.S. Department of Education Subproject to 800005813: Student Support No F&A Continuation</p>	\$125,135
<p>Sah, Jay P College of Arts, Sciences & Education SERC U.S. Army Corps of Engineers Landscape pattern - Marl Prairie/Slough Gradients Increase</p>	\$96,280
<p>Sah, Jay P College of Arts, Sciences & Education SERC U.S. Army Corps of Engineers Monitoring of Tree Island Condition in the Southern Everglades Increase</p>	\$73,846
<p>Sah, Jay P College of Arts, Sciences & Education SERC U.S. Army Corps of Engineers Landscape Pattern- Ridge, Slough, and Tree Island Mosaics Increase</p>	\$91,690
<p>Sarmiento, Juan Pablo Academic Affairs - Other Units—Extreme Events Institute US Agency for International Development The Disaster Resilience and Climate in the Americas Program (DRCAP) Increase</p>	\$260,000

Sheehan Delgado, Diana Montserrat

Robert Stempel College of Public Health & Social Work
Epidemiology
Robert Wood Johnson Foundation
Role of social disorganization on sexual risk behavior
Initial

\$50,000

Soto Caro, Fabian

College of Arts, Sciences & Education
Psychology
National Institute of Mental Health
Perceptual and decisional processes underlying face perception biases
Initial

\$239,809

Sousa, Jacqueline Bueno

College of Business Administration Dean's Office
U.S. Small Business Administration
SBDC FIU 2017 - (FED - MAIN)
Increase

\$31,760

Tansel, Ibrahim N

College of Engineering and Computing
Mechanical and Mat Engineering
University of Central Florida
NEESAT Eclipse Ballooning 2017 (NEB2017)
Initial

\$4,200

Thiel, Markus

Steven J. Green School of International & Public Affairs
Politics and Intl Relations
Federal Republic of Germany
Germany: making choices
Initial

\$1,000

Traynor, Mark Patrick

Chaplin School of Hospitality and Tourism Management
Hospitality and Tourism Management
U.S. Department of Agriculture
2017-2018 Cochran Fellowship Program
Initial

\$87,626

Trexler, Joel

College of Arts, Sciences & Education
Biology
South Florida Water Management District
Otolith Analysis of Everglades
Initial

\$9,985

Trexler, Joel

College of Arts, Sciences & Education
Biology
U.S. Army Corps of Engineers
Response of Fish to the DECOMP Physical Model
Initial

\$165,000

Triay Melendez, Ines

Academic Affairs - Other Units—ARC

U.S. Department of Energy

MSI Mission-to-Market for Inclusive Economic Development

Initial

\$249,376

Uluagac, Arif Selcuk

College of Engineering and Computing

Electrical & Computer Engineering

National Science Foundation

SaTC: TTP: Small: Collaborative: WACA: Wearable-Assisted

Initial

\$357,200

Underwood, Sonia Miller

College of Arts, Sciences & Education—Chemistry

National Science Foundation

Collaborative Research: Creating assessments for student understanding

Initial

\$150,495

Underwood, Sonia Miller

College of Arts, Sciences & Education—Chemistry

National Science Foundation

Collaborative Research: Extending the Coherent Gateway to STEM

Initial

\$161,487

Volakis, John

College of Engineering and Computing

Engineering Deans Office

Northrop Grumman

Wideband Phased Array Studies

Supplemental

\$15,000

Volakis, John

College of Engineering and Computing

Engineering Deans Office

National Science Foundation

A New Class of Millimeter-wave Phased Array for Secure High Data

Initial

\$169,859

Volakis, John

College of Engineering and Computing

Engineering Deans Office

Rockwell Collins

Planar Differential Tightly Coupled Dipole Array

Initial

\$40,000

Wagner, Eric

Robert Stempel College of Public Health & Social Work

School of Social Work

National Institutes of Health

FIU-RCMI

Initial

\$2,624,990

Wagner, Eric

Robert Stempel College of Public Health & Social Work
 School of Social Work
 Health Resources & Services Administration
 Behavioral Health Workforce Education and Training (BHWET) Program
 Initial

\$466,073

Williams, Mark L

Robert Stempel College of Public Health & Social Work
 Health Policy and Management
 National Institutes of Health
 HIV risk and prevention venue affiliation among young (R01)
 Increase

\$2,829

Willoughby, Hugh E

College of Arts, Sciences & Education
 Earth and Environment
 National Science Foundation
 Mechanisms for Hurricane Motion and Intensity Change
 Initial

\$81,951

Xiao, Yi

College of Arts, Sciences & Education
 Chemistry
 National Institute of Justice
 Electrochemical and Colorimetric Aptamer-Based Sensors f
 Continuation

\$49,996

Zevallos, Juan Carlos

Herbert Wertheim College of Medicine
 Medical & Population Health Sciences Research
 Baptist Health South Florida
 Innovative Cardiac Health Intervention
 Initial

\$198,000

Zhong, Yu

College of Engineering and Computing
 Mechanical and Mat Engineering
 U.S. Department of Energy
 The Novel Hybrid Start-Off Model of High Performance Structural Alloys
 Increase

\$80,295

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

Name	Title	Email Address
Andrés G. Gil	Vice President for Research & Economic Development	Andres.gil@fiu.edu
Tonja Moore	Associate Vice President, Strategic Planning & Operations	Tonja.moore@fiu.edu
Luis P. Salas	Associate Vice President, International Research, Space Optimization and Compliance	Luis.salas@fiu.edu
Mirtha Alberto	Director, Budget & Cost Analysis	Mirtha.alberto@fiu.edu
Henry Artigues	Director, External Partnerships & Economic Development	Henry.artigues@fiu.edu
David Driesbach	Assistant Vice President, Research Information Systems	David.driesbach1@fiu.edu
Christopher Grayson	Director, Research Integrity	Christopher.grayson@fiu.edu
Emily Gresham	Assistant Vice President, Innovation & Economic Development	Emily.gresham@fiu.edu
Robert Gutierrez	Assistant Vice President, Research Development & Pre-Award	Robert.gutierrez@fiu.edu
Pedro Hernández	Director, Technology Management & Commercialization	Pedro.hernandez7@fiu.edu
Regnier Jurado	Director, Research Management Solutions	Regnier.jurado@fiu.edu
Donna Kiley	Director, Post-Award	Donna.kiley@fiu.edu
Maureen Pelham	Director, Research Development Director, Postdoctoral Scholar Services	Maureen.pelham@fiu.edu
Horatiu Vinerean	Director, Laboratory Animal Research ; Attending Veterinarian	Horatiu.vinerean@fiu.edu
Susan Webster	Director, Training & International Research Initiatives	Susan.webster@fiu.edu



OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT
 11200 SW 8th Street—MARC 430
 Miami, FL 33199
<http://research.fiu.edu>