Research & Economic Development ORED Communicator

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November 2017

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Contact Us (page 15) 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 foldedplate girder technology, as well as the highperformance 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.

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



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 decisionmaking 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 <u>ABC-UTC</u> <u>Conference website</u>.

Upcoming Events

November

- November 1, 11 am to 12 noon, WC 130, InWE Seminar Series: <u>Carbon gains and losses under nutrient</u> <u>enrichment in a mangrove wetland</u> presented by <u>Brita Jessen</u>
- November 8, 12 to 1 pm, AHC 1 #110, <u>How to support your teen in making good decisions about alcohol and other drugs</u>, presented by <u>Nicole Schatz</u>
- 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, <u>Probing Protein Conformational Dynamics from Single Molecules</u> to <u>Single Living Cells</u> by <u>Peter Lu</u>

December

- December 1, 11 am to 12 noon, AHC3 #205, <u>Hide and Seek: How to DNA Glycosylases Locate Oxidatively</u> <u>Damaged DNA Bases Amidst a Sea of Undamaged Bases</u> by <u>Susan Wallace</u>
- December 1, 2 to 3 pm, ECS 241, <u>IHMC Research: National Language Processing, Cyber Security and Big</u> <u>Data</u>, presented by <u>Bonnie Borr</u>
- 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 <u>Rachael Heuer</u>
- 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, <u>Citrus Health Network</u>, <u>Recent studies in dosing and sequencing pharmacological</u> <u>and behavioral treatments for ADHD: When They Go High, We Go Low</u>, presented by <u>William Pelham</u>
- December 14 and 15, 8 am to 4 pm, Broward County Convention Center, <u>9th Annual Southeast Florida</u> <u>Regional Climate Leadership Summit</u>, 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

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

Almirall, Jose R

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

\$25,000

\$89,102

\$108.310

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 Gaiser, Evelyn College of Arts, Sciences & Education—SEAS National Science Foundation LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$80,000
Increase Gaiser, Evelyn College of Arts, Sciences & Education—SEAS National Park Service Assessing Near-field and Landscape Scale Ecological Effects	\$39,123
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	
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	\$2,000,000 \$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, NezihCollege of Engineering and ComputingElectrical & Computer EngineeringArmy Research Laboratory3D Simulation of THz Plasmonic StructuresIncrease	\$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

Ross, Monique Serena Lara College of Engineering and Computing	
Computer Info Sciences	
National Science Foundation	
EAGER: Demystifying the Engineering and Computer Science Underrepresentation	451.0 0 <i>C</i>
Initial	\$71,206
Royles, Daniel E	
Steven J. Green School of International & Public Affairs	
History	
Institute of Museum and Library Services Digital Archives for Virginia Key	
Initial	\$7,664
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	\$54,865
Deven II Valant	
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	\$125,135
Sah, Jay P	
College of Arts, Sciences & Education	
SERC	
U.S. Army Corps of Engineers	
Landscape pattern - Marl Prairie/Slough Gradients Increase	\$96,280
	\$90,200
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	\$73,846
Sah, Jay P College of Arts, Sciences & Education	
SERC	
U.S. Army Corps of Engineers	
Landscape Pattern- Ridge, Slough, and Tree Island Mosaics	
Increase	\$91,690
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)	ተገረ ስ ስሳሳ
Increase	\$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 <u>http://research.fiu.edu/funding/#current</u>.

Limited Submissions

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

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