

FIU—USAID—Africa: increasing sustainable access to safe drinking water and sanitation¹

In Africa, women and girls are primarily responsible for the collection of water for their families, an activity that is time-consuming and limits their ability to make money or attend school. For this reason, it is especially important for them to have a voice in WASH policies and activities.

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FIU's West Africa Water Supply, Sanitation and Hygiene (<u>WA-WASH</u>) program is working to develop practical models of sustainable water, sanitation and hygiene (WASH) service delivery and to introduce innovative and low-cost water and sanitation technologies in West Africa. As of August 2015, the program enhanced access to potable water by constructing or rehabilitating water points and delivering improved water sources for more than 65,000 people. The project began in 2011 and is expected to end in 2017, with an estimated total funding of \$24 million.

The program has also had significant success in promoting gender equality. As of August 2015, WA-AWASH had trained 7,198 people on mainstreaming gender into WASH. The program helped hundreds of women gain access to plots for gardening and identified male gender champions, men who see value in working with women to address water access and management issues. Discussions have focused on the roles and positions of women in the management and maintenance of water infrastructure and village savings and loan associations. As a result, WA-WASH supported the establishment of 203 village savings and loan associations.

"In the past, we (women) wasted lots of time to fetch water. Currently, most of the women use the same time to carry out activities such as livestock or to practice trade that enable them to generate income," said Binta Keita, a woman whose village in Burkina Faso benefited from a public tap installed by the program. To further these efforts, WA-WASH has engaged stakeholders at the local and national levels to discuss strategies, national policies, and WASH in its target countries. The program has increased the involvement of women in water point management committees, with women now accounting for nearly 40 percent of the membership in those groups.

In Tanzania, inadequate access to water and sanitation services has enormous health, economic, and social consequences. Each year approximately 600,000 children under the age of 5 die from diarrheal disease related to lack of clean water and sanitation. Tanzania is one of the 15 countries responsible for 74 percent of the global burden of diarrhea and pneumonia mortality in these young children. A significant proportion of diarrheal disease can be prevented through safe drinking water and adequate sanitation and hygiene. The Tanzania Integrated Water Supply, Sanitation and Hygiene (iWASH) program focused on activities to increase access to safe drinking water, sanitation facilities, and hygiene services for rural communities in three districts in southern Tanzania. In FY 2015, iWASH used Open Data Kit, a tool that allows data collection using mobile devices, to monitor and verify sanitation data. This new data showed that more than 4,000 people gained access to improved sanitation facilities, mostly through the construction and rehabilitation of school latrines. The project strengthened the capacity of the private sector to provide WASH-related products and services that stimulate the supply side of the WASH services delivery chain, a critical component for sustainability. The project led to the creation of rope-pump fabrication workshops and low-cost drilling companies active in Tanzania, and the use of approximately 10,000 rope pumps, 60 percent of which are due to iWASH. From 2010 through 2016, the i-WASH project was funded at \$18.4 million.



The above are just two examples of projects led by <u>Maria Donoso</u> and <u>Lakhdar Boukerrou</u>. An initiative funded by USAID, coordinated by FIU and implemented around the world, these programs focus on providing water management services to people and ecosystems, including integrated water management policies, water supply, sanitation and hygiene improvements, and research and education programs in the water sector.

¹ adapted from USAID Report of Water Sector Activities Fiscal Year 2015—Safeguarding the World's Water

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Upcoming Events

March

- March 1, 8:30 am to 12:30 pm, FIU in DC, <u>Health Disparities Symposium</u>
- March 3, 9 am to 5:30 pm, EC 2300, 7th Annual Undergraduate Research Day, with Jonathan Vande Geest as keynote speaker
- March 3, 2 to 3 pm, ECS 241, <u>Trillion Sensors Technology: Research, Commercialization and Education</u>, presented by <u>Albert Pisano</u>
- March 6, 11 am to 1 pm, AHC5 #300, NIH Colloquium presented by Adelaida M. Rosario
- March 7,12 to 1 pm; AHC4 #402, <u>Blocking Mitochondrial Fission as Potential Therapy for Parkinson's</u> <u>Disease</u>, presented by <u>Kim Tieu</u>
- March 8, 1 to 3 pm, Naples Botanical Garden, <u>Nature's Bounty: Exploring Plants as Food in History</u>, <u>Conservation and Our Future</u>, presented by FIU's Center for Tropical Botany
- March 10, 9 to 10 am, EC 1109, Unconventional Applications of Conventional Imaging Methods, presented by <u>Arvind Pathak</u>
- March 10, 6:30 8:30 pm, SACS #160 (Student Academic Success Center auditorium), <u>Our Common</u> <u>Future—Speaking Science: Communicating the Climate Story</u>, presented by <u>Gavin Schmidt</u>
- March 22, 11 am to 12 noon, PG5 #134, Applications of ergonomics for lifting and transferring patients: Evidence from intervention studies, presented by <u>Arun Garg</u>
- March 29-30, 10 am to 4 pm, GC Ballrooms, <u>Conference for Undergraduate Research at FIU</u>
- March 30 & 31, 8:30 am to 5 pm, MARC Pavilion, 19th Annual Biomedical and Comparative Immunology Symposium, registration required

April

- April 7, 2 to 3 pm, ESC 241, <u>Procedural and Analytic Tools for the Development and Evaluation of Game</u> <u>Environments</u>, presented by <u>Magy Seif El-Nasar</u>
- April 12, 10 to 11 am, Naples Botanical Garden, <u>Eating Plants to Save Them</u>, presented by FIU's Center for Tropical Botany
- April 14, 2 to 3 pm, ECS 241, <u>Terahertz Systems-On-Chip Based on Nanotechnologies</u>, presented by <u>Frank</u> <u>Chang</u>

Awards Received—January 2017

FIU researchers were awarded \$5,055,638 in January 2017. Below is a listing of awards received.

Ahmed Salah Ibrahim MohamedCollege of Engineering and Computing, Elec and Computer EngineeringTexas A&M UniversityInitialOptical Wireless Communications: Complementary Technology for Solving\$6,912Alexander MebelCollege of Arts, Sciences & Education, ChemistryUniversity of HawaiiContinuationA Combined Experimental and Theoretical Study on the Unimolecular Decomp\$60,000

Anthony De Caprio College of Arts, Sciences & Education, Chemistry Vapor Shark	
Agreement Service Authorization Request between the FIU Board of Trustees and Vapor Shark	\$648
Arif Selcuk Uluagac College of Engineering and Computing, Elec and Computer Engineering National Science Foundation Initial Collaborative Research: SuRPASS: NSF SFS Unique Scholarship Program	\$5,860
Arindam Gan Chowdhury College of Engineering and Computing, Civil and Environ Engineering Sigmatech Inc Agreement	
Service Authorization Request between the FIU BoT and Sigmatech Inc.	\$21,011
Casey P Steadman Academic Affairs - The Wolfsonian City of Miami Beach Initial 2016-2017 General Operating Support	\$27,614
	\$27,014
Catherine Camille Coccia Stempel College of Public Health Social Work, Dietetics and Nutrition Florida State University Foundation Initial	
Helicopter Parenting of College Students: Strengthening Family	\$5,000
Cheng-Tin Gan College of Engineering and Computing, Civil and Environ Engineering Florida Department of Transportation Initial	
FSUTMS Portal Redesign and Maintenance Monitoring	\$28,600
Daniel Bagner College of Arts, Sciences & Education, Psychology Child Health and Human Development Initial	
Effect of Parent Emotion-Related Talk on Infant Behavior and Regulation	\$37,176
Daniel Blaeuer College of Communication, Architecture + The Arts, Communication Kettering Foundation Initial	
Discussion materials for adaption actions in southern Florida	\$10,000
Daniel Blaeuer College of Communication, Architecture + The Arts, Communication Kettering Foundation Initial	·
Learning exchange to explore framing options in community adaptation	\$5,000

David Garber College of Engineering and Computing, Civil and Environ Engineering Oceans Technology Group Initial Behavior of Algae-Based Binder Concrete	\$11,787
Demian D Chapman College of Arts, Sciences & Education, Biology Paul G. Allen Family Foundation Initial	<i>411,707</i>
Fin DNA Toolkit project	\$10,000
Elizabeth Cramer College of Arts, Sciences & Education, Teaching and Learning U.S. Department of Education Increase	
Project EDUCATE	\$288
Evelyn E Gaiser College of Arts, Sciences & Education, SEAS National Science Foundation Increase LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$585,731
	\$365,751
F Javier Francisco Ortega College of Arts, Sciences & Education, Biology Les Cayes Botanic Garden Initial	
DNA fingerprinting of the Haitian Palm ATTALEA CRASSISPATHA	\$3,875
Fabian Cevallos College of Engineering and Computing, Civil and Environ Engineering City of Doral Increase	
Transportation Engineering Technical and Research Support Services	\$1,942
Francisco Alberto Fernandez Lima College of Arts, Sciences & Education, Chemistry Beckman Coulter	
Agreement Service Authorization Request between the FIU Board of Trustees and Beckman Coulter	\$1,381
Francisco Alberto Fernandez Lima College of Arts, Sciences & Education, Chemistry National Science Foundation Initial	
CAREER: Development of gas-phase, post-ionization structural tools	\$18,000
Francisco Alberto Fernandez Lima College of Arts, Sciences & Education, Chemistry Berkshire Holding Corporation Agreement	
Service Authorization Request between the FIU Board of Trustees and Berkshire	\$302

Henry Briceno College of Arts, Sciences & Education, SERC National Science Foundation Increase LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$30,468
Hitendra Singh Chand Herbert Wertheim College of Medicine, Immunology National Institutes of Health Initial Targeting Hyperplastic Airway Cells Using a Small Molecule Inhibitor	\$183,125
Ines Triay Melendez Academic Affairs - Other Units ARC Applied Research Center Florida State University Initial Center for Actinide Science and Technology	\$44,025
Ines Triay Melendez Academic Affairs - Other Units ARC Applied Research Center Florida State University Initial Center for Actinide Science and Technology	\$135,339
Ines Triay Melendez Academic Affairs - Other Units ARC Applied Research Center Florida State University Pre-Award Center for Actinide Science and Technology	\$6,000
Jacqueline Bueno Sousa College of Business COB Deans Office Miami Bayside Foundation Initial SBDC-Miami Bayside Foundation	\$15,000
Jacqueline Bueno Sousa College of Business COB Deans Office University of West Florida Initial	
SBDC FIU 2017 Jeffrey Allen Boyd Herbert Wertheim College of Medicine, Human and Mol Genetics Fox Chase Cancer Center Supplemental	\$653,026
Identifying Determinants of PARP Inhibitor Sensitivity in Ovarian Cancer	\$16,526

John Kominoski College of Arts, Sciences & Education, Biology National Science Foundation Increase LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$70,913
Jose R Almirall College of Arts, Sciences & Education, Chemistry CTTSO Technical Support Working Group Supplemental Heroin Origin Determination using High-Resolution ICP-MS	\$83,371
Julio E Ibarra Academic Affairs - Other Units, CIARA National Science Foundation Initial IRNC: Backbone: Americas Africa Research and eduCation Lightpaths (AARCLight)	\$200,000
Kevin Boswell College of Arts, Sciences & Education, Biology Mote Marine Laboratory and Aquarium Increase Integration of acoustic methods for assessing fish spawning aggregations	\$88,431
Konstantinos Kavallieratos College of Arts, Sciences & Education, Chemistry Savannah River Nuclear Solutions LLC Increase Development of an Alternative Solvent Extraction Technology for Combined Cesium	\$312,344
Laura H Dinehart College of Arts, Sciences & Education School of Education Business & Leadership Inst Early Learning Initial 2016-2017 BLI Coordinating and Research Services	\$61,026
Leonel Lagos Academic Affairs - Other Units, ARC Applied Research Center University of Texas at Austin Initial Robust and Remote Radiation Hardened Robotic System for Tunnel Inspection	\$12,000
Lorraine Bahrick College of Arts, Sciences & Education, Psychology Child Health and Human Development Increase Intersensory Processing, Developmental Trajectories, and Longitudinal Outcomes	\$530,702
Maria Jose Miguez College of Arts, Sciences & Education, SISH Brown University Continuation Alcohol and HIV: Biobehavioral Interactions and Intervention - Research Component	\$146,105

Marisela Agudelo Herbert Wertheim College of Medicine, Immunology National Institutes of Health Continuation EtOH-induced Immunomodulation: Role of Histone Deacetylases and Cannabinoid Genes	\$216,974
Matthew DeGennaro College of Arts, Sciences & Education, Biology	φ210,271
University of Florida Initial	¢242.907
Southeastern Regional CoE in Vector-Borne Diseases: The Gateway Program Michael Cheng	\$242,897
Chaplin School of Hosp and Tourism Mgmt Howell Infused Spirits LLC Initial	
Flavored Pearls	\$22,643
Michael Heithaus College of Arts, Sciences & Education National Science Foundation	
Increase LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$67,830
Michael Heithaus College of Arts, Sciences & Education Paul G. Allen Family Foundation Increase	
THE GLOBAL FIN-PRINT: a worldwide underwater video survey of shark	\$240,000
Mohammed A Hadi College of Engineering and Computing, Civil and Environ Engineering Florida Department of Transportation	
Initial SW 8th Street Adaptive Signal Control Evaluation - Phase 2	\$50,000
Nezih Pala College of Engineering and Computing, Elec and Computer Engineering University of Utah	
Increase 3D Simulation of THz Plasmonic Structures	\$28,895
Priyanka Alluri College of Engineering and Computing, Civil and Environ Engineering University of North Florida Initial	
Evaluation of Incident Response Improvements for Statewide Application	\$50,000
Rene Price College of Arts, Sciences & Education, Earth and Environment National Science Foundation Increase	
LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$71,521

Rudolf Jaffe College of Arts, Sciences & Education, Chemistry National Science Foundation Increase	\$ 71.007
LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$71,937
Ruogu Fang College of Engineering and Computing, Computer Info Sciences Cornell University Initial	
Minimal Radiation Exposure Technology for Acute Stroke Assessment in CTPerfusion	\$5,000
Shanna L Burke Stempel College of Public Health and Social Work School of Social Work Neuroscience Centers of Florida Foundation Initial	
Development of a Battery of Measurement Instruments to Assess Caregiver Wellbeing	\$2,500
Shimon Wdowinski College of Arts, Sciences & Education, Earth and Environment National Science Foundation Initial	
Collaborative research: Space-based detection of sinkhole activities in central Florida	\$33,594
Shimon Wdowinski College of Arts, Sciences & Education, Earth and Environment National Science Foundation Increase LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$19,038
Tiffany Troxler	
College of Arts, Sciences & Education, SERC National Science Foundation Increase	
LTER: FCE LTER III - Coastal Oligotrophic Ecosystems Research	\$66,722
Todd Crowl College of Arts, Sciences & Education, SERC University of New Hampshire Increase	
Luquillo CZO: the role of hot spots and hot moments in tropical landscape evolution	\$57,574
William E Pelham Jr College of Arts, Sciences & Education, Psychology National Institute of Mental Health Pre-Award	
Examining Tolerance to CNS Stimulants in ADHD	\$128,985
Xia Jin College of Engineering and Computing, Civil and Environ Engineering Florida Department of Transportation Initial	
Large Truck Crash Analysis for Freight Mobility and Safety Enhancement in Florida	\$250,000

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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