ORED Communicator - February 2016

Office of Economic Research and Development, Florida International University

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StartUP FIU: sparking creativity, ingenuity, and technology transfer among faculty, students and entrepreneurs

FIU’s Innovation and Economic Development (IED) unit within the Office of Research and Economic Development (ORED) recently reached an agreement with Miami MedTech (MMT) to bring them to FIU’s Modesto Maidique Campus (MMC). The first external startup company to co-locate at FIU, MMT is an innovation center for the medical device industry, providing leadership and resources to translate ideas about medical needs into commercially viable solutions. Located in the OE building, MMT employees plan to work closely with FIU faculty and students to develop its company.

These types of partnerships mark an exciting new role for FIU in Miami’s innovation and entrepreneurship ecosystem as plans are well underway to launch StartUP FIU—a University-wide effort to stimulate and support collaboration among faculty, students and entrepreneurs towards the creation and development of local and high impact companies. The FIU-MMT agreement is the beginning of an initiative to overcome a regional hurdle—the lack of comprehensive support to foster healthcare innovation through private/academic partnerships. The goal is to create the ideal incubator-type ecosystem in South Florida for inventive and entrepreneurial scientists, researchers and medical professionals to realize the commercial potential of their medical device ideas.

The FIU-MMT collaboration presents a great opportunity for economic development in Miami. The medical devices industry represents a $500B market in which 80 percent of inventions originate from users. Founded by two entrepreneurs with vast experience in medical innovation, Dr. Pedro Martínez Clark, a board-certified interventional cardiologist, and Mr. Max Méndez, a medical device developer and former FIU student in mechanical engineering, MMT is currently developing a product that will provide 150,000 otherwise ineligible patients with access to a cardiovascular treatment device that is far less invasive than conventional approaches. MMT is also working with other local and international innovators, leveraging its unique clinical network in Latin America, to identify a strong portfolio of projects and products with tremendous potential to impact global healthcare.

MMT is just the first of what is expected to be many innovation opportunities available to early stage startups, FIU students and faculty under the auspices of StartUP FIU. Through StartUP FIU, the University is creating the infrastructure to coordinate ongoing efforts to advance its innovative technologies, launch companies and generate jobs for our community. To be located in an 8,000 sf incubator on the third floor of the MARC building, StartUP FIU will deliver signature programming, such as its 13-week program for teams of entrepreneurs that culminates in pitching to real investors, to support the formation of new technology companies. Companies co-locating at FIU will have access to FIU’s facilities and resources, experts and entrepreneurs in residence, and collaboration with innovative and entrepreneurial faculty and students. Partnering with existing University resources such as the College of Business’s Small Business Development Center, CARTA’s Miami Beach Urban Studios, SCIS’s TechStation, ORED’s Technology Transfer and Commercialization unit, the College of Law’s Small Business Clinic, the Honors College, and the College of Engineering and Computing, StartUP FIU will be a one-stop shop for entrepreneurs interested in starting their own businesses.

In another exciting development for the IED unit, Dr. Shekhar Bhansali, Dr. Yogeswaran Umasankar, and Mr. Peter Hernández recently received an Innovation Corps (I-Corps) award from the National Science Foundation (NSF) with support from FIU’s Technology Management and Commercialization unit. Dr. Bhansali, chair of the Electrical and Computer Engineering Department, will be the Principal Investigator (the second time that he has served in this capacity on a NSF I-Corps); Dr. Umasankar, a postdoctoral associate, will be the Entrepreneurial Lead for the team; and Mr. Hernández, Director of FIU’s Technology Management and Commercialization unit, will be the team’s mentor. The team will be exploring the commercial feasibility of a device developed by Dr. Umasankar, a wearable transdermal alcohol sensor capable of continually monitoring the blood alcohol content of its wearer. The activities that this I-Corps team will focus on include development of a working prototype, determination of potential customer needs and requirements, and preparation to launch a company.
Upcoming Events

February 2016
- February 3, 10 am to 12 noon, MARC Pavilion, Global Energy Outlook to 2040, RSVP required
- February 3, 11 am to 5:30 pm, CBC Special Events Center, SLSC All-Hands Meeting—RSVP required
- February 3, 12 to 1:30 pm, Faculty Club, Faculty Mentor Program Lunch Gathering—RSVP for 2/3 Mentor Lunch
- February 4, 12 to 1:30 pm, Faculty Club, Faculty Mentor Program Lunch Gathering—RSVP for 2/4 Mentor Lunch
- February 5, 9 to 10 am, Engineering Campus (EC) #2300, Improvements in Ocular Blood Flow and Vision following Electro-Stimulation Therapies for Retinal Disease, presented by Ava Bittner
- February 5, 3 to 4 pm, EC #2300, Insights into the Culture of the Department of Defense and its Impact on Applied Research Requirements, presented by Joseph Sinicrope
- February 11, 8:30 am to 5 pm, EC #2300, 2016 Workshop of Origami Design for Integration of Self-Assembling Systems for Engineering Innovation, organized by Stavros Georgakopoulos
- February 12, 9 to 10 am, EC #2300, Neurological Injury, Plasticity and Respiratory Rehabilitation, presented by David Fuller
- February 19, 8:30 am to 2:30 pm, EC #2300, 6th Annual Undergraduate Research Day
- February 22, 9 am to 12 noon, WC 130, NIH Funding Programs and Resources Seminar for Academic Innovators and Entrepreneurs, RSVP required

March 2016
- March 1 & 2, 8 am to 5 pm, MARC Pavilion, 6th International Conference on Global Health, RSVP required
- March 3 & 4, 8 am to 6 pm, MARC Pavilion, 18th Annual Biomedical and Comparative Immunology Symposium
- March 4, 9 to 10 am, EC 2300, Heart Valve Development and Disease Mechanisms, presented by Katherine Yutzey
- March 11, 9 to 10 am, EC 2300, 3D Data, presented by Amir Shmuel
- March 11, 2 to 3 pm, ECS 241, Understanding, Designing and Developing Natural User Interactions for Children, presented by Lisa Anthony
- March 18, 2 to 3 pm, ECS 241, Using Process Modeling and Analysis Techniques to Reduce Errors in Healthcare, presented by Lori A. Clarke
- March 25, 9 to 10 am, EC 2300, The Light Works: Non-invasive 3D Optical Imaging of Tissue Morphology and Microcirculations in Vivo, presented by Ruikang (Ricky) Wang
- March 25, 2 to 3 pm, ECS 241, SCIS Distinguished Women Lecture Series, presented by Tracy Camp

Awards Received—December 2015
FIU researchers were awarded $10,413,487 in December 2015. Below is a listing of awards received.

PI: Malek Adjouadi
ELEC AND COMPUTER ENG
Award Action Type: Initial
AWARDING SPONSOR: National Science Foundation
TITLE: MRI: Development of an Integrated Neuroimaging Instrument
AWARD: $3,755,112

PI: Marisela Agudelo
COM IMMUNOLOGY
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: EtOH-induced Immunomodulation: Role of Histone Deacetylases
AWARD: $25,257

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu
<table>
<thead>
<tr>
<th>PI: Benjamin C Amick Iii</th>
<th>HEALTH POLICY AND MGMT</th>
<th>Award Action Type: Initial</th>
<th>AWARDING SPONSOR: Univ of Texas Health Science Ctr Houston</th>
<th>TITLE: Service Agreement - New Year New You</th>
<th>AWARD: $22,669</th>
</tr>
</thead>
</table>

| PI: Joann Arnowitz | JEWISH MUSEUM OF FLORIDA-FIU | Award Action Type: Initial | AWARDING SPONSOR: Miami-Dade County Cultural Affairs | TITLE: FY 2015-2016 (MCI) Grants Program | AWARD: $161,386 |


| PI: Eric Bishop-Von Wettberg | BIOLOGY | Award Action Type: Increase | AWARDING SPONSOR: University of California Davis | TITLE: Deducing the genomic footprint and functional impact of chickpea | AWARD: $214,548 |

| PI: Kevin Mershon Boswell | INST OF WATER AND ENVIRONMENT | Award Action Type: Increase | AWARDING SPONSOR: Industrial Economics Inc | TITLE: Analysis of acoustic data from Deep Water Horizon | AWARD: $11,878 |


| PI: Shu-Ching Chen | INTERNATIONAL HURRICANE CENTER | Award Action Type: Supplemental | AWARDING SPONSOR: Florida Office of Insurance Regulation | TITLE: FPHL Model Operation and Maintenance, and Model Upgrades | AWARD: $3,811 |

For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu
PI: Erika K Coles  
CENTER FOR CHILDREN AND FAM  
Award Action Type: Initial  
AWARDING SPONSOR: Nova Southeastern University  
TITLE: Behavior Assessment Team  
AWARD: $ 6,600

PI: Jose Miguel Cruz  
LATIN AMERICAN AND CARIB CTR  
Award Action Type: Initial  
AWARDING SPONSOR: Open Society Foundations  
TITLE: Systematization of the Community-Based Police in El Salvador  
AWARD: $ 67,329

PI: Ronald Philip Fisher  
PSYCHOLOGY  
Award Action Type: Initial  
AWARDING SPONSOR: Federal Bureau of Investigation  
TITLE: Interviewing information sources twice with the Cognitive Interview  
AWARD: $ 187,883

PI: James Fourquean  
SOUTHEAST ENV RESEARCH CTR  
Award Action Type: Initial  
AWARDING SPONSOR: Islamorada, Village of Islands  
TITLE: Baseline Monitoring of Canals in the Village of Islamorada  
AWARD: $ 17,454

PI: Arindam Gan Chowdhury  
INTERNATIONAL HURRICANE CENTER  
Award Action Type: Initial  
AWARDING SPONSOR: Florida Division of Emergency Management  
TITLE: FIU’s Hurricane Loss Reduction for Housing in Florida  
AWARD: $ 282,389

PI: Orlando J Garcia  
MUSIC  
Award Action Type: Initial  
AWARDING SPONSOR: Earle Brown Music Foundation  
TITLE: New Music Miami Brown Feldman Concert  
AWARD: $ 3,000

PI: Ismail Guvenc  
ELEC AND COMPUTER ENG  
Award Action Type: Increase  
AWARDING SPONSOR: DOCOMO Innovations Inc  
TITLE: Compressive Sensing for Improving Accuracy of Fingerprint  
AWARD: $ 25,000

PI: Mohammed A Hadi  
CIVIL AND ENVIRON ENGINEERING  
Award Action Type: Supplemental  
AWARDING SPONSOR: University of Florida  
TITLE: STRIDE Internal Steering Committee  
AWARD: $ 997

PI: Mohammed A Hadi  
CIVIL AND ENVIRON ENGINEERING  
Award Action Type: Supplemental  
AWARDING SPONSOR: University of Florida  
TITLE: STRIDE Internal Steering Committee  
AWARD: $ 6,999
<table>
<thead>
<tr>
<th>PI: Julio E Ibarra</th>
<th>CIARA</th>
<th>Award Action Type: Continuation</th>
<th>AWARDING SPONSOR: Assoc of Univs for Rsrch in Astronomy</th>
<th>TITLE: Large Synoptic Survey Telescope (LSST)</th>
<th>AWARD: $1,525,001</th>
</tr>
</thead>
<tbody>
<tr>
<td>PI: Julio E Ibarra</td>
<td>CIARA</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: National Science Foundation</td>
<td>TITLE: Campus Cyber Infrastructure- CC*DNI</td>
<td>AWARD: $200,787</td>
</tr>
<tr>
<td>PI: Maria Ilcheva</td>
<td>METROPOLITAN CENTER</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: Miami-Dade County Transit</td>
<td>TITLE: Miami-Dade Transit Department: 2015 Employee Satisfaction Survey</td>
<td>AWARD: $24,500</td>
</tr>
<tr>
<td>PI: Xia Jin</td>
<td>CIVIL AND ENVIRON ENGINEERING</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: Florida Department of Transportation</td>
<td>TITLE: Incorporating Transit Service Decisions into Express Lane Programs</td>
<td>AWARD: $159,720</td>
</tr>
<tr>
<td>PI: Chenzhong Li</td>
<td>BIOMEDICAL ENGINEERING</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: Northeastern University</td>
<td>TITLE: NRT-IGE: Nanomedicine Academy</td>
<td>AWARD: $15,000</td>
</tr>
<tr>
<td>PI: Debra Lundy</td>
<td>SCH OF HOSP AND TOURISM MGMT</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: Miami-Dade County Cultural Affairs</td>
<td>TITLE: 2015-16 FEST South Beach Wine &amp; Food Festival</td>
<td>AWARD: $78,041</td>
</tr>
<tr>
<td>PI: Bruce Mc Cord</td>
<td>CHEMISTRY</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: QIAGEN</td>
<td>TITLE: Internal Validation of QIAGEN's Investigator 24plex (6 dye) STR kit</td>
<td>AWARD: $27,340</td>
</tr>
<tr>
<td>PI: April Ruth Merleaux</td>
<td>HISTORY</td>
<td>Award Action Type: Initial</td>
<td>AWARDING SPONSOR: National Endowment for the Humanities</td>
<td>TITLE: Ecohumanities for Cities in Crisis</td>
<td>AWARD: $162,242</td>
</tr>
</tbody>
</table>
PI: Osama A Mohammed  
ELEC AND COMPUTER ENG  
Award Action Type: Increase  
AWARDING SPONSOR: University of Arkansas  
TITLE: An Interdisciplinary Approach to Integratable, Composable  
AWARD: $ 289,970

PI: Francisco Mora  
LATIN AMERICAN AND CARIB CTR  
Award Action Type: Increase  
AWARDING SPONSOR: Tinker Foundation Inc.  
TITLE: Tinker Field Research Grant  
AWARD: $ 15,000

PI: Norman D Munroe  
OSAS ENGINEERING AND COMPUTING  
Award Action Type: Initial  
AWARDING SPONSOR: Children's Trust  
TITLE: FIU -ENLACE 15-16  
AWARD: $ 412,903

PI: Richard Olson  
INTERNATIONAL HURRICANE CENTER  
Award Action Type: Initial  
AWARDING SPONSOR: Florida Division of Emergency Management  
TITLE: FIU's Hurricane Loss Reduction for Housing in Florida  
AWARD: $ 284,671

PI: Timothy F Page  
HEALTH POLICY AND MGMT  
Award Action Type: Initial  
AWARDING SPONSOR: Meharry Medical College  
TITLE: Development of an Online Certificate in Health Economics  
AWARD: $ 16,536

PI: Jordana Pomeroy  
FROST ART MUSEUM  
Award Action Type: Initial  
AWARDING SPONSOR: Florida Division of Cultural Affairs  
TITLE: General Support Program 2015-2016  
AWARD: $ 67,258

PI: Allan Rosenbaum  
INST PUB MGMT & COMM SERVICE  
Award Action Type: Initial  
AWARDING SPONSOR: Miami-Dade County Cultural Affairs  
TITLE: TDC XXII Inter-American Conference of Mayors and Local  
AWARD: $ 14,400

PI: Nicole Ruggiano  
SCHOOL OF SOCIAL WORK  
Award Action Type: Initial  
AWARDING SPONSOR: Gerontological Society of America  
TITLE: Expansion of Health Information Technology for Hispanic Dementia  
AWARD: $ 9,966

PI: Jay Sah  
SOUTHEAST ENV RESEARCH CTR  
Award Action Type: Initial  
AWARDING SPONSOR: South Florida Water Management District  
TITLE: Status of Vegetation Structure and Composition within the Habitat  
AWARD: $ 38,000
**PI:** Arif Islam Sarwat  
**ELEC AND COMPUTER ENG**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** National Science Foundation  
**TITLE:** CAREER: Cyber Physical Solution for High Penetration Renewables  
**AWARD:** $82,837

**PI:** Althea M Silvera  
**LIBRARY OPERATIONS**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Center for Research Libraries  
**TITLE:** Guantanamo Naval Base Newspapers Digitization Project  
**AWARD:** $5,000

**PI:** Jacqueline Bueno Sousa  
**COB DEANS OFFICE**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** University of West Florida  
**TITLE:** FSBDC 2016 - YR 3  
**AWARD:** $128,440

**PI:** Jacqueline Bueno Sousa  
**COB DEANS OFFICE**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** University of West Florida  
**TITLE:** FSBDC 2016 - YR 3  
**AWARD:** $9,329

**PI:** Jacqueline Bueno Sousa  
**COB DEANS OFFICE**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** University of West Florida  
**TITLE:** FSBDC 2016 - YR 3  
**AWARD:** $58,321

**PI:** Casey Steadman  
**THE WOLFSONIAN**  
**Award Action Type:** Supplemental  
**AWARDING SPONSOR:** Emily Hall Tremaine Foundation  
**TITLE:** Philodendron: From Pan-Latin Exotic to American Modern  
**AWARD:** $25,000

**PI:** John Stuart  
**ARCHITECT AND THE ARTS DEANS OFF**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** City of Miami Beach  
**TITLE:** City of Miami Beach Junior Cultural Anchor Grant 2015-2016  
**AWARD:** $24,364

**PI:** Michael C Sukop  
**SOUTHEAST ENV RESEARCH CTR**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** Colorado State University  
**TITLE:** Urban Water Innovation Network (U-WIN): Transitioning  
**AWARD:** $71,181

**PI:** Berrin Tansel  
**CIVIL AND ENVIRON ENGINEERING**  
**Award Action Type:** Initial  
**AWARDING SPONSOR:** U.S. Department of Transportation  
**TITLE:** Dwight David Eisenhower Transportation Fellowship Program  
**AWARD:** $2,000
PI: Berrin Tansel
CIVIL AND ENVIRONMENTAL ENGINEERING
Award Action Type: Initial
AWARDING SPONSOR: U.S. Department of Transportation
TITLE: Dwight David Eisenhower Transportation Fellowship Program  
AWARD: $  2,000

PI: Joel Trexler
SOUTHEAST ENVIRONMENTAL RESEARCH CTR
Award Action Type: Supplemental
AWARDING SPONSOR: Springer
TITLE: Oecologia Editor-in-Chief  
AWARD: $  100,836

PI: Diana Valle-Riestra
COE COMMUNITY ENGAGEMENT
Award Action Type: Initial
AWARDING SPONSOR: University of Central Florida
TITLE: Project Panther LIFE 2015-2020 Florida Consortium on Inclusive  
AWARD: $  96,078

PI: Feion Villodas
CENTER FOR CHILDREN AND FAMILY
Award Action Type: Initial
AWARDING SPONSOR: Children's Trust
TITLE: After-school support program for youth at-risk for behavior problems  
AWARD: $  158,133

PI: Chunlei Wang
ELEC AND COMPUTER ENGINEERING
Award Action Type: Supplemental
AWARDING SPONSOR: North Carolina State University
TITLE: Advanced Self-Powered Systems of Integrated Sensor Technologies  
AWARD: $  72,000

PI: Yi Xiao
BIOMOLECULAR SCIENCE INSTITUTE
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Aptamer-Based, Exonuclease-Amplified, Colorimetric, Onsite  
AWARD: $  295,546

PI: Yi Xiao
BIOMOLECULAR SCIENCE INSTITUTE
Award Action Type: Increase
AWARDING SPONSOR: National Institutes of Health
TITLE: Aptamer-Based, Exonuclease-Amplified, Colorimetric, Onsite  
AWARD: $  41,694

PI: Ping Zhu
INTERNATIONAL HURRICANE CENTER
Award Action Type: Increase
AWARDING SPONSOR: University of Miami
TITLE: CARTHE II - Consortium for Advanced Research on Transport  
AWARD: $  69,338

PI: Ioannis Zisis
INTERNATIONAL HURRICANE CENTER
Award Action Type: Initial
AWARDING SPONSOR: Florida Division of Emergency Management
TITLE: FIU's Hurricane Loss Reduction for Housing in Florida  
AWARD: $  132,941
**Funding Opportunities**
The funding opportunities are in a separate excel file, which includes a filter for agency, date and opportunity number.

**Contact ORED Senior Leadership**

<table>
<thead>
<tr>
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<th>Title</th>
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<td>Aida Reus</td>
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<td>Horatiu Vinerean</td>
<td>Director, Laboratory Animal Research; Attending Veterinian</td>
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</tr>
</tbody>
</table>

**OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT**
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For updates, corrections, suggestions, and/or general comments, please email Mercedes.rodriguez@fiu.edu