**Monthly New Awards - September 2017**

**Ahmed, Kareem A. / Blair, Richard George / Kapat, Jayanta S. / Vasu Sumathi, Subith**
Multitude Characterization and Prediction of DOE Advanced Biofuels Properties
U.S. Department of Energy
$894,336
College of Engineering and Computer Science - Center for Advanced Turbomachinery and Energy Research / Mechanical and Aerospace Engineering / Florida Space Institute

**Almagro-Moreno, Salvador**
Genomic Adaptations of Vibrio Vulnificus Allowing Host Microbiome Invasion During Pathogenic Infection
United States-Israel Binational Science Foundation
$30,000
College of Medicine - School of Biomedical Science

**Amezcua Correa, Rodrigo / Schulzen, Axel**
Antiresonant Hollow Core Fibers for Extreme Light Propagation
U.S. Army Research Office
$389,600
College of Optics and Photonics - CREOL

**Bass, Michael**
Modeling Studies of Yb-Doped Slab Amplifiers to Determine Spatially Resolved Inversion and Spatially Resolved Gain Profile, Deriving Influence on Amplified Beam Profile as well as Deriving Origins
TRUMPF, Inc.
$49,449
College of Optics and Photonics - CREOL

**Blair, Richard George**
Technology Translation: Demonstration and Validation of a Novel Field Drug Test System for Law Enforcement
National Science Foundation
$200,000
College of Sciences - Physics / Faculty Cluster Initiative - Energy Conversion and Propulsion

**Burke, Shawn**
JJHWS Behavior Change App Evaluation
Merging Traffic
$25,000
Institute for Simulation and Training – Dept. of Human Systems Integration Research
Chambers, Lisa
Marsh to Mangrove Habitat Switching: Increasing the Coastal Carbon Sink?
University of South Florida
$245,394
College of Sciences - Biology

Christodoulides, Demetrios N. / Khajavikhan, Mercedeh
Supersymmetry in Optics & Photonics
U.S. Army Research Office
$300,000
College of Optics and Photonics - CREOL

Coffey, Kevin R. / Jiang, Tengfei / Kaden, William Edward / Mucciolo, Eduardo R. / Schelling, Patrick K.
Collaborative Research: Type I: Interconnects Beyond Cu
National Science Foundation
$75,499
Advanced Materials Processing and Analysis Center / College of Sciences - Physics

Crabbs, Robert F.
Laser Testing Support
U.S. Air Force
$80,656
College of Optics and Photonics - CREOL

Ellis, Amy Beth
Center for Community Schools
Florida Department of Education
$46,250
College of Health and Public Affairs

Fiore, Stephen M.
Team Science Training for Virginia Marine Science Graduate Student Education
Virginia Institute of Marine Science
$67,227
College of Arts and Humanities - Philosophy / Institute for Simulation and Training

Giroux, Amy L.
IPA Agreement for Amy Giroux
U.S. Department of Veterans Affairs
$25,493
College of Arts and Humanities - Arts Dean's Office

Hamilton, Angela Catherine
JJHWS Behavior Change App Development and Testing
Merging Traffic
$30,000
Institute for Simulation and Training - Mixed Emerging Technology Integration Lab
Huang, Helen J / Huang, Hsin-Hsiung / Thiamwong, Ladda
Adaptation of Brain and Body Responses to Perturbations During Gait in Young and Older Adults
National Institutes of Health
$1,494,714
College of Engineering and Computer Science - Mechanical and Aerospace Engineering / College of Nursing - Nursing / College of Sciences - Statistics and Actuarial Science

Jin, Yier / Zhang, Teng
Security Certification of Autonomous CyberPhysical Systems
National Science Foundation
$830,649
College of Engineering and Computer Science - Department of Electrical and Computer Engineering / College of Sciences - Mathematics

Katsevich, Alexander I
Development of Novel CT Data Imaging Algorithms
iTomography Corp.
$85,168
College of Sciences - Mathematics

Kent-Walsh, Jennifer E.
FAAST Atlantic Regional Demonstration Center Project 2017-2018
Florida Alliance for Assistive Services and Technology, Inc.
$18,375
College of Health and Public Affairs - Communication Sciences and Disorders

Khajavikhan, Mercedeh
EAGER: Fundamental Considerations in Using Non-Hermitian Microscale Resonant Optical Structures for Rotation Sensing
National Science Foundation
$200,000
College of Optics and Photonics - CREOL

Khaled, Annette
Inhibiting Protein-Folding Activity for the Treatment of Metastatic Breast Cancer
Breast Cancer Research Foundation
$250,000
College of Medicine - School of Biomedical Science

Lamanna, Jacqueline M. / Conner, Norma E. / Loerzel, Victoria / Valenti, Michael T.
The Invisible Man: Lived Experiences of Older Male Caregivers
American Nurses Foundation
$5,000
College of Nursing
Nutta, Joyce W. / Johnson, Jerry / Mihai, Florin / Purmensky, Kerry  
Dual Language Support through Technology Enhanced Programs and Strategies  
U.S. Department of Education  
$2,691,313  
College of Education and Human Performance - School of Teaching, Learning and Leadership / College of Arts and Humanities - Modern Languages and Literatures  

Qu, Zhihua / Dimitrovski, Aleksandar / Reedy, Robert Martin / Sun, Wei / Zhou, Qun  
Scalable/Secure Cooperative Algorithms and Framework for Extremely-high Penetration Solar Integration (SolarExPert)  
U.S. Department of Energy  
$1,275,000  
College of Engineering and Computer Science (CECS) - Department of Electrical and Computer Engineering / Faculty Cluster Initiative - Renewable Energy Systems / Florida Solar Energy Center  

Raghavan, Seetha  
FSGC Advanced Thermal and Environmental Barrier Coating Configurations for Durability in Reusable Systems under Extreme Environments  
NASA Shared Services Center  
$25,000  
College of Engineering and Computer Science - Mechanical and Aerospace Engineering  

Richardson, Martin C.  
High Power Thulium Laser Marking System Development for Visibly Transparent Polymers  
EoL Co., Ltd.  
$72,000  
College of Optics and Photonics - CREOL  

Schleith, Susan T.  
Connecting Communities with Opportunities for Success  
Battelle Memorial Institute  
$50,000  
Florida Solar Energy Center  

Seal, Sudipta / Branting, Scott / Roy, Tania / Sohn, Yongho  
MRI: Acquisition of State of the Art Imaging X-Ray Photoelectron Spectroscopy: Integrating Nanotechnology, Catalysis, Physics, Manufacturing and Archaeological Research & Education  
National Science Foundation  
$629,650  
Advanced Materials Processing and Analysis Center / NanoScience Technology Center / College of Sciences - Anthropology  

Sohn, Yongho  
CMAS and Heavy Fuel Oil Corrosion Resistance Test of Thermal Barrier Coatings for Gas Turbine Applications  
Doosan Heavy Industries and Construction Company  
$58,252  
Advanced Materials Processing and Analysis Center
**Sohn, Yongho / Coffey, Kevin R.**
Mechanisms of Retention and Transport of Fission Products in Virgin and Irradiated Nuclear Graphite
U.S. Department of Energy
$239,281
Advanced Materials Processing and Analysis Center

**Vodopyanov, Konstantin L.**
Fundamental Studies of Nonlinear Optics and Laser-plasma Phenomena in Gases and Solids Using High-Power LWIR Lasers
The Regents of The University of California
$100,000
College of Optics and Photonics - CREOL

**Wahl, Thomas**
An Indicator for U.S. Coastal Extreme Sea Levels
National Oceanic and Atmospheric Administration (NOAA)
$266,473
College of Engineering and Computer Science - Civil, Environmental, and Construction Engineering / Faculty Cluster Initiative - Sustainable Coastal Systems

**Wells, Adam J.**
Effects of a Simulated Soccer Match on Neuropsychological and Cognitive Function: A Pilot Study (ID: 1062677)
American Athletic Conference Academic Consortium
$8,000
College of Education and Human Performance - Educational and Human Sciences