



FLORIDA SPACE INSTITUTE

1st Space Research Initiative Annual Workshop

Location : **Univ. of Florida, Gainesville**
Mathews Suite, JW Reitz Union (4th Floor), UF

Date : **November 14, 2013**

Name	Topic	Time slot
Mr. Ramon Lugo Director, Florida Space Institute	<i>Welcome</i>	8.00 AM - 8.15 AM
Dr. David Norton VP of Research, Univ. of Florida	<i>Opening Remarks</i>	8.15 AM - 8.30 AM
Dr. Xun Gong (UCF)	<i>Flexible Phase Shifters : A Pathway to Future Space vehicle Antenna Systems</i>	8.30 AM - 8.40 AM
Dr. Aman Behal (UCF) & Dr. Warren Dixon (UFL)	<i>Collaborative project : Image-Based Motion Estimation and Tracking for Collaborative Space Assets</i>	8.40 AM - 8.50 AM
Dr. Ranga Narayanan (UFL)	<i>Low Gravity effects on Faraday Instability – applications to microgravity Science and space enabling operations</i>	8.50 AM - 9.00 AM

Dr. Nicoleta Hickman (UCF) & Dr. Chang Yu-Wu (UFL)	<i>Collaborative project : Fully-functional space and terrestrial Shield (PV/EDS) and Photovoltaic / Electrostatic Lunar Dust Collector (PV/ELDC) hybrid systems for dust</i>	9.00 AM - 9.10 AM
Dr. Weiwei Deng (UCF)	<i>Multiplex MEMS Emitters with Augmented Electrospray Thrust</i>	9.10 AM - 9.20 AM
Dr. Corin Segal (UFL)	<i>Hypersonic aerodynamics studies for reusable space vehicles</i>	9.20 AM - 9.30 AM

BREAK (and networking)		9.30 AM - 10.00 AM
Dr. Richard Blair (UCF) & Dr. Ghatu Subhash (UFL)	<i>Collaborative project : Refractory Nanoelectroc ceramic Composites for Enhanced Radioisotope Thermoelectric Power generation in Long Duration Space Flight</i>	10.00 AM - 10.10 AM
Dr. Nan Qin (UCF)	<i>Ammonia Borane/Polymer Composite Materials for Space Radiation Shielding Applications</i>	10.10 AM - 10.20 AM
Dr. Lei Zhai (UCF) & Dr. Jenshan Lin (UFL)	<i>Collaborative project : Novel Humidity Independent Wireless Hydrogen Sensors Based on Carbon Nanotube Aerogels</i>	10.20 AM - 10.30 AM
Dr. Masahiro Ishigami (UCF)	<i>Graphene Based Uncooled far-infrared spectrometer-on-chip</i>	10.30 AM - 10.40 AM
Dr. Andrew Schuerger (UFL)	<i>The DART-2 Dust Sampler : moving from a prototype to an operational system in 2013</i>	10.40 AM - 10.50 AM
Dr. Rob Ferl (UFL)	<i>Pathfinder Biology in the suborbital realm</i>	10.50 AM - 11.00 AM
Dr. John Weishampel (UCF) & Dr. Peter Ifju (UFL)	<i>Collaborative project : Remote Sensing of Nesting Sea Turtle Tracks: Development and Application of Computer Vision Algorithms</i>	11.00 AM - 11.10 AM
Dr. Jamie Foster (UFL)	<i>Effects of microgravity on bacteria-induced animal development</i>	11.10 AM - 11.20 AM
BREAK (and networking)		11.20 AM - 11.40 AM

All researchers	<i>Breakout sessions for each research core competency area - General discussion on UCF-UF partnering possibilities</i>	11.40 AM - 12.30 PM
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LUNCH (and networking)			12.30 PM - 1.30 PM
Dr. Todd Bradley (UCF)	<i>Dust Detection in Low-Medium Earth Orbit via Single or Co-operative Pico-Scale Satellites</i>	1.30 PM - 1.40 PM	
Dr. Richard Eastes (UCF)	<i>Ultraviolet Transmission Filters for Cubesat Photometer</i>	1.40 PM - 1.50 PM	
Dr. Rafael Guzman (UFL)	<i>ISIS : An integrated Standard Imaging System for Nanosatellites</i>	1.50 PM - 2.00 PM	
Dr. Andrey Krywonos (UCF)	<i>Design of a Temperature-Controlled Filter Holder for Cubesat Photometer</i>	2.00 PM - 2.10 PM	
Dr. John Conklin (UFL)	<i>nano-satellite technologies for Earth aeronomy & geodesy</i>	2.10 PM - 2.20 PM	
BREAK (and networking)			2.20 PM - 2.50 PM
Dr. Jian Ge (UF) & Dr. Quanfang Chen (UCF)	<i>Collaborative project : Demonstration of a prototype silicon immersion grating for the NASA SOFIA Mission</i>	2.50 PM - 3.00 PM	
Dr. Thomas Kehoe (UCF)	<i>Fine-Scale Resonant Structure in the Inner Main-Belt and the Delivery of Near-Earth Asteroids</i>	3.00 PM - 3.10 PM	
Dr. Adrienne Dove (UCF)	<i>Photoelectron and Neutral Plasma Effects on Impact-Generated Dust Dynamics</i>	3.10 PM - 3.20 PM	
Dr. Robert Peale (UCF)	<i>Planetary Atmosphere Minor Species Sensor (PAMSS)</i>	3.20 PM - 3.30 PM	

Dr. Patrick Schelling (UCF)	<i>Development and application of atomistic simulation methods to elucidate space-weathering processes</i>	3.30 PM - 3.40 PM

BREAK (and networking)		3.40 PM - 4.00 PM
Dr. Todd Bradley (UCF)	<i>Impacts Into Icy Regolith Experiment</i>	4.00 PM - 4.10 PM
Dr. Csaba Palotai (UCF)	<i>Development of a Cloud Microphysics Parameterization Scheme for Saturn</i>	4.10 PM - 4.20 PM
Dr. Jonathan Tan (UF) & Dr. Joshua Colwell (UCF)	<i>Collaborative project : Astrophysics & Astrochemistry of Habitable Planet Formation</i>	4.20 PM - 4.30 PM
Dr. Ashley Espy (UCF)	<i>Searching for Signatures of Recent Asteroid Disruptions in the WISE Dataset</i>	4.30 PM - 4.40 PM
Dr. Daniel Britt (UCF)	<i>Maximizing the Science Return from Small Body Lightcurves</i>	4.40 PM - 4.50 PM
Dr. Norton & Mr. Lugo	<i>Closing comments & Meeting adjourn</i>	4.50 PM - 5.15 PM