

2008 FIAVS-FSM Annual Joint Symposium and Exhibition
UCF, Orlando, FL

Time	MONDAY, MARCH 10	
7:15 - 8:30	Breakfast (sponsored by Oerlikon Leybold)	
7:30 - 9:00	Student Poster Session - Judging Round 1 (Pegasus Ballroom A-F) Chair: Mariana Sendova (NCF)	
9:00 - 9:05	Welcome and Opening Remarks Program Chair: Helge Heinrich (UCF) (Pegasus Ballroom G-H)	
9:05 - 10:00	Keynote Address: Dr. Larry Hench, Emeritus Professor, Imperial College, London, UK <i>21st Century Challenges for Materials</i>	
10:00 - 10:30	Coffee Break (sponsored by ICMAS, Inc.)	
10:30 - 11:00	Thin Films Chair: Winston Schoenfeld (UF) (Pegasus Ballroom G-H)	Microscopy in the Biological Sciences Chair: Betty Lorrann & Tony Greco (USF) (Pegasus Ballroom I)
	Mark Davidson, University of Florida <i>Sputter Deposition of Thin Film Electroluminescent Infrared Displays:TV you can't see</i>	Robert Simmons, Georgia State University <i>Searching for Fungi in the Human Environment</i>
	Chris Frewin, University of South Florida <i>CVD Growth of 3C-SiC for MEMS and Bio-Technological Applications</i>	Nicholas Curtis, University of South Florida <i>An Ultrastructural Comparison Of The Chloroplast Sequestering Ability Of Digestive Cells In 5 Species Of Sea Slugs (Sacoglossa)</i>
	Sachin Kulkarni - FSEC <i>Fabrication of CIGSeS Thin Films and Solar Cells by Rapid Thermal Processing</i>	Byung-Ho Kang, University of Florida <i>High-Pressure Freezing and Electron Tomography: New Ways to View Cells</i>
11:00 - 11:30	Lunch Break	
12:00 - 1:00	Surface Science Chair: Scott Perry (UF) (Pegasus Ballroom G-H)	Microscopy in the Physical Sciences Chair: Mark Davidson (UF) (Pegasus Ballroom I)
	Simon Phillpot, University of Florida <i>Atomistic Simulations of Tribology at Sliding MoS2 Surfaces</i>	Emmanuel Flahaut, Université Paul Sabatier, Toulouse, France <i>1D Nanocrystals Inside Double-Walled Carbon Nanotubes:Synthesis and Characterisation</i>
	Beatriz Roldán Cuenya, University of Central Florida <i>Stability, Electronic, and Catalytic Properties of Supported Metal Clusters</i>	Y. Shirley Meng, University of Florida <i>Electron Diffraction&Microscopy and Materials Research for Energy Storage</i>
	Jason F. Weaver, University of Florida <i>GROWTH AND PROPERTIES OF A PdO(101) THIN FILM ON Pd(111)</i>	Gerald R. Bourne, University of Florida <i>Precision Micromolding of Three-Dimensional Amorphous Metal Structures</i>
2:30 - 3:00	Coffee Break (sponsored by JEOL USA, Inc and Carl Zeiss SMT, Inc.)	
3:00 - 3:15	Advances in Microscopy (Vendors) Chair: Mark Davidson (UF) (Pegasus Ballroom G-H)	
	Ron Snow, JEOL USA, Inc. <i>TBA</i>	
	Guy Messenger, Physical Electronics <i>The PHI 5000 VersaProbe Multi-technique System</i>	
	Larry Scipioni, Carl Zeiss SMT, Inc. <i>TBA</i>	
	Paul Mainwaring, Gatan, Inc. <i>Two New Materials Characterization Tools for the TEM - STEM Diffraction Imaging and STEM/EFTEM Tomography</i>	
	John Caola, FEI Company <i>New and Improved Products from FEI Company</i>	
	Jeffrey J. Glen, Energy Beam Sciences <i>MeX 3-D Imaging and Metrology Software for SEM Applications</i>	
	4:30 - 7:00	
	Student Poster Session - Judging Round 2 (Pegasus Ballroom A-F) Chair: Mariana Sendova (NCF)	
	5:00 - 7:00	RECEPTION (sponsored by PHI & FEI Company)

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Time	TUESDAY, MARCH 11	
7:15 - 8:30	Breakfast (sponsored by Gatan, Inc.)	
7:30 - 8:30	Student Poster Session - Judging Round 3 (Pegasus Ballroom A-F)	
	Renewable Energy	
	Chair: Neelkanth Dhere (UCF) (Pegasus Ballroom G-H)	
8:30 - 9:00	Ram B. Gupta, Auburn University	
	<i>Hydrogen Fuel for a Cleaner and Sustainable World</i>	
9:00 - 9:30	Chandra Khadilkar, Ferro Corporation, Cleveland, Ohio	
	<i>Interfacial Interactions in Crystalline Silicon Solar Cells</i>	
9:30 - 10:00	Pyoungho Choi, Florida Solar Energy Center	
	<i>Design of Nanoscale Electrocatalysts for Proton Exchange Membrane Fuel Cells</i>	
10:00 - 10:30	Coffee Break (sponsored by RBD Instruments, Inc)	
	Catalysis	Materials Simulation
	Chair: John Wolan (USF) (Pegasus Ballroom G-H)	Chair: Patrick Schelling (UCF) (Pegasus Ballroom I)
10:30 - 11:00	Theva Thevuthasan, Pacific North-West National Laboratory, EMSL	Anter El Azab, Florida State University
	<i>Tuning the Band Structure for Enhanced Visible Light Absorption using Anion Doping in TiO2</i>	<i>Structure and Morphology of Ceria Nanoparticles</i>
11:00 - 11:30	Helena Hagelin-Weaver, University of Florida	Simon Phillpot, University of Florida
	<i>Steam Reforming Of Methanol Over CeO2- And ZrO2-Promoted Cu-ZnO Catalysts Supported On Nanoparticle Al2O3</i>	<i>Defects and Domain Walls in LinbO3: Insights from Microscopic Simulation</i>
11:30 - 12:00	Donald Baer, Pacific North-West National Laboratory, EMSL	Aravind Asthagiri, University of Florida
	<i>Quantitative Surface Analysis - Applying Thirty Years of Progress and Addressing New Analysis Needs</i>	<i>First-Principles Studies of Amino Acid Adsorption on Chiral Mineral Surfaces</i>
12:00 - 1:00	Lunch Break (FSM Business Meeting)	
	Bio-Nano Interfaces	Focused Ion Beam
	Chair: Henry Hess (UF) (Pegasus Ballroom G-H)	Chair: Lucille Giannuzzi (FEI) (Pegasus Ballroom I)
1:00 - 1:30	Benjamin G. Keselowsky, Biomedical Engineering, University of Florida	Keana Scott, National Institute of Standards and Technology
	<i>Biomimetic & High-Throughput Immuno-Engineering</i>	<i>Nanoparticle Detection in Biological Systems - FIB EDS Approach</i>
1:30 - 2:00	P. Bryant Chase, Dept. of Chem. & Biomed. Eng., Florida State University	Nabil Bassim, U.S. Naval Research Laboratory, Nanoscale Materials Section
	<i>Molecular Motor-Based Assays for Altered Nanomechanical Function of Ca2+ Regulatory Proteins in Cardiomyopathies</i>	<i>Focused Ion Beam -Enabled Coordinated Analysis of Earth and Planetary Materials</i>
2:00 - 2:30	Jiyu Fang, AMPAC, University of Central Florida	John Notte, Carl Zeiss SMT, ALIS Business Unit
	<i>Self-assembled Chiral Lipid Nanotubes</i>	<i>The Helium Ion Microscope</i>
2:30 - 3:00	Coffee Break (sponsored by Turbo Vacuum)	
	Young Leaders Session (Students)	
	Chair: Andrew Warren (UCF) & Jason Myers (UF) (Pegasus Ballroom G-H)	
3:00 - 3:15	Mark Schmidt, University of South Florida	
	<i>Thermochemical Treatment of TiO2 Nanoparticles for Photocatalytic Applications</i>	
3:15 - 3:30	Subramanian Krishnan, University of South Florida	
	<i>Effect of Thin Film Non-Linear Devices upon Post-Deposition Annealing</i>	
3:30 - 3:45	Praveen Sekhar, Department of Electrical Engineering, University of South Florida	
	<i>Ion Beam Doping Of Nanostructures For Nanophotonic Applications</i>	
3:45 - 4:00	Cecil Coutinho, Department of Chemical Engineering, University of South Florida	
	<i>Hybrid and Composite Inorganic-Organic Microparticles for Chemical Mechanical Polishing</i>	
4:00 - 4:15	Jason Croy, Department of Physics, University of Central Florida	
	<i>Bimetallic Pt/Metal Catalysts for the Decomposition of Methanol: Effect of Secondary Metal on Oxidation State, Activity, and Selectivity</i>	
4:15 - 4:30	Ying Zheng, Department of Materials Science and Engineering, University of Florida	
	<i>Nanostructured Organic Heterojunctions for Photovoltaic Applications: An Experimental and Computational Study</i>	
4:30 - 4:45	Serge Maslov, Department of Materials Science and Engineering, University of Florida	
	<i>Inorganic Powder Phosphors for Down-Conversion of Blue to White Light</i>	
4:45 - 5:00	Max Lemaitre, Department of Materials Science & Engineering, University of Florida	
	<i>Pattern Recognition Techniques for the Optical Detection of Explosive Materials</i>	
5:00 - 5:15	Annual Business Meeting (Pegasus Ballroom G-H)	
5:15 - 6:00	Student Poster Competition Award Ceremony (Pegasus Ballroom G-H)	