

Agenda

3:00 p.m. -3:15 p.m.	Attendee & Panelist Informal Interaction
3:15 p.m. – 3:17 p.m.....	Opening Statement <i>Dr. Michael Georgiopoulos</i>
3:17 p.m. – 4:02 p.m.....	Session 1 <i>Panelist Introduction & Panel Discussion</i>
4:02 p.m. - 4:07 p.m.....	<i>Break</i>
4:07 p.m. – 4:52 p.m.....	Session 2 <i>Panel Discussion</i> <i>Questions from the Audience</i>
4:52 p.m. – 4:55 p.m.....	Closing Remarks <i>Distribution of Assessment Forms</i>
4:55 p.m. – 5:00 p.m.....	Completion of Assessment Forms
5:00 p.m.....	Adjourn

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CAREER

Faculty Panel Discussion

Tuesday, March 19, 2013

3:00 p.m. to 5:00 p.m.

Harris Engineering Center (HEC)

Room 101



sponsored by



Office of Research & Commercialization

Research Outreach Services

About NSF ICubed



ICubed is a NSF funded project that partners with several units within the University of Central Florida (UCF), including the College of Engineering and Computer Science, College of Arts and Humanities, College of Education, and College of Sciences. The project goal is to ensure broader impact of NSF funded projects through coordination and integration of the education and research activities of these funded projects by increasing participation in Science, Technology, Engineering and Mathematics (STEM) fields.

UCF **ICubed** program and **ORC** jointly sponsor a panel discussion by six NSF CAREER awardees for the benefit of all UCF stakeholders who want to learn from their combined expertise. The panelists will be asked to respond to questions from the audience as well as a list of scripted questions by the panel moderator.

Panelist Bios



Haiyan (Nancy) Hu, Ph.D., (haiyan.hu@ucf.edu), an assistant professor of Electrical Engineering and Computer Science working on Bioinformatics and Computational Biology, earned her Ph.D. in Computational Biology from University of Southern California (2006). She is currently directing the Data Integration and Knowledge Discovery Lab at UCF (hulab.ucf.edu). Her NSF CAREER grant entitled **A Computational Framework to Study Epigenetic Regulation**, 2012-2017 aims to develop advanced computational algorithms and tools to model large-scale high-throughput epigenomics data and to understand the role of epigenome in gene regulation and in phenotype development.



Hojun Song, Ph.D. (song@ucf.edu) is an Assistant Professor of Biology and Curator of the Stuart M. Fullerton Collection of Arthropods. He earned his BS in entomology from Cornell University (2000) and a PhD in entomology from the Ohio State University. Song received the NSF CAREER award in 2013 entitled “**Evolution of Locust Swarms and Phenotypic Plasticity in Grasshoppers**,” which will focus on understanding how some grasshoppers have evolved to form enormous migrating swarms using behavioral experiments and cutting-edge genomic technologies. Specifically, the project aims to unravel the genetic basis of locust swarming, which will have transformative impacts on both basic and applied research on one of the most devastating pests in the world. Please visit his research website (www.schistocerca.org/SongLab) for more information.



Yongho Sohn, Ph.D., (Yongho.Sohn@ucf.edu) is a Professor of Materials Science and Engineering and an Associate Director for Materials Characterization Facility administered by Advanced Materials Processing and Analysis Center. Sohn had been a NSF CAREER recipient (2003-2008) on a project entitled, **Fundamentals of Multicomponent Diffusion in Multiphase Alloys**. This program refined phenomenological expressions and advanced experimental techniques for determination of thermo-kinetic coefficients, developed laboratory modules for graduate course, executed outreach activities for communities including “Materials Camp” for local high school students and visually-impaired student, Mr. Munawar Bijani. The CAREER Award served as the foundation of Sohn’s research activities that have been supported by USDOE, USDOD, NASA, NSF and a number of industrial sponsors. Details on his research and teaching activities can be found at <http://people.cecs.ucf.edu/ysohn>.



Saiful Khondaker, Ph.D., (saiful@ucf.edu) is currently an Associate Professor of Nanoscience, Physics and Electrical Engineering. Khondaker received the NSF CAREER award in 2008, entitled **Engineering and Parallel Fabrication of Single Electron Transistor Devices Using Carbon Nanotubes**, for developing a novel design engineering technique for parallel fabrication of controllable, scalable, and reproducible single electron transistor (SET) devices using carbon nanotubes (CNTs). The approach is to fabricate SET through control positioning of individual CNT between source and drain electrodes, engineering tunnel barrier formation by bending the CNT with a raised local aluminum oxide gate thereby forming a quantum dot, and controlling the size and operation of the dot by the same local gate.



Bobby Jeanpierre, Ph.D., (Bobby.Jeanpierre@ucf.edu) is an Associate Professor of Middle School Science Education. Dr. Jeanpierre received a Career Award in 2005. The Career Award is titled, “**Inquiry Teaching and Learning: Connecting Research and Practice**.” In the National Science Education Standards (1996), inquiry is posited as the central instructional strategy to affect high quality science teaching and learning. This research focused on how teachers in K-8 settings implemented inquiry-based science instruction, particularly in schools that had diverse, low socioeconomic student populations.



Stephen M. Kuebler, Ph.D., (Stephen.Kuebler@ucf.edu), is an Associate Professor of Chemistry and Optics. Dr. Kuebler is directing the Nanophotonics Materials group (<http://npm.creol.ucf.edu>) His NSF CAREER grant entitled **Three-Dimensional Multi-Scale Metalodielectric Materials**, 2007-2010, explores the preparation and fundamental properties of new micro- and nano-photonics materials and their application for new devices in optics and telecommunications.