

# Agenda

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

# Upcoming Workshops

This Panel Discussion is part one of a Workshop Series being offered by the NSF ICubed grant and the Office of Research & Commercialization at UCF. Please plan to attend these sessions – designed to help you develop a winning NSF Career Proposal!

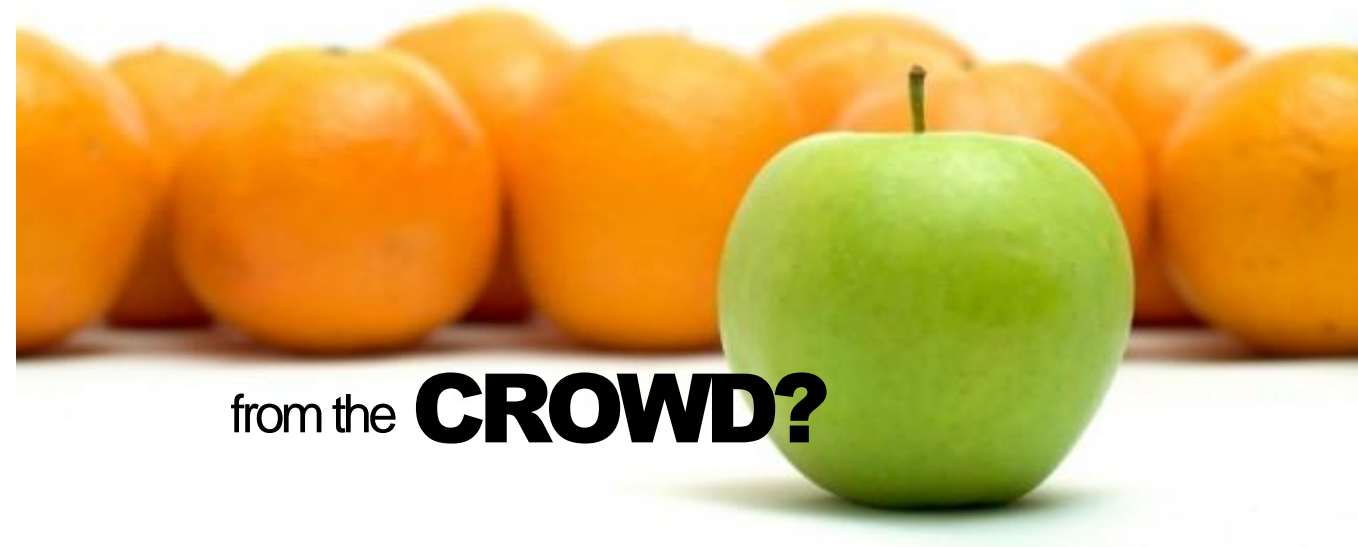
- Overview of NSF Career Program (including tips for writing)
- Writing the Summary (Intellectual Merit & Broader Impact Statement)
- Developing the Educational Plan
- Conducting a Comprehensive Literature Review
- Creating the Evaluation Plan
- Crafting the Data Management Plan
- Constructing the Project Budget
- Understanding the NSF FastLane system: a Tutorial

Look for more details coming soon!



Will your **NSF CAREER** proposal

**STAND OUT**



from the **CROWD?**

# Faculty Panel Discussion

Thursday, January 26, 2012

3:00 pm to 5:00 pm

Harris Engineering Center (HEC)

Room 101



and



sponsored by

Office of Research & Commercialization

## About NSF ICubed

The **NSF ICubed** (Integration through Institutional Integration) **grant** at the University of Central Florida, titled **ICubed: The UCF Community Embraces the Knowledge-Based Economy**, has as its goal to create integration and synergy among STEM education and research activities at UCF. NSF CAREER grants, among the most prestigious awards made by NSF, require strong research and education components that are appropriately integrated.

Consequently, the 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

**Xun Gong** ([xun.gong@ucf.edu](mailto:xun.gong@ucf.edu)), an Associate Professor of Electrical and Computer Engineering, earned a BS (1997) and a MS (2000) in Electrical Engineering from FuDan University, China, and a Ph.D. (2005) in Electrical Engineering from the University of Michigan, Ann Arbor. His NSF CAREER grant entitled **Next-Generation Ultra-Low-Cost Phased Arrays**, 2009-2014, aims to investigate an innovative concept termed electronically steerable passive array radiator (ESPAR) to realize next-generation ultra-low-cost phased arrays, and effectively integrate the research with educational activities.

**Bobby Jeanpierre** ([bjeanpie@mail.ucf.edu](mailto:bjeanpie@mail.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.

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## Panelist Bios

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**Saiful Khondaker** ([saiful@mail.ucf.edu](mailto:saiful@mail.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.

**Stephen M. Kuebler** ([kuebler@mail.ucf.edu](mailto:kuebler@mail.ucf.edu)), is an Associate Professor of Chemistry and Optics. His NSF CAREER grant entitled **Three-Dimensional Multi-Scale Metallodielectric 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.

**Joseph J. LaViola Jr.** ([jjl@eecs.ucf.edu](mailto:jjl@eecs.ucf.edu)) is the SAIC Faculty Fellow and assistant professor in the Department of Electrical Engineering and Computer Sciences. His 2009 CAREER award is titled **Mathematical Sketching: Pen-based Tools for Conceptual Understanding in Mathematics and Physics**. Pen-based computing has the potential to make a significant improvement in the education of our students in STEM disciplines so as to produce a more skilled technical workforce able to compete in the new global economy. Mathematical sketching, a pen-based interaction paradigm that is providing a new approach to STEM education, is the process of making and exploring dynamic illustrations by associating handwritten mathematics with free-form diagrams. The proposed research will develop new mathematical sketching tools to improve student learning in STEM.

**Nina Orlovskaya** ([norlovsk@mail.ucf.edu](mailto:norlovsk@mail.ucf.edu)), Lockheed Martin Faculty Fellow and an Assistant Professor of Materials, earned her MS in ceramics from Kiev Polytechnic Institute (1984) and PhD in Materials Science from Ukrainian Academy of Sciences (1993). She is a recipient of the NSF CAREER Award entitled "Hard and Tough Boron Rich Ceramic Laminates Designed to Contain Thermal Residual Stresses", in 2008, and her research is supported by NSF, PRF, NETL, AFOSR, and NATO.