

Afternoon Workshops: May 4th, 2007

Workshop One - *Engineering for Today's High School Classroom: The Infinity Project*

Description: Preview a high-tech engineering curriculum that is sweeping the nation and building the technology leaders of the future. Learn how you can bring math and science to life in the classroom by linking these concepts to technologies students use every day. Review course materials and see a demonstration of lab activities centered on topics meaningful to today's students – Internet, audio/video, wireless communications, and much more. Hear how this program is impacting student achievement in the local community and what you can do to fuel a thirst for science, technology, engineering, and math in your school.

Workshop Two - *Making STEM Fun: Project Lead the Way*

Description: Ok, so you know engineering education is important so what's next? How do you do it? How much will it cost? Where do you find the activities? How do you get the other teachers to collaborate? Will it truly impact standardized test scores? Come join us to learn the how-to's while doing two engineering design projects.

Workshop Three - *Encouraging Enthusiasm for Engineering Beyond the Classroom - Society of Women Engineers*

Description: Get set for great ideas to inspire students and motivate parents to check into exciting contests, future careers and important insights into the future of our world. Explore some very unique concepts that are simple yet effective in promoting enthusiasm for science, math, engineering and technology outside your classroom. Teach your students how to become aware of the technology around them using the techniques presented in this workshop.

Workshop Four - *NASA-KSC Educational Center*

Description: The workshop will be an engineering design challenge as it relates to the design of a plant growth chamber for building on earth and transporting it to the moon as a unit, or designing it to be assembled on the moon. This is in conjunction with NASA providing seeds to schools across the nation along with the design challenge criteria. The second workshop activity will be building an end effector used on the space station and shuttle robotic arms. This ties in nicely with engineering activities that Barbara Morgan is responsible for on her STS-118 flight.

Workshop Five - *Building Engineering Education Infrastructure: UCF-CECS Outreach Overview*

Description: Learn about the multiple programs offered by UCF-CECS Outreach, the host for the Florida Engineering Education Conference. Ms. Cristina Dos Santos will be presenting an overview of programs and services at the Office of Diversity. This will include the Expanding Your Horizon Program for young girls, the SECME Regional Competition and planned workshops and conferences. Mr. Bruce Furino will be presenting information about programs at the Office of Educational Partnerships that include the ISTF (and the new Community of Tomorrow Program), Engineering Futures Forum, our Dual Enrollment Program and plans for the 2008 Florida Engineering Education Conference.