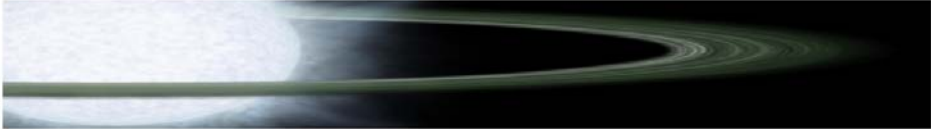


2012 Florida Engineering Education Conference - Program Agenda

2012 Program Order	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Florida Engineering Education Conference </div>  <p style="font-style: italic; font-family: cursive;">Engineering Environmental Education</p>
8:00 – 9:30 AM	Registration Confirmation and Refreshments
8:45	<p><u>College Welcome:</u> Dr. Charles Reilly, Associate Dean, UCF-CECS</p> <p><u>Keynote Speakers:</u></p>
9:00	<p>Glenn Forrest, Florida Engineering Foundation Trustee and Senior Professional Engineer, St. Johns River Water Management District</p>
9:15	<p>Duane Hume, Supervisor, IT/Engineering & Technology Education, Florida Department of Education</p>
9:30	<p><u>Conference Overview:</u> Bruce Furino, Director, UCF-CECS Outreach</p>
9:45 – 10:50 AM	Session One: Engineering Florida’s Environment
9:45	<p><u>Session Moderator:</u> Tom Wells, Senior Engineering Manager, IP, University Relations, Standards, and Technology, Harris Corporation</p>
9:55	<p><u>Presenter One:</u> Mark E. Blue, Advanced Programs Engineer, Advanced Systems & Technology / Energy Solutions, Harris Corporation</p>
10:10	<p><u>Presenter Two:</u> Billy Causey, Ph.D., former Superintendent of the Florida Keys National Marine Sanctuary and is currently the Director of the Office of National marine Sanctuaries Southeast Atlantic, Gulf of Mexico and Caribbean Region, NOAA</p>
10:25	<p><u>Presenter Three:</u> Kim S. Keefer, PE, Senior Group Manager, Water Infrastructure, Atkins</p>
10:40	<p>Moderator to entertain questions from the audience and the panel</p>
10:50	<p>Session Ends</p>

<p>11:00 – 11:50 PM</p> <p>11:00</p> <p>11:08</p> <p>11:16</p> <p>11:24</p> <p>11:32</p> <p>11:40</p> <p>11:50</p>	<p>Session Two: Integrating environmental engineering education into the K12 classroom</p> <p>Session Moderator: Lori Beth Bradner, Science Instructor/Polk Regional Science & Engineering Fair Director and George E. Bartuska, Engineering & Aerospace Instructor, Central Florida Aerospace Academy/ Kathleen High School, Lakeland, FL</p> <p>Presenter One: Kevin Davenport and Alie Pressel, Creekside High School, St. Johns School District.</p> <p>Presenter Two: Susan Cook, COSEE Florida co-PI and Center Director Indian River State College</p> <p>Presenter Three: James Kostka, Lead Teacher, Academy for Aquatic Management Systems And Environmental Technology</p> <p>Presenter Four: Mr. Gary Albarelli, Director of Information Programs, Florida Industrial and Phosphate Research Institute</p> <p>Moderator to entertain questions from the audience and the panel</p> <p>Session Ends</p>
<p>12:00 – 12:55 PM</p> <p>(12:15 – 12:45)</p>	<p>Lunch (Thanks to the support of our conference partners!)</p> <p>Lunch Presentation: Greg Ira, Director, Office of Environmental Education, Florida Department of Environmental Protection</p> <p>This session examines environmental engineering through three STEM initiatives of the FDEP. It will outline the importance of environmental STEM for students and society. Emphasis will be given to the role of informal education institutions, lessons learned from environmental education, and the challenge of strengthening the “engineering element” in STEM.</p>
<p>1:00 – 2:00 PM</p> <p>1:00</p>	<p>Session Three: Industry – Government - Professional Organization sponsored engineering education programs with an environmental focus.</p> <p>Session Moderator: Jennifer Mc Daniel, UCF-CECS, Sunesis Solutions, Inc., a member of the STEM Task Force for AAUW and works with the SWMA academy regarding environmental outreach.</p>

<p>1:08</p> <p>1:16</p> <p>1:24</p> <p>1:32</p> <p>1:40</p> <p>1:50</p> <p>2:00</p> <p>2:20</p>	<p>Presenter One: Karen Mialesky, Science and Informal Education Consultant, President of ASME Auxilary and Chair of the ASME Committee on Pre-College Education</p> <p>Presenter Two: George Bartuska and Mike Olka with ASCE</p> <p>Presenter Three: Stacy Smich (ORL) and Greg Kolb (CH2M) on the WEF and FWEA PCOC</p> <p>Presenter Four: Yvette Cano, Supervisory Park Ranger, Everglades National Park</p> <p>Session Ends and Panel Questions</p> <p>Close of Formal Sessions: Bruce Furino, Director, CECS Outreach</p> <p>Review of Afternoon Workshops Evaluation Form Thank you and Plans for FEEC 2013</p> <p>Formal Conference Sessions End</p>
<p>2:30 - 3:30 PM</p>	<p>Afternoon Workshops:</p> <p><u>Workshop 1 (FAIRWINDS Grand Ballroom):</u> Greg Ira, Director, Office of Environmental Education, Florida Department of Environmental Protection and Leonardo Angleró, Stormwater/SLERP, FDEP - Orlando Office.</p> <p>Description: This workshop will introduce two field labs (Stormwater and Water Rockets) developed for the Learning in Florida’s Environment program. It highlights the integration of science, technology, engineering and mathematics and the connections to the environment. Emphasis will be placed on the engineering element, lab format, and alignment to the curriculum.</p> <p><u>Workshop 2 (FAIRWINDS Alumni Center Board Room):</u> George Bartuska and Mike Olka with ASCE</p> <p>Description: Environmental Engineering Experiments for K-12: Simulation vs. Real Experimentation: In science, experimentation is normally used to demonstrate scientific principles covered in the lesson. In engineering however, many times the experiment is the lesson. Hands–on activities are critical to motivate student interest. We will discuss and demonstrate typical experiments for Environmental Engineering, both simulated and real.</p>

<p>Special “Thank You”</p>	<p><u>Workshop 3 (FAIRWINDS Alumni Center Other Room):</u> Stacy Smich (ORL) and Greg Kolb (CH2M) on the WEF and FWEA PCOC</p> <p>Description: The Florida Water Festival is an annual Florida Water Environment Association (FWEA) education event to benefit local students who are interested in water science and Florida’s environment. It is free to the public, held in the fall, and will have demonstrations to increase public awareness of water quality to the general public. Please join us to learn more about the array of activities at the Florida Water Festival!</p> <p><i>Each year the FEEC has a backup speaker in case one of our scheduled speakers is unable to present the day of the event. Mr. Jim Ermisch, Energy Manager with Volusia County is our 2012 designated back up speaker and we are most grateful for his readiness to support our FEEC program.</i></p>
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