Save the Date

Cyberinfrastructure for Education and Learning: Empower the Future (CELEF)

National K-12 Educator Workshop July 10-11, 2012 in South Jersey Technology Park of Rowan University

Science, Technology, Engineering, and Mathematics (STEM) are essential to our society's future competiveness and growth. Cyberinfrastructure tools—networks, simulations, and other digital technologies--have had profound impacts on the practice of science, engineering, and education. Enhanced engineering education with cyberinfrastructure learning experiences in K-12 classrooms transcends the boundaries of formal and informal learning. Students engage with scientific models, simulations, and data sets in a more visual, interactive, and concrete manner. They establish at an earlier age an accurate understanding of engineering applications and career preparation.

We need to provide teachers with the materials and skills to assume active roles in the delivery of innovative engineering education experiences.

Cyberinfrastructure for Education and Learning: Empower the Future was designed with this goal in mind. With the support from the National Science Foundation (NSF), this 2-day workshop will be offered through collaboration between the College of Engineering at Rowan University, the College of Engineering at Tennessee State University, and the Educational Information and Resource Center (EIRC). The workshop features cyberinfastructure technologies, 21st century skills, and project based learning. Workshop graduates will have the instructional design skills to effectively use learning game modules in their technology-based or project-lead-the-way (PLTW) courses.

Features

- Participants will work with the EIRC educational technology program director and Rowan's renowned College of Engineering faculty on experiments that can be duplicated with their students
- Free on-campus housing available
- Meals provided during the workshop
- A \$300 stipend, paid in increments, is available for those who participate in the two-day workshop and one follow-up Wiki workshop.

Agenda

Tuesday, July 10	Opening ceremony Workspace Wiki review Overview of project-based Learning Exploration of "SustainCity" –cyber-based learning games closely aligned with technology-based and PLTW courses
Wednesday, July 11	Overview of 21 st Century Skills and their alignment with lesson plans Lesson plan development Presentation and demonstrations Closing ceremony and next steps on WiKi collaboration

Contact

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Cyberinfrastructure for Education and Learning: Empower the Future (CELEF) Registration From

CELEF is recommended for pre-engineering (e.g., PLTW), technology and science teachers. **Please return** completed registration form by March 28th, 2012. A confirmation letter and detailed program information, including housing arrangements will be forwarded by May 17th, 2012.

Name	
Address	
City	
State	Zip
Home Phone	Cell Phone
E-Mail	
School	
District	Grade

Subject Area

□ I am interested in on-campus housing

Teacher's Acceptance

I will participate in the July 10th-11th workshop and the follow-up wiki workshop in Fall 2012. I also understand that meals are provided during the workshop; overnight rooms are available and will accept \$300 honorarium paid in increments.

Teacher's Signature	Date	

Use any of the following convenient methods to return your completed registration form.

Scan and Email:	<u>tang@rowan.edu</u>
Fax:	856-256-5241 Attention to Gina Tang
Mail:	Gina Tang
	Electrical and Computer Engineering
	Rowan University
	201 Mullica Hill Rd., Glassboro, NJ 08028
Questions	Please call 856-256-5339