

MARCH 2011 ASEE ACTION

ASEE ACTION TOPICS

TRANSFORMING THE FRESHMAN "CORNERSTONE" DESIGN COURSE THROUGH MODELING AND SIMULATION
CANADIAN INSTITUTE OF MINING, METALLURGY & PETROLEUM 2011 CONFERENCE (CIM)

ASEE 8TH ANNUAL K-12 WORKSHOP
OLIN COLLEGE SUMMER FACULTY INSTITUTE
EUROSCIENCE OPEN FORUM (ESOF)
THE CENTER FOR SUSTAINABILITY EDUCATION
ABET ENGINEERING ACCREDITATION ALERT

TRANSFORMING THE FRESHMAN "CORNERSTONE" DESIGN COURSE THROUGH MODELING AND SIMULATION

FREE WEBINAR FOR ASEE MEMBERS
WEENESDAY, MARCH 23, 2011 AT 2:00 PM ET

The freshman design course or "cornerstone" course is a critical component of the curriculum at most institutions. The modern incarnation of this course integrates general design and analysis concepts and the application of computing tools such as CAD. This webinar presents a detailed case study of the recent McMaster University initiative to enrich its cornerstone course. The key new element is the introduction of dynamic modeling software that allows students to analyze and explore the system dynamics, and ultimately design options, for a real system.

Register today at: HYPERLINK "<http://www.maplesoft.com/asee>" www.maplesoft.com/asee

CANADIAN INSTITUTE OF MINING, METALLURGY AND PETROLEUM 2011 CONFERENCE (CIM) - The 2011 CIM conference and tradeshow takes place May 22-25, 2011 in Montreal, Quebec. This year's theme: *Mines Without Borders* will bring together over 6,000 participants to learn, network and exchange with peers and business leaders alike. CIM's largest exhibition floor features more than 400 top industry equipment and service providers, will provide mining executives and suppliers with an exclusive setting for one-on-one discussions. For more information, go to: HYPERLINK "<http://www.cim.org/montreal2011/>" <http://www.cim.org/montreal2011/>

ASEE'S 8TH ANNUAL K-12 WORKSHOP - ASEE's 8th Annual K-12 Workshop will be held on Saturday, June 25, 2011 in Vancouver, British Columbia Canada. This one day program for teachers and engineering educators from both Canada and the United States will provide a fast paced, interactive, results oriented overview of engineering education for the K-12 classroom. Attendees will discover valuable best practices, new contacts for collaboration, and the latest tools for effective teaching.

Proposals are now being accepted by the committee. The deadline for proposal submission is Friday, March 18, 2011. Please go to: HYPERLINK "<http://teachers.egfi-k12.org/2011-workshop-call-for-proposals/>" <http://teachers.egfi-k12.org/2011-workshop-call-for-proposals/>

An overview of the workshop is available at: HYPERLINK "<http://teachers.egfi-k12.org/workshop>" <http://teachers.egfi-k12.org/workshop> or by contacting Libby Martin at HYPERLINK "<mailto:k12workshop@asee.org>" k12workshop@asee.org

OLIN COLLEGE SUMMER FACULTY INSTITUTE - Olin College will be running a week-long summer faculty institute, *Meeting the Needs of the 21st Century: Designing for Student Engagement*, June 13-17, 2011. As the NAE, the NSF and others have observed, the students we educate today will spend most of their working lives addressing problems that we have not yet imagined. In this week-long program, participants will develop designs and action plans for curricular changes at their institutions to meet these challenges. If you are involved in, or contemplating curriculum revision, please consider attending this program. Complete information can be found at HYPERLINK "<http://i2e2.olin.edu/summer/about.html>" <http://i2e2.olin.edu/summer/about.html>

EUROSCIENCE OPEN FORUM - The EuroScience Open Forum will be held July 11-15, 2011 in Dublin. This event brings together over 5,000 scientists, business leaders, government officials and policy makers to discuss the best of European science and to address all of the current global scientific challenges. The deadline for submitting proposals is June 30, 2011. For information please go to HYPERLINK "<http://www.dublinscience2012.ie/calls>" www.dublinscience2012.ie/calls

THE CENTER FOR SUSTAINABILITY EDUCATION - Dickinson College, with support of a grant from NASA's Global Climate Change Education program is offering two faculty development opportunities to enhance competencies for interdisciplinary teaching about climate change.

Changing Planet Faculty Study Group - A four-day workshop June 28-July 1, 2011 on the campus of Dickinson College in Carlisle, PA. The workshop will emphasize participatory sessions for sharing expertise, experiences, lesson plans, exercises and ideas for teaching about climate change.

Climate Modeling and Data Tools Workshop - To be held August 8-11, 2011 on the Dickinson Campus. The workshop offers 4 days of training in the use of a global climate model and tools to integrate and visualize climatic environmental and socioeconomic data for teaching about climate change.

Participation in both programs is open to faculty in any discipline from any college or university. There is no fee to participate. To learn more and to apply visit, HYPERLINK "<http://www.dickinson.edu/academics/distinctive-opportunities/sustainability-education/content/climate-education/>" <http://www.dickinson.edu/academics/distinctive-opportunities/sustainability-education/content/climate-education/>. Applications are due by March 25, 2011. Inquires about the program should be sent to Neil Leary at HYPERLINK "<mailto:learyn@dickinson.edu>" learyn@dickinson.edu.

ABET ENGINEERING ACCREDITATION ALERT

ALERT I: Changed definitions of Program Educational Objectives should be reviewed prior to your next general review.

BACKGROUND - Definitions of a Program Educational Objective and related terms have changed during the past few years. Data shows that despite the intent to clarify the requirements of Criterion 2, the number of shortcomings associated with the Criterion has increased significantly. This alert is being issued in the interest of continuously improving the ABET evaluation process.

GUIDANCE TO PROGRAMS - Past reference to “career and professional accomplishments that the program is preparing graduates to achieve” as part of the definition of a Program Educational Objective has been changed to “what graduates are expected to attain within a few years of graduation.” The new language is intended to allow greater latitude in how Program Educational Objectives are expressed and to emphasize that attainment must be measured several years after graduation.

All programs should review the latest definition of their Program Educational Objectives and if necessary make adjustments to ensure compliance with the latest ABET definitions. Programs should be aware that the lack of a shortcoming with respect to Program Educational Objectives from a previous review does not assure the Objectives are fully compliant with the current definition. Please carefully review the EAC Criteria at [HYPERLINK "http://www.abet.org"](http://www.abet.org) www.abet.org

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