

**ASEE ACTION
FEBRUARY – 2011**

ASEE Action Topics - February 2011

**ASEE/NSF Small Business Postdoctoral Research Diversity Fellowship
Transforming the Freshman “Cornerstone” Design Through Modeling and Simulation
NAE Launches *Changing the Conversation* Website
4th Annual Symposium on Engineering & Liberal Education**

ASEE/NSF SMALL BUSINESS POSTDOCTORAL DIVERSITY FELLOWSHIP - The American Society for Engineering Education (ASEE) in partnership with the National Science Foundation announces the *Small Business Postdoctoral Research Diversity Fellowship Program* which will place 50 recent Ph.D recipients in designated Phase II Small Business innovation Research (SBIR) participating companies. The program encourages creative and highly trained recipients of doctoral degrees in science, technology, engineering and math disciplines to engage in hands-on research projects in their areas of expertise at the kind of small innovative businesses that historically have fueled the nation’s economic engine. To be eligible, candidates must have been awarded, within three years to the date of their application, a Ph.D, Sc.D or other earned doctoral degree in a STEM-related discipline supported by the National Science Foundation. Spring 2011 Ph.D candidates must be a U. S. citizen, U. S. National or a permanent resident. Qualified women and underrepresented minorities are especially encouraged to apply. Fellowship recipients will receive an annual stipend of \$75,000 plus full health benefits for at least one year. The deadline is ongoing, positions will be filled on a first come, first served basis.

For further information, please visit the ASEE website at [HYPERLINK "http://nsfsbir.asee.org"](http://nsfsbir.asee.org) <http://nsfsbir.asee.org> or contact the ASEE program administrator, Curt Millay, at [HYPERLINK "mailto:c.millay@asee.org"](mailto:c.millay@asee.org) c.millay@asee.org or 202-649-3832

TRANSFORMING THE FRESHMAN “CORNERSTONE” DESIGN COURSE THROUGH MODELING AND SIMULATION

**FREE WEBINAR FOR ASEE MEMBERS
WEDNESDAY, 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 a dynamic modeling software package that allows students to analyze and explore the system dynamics, and ultimately the design options, for a real system.

The contents of this webinar include:
Motivation and core pedagogy framing and initiative
Fundamental elements of the new course
Technical challenges in introducing advanced modeling and simulation tools into the freshman curriculum
Progress thus far and future challenges
Discussion and Q and A

Register today at: [HYPERLINK "http://www.maplesoft.com/asee"](http://www.maplesoft.com/asee) www.maplesoft.com/asee

NAE LAUNCHES CHANGING THE CONVERSATION WEBSITE - NAE is pleased to announce the official launch of the *Changing the Conversation* website ([HYPERLINK "http://www.engineeringmessages.com"](http://www.engineeringmessages.com) www.engineeringmessages.com). The site is intended to help improve the effectiveness and impact of the engineering community’s efforts to communicate to the public about engineering. This site is part of a project funded by the National Science Foundation that will also result, later this year, in publication of an action plan. Please share this with your friends. The site’s effectiveness will depend critically on active participation by the engineering community.

4TH ANNUAL SYMPOSIUM ON ENGINEERING & LIBERAL EDUCATION - Union College, Schenectady, NY, will host the 4th annual symposium June 3-4, 2011. The 2011 symposium will expand the discussion on how engineering contributes to a liberal education, the importance of a liberal education for engineers and exploration of the intellectual relationship between engineering and the liberal arts.

Abstract submission consists of a 250 word maximum indicating subject matter, learning outcome, observations of the benefits and challenges, and other aspects of integration.
The submission form is available at [HYPERLINK "http://www.union.edu/integration/"](http://www.union.edu/integration/) <http://www.union.edu/integration/>

The deadline for submission is February 15, 2011. Submitters will be notified by March 15, 2011

Integrate to Innovate Faculty Institute - A workshop will be held the afternoon of Saturday, June 4, 2011. Registration will open in April. There is no registration fee.

Warren W. Sallade
w.sallade@asee.org