

Dear DEED Members,

Here is your September 2014 installment of the "All the News InDEED" newsletter.

The intent of this newsletter is to inform the DEED community about upcoming events and related news in DEED, ASEE, and engineering design. Newsletters are sent on the 15th of every month; submissions are welcome.

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1) DEED Call for Papers

The Design in Engineering Education Division (DEED) invites abstracts for papers to be presented at the 2015 ASEE annual conference to be held June 14-17 in Seattle, Washington. The ASEE abstract deadline is October 19, 2014.

DEED seeks contributions on topics that include, but are not limited to, capstone design, design for industry/manufacturing, innovation in design education, design instruction and pedagogy, teams and teamwork in design education, design for community, interdisciplinary and multidisciplinary design, use of technology to enhance design education, sustainable design, design for "X", assessment of design activities, design realization, and design methodology. (See attached pdf for the complete DEED call.)

For questions or ideas concerning DEED topics or sessions, contact the 2015 DEED Program Chair: Reid Bailey (rbailey@virginia.edu, 1-434-924-6352).

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2) Alaska Cruise Opportunity after ASEE 2015

From DEED Member Gene Dixon:

"As many of you know, whenever the ASEE annual conference is near a cruise port, I look for ways to cruise. While Seattle is a cruise port the cruises are basically out and back. For Alaska, a one-way inter-coastal cruise is my preferred option. If you would like to cruise with us after the 2015 ASEE annual conference, my travel agent has put together two options for an Anchorage to Vancouver cruise. Come join us in seeing the sights of the North Pacific coast. The cruise is not affiliated with ASEE." (See attached pdf for complete cruise details.)

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3) New! Capstone Design Community Mailing List

If you're involved with capstone design, the best way to stay up to date with news, activities, and events is to join the NEW Capstone Design Community mailing list. Subscribe directly at the community's new website: <http://capstonedesigncommunity.org/mailling-list>

The Capstone Design Community is a network of faculty, administrators, industry representatives, and students active in the capstone engineering design experience. Join the fun!

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4) Training Capstone Advisors - Request for Study Data

From DEED Member Gene Dixon:

"As engineering educators, we know the critical importance of the capstone project both as an assessment tool and as a preparation for the workplace. For most programs the capstone process requires experienced advisors, mentors, or coaches who come from the ranks of faculty or industry professionals. This research project surveys best practices related to training, preparing, and guiding these advisors. The draft proposal abstract is below. Results of this work will be presented at the 2015 ASEE Conference, Design in Engineering Education Division if accepted. Please help this effort by providing descriptive documentation, guidelines or other information related to training and preparing capstone advisors. If you would like to formally join this effort please contact me. Thank you in advance for your contributions to this effort."

Proposal Abstract:

Both faculty and industry may take on the role of capstone advisor from the academic side. Many faculty members are experienced at advising capstone. New faculty usually are not. Industry members new to capstone advising may or may not be able to apply industry models to capstone advisement. Just like in industry, where experienced engineers hold much tribal knowledge, many experienced faculty are knowledgeable in guiding capstone teams. New engineers in the workplace must identify knowledge sources within the organization to help them through the maze of unwritten methods and norms to be successful. So too, the new capstone faculty advisor. One tool, useful to both new engineers and capstone advisors are procedures and handbooks. This paper provides a review and compilation of both common and unique methods of guiding the capstone advisor.

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5) Design Competition: Disaster Shelter

Samaritan's Purse and John Brown University will host the Fourth Annual Disaster Shelter Design Competition during academic year 2014-2015. Teams are required to design and build a proto-type transitional shelter that will meet specified criteria and be rapidly assembled in a specified disaster scenario. The date for the on-site phase of the competition is April 23-25, 2015. This fourth competition will have a similar format to previous competitions and will include a preliminary report, business case analysis, and on-site testing and judging of the shelters. Each participating team will receive a \$1000 stipend to help with costs of materials, travel, and other expenses. The top three teams will receive cash prizes.

The design scenario this year is disaster response to an earthquake event in Pakistan. Teams will be expected to design their shelters to take into account the local conditions, climate, culture, and available materials in the area of concern. The specific design scenario, specifications, competition schedule and more information can be found at the competition website: http://www.jbu.edu/shelter_contest/. The website also includes video clips and photos from the previous competitions. For further information, please contact Mark Terrill, mterrill@jbu.edu (479-524-7479).

As part of the competition this year, several of the competition judges with experience in disaster response will provide seminars in their area of expertise that will provide students with a view of the opportunities and challenges with working in contingency situations.

The competition hopes you will consider participation in this competition to enhance some aspect of your Engineering, Architecture, and/or Construction Management programs.

6) Submitting to the InDEED Newsletter

To submit an item to the InDEED newsletter, please prepare a short description (no more than 3 paragraphs) including any relevant URLs and contact info. Email this information to showe@smith.edu. The newsletter will be sent out on the 15th of each month.

Cheers,
Susannah Howe
Chair, ASEE DEED 2014-2015