

The intent of this newsletter is to inform the DEED community about upcoming events and related news in DEED, ASEE, and the engineering design community. As always, these newsletters and even more awesome content are available 24 hours a day, 7 days a week, at locations all around the world on our DEED website (<http://deed.asee.org/>).

-Reid

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1) DEED Annual Conference Highlights: Postcard Sessions, Panels, Workshops, and more!

Postcard Sessions:

New this year! DEED is using this novel session type to report important innovations and current research efforts instead of a poster session. Authors will pitch their work with 2-slide [postcard back and front] overview of their work, then attendees and authors engage in discussion.

Workshops:

- Pigs in Space – The Workshop! – Doing Biomimicry
- Self-regulated Learning in Engineering Design Projects
- Admissions of a Dutiful Design Educator: Aiming Engineering Design Research at Areas Where Students Struggle

Panel:

From Design Clinics to Design Thinking: Building on Clive Dym's Contributions to Engineering Design Education.

Our outstanding panelists (Cynthia Atman, Phill Doepker, Gordon Krauss, and Ann McKenna) look to the future of engineering design education through reflecting on the impacts of Clive Dym (longtime innovator in engineering design education known for his work at Harvey Mudd and his design textbook ... among other things) on how they view and conduct design education. Much of the session will be open discussion and Q/A with the panelists on where engineering design education is and needs to go.

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2) DEED Student Essay Winners

Our inaugural student essay contest winners – who were asked to imagine the future of engineering design education – will present at one of the postcard sessions. Winners and their key takeaway are:

- Alistair Cook (Colorado St) – “Our global future require engineers and designers who are defined by their intersectionality, that is, engineers who are technically competent in their field(s) of engineering but also have global and professional skills to practice engineering design as professional global citizens”
- Steven Weiner (Arizona St) – “In the future, engineering design principles will underpin a new educational model that empowers students to solve problems and learn skills for the sake of improving their world.”
- Shreyas M. Shete and Pramod V. Desai (Rajarambapu Institute of Technology) – “The biggest innovation which will improve design education is ... virtual reality.”
- Aaron Joya and Maria Buan (Univ of Washington): “The current state of design engineering education fails to show the relationship of the design process and time thus, the future of engineering education needs a real time integrative platform to improve design development amongst engineering students.”

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3) 2017 Canadian Engineering Education Association Annual Conference

June 4-7th 2017, hosted this year by the University of Toronto.

There are lots of reasons to adventure up north, and they include:

Learning how to enhance your teaching, attending workshops on inclusive pedagogy, learning about diverse engineering education research, being part of a special symposium on diversity in engineering education, leadership for engineering undergraduates and graduates, LGBTQ allies, indigenous engineering (including an engineering education sharing circle led by Elders), describing the Engineer of 2050 (and educating them), or attending the dinner banquet at the iconic Casa Loma (yes, the banquet is in a beautiful, large castle!), there are lots of wonderful reasons you should attend.

We have pulled together a packed program of talks, workshops, posters, and symposia and expect over 200 engineering educators from across Canada, and beyond.

<http://ceea2017.engineering.utoronto.ca/>

For questions, please contact Prof. Chirag Variawa, chirag.variawa@utoronto.ca

And yes, there will be poutine too, eh. Thank you!

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4) 2017 Engineering Community Engagement Workshop pre-ASEE

June 21-24, 2017 | Purdue University, West Lafayette, IN

(transportation to ASEE conference provided)

Registration Fee: \$100 (includes Thursday and Friday meals and welcome reception)

Registration: https://www.conf.purdue.edu/landing_pages/epicsdesign/default.aspx

Would you like to empower your students to work alongside local service organizations and use their technical knowledge to create solutions for your community's unique challenges? Then it's time to get to know EPICS!

What is EPICS?

EPICS is an approach in which multi-disciplinary design teams address needs within local and global communities through engineering-centered design. Founded at Purdue University, EPICS has been integrated into the curriculum at 35 universities and colleges. EPICS in IEEE, a signature program of IEEE, empowers students to work with local service organizations to apply technical knowledge to implement solutions for a community's unique challenges.

You're Invited

Join us for an interactive workshop to get the information, tools, and resources you need to get an EPICS program up and running. Facilitated by the EPICS leadership team, including faculty from EPICS Consortium Universities and IEEE, this workshop will give you the tools you need to develop a customized plan for your institution.

Who Should Attend

Current and future faculty and instructors; professionals; IEEE volunteers and members; industry partners and others interested in Service-Learning and Community Engagement.

How You Benefit

- Gain a better understanding of EPICS and the EPICS in IEEE programs
- See real-life examples of ways EPICS can be integrated into course curriculum and capstone projects
- Develop the skills to gain institutional support, acquire community and industry sponsors, establish funding models and build a sustainable program
- Gain insights from experienced project leaders on how to engage students; identify, create and sustain projects; and conduct student assessments
- Network with established EPICS and EPICS in IEEE subject matter experts as well other interested faculty members, industry and community leaders
- Leave the workshop prepared to put what you learned into practice in order to establish an EPICS program at your institution

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5) International Symposium on Academic Makerspaces

The 2nd International Symposium on Academic Makerspaces will be held September 24-27, 2017 at Case Western Reserve University. The symposium joins the people, knowledge & inspiration that fuse to catalyze higher education makerspaces and maximize impact on the student learning experience and professional success. A call for papers/posters for the symposium is posted at <https://isam2017.secure-platform.com/a> . More information on the symposium can be found at <https://isam2017.hemi-makers.org/> .

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6) Survey of Academic Women's Participation in Professional Organizations

The Society of Women Engineers (SWE) Women in Academia (WIA) Group invites you to participate in a research study about how and why women in academia participate in professional organizations. The findings from this study will be published in a manuscript for ASEE (and possibly WEPAN). One of the goals of SWE WIA is to present at other professional conferences about SWE and WIA. The survey will take about 10 to 15 minutes of your time and can be accessed via the link below. All responses are anonymous and confidential.

https://olin.qualtrics.com/SE/?SID=SV_9MFsZUFm1q8tZVr

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7) Position Announcement: Managing Director at University of Michigan Center for Socially Engaged Design

A managing director is sought to lead The Center for Socially Engaged Design in the University of Michigan College of Engineering. At one of the world's leading research and educational institutions, The Center for Socially Engaged Design (C-SED) empowers students and design practitioners with perspectives and skills needed to design effective interventions that are impactful for society. We believe this requires designers to take into account the fullest social, cultural, economic, and environmental contexts of their design process and push designers to recognize and analyze how their own cultural contexts shape their approach. C-SED provides novel educational resources and fosters a community of research and practice at the University of Michigan.

For more information and to apply, please see the full announcement at: http://careers.umich.edu/job_detail/140204/managing_director_center_for_socially_engaged_design

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8) Position Announcement: NSF Division of Undergraduate Education Program Officer rotators

The National Science Foundation's Division of Undergraduate Education (DUE) has a call out for Program Officer rotators. This is in the form of a Dear Colleague Letter (DCL). More details can be found in the link below.

<https://www.nsf.gov/pubs/2017/du17001/du17001.jsp?org=DUE>

Inquiries in the disciplinary area of engineering can be directed to Olga Pierrakos (OLPIERRA@NSF.GOV).

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9) Submitting to the DEED Listserv

To submit an item to the InDEED newsletter, please prepare a short description (no more than 2 paragraphs) including any relevant URLs (in explicit form, not as hyperlinks), deadlines and contact information.

Putting the words "DEED newsletter" in the subject will help make sure your submission makes it in the email.

Email this information to Reid Bailey, DEED Division Chair - rrbailey@virginia.edu

The newsletter will be distributed around the 15th of each month. Newsletter submissions should be sent no later than the 10th of the month.

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Reid Bailey
DEED Chair 2016-2017