

Events

- **Tomorrow -- COMPETING EDIBLE CARS, MOUSE TRAPS AND MORE ON PSU CAMPUS** More than 200 middle and high school students from Oregon and Southwest Washington will compete in Portland State's 2008 Engineering Design Competition Friday, Feb. 22, from 10 a.m. to 2 p.m. in the small gymnasium of the Peter Stott Center. An awards ceremony is planned at 2 p.m. The event is sponsored by the Maseeh College of Engineering and Computer Science.
- **SIGCSE Unplugged Show Comes to Portland, Friday, March 14, 2008 – 5:30 – 6:30 pm, Hilton Portland and Executive Tower Rooms B113-115** -- This free show is appropriate for all audiences, especially children and adults who are not computer scientists, and for computer scientists who want to see an Unplugged show.

Computer Science Unplugged is a series of free to use, technology-free computer science activities. This show is aimed at children and adults who are not computer scientists, and for computer scientists who want to experience an innovative kinesthetic approach to teaching computer science concepts. Computer Science Unplugged is recommended in the ACM model curriculum for K-12 Computer Science

It will be followed by a Computer Science Unplugged workshop for teachers and researchers, as part of SIGCSE 2008. This is a standard SIGCSE workshop which requires registration and a fee. Workshop attendees who also attend the show will receive a light dinner immediately before the workshop after the show.

See the [Information page](#) at

<http://www.pcs.cnu.edu/%7Elambert/unpluggedsigcsewebad2008.html>, or contact Lynn Lambert at lambert@pcs.cnu.edu

Articles

"**Exercise Seen as Priming Pump for Students' Academic Strides**", Education Week, February 12, 2008. Scientific corroboration for the Mom observation that kids need recess - http://opas.ous.edu/Committees/Resources/Articles/EdWeek_Exercise_and_Academics_Feb08.pdf

Data

- **National Center for Education Statistics** - <http://nces.ed.gov/index.asp> has all sorts of goodies:
 - Integrated Post-secondary Education Data System, IPEDS - <http://nces.ed.gov/ipeds/>
 - State Demographic Profiles - <http://nces.ed.gov/nationsreportcard/states>
- Find **Oregon Career and Technical Education Program Brief** at <http://www.ode.state.or.us/teachlearn/pte/cteprogrambrief4-2007.pdf> and **CTE Data** at: <http://www.ode.state.or.us/data/stats/opte/apprprgs.aspx>
- Dick Knight has chewed on some data from various sources:
 - Have 2007 SAT test-takers have been exposed to Computer Science? (Not many) - http://opas.ous.edu/Committees/Resources/Data/SAT_CS_2007.xls
 - SAT Summary Data for 2007

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For more information, please contact Jo Oshiro via jo_oshiro@ous.edu or 503.725.2910

- http://opas.ous.edu/Committees/Resources/Data/SAT_Summary_2007.xls
- Dick's interpretation of the data -
http://opas.ous.edu/Committees/Resources/Data/Knight_SAT_2007_Summary_Discussion.pdf
- OUS Degrees of interest to OPAS 1996-2006- from the [OUS Factbook](#) - [xls](#)

Research

- **Because Dreams Need Doing: New Messages for Enhancing Public Understanding of Engineering.** February, 2007. Baranick and Delorey for the National Academy of Engineering. Market research on the perception of engineers and engineering. This was passed to me as a draft, but the document says "final report" ...
<http://opas.ous.edu/Committees/Resources/Publications/NAEEngineeringPositioning.pdf>.

Equity

- **National Alliance for Partnerships in Equity** - <http://www.napequity.org/>
Check out their resources, publications and funding opportunities links! Their NAPE Education Foundation is also driving the STEM Equity Pipeline Project --
http://www.napequity.org/nape_pipeline.htm
- **From The National Action Council for Minorities in Engineering** : NACME, widely known as the nation's largest privately funded source of college scholarships for African American, American Indian and Latino women and men in engineering, has developed a brand-new website to guide students to education and careers in engineering. Try it out --
www.NACMEBacksMe.org.

NACMEBacksMe.org will guide you through a wealth of information on the engineering pathway from middle school and high school through college graduation and employment, with emphasis on NACME's broad spectrum of resources for future engineers.

The new site is designed for students, parents, educators, and mentors. We are very proud of this website and we hope you find it useful and compelling. Let us know what you think!

PLTW

- **PLTW program helps high schools groom future engineers.** The [Chicago Tribune](#) (2/13, Malone) reports that "high schools nationwide are beefing up engineering programs spurred by what business professionals and labor experts describe as a dearth of engineers and a public education system ill-equipped to train them." According to the Center for the Advancement of Scholarship on Engineering Education, "Nearly half of college students who enroll in engineering programs never complete them." But the New York-based nonprofit Project Lead the Way (PLTW) "found that students exposed to rigorous math and science classes in middle school and high school were less likely to drop out of the college programs." The Tribune points out that PLTW has "enlisted engineers and professors to develop university-level curricula for" 89 Illinois high schools, as well as 2,782 nationwide. Across the state, "students with strong math skills and good test scores can earn college credit and gauge their interest in" engineering before they enroll in a college program. For

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Fun stuff

- High School Robotics -- TETRA gears up for second year of competition: http://www.tigardtimes.com/news/story.php?story_id=120174298683652200 ETIC was noted as a sponsor of this team, as part of a grant in 05-07 biennium.
- Two representatives of LEGO Education North America were in Corvallis to conduct a workshop for in-school and out-of-school educators. The workshop was hosted by the College of Education and 4-H ... is it fortunate or not that they seem unaware of ORTOP and its barter economy in used robot kits? http://www.gazettetimes.com/articles/2008/02/13/news/top_story/5aaa02_osuseminar.txt
- **Cooperative Learning:** Description of Some [15] Commonly Used Techniques - http://opas.ous.edu/Committees/Resources/Research_papers/15CommonlyUsedTechniques.pdf
- **On thinking like an engineer (Resnick)** – the retrospective advice of some 12 year olds, after taking a workshop in creating programmable things with lights, sound, and motion. http://opas.ous.edu/Committees/Resources/Research_papers/Resnick_On_Thinking_Like_A_n_Engineer.pdf
- **Tektronix' Donation of 22 Digital Oscilloscopes** – the instruments are being delivered to classrooms around the state, and as pictures and stories come in, they will be passed along. Because of Tektronix' connection to ETIC, the right connections were made to identify those schools that would most benefit from these instruments.