

A service of the Oregon Pre-Engineering & Applied Sciences Initiative (OPAS) funded by ETIC

To subscribe or get more info, please contact Jo Oshiro - jo_oshiro@ous.edu or 503.725.2910

archives: <http://opas.ous.edu//OPASsphere/index.html>

In this issue:

- ***Jobs: ISTE***
- ***Events: Linus Pauling Memorial Lectures; Happy Bday SMILE***
- ***Web: ODE Superintendent's Update***
- ***Equity: GEAR UP & PCC get grantst;***
- ***Articles: Fewer CS students for more jobs; Policymakers see importance of STEM***
- ***Research: Women leave tech careers***
- ***Classroom Resources: ACM brochure, Nerd Girls***

Job Search

- The International Society for Technology in Education (ISTE) has a job posted for a Senior Research Associate in their Eugene office. Please see the posting in the ISTE Career Center at: <http://career.iste.org/jobdetail.cfm?job=2917078>

Events – Announcements

- The 2008-2009 speakers for The **Linus Pauling Memorial Lectures**, presented by The Institute for Science, Engineering and Public Policy: Richard Leakey, Daniel Levitin, Brian Greene, Terence Love, Susan Haack, Stuart Kauffman – more info: <http://www.isepp.org/>
- **Belated Happy Birthday to OSU's SMILE Program** -- <http://oregonstate.edu/admissions/blog/2008/05/21/smile-program-turns-20/>

Weblinks

- **ODE's Superintendent's Update** – weekly agency-wide news & resources: <http://www.ode.state.or.us/search/results/?id=364>

Equity

- **Oregon's GEAR UP program** was recently awarded a grant by the US Department of Education for \$3 million over 6 years. The grant will address the rural/urban access to college gap: students graduating from Oregon's rural high schools are only half as likely to obtain a bachelor's degree as their urban counterparts. The Oregon University System has selected 12 schools to participate based on their readiness to engage, participate for six years, and sustain efforts thereafter. These funds will help provide early college awareness activities, improved academic support, information on paying for college, and scholarships. Learn more about GEAR UP at <http://gearup.ous.edu/>. *Thanks to Stephanie Carnahan.*
- **PCC Looks to Improve Diversity, Portland Observer, 6.13.2008** -- Portland Community College is looking to increase its diversity in the technology and engineering fields, thanks to two major grants from the National Science Foundation. A four-year, \$596,214 grant will offer scholarships for science, technology, engineering and math students, targeted to participation by underrepresented students, specifically women, minorities and people in financial need. The support is one part of \$1.3 million in funding the college received from the NSF this spring. PCC also earned a three-year \$698,095 NSF grant for the school's Sustainability Training for

The OPAS Vision is that all Oregonians have the opportunity to choose and successfully pursue engineering or applied science as their field of study and career, thereby helping Oregon's industries contribute to state economic needs, and innovate and prosper in the global economy.

A service of the Oregon Pre-Engineering & Applied Sciences Initiative (OPAS) funded by ETIC

To subscribe or get more info, please contact Jo Oshiro - jo_oshiro@ous.edu or 503.725.2910

archives: <http://opas.ous.edu//OPASsphere/index.html>

Technical Educators program.

<http://www.portlandobserver.com/story.asp?record=8248§ion=Features>

Articles

- *Fewer Students Pursue Computer-Related Degrees*, 6.23.2008, *Boston Globe* -- Fewer college students are pursuing computer-related degrees at a time when demand is increasing and thousands of baby boomers are retiring from technical jobs.
http://www.boston.com/news/education/k_12/articles/2008/06/23/fewer_students_pursue_computer_related_degrees/?rss_id=Boston.com+++Education+news
- *U.S. policymakers seize on importance of STEM education*. In continuing coverage from yesterday's briefing, [Education Week](#) (1/31, Jacobson) reported, "Ohio is among a number of states where policymakers...have latched onto STEM initiatives as a key to boosting U.S. competitiveness" and "providing corporations with" highly skilled employees. For example, Kansas Gov. Kathleen Sebelius (D) "is proposing this year to spend \$1 million on scholarships to train teachers in math, science, and technology," and in Iowa, Gov. Chet Culver (D) is calling for a new \$5 million STEM center "at the University of Northern Iowa." In California Gov. Arnold Schwarzenegger (R) "wants to increase the number of charter schools with an engineering theme as part of his plan to expand of the supply of engineers educated in the state." Education Week noted, "A document released by the" National Governors Association in 2007 "likely served as the inspiration for many governors' proposals this year." However, "Lawmakers...are more concerned with the 'nuts and bolts of it all,'" said Julie Bell, the education program director for the National Conference of State Legislatures. They are concerned "whether there are enough teachers for such programs, and whether students are staying in those fields," she added. *Thanks to Tim Brower.*

Research

- *The Athena Factor: Reversing the Brain Drain in Science, Engineering, and Technology*, Center for Work/Life Policy
<http://www.worklifepolicy.org/documents/AthenaPressRelease-April30.pdf>
and an article on the research, thanks to Di Saunders and Steffen Moller:
 - http://chronicle.com/wiredcampus/index.php?id=3100&utm_source=wc&utm_medium=en
 - Jo has to comment: it used to be a truism that all programmers were young – I'd love to know the career switching statistics for men in engineering and computer jobs. And what about all those anecdotes of the laid-off finding other, non-technical employment (some under-employed, some earning more for fewer hours)?

Classroom Resources

- A **new brochure from ACM** for students in K-12 describes various career options available to students studying computer science and related disciplines in college. *Thanks to Jay Bockelman.*
<http://www.acm.org/membership/careernews/extras/careercolor>

The OPAS Vision is that all Oregonians have the opportunity to choose and successfully pursue engineering or applied science as their field of study and career, thereby helping Oregon's industries contribute to state economic needs, and innovate and prosper in the global economy.

A service of the Oregon Pre-Engineering & Applied Sciences Initiative (OPAS) funded by ETIC

To subscribe or get more info, please contact Jo Oshiro - jo_oshiro@ous.edu or 503.725.2910

archives: <http://opas.ous.edu//OPASsphere/index.html>

- **Nerd Girls** - They're Beauty and the Geek all in one package! Meet an impressive team of female engineering students just one year away from landing top jobs. They're stylish, self-possessed, ambitious and confident. Whether building a solar car or harnessing wind power on a remote island, these girls fully intend to change the planet with their own ingenuity and hard work. NERD GIRLS is soon to be a reality television series developed for multi-platform broadcast in the United States and abroad.
<http://www.ieee.org/web/membership/IEEEtv/about.html> -- scroll down the Public Access box to "Nerd Girls". *Thanks to Judy D'Amico & Tom Thompson.*

The OPAS Vision is that all Oregonians have the opportunity to choose and successfully pursue engineering or applied science as their field of study and career, thereby helping Oregon's industries contribute to state economic needs, and innovate and prosper in the global economy.