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Calendar

JAN 7-11 - [Free parking in all student lots.](#)

JAN 9, Wed – Faculty Meeting, 311 Kearney Hall Library, 8am.

JAN 14, Mon – Science Pub, "[Water, Electronics and Energy](#)," Old World Deli, 6pm.

In the News

A warm welcome to [Dan Gillins](#), our most recent CCE faculty member! Dan joins us from Salt Lake City where he recently completed his PhD (University of Utah). Dan is an expert in geospatial databases for geotechnical and geological data, spatial statistics, and geographic measurement management – he is also developing new methods for mapping and predicting liquefaction-induced ground failure. Welcome Dan and *go Beavs!*

Congratulations to **Jordan Machtelinckx** (CE) whose [2012 Study Abroad photo](#) was voted a winner! Jordan received a certificate along with a framed print of his photo. The photo contest was sponsored through the International Degree and Education Abroad department (IDEA).

[Haizhong Wang](#) was invited to serve on the Editorial Board of International Journal of Data Analysis Technique and Strategies earlier this quarter, and was recently notified they have put his name and affiliations on the [journal website](#)

Welcome and **congratulations** to the Olsen family. Miss Natalya was born January 2 to parents **Mike** and **Kristin Olsen**, and big brother Maddox.



Opportunities

Grad Students – please remember to forward your defense info (date, room, degree) to nancy.brickman@oregonstate.edu.

ASCE Fishhawk Lake Project - Interested in getting involved and/or leading a unique project this term; then contact milajk@onid.orst.edu ASAP regarding the Fishhawk Lake spillway/fish ladder project which should be of particular interest to graduate & undergraduate Water Resources students. [Read more. . .](#)

[Water for the World Banquet](#) - Engineers Without Borders at OSU is currently partnered with the community of Lela, Kenya to assist with the development of a reliable source of potable water. We

recently traveled to Lela in July to drill a borehole and to implement a rainwater catchment system. Though these systems were successfully completed, we would still like to do more for the community. To make monitoring of these systems and further implementations possible, we are hosting a banquet to aid in fundraising for our partnership in Lela. The banquet will be held on February 23, 2012 from 6-9 PM at the Corvallis Country Club and will include a catered dinner, a performance by OSU's premier female a cappella group: Divine, a silent auction, and the film premier of "[Kel Wer](#)" - a documentary of this summer's implementation trip that will allow a first-hand look at our project in Kenya. We would be honored if you were to attend and help show your support for the project.

[COE scholarship applications](#) due 2/1/13. You can work on the application at your own pace, save changes, and edit your application. Take advantage of multiple scholarship opportunities!

Alumni

Members of the **Mechanical Contractors Association of America (MCAA)** Student Chapter recently toured the OHSU/OSU Collaborative Life Sciences Building job site on the South Waterfront in Portland, organized by [Joe Fradella](#). The tour was arranged by Chris Kaufman, JH Kelly Project Engineer and CEM graduate class of 2011, and led by Jason Shaw, JH Kelly Project Manager for the wet mechanical scope of the project. Jason Shaw also explained the BIM process and described solutions to logistical and coordination challenges on the project. Special thanks to JH Kelly and JE Dunn, the general contractor for the project.



(l to r): **Jason Shaw** (JH Kelly Project Manager), **Mike Tucker** (CEM 2013), **Paul Wilson** (CEM 2013), **Nicholas Cardoza** (CEM 2013), and **Chris Kaufman** (JH Kelly Project Engineer, CEM 2011)

Research for Undergrads

The **NEESreU Program** (Research Experiences for Undergraduates) is a dynamic 10-week summer research program sponsored by the National Science Foundation for upper division undergraduate students interested in Civil, Electrical or Computer Engineering, and other fields related to seismic risk mitigation. Deadline to apply is February 28, 2013. [Details here](#).

Student Groups

JAN 8, Tues – **AGC Speaker Meeting**; Fortis Construction. 112 Kearney Hall, 6 pm. Food provided. Interviews on JAN 9 for full-time and internships. Signup sheets with Cindy in 101 Kearney Hall.

JAN 10, Thurs – **AGC Speaker Meeting**; Whiting-Turner Contracting Company. 112 Kearney Hall, 6 pm. Food provided. Interviews on JAN 10 for full-time and internships. Signup sheets with Cindy in 101 Kearney Hall.

ASCE Fishhawk Lake Project - Mr. Rosskencht presented this project to ASCE last term:

Fishhawk Lake is a small private lake located in Fishhawk creek in the Nehalem watershed. It's roughly 50 years old and consists of 48-ft glory hole, fish ladder and 2-ft low level adjustable conduit at the lake bottom. In the winter of 2007 a flood event brought to light that additional spillway capacity is required to meet the 1/2 Probable Maximum Flood (PMF). We have commissioned an engineering study that has determined that 1/2 PMF value for the lake, modeled our existing discharge mechanism (glory hole, fish ladder and conduit) and has made a recommendation of an auxiliary spillway/fish ladder design at a 5% design level. This design transfers the bulk of the discharge to the new spillway, with the glory hole being used for excess capacity. Though our fish ladder does not meet current design criteria, it is not a requirement that it be replaced. Our main objective is for additional spillway capacity to meet the 1/2 PMF per the state requirements. I thought this would be an interesting challenge for students to come up with innovative alternative low cost spillway designs. These designs could have fish ladders included as an optional component. We are mainly looking for new ideas to pursue, understanding that there are usually many solutions to an engineering problem. We understand that any of the design ideas provided by students would need to be channeled to an engineering firm for approval and modification as required.

As the ASCE Executive Chair, I would like to offer this opportunity and establish a team in the first two weeks of the term. Those who e-mail me will be updated with meeting times. I look forward to your response to mlaik@onid.orst.edu.

Jobs

Intern – Pacific Foundation (Portland) - To assist in the development of engineering studies, plans, specifications, calculations, design documents, and performance assessments associated with the planning, design, construction, operation, and maintenance of the company's transmission and distribution system. Apply online, <http://www.pacificorp.com/car/op/sp.html> & search on Student Engineer-(Job Number) '120876'.

Planner/Estimator - [S. Brooks & Associates](#), Inc. The emphasis of this full time position in downtown Portland, OR is on cost estimating for commercial office buildings tenant improvements. The Planner/Estimator provides support for tracking and keeping separate shell and tenant improvement (TI) costs; inspections; change order reviews and estimates; and TI technical support for price negotiation. Provides planner/estimator and alteration management support for developing client scopes of work and estimating the proposed work. Provides technical support for price negotiation and inspections. Wage: \$32.00 - \$36.00 per hour DOE + Medical Benefit. Submit your resume by email to jobs@sbrooks.com. We are committed to providing equal employment opportunities to all persons regardless of race, color, religion, ancestry, sex, national origin, marital or veteran status, physical or mental disability, on-the-job injuries, age, sexual orientation, source of income, or any other legally protected status. The successful candidate will have a minimum of:

- At least one year of experience with tenant improvement construction of office space as an estimator.
- Candidate should have knowledge of construction drawings; and commercial office building systems such as mechanical, electrical, security, lighting telecommunications, finishes, ceilings, and partitions.
- Hands on experience and working knowledge of general contractor competitive bidding process, bid reviews and evaluation of proposed costs preferred.
- A college degree or equivalent work experience is required.
- The candidate must be computer proficient and have a working knowledge of MS Word, MS Excel, CAD software, and at least one type of cost estimating software.
- Ability to work in an open-communication and team-oriented environment.
- Strong customer service orientation
- Candidate is expected to hit the ground running.

Internship (2)- Bonneville Power Administration (BPA) is recruiting engineering students to be a part of our student development program. The program's goal is to provide meaningful engineering experience while the student is still enrolled in school and a full time position once the student graduates. Most students work during the summer months with opportunities to work during school if they choose to do so. Once accepted into the program, students are required to complete three rotations in different engineering workgroups. These rotational opportunities are usually done during successive summer breaks and are considered one of the keystone strengths of our program. Work locations are generally in the Portland/Vancouver area with some opportunities in the greater Washington/Oregon region. BPA is a power system utility with a heavy emphasis on power, control systems, communication systems, simulation modeling and design. We are recruiting students majoring in electrical engineering, mechanical engineering, civil engineering and construction engineering management.

This program has been very successful in attracting high caliber students that are seeking on-the-job engineering experience in a highly technical organization. Students who are successful in the student program may be offered permanent positions at BPA once they graduate. To date, all of the students in our program have been offered positions upon graduation. Admission into the program is competitive and we target students in their sophomore or junior years (some exceptional freshmen will be considered) who have been admitted into

an accredited engineering program. Seniors that are going onto Graduate School are also considered. We offer limited tuition assistance and the opportunity to gain experience in an engineering environment, learning and working closely with professional engineers. We have over 35 students in our program now and will begin looking for approximately 14 additional qualified and interested engineering students in January and February, 2013 for employment starting in May/June, 2013.

To apply, students need to complete an application profile. Once the student has created a profile, the student can add details and attachments to their Career Portfolio. The student only needs to do this once, and it takes about 30 minutes to complete. The student can save their progress at any time and indicated that they are interested in applying for student internships. Application deadline is January 25, 2013. Student positions require supporting documents such as college transcripts. In addition, student candidates claiming veteran's preference (this is new) will need documents such as their DD 214, SF 15 and VA Letter. It may be helpful for the student to have digital copies on hand so they can be attached to your application.

[How to Apply](#) – Go to www.bpa.gov, then "Careers", then "View our Jobs", then "Search Jobs Now", then "Pathways Student Intern" for Civil Engineer.

Association of Public and Land-grant Universities (APLU) internships - APLU's division of Congressional and Governmental Affairs will be accepting interns throughout 2013. The Association of Public and Land-grant Universities (APLU) is the nation's oldest higher education association, representing 215 public flagship universities, land-grant colleges, and state university systems, with members in every state and U. S. territory. APLU's members educate approximately 3.6 million students and award approximately a half-million degrees annually. The Congressional and Governmental Affairs division of APLU is focused on advocacy and policy development on the myriad of federal issues affecting U.S. public higher education, from student financial aid and scientific research to intellectual property and international development. Interns will work with the Congressional and Governmental Affairs staff to promote the association's agenda before the federal government.

APLU interns will witness and contribute to the policy-making and advocacy processes in areas of public policy critical to the public higher education enterprise. Interns will participate in a number of activities, such as attending and reporting on Congressional hearings and federal agency briefings, carrying out research projects, interacting with other members of the higher education community, and other projects and efforts as necessary.

The internship is a great opportunity for students with an interest in politics and the political process, especially for those interested in higher education and/or science policy. Both undergraduate and graduate students are welcome. The internship is unpaid. Interested students are asked to contact Sang Han, Director of Congressional and Governmental Relations, at shan@aplu.org.

[The Science & Technology Policy Institute](#) (STPI) is recruiting for up to 6 new policy fellows at the Baccalaureate and Master's degree level. The program is open to both graduating seniors as well as graduating Master's degree candidates. Applications will be accepted through January 25, 2013.

Forward newsletter submissions to nancy.brickman@oregonstate.edu by **Friday** each week. Prior newsletters archived at <http://cce.oregonstate.edu/node/223>

Go Beavs!