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Contact Us

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Calendar

June 6, Thu – 2nd Annual Engineering Club Carnival. Kelley Engineering Center, 1-6pm.

June 7, Fri – [OSU Golden Jubilee](#). Join other OSU Engineering alumni who graduated 50, 55, 60, 65 or 70 years ago (class years '63, '58, '53, '48 & '43) for an engineering coffee reception at the Alumni Center, 9-10:30am. Our CCE's attending include;

Alf Janssen ('63)

Neil Saling ('58)

Kenneth Asburry ('58)

Edward Geer ('52)

June 7, Fri – **CCE Faculty meeting**. 11:00 in the Kearney Hall library (room 311).

Seminars

June 5, Wed - "Driving Simulation: A Mechanism for Understanding Driver Response to Mobile Barriers in Work Zones" presented by Mr. **Joshua Swake** in defense of the Masters of Science Degree. 205 Kearney Hall, 2pm. Advisor: Prof David Hurwitz. [Read abstract here](#).

June 7, Fri – "Light-Frame versus Timber Frame: A Study in Quantifying the Differences" presented by Mr. **Brian Malone** in defense of the Masters of Science Degree. 107 Richardson Hall, 3:30 pm. Advisor: Rakesh Gupta.

June 7, Fri - "Soil-Bridge Interaction during Long-Duration Earthquake Motions" presented by Mr. **Kyle Romney** in defense of the Masters of Science Degree. 106 Owen Hall, 1pm. Advisors: Profs. André Barbosa and Ben Mason. [Read abstract here](#).

Opportunities

The Undergraduate Research, Scholarship, and the Arts (URSA) program is pleased to announce the first-ever **URSA Undergraduate Symposium**, which will spotlight undergraduate research efforts of OSU students from across the campus. The event, which will be held September 24-25 in ALS 4001, will feature talks from OSU undergraduates performing undergraduate research this summer. All OSU students are welcome and invited to participate in the event. Dr. Kevin Ahern, Director for Undergraduate Research, will coordinate the effort and will meet with each student individually to help them prepare a talk suitable for the event. Faculty mentoring undergraduates this summer who would like to have their students participate in the event should contact Dr. Ahern at ahernk@onid.orst.edu for more information.

NEW CEM polo's have arrived! They are white, Nike polo's with both the CEM and AGC logos. They are \$40 each; cash or check accepted. Make checks payable to: AGC Student Chapter of OSU. Swing by Kearney 101A today to get your new polo!

JUNE 3, Mon Deadline - OSU students who have completed a research project under the guidance of an OSU professor can get this notated on the transcript, designating them as a Research Fellow or as an Arts Fellow, depending on the nature of the work. This designation can be obtained by students at any point in their academic career - the sooner the better. We believe this designation will be of enormous help when you apply to jobs, graduate schools, or professional schools. [Apply now!](#) If you are graduating this term time is running out! If you have questions, please contact Kevin Ahern at ahernk@onid.orst.edu

Student Groups

What: **ASCE/AGC Picnic and Softball Game**

Who: All CCE Students/Faculty/Friends

Where: Avery Park (Avery west softball field closest to the kids playground)

When: **Friday June 7th from 5-7pm (This Friday)**

Why: An annual event to end the year off right! Teacher of the year will be awarded at the event also!

The softball game will be AGC vs. ASCE and all you need to do is show up to play on your majors team. If you have a softball glove, awesome. If not, I'm sure there will be a lot of bare hands being used. Food will be provided and weather looks like it should be good! Good luck with finals!

Any questions or comments contact: Joel Shelley - shelleyj@onid.orst.edu, Richard Carradine - carradir@onid.orst.edu, or Dana Delgado - delgadod@onid.orst.edu.

Advising

Next year's CE Seniors – **CE 420 is offered both Fall and Winter**. If you can't get into CE 481 or CE 491 (both split Fall/Spring), and/or the tech electives you want are not offered Fall term, then you should consider taking CE 420 Fall term.

Next year's CEM Seniors – **BA 453 is now MGMT 453**.

Upcoming Classes

Summer Term

[CCE 321 – Engineering Materials](#), an 8-wk summer session beginning June 24 (Matt Adams)

Pro-school applicants are welcome to take this summer class. An override will be required.

Fall Term

[CE 471 – Foundations for Structures](#), (Dr. Matt Evans)

[CE 505 – Design for Safety in CCE](#), (Dr. John Gambatese)

Graduation

June 14, Fri - [CCE Graduation Celebration](#), **register online to attend before June 4.**

June 15, Sat - [OSU Commencement](#). All candidates must wear traditional cap and gown. No tickets required.

Attention 2013 **CEM graduates!** June 3rd–12th you are welcome to swing by Kearney 101A to pick up your **FREE CEM hardhat** for graduation! Budget 10 to 15 minutes, as you will need to complete a brief survey. Congratulations!

Jobs

All jobs will also be posted at: <http://cce.oregonstate.edu/civil-construction-jobs>

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**Turner & Townsend, Inc.** is currently in the process of looking for **Construction Project Management professionals** in Oregon for one of their top clients in the technology field for an Owner's Representative position. The following links will provide additional information about their organization and a general job description for the position.  
<http://www.turnerandtownsend.com/about-us.html>,  
<http://turnerandtownsend.turborecruit.com.au/job/jobDetailsPreview.cfm?id=808284>.  
Closing date: June 25<sup>th</sup>. For questions, please contact: Jessica Williams at 713.457.9430 or at [Jessica.williams@turntown.com](mailto:Jessica.williams@turntown.com)

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Part time SUMMER work study student needed!

Qualifications desired:

1. Available to work **mornings** July 1st-August 16th
2. Has office work experience (or is a quick-learner).
3. Is eligible for work study in the **summer** (will need to be enrolled in summer term).
4. Experience or interest in working with youth.

If interested, please contact Cathy Law (catherine.law@oregonstate.edu; 541-737-1822).

Abstract - Swake

"Driving Simulation: A Mechanism for Understanding Driver Response to Mobile Barriers in Work Zones" presented by Joshua Swake.

Abstract: Highway construction projects require temporary changes in roadway characteristics, such as the number of operational lanes, lane path, lane width, shoulder width, and posted speed limit. These modifications which are often temporary in nature have the potential to impact driving performance. Many research efforts have focused on

developing standards to ensure the safety drivers in work zones, however little research has been conducted to better understand the influence of mobile work zone barriers, a relatively new positive barrier designed to protect workers in the activity area of a work zone, on driver behavior. The OSU Driving Simulator was used to evaluate the influence of the MBT-1 on driver behavior in single left lane and right lane drop maintenance work zones. A total of 36 drivers traversed 152 work zones. Measures of vehicle trajectory, lateral position and glance patterns were recorded and examined.

Abstract - Romney

"Soil-Bridge Interaction during Long-Duration Earthquake Motions" presented by Kyle Romney

Abstract: Earthquake engineering analyses are often performed using shallow, crustal earthquake motions (e.g., 1940 El Centro). However, large areas of the world are subject to subduction zone earthquake motions (e.g., the Pacific Northwest). A subduction zone earthquake motion is characterized by its long durations (e.g., strong shaking lasts for more than a minute). Observations of unexpected bridge damage following the recent subduction zone earthquakes in Chile and Japan highlight the importance of understanding soil-bridge interaction during long-duration earthquake motions. Accordingly, the main objective of this paper is to report the seismic response of a soil-bridge system during long-duration earthquake motions.

The soil-bridge system was created within the finite-element framework OpenSees. The pile foundation was modeled using fiber-section elements (representing a reinforced concrete pile), and the pile was attached to a soil continuum, which was specified as a dense, non-liquefiable sand, using calibrated soil springs. The bridge column was modeled using force-based fiber-section elements attached to the linear elastic bridge deck. A double span bridge was considered herein. Gap elements were used at the ends of the bridge deck to represent backfill response. The soil-bridge system was subjected to seven selected subduction zone earthquake motions and seven selected shallow, crustal earthquake motions. For each earthquake motion, the number of inelastic excursions was based on the yield rotation, θ_y , corresponding to the curvature at the point of "first yield" of the moment-curvature analysis. The number of excursions was plotted with five earthquake intensity measures: peak ground acceleration (PGA), cumulative absolute velocity (CAV), significant duration (D5-95), Arias intensity (IA), and spectral acceleration (S_a). Results show a definite distinction between the two types of earthquake motions and imply certain parameters are better measures to correlate structural damage to number of inelastic excursions.

Go Beavs!

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