

Quick Links

- [Year-at-a-Glance School Calendar](#) (pdf)
- [CCE Online Calendar](#)
- [Advising Sign-Up](#)
- [Scholarships](#)
- [OSU Career Services](#)

Contact Us

School of Civil and
Construction Engineering
Oregon State University
220 Owen Hall
Corvallis, OR 97331
541-737-4934

cce@engr.oregonstate.edu
<http://cce.oregonstate.edu/>

Calendar

APR 2-6 – Free parking in all student/visitor lots

APR 13, Fri – [Contractors Night](#)

Seminars

APR 2, Mon - **Structures** Faculty Candidate Presentation, 311 Kearney Library, 2pm.
Open to all. [Abstract here](#).

APR 5, Thurs - **Structures** Faculty Candidate Presentation, 311 Kearney Library, 2pm.
Open to all. [Abstract here](#).

In the News

[Dilemma Zone Study](#) (KMTR)

[David Hurwitz](#)'s research effort was concerned with the 'dilemma zone' and how traffic lights and vehicle detection can be adjusted to help manage it, and prevent crashes at signalized intersections.

Greetings from [Prof. Mick Haller](#) while on sabbatical in Istanbul - This year I've been on sabbatical at Bosphorus (Boğaziçi) University in Istanbul. The University is aptly named after the nearby Strait, which not only divides the city of Istanbul but also forms the local boundary between Europe and Asia. The University is on the European side of the Strait but I happen to be living on the Asian side. So each morning I commute to another continent to go to work. A far cry from the commute I have in Corvallis.

The south campus of the University, in fact, has a wonderful view of the Bosphorus. [This photo](#) was taken from a spot I walk past every day on the way to my office in Perkins Hall where the Civil Engineering Department is housed. In the photo the first Bosphorus Bridge can be seen in the distance to the south. This is a 3524 ft suspension bridge that opened to automobile traffic in 1973. There is also a second bridge over the Bosphorus (Bosphorus 2) to the north (not in the picture). The Turkish Ministry of Transportation has recently approved plans for a third bridge, which will be built even further north. It is estimated that the new bridge will cost 5 billion (USD) to build.

The picture also shows the range of ship traffic on the Bosphorus, as it connects the Black Sea with the Sea of Marmara and the Mediterranean Sea beyond. There is a huge volume of shipping using this waterway to access the Black Sea ports of Odessa and Kherson and the Ukrainian naval base at Sevastopol. The shipping traffic on the Bosphorus is 5 times heavier than that on the Panama Canal, 55,000 ships pass through this strait each year coupled with hundreds of ferry crossings each day (crossing in the perpendicular direction). Now there's a traffic signaling problem for you!

Opportunities

APR 4, Wed – extended deadline for the [University Graduate Laurels Block Grant Scholarship](#).

APR 5, Thurs – [COE Academic Jump-Start](#) Workshop, Getting your term started right. Batcheller Hall, 6-7pm.

MECOP Applications are due April 10, 2012. The application template is here, <http://mecop.ous.edu>. In addition to the on-line application submittal, required materials include two printed copies of the application, two copies of unofficial transcripts, and one copy of the student agreement mailed or delivered to the MECOP office in Corvallis. Mailing address is on the website. Students who pass the application pre-screen will be notified by the MECOP office in early May.

OSU Undergraduate Research - Beginning with graduation in spring 2012, OSU will provide students the opportunity to get transcript notation documenting significant research/creative efforts at OSU. Submit before June 1. [Details here](#).

Advising

Welcome back! Just a reminder that advisors will be seeing students on a drop-in basis all week – no appointment necessary.

On a waitlist? Attend the course this week, if space opens in the course students on the waitlist are automatically added. Waitlists are only active week 1, if you are still on a waitlist Friday, talk to the professor.

Graduating spring? Make sure you've applied! Deadline to apply for Spring graduation is April 13. If you are graduating Summer or Fall but want to participate in Spring commencement (Michelle Obama is the confirmed speaker!) you must apply by April 30. There will be a graduation fair to see/purchase announcements, cap, gown, etc. held April 17-18 in the MU Ballroom. Learn more about graduation: <http://oregonstate.edu/events/commencement/general-information>

Scholarships - Did you apply for scholarships using the COE scholarship application? Students will be notified of award selection no later than May 1. Questions? Contact Theresa.waters@oregonstate.edu

Scholarships

[Undergrads](#)

- ASCE Younger Member, *deadline March 30*
- Association of State Dam Safety Officials, *deadline March 31*
- Zonta, *deadline April 1*

[Grads](#)

- Laurels Block Grant, *deadline April 4*

[Research for Undergrads](#)

- Sea Grant Summer Scholars, *deadline April 17*

Please note there are MANY more opportunities available; these represent only those with impending close dates.

Graduation

APRIL 13 – deadline to apply for graduation.

APRIL 17-18 - [Graduation Fair](#) (Grad Fair) 10 - 4 pm, in the MU Ballroom. This is your opportunity to get information about the ceremony and make contact with the OSU Alumni Association. You can also buy:

- Cap and gown
- Class rings and other souvenirs
- Yearbooks
- Commencement announcements

APRIL 26 – deadline to confirm commencement attendance

JUNE 15, Fri - [CCE Graduation Celebration](#), an evening celebration for parents, relatives, and friends with your CCE faculty and staff. Plan on joining us for a few short speeches, student chapter year-in-review presentations, and a grad walk across the stage. Seating is unlimited, lots of photo opportunities and a year-end send off! Cake and coffee follow ceremony. All graduates in Spring, Summer & Fall 2012 will be invited to participate via email in mid-May. Tentative timeline is 7-9pm. (*Note: cap & gown are required.*) And remember that area lodging fills up quickly! A follow-up email to all graduates forthcoming in the next few weeks.

JUNE 17, Sun – [OSU Commencement](#), Reser Stadium, *rain or shine*

Spring Classes

CE505 - Construction Site Operations and Systems Engineering, [details here](#).

Jobs

[Summer Internships](#) - Kerr Contractors, Inc. (KCI), an Oregon heavy civil contractor has current openings for Summer Interns. KCI works in the Portland metro area and throughout Oregon on heavy civil construction including grading, paving and underground utilities. Job duties will be assigned depending upon experience to provide the individual the greatest exposure to a variety of construction methods, practices and technology. KCI is looking for aggressive and self-motivated individuals who come aboard to contribute and make a difference. Equal opportunity employer. For questions or to schedule an interview, please call Alan Aplin at 971-216-0050 or send a resume via email to aaplin@kerrcontractors.com.

[OSU Office of Undergraduate Research](#) seeks applicants in all majors who are engaged in research, engagement, or creative endeavors outside of the classroom to serve as Ambassadors of Undergraduate Research for the 2012-13 school year. Ambassadors will represent OSU research at campus and community events to help promote and expand undergraduate research and creativity efforts across the campus. [Apply here](#).

The [Student Sustainability Initiative](#) (SSI) is seeking a new Director. This is a student employment position, and is directly responsible for all activities and programs of the SSI, including the use and well-being of the Student Sustainability Center (SSC). [Details here](#). Applications are due Friday, April 20, 2012

Structures Faculty Candidate Presentation

presented by Brent Chancellor, 4/2

Abstract:

The model building codes widely used in the United States set a seismic performance objective for structures of life-safety under ground shaking with a return period of about 500 years. Most of the seismic lateral force-resisting systems allowed by the model building code may protect the life of the occupants, but the structure will be damaged and may have to be taken out of service, disrupting the community and adversely impacting the local economy. Ground motions with more frequent return periods may also cause significant damage the structure. A new class of structures called "self-centering seismic lateral force-resisting systems" has been studied at Lehigh University and elsewhere for the last decade or so. These self-centering systems are intended to provide large ductility capacity during the earthquake and return to an upright, plumb position after the earthquake leaving little or no damage to the structure.

This talk focuses on the performance of one self-centering seismic lateral force-resisting system, the steel, self-centering concentrically-braced frame (SC-CBF). A four story SC-CBF was tested in the laboratory at 0.6 scale and was subjected to many design basis (500 year return period) and maximum considered (2500 year return period) earthquake ground motions using hybrid simulation. Data from the laboratory tests was used to validate a computer numerical model and additional numerical studies were carried out to examine the performance of SC-CBF at other aspect ratios (building heights). This talk discusses the results of this research on SC-CBFs and some of the advantages and disadvantages of this system.

Structures Faculty Candidate Presentation

"Out-of-Plane Seismic & Wind Performance of Brick Veneer Walls on Wood Frame Construction"

presented by James LaFave (Univ. of Illinois), 4/5

Abstract:

Modern residential anchored brick veneer construction has been investigated, by laboratory testing of individual tie connections and of brick masonry veneer wall panels. Brick-tie-wood connection subassembly tests explored effects of various parameters on both strength and stiffness of typical brick veneer corrugated sheet metal tie connections subjected to monotonic and cyclic loading. Full-scale brick veneer wall panel specimens were then tested under static and dynamic out-of-plane lateral loading on a shake table. These tests (up to partial collapse) captured overall performance of the wall system, including interaction and load-sharing between the brick masonry veneer, corrugated sheet metal ties, and wood frame backup. Analytical models for brick veneer wall systems have been developed, based in part on these experiments, and then used to further evaluate the out-of-plane seismic and wind vulnerability of this type of construction. A summary of all this work will be presented, along with a brief description of how it fits into an overall program of civil structural engineering connection research related to buildings, bridges, and other structures.

Go Beavs!

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