

# AMERICAN SOCIETY OF CIVIL ENGINEERS

[STUDENT CHAPTER]

NOVEMBER 2009

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## GENERAL MEETINGS

NOVEMBER  
4, 18

7 PM

PLACE:  
SSL 228

## UCI CEE AFFILIATES BREAKFAST

The UCI Civil and Environmental Engineering Affiliates met for a breakfast bright and early at 7am last Friday for their quarterly meeting. The topic of the meeting was Advances in 3-Dimensional Design "Demystifying the Fourth and Fifth Dimensions". The affiliates opened up the meeting to faculty and students so they could listen to the three speakers who presented their views on advancing Building Information Model (BIM) software. BIM allows engineers to model their designs more realistically by inputting extensive information.

Doug Eberhard, Senior Director of Infrastructure at Autodesk first discussed BIM and how it has helped various projects around the county including the construction of the Freedom Towers in New York City and the renovation of the Oakland Bay Bridge. BIM not only allows for a more striking presentation of the final product but it allows the engineers to pinpoint construction problems as well as scheduling and cost issues before construction even commences.

Tom Lazear, consultant to Bentley Systems, Inc., spoke next about Bentley's version of BIM software. He discussed how BIM has helped the Army Corp of Engineers in their construction and planning. BIM gave the Army Corp of Engineers the ability to prefabricate materials which saved time and money since it is more costly and inefficient to construct on site.

Larry Serafini, Deputy Airport Director at John Wayne Airport spoke last about his firsthand experience as a project owner. BIM is being used in the design and construction of renovations taking place at John Wayne Airport. Serafini was able to express the importance of BIM to not only project owners but contractors who both benefit from its use. He also described how BIM helps in the political field since stakeholders are able to visualize the exact effect that the project will have on the area. The transformation that BIM could have in the field of civil engineering became quite obvious as all three speakers made their case and it seems it is only a matter of time before its use becomes universal. For civil engineering students, it is definitely a topic worth researching.

## STEEL BRIDGE

Steel Bridge meetings are getting under way and possible designs have begun to be brainstormed. Get excited because we are beginning welding lessons! Times are still being set up so, in the meantime, watch the welding videos included in Steel Bridge's e-mails to get an introduction for what to expect!

Sign up at future meetings to begin receiving general e-mails about their next events. There is still time to get involved. Meetings are held weekly, Tuesdays at 7 pm in AIRB 2030.

## CONCRETE CANOE

Our captains have ordered the Styrofoam needed for the basic mold of the canoe, which means that construction on the canoe will begin shortly. Construction on the canoe will take place after rowing practices, so mark your calendars! If you cannot make it to one event, you can always come to the next.

Rowing Practices are held every Sundays at 11 am in Newport Harbor. So far, many people have shown up to practice rowing, but there is always room for more! E-mail the captains for more info.

## JOHN WAYNE AIRPORT TOUR



On October 17th, a group of students had the chance to visit John Wayne Airport and tour the construction site, as well as view blueprints of future plans to increase the Airport's facilities. The Airport is planning on adding a new Terminal C, as well as im-

proving Terminal A and B. A parking structure is also under way for not only motor vehicles, but also an overnight parking area for airplanes.

The tour was led by Larry Serafini, Airport Director of John Wayne Airport. Serafini began the tour with an explanation of the process that takes place before, during and after construction of the airport. One of the major difficulties encountered before construction begins is the overall costs. Much of the funding comes from grants given by the state or other organizations. According to Serafini, politics is a major part of construction management and creating a feasible plan.

During the tour, Serafini took us through a layout of where each part of the terminal would soon exist. To make room for the new terminal, part of an old parking structure was removed earlier this year. Construction on the new terminal has just begun, so students were able to see the beginning process of the structure. Throughout the site, we were able to see steel piles and the way they are hammered into the ground.

There will be future tours of the construction sites as progress on the terminal picks up. Everyone is definitely invited to come out to the next event, so look forward to it!

## ASCE STUDENT NIGHT

Get ready for this year's student night! It will be a night to network, socialize, and learn about ASCE on the national level. A job fair consisting of many companies will be attending so it will be a great opportunity to speak to professionals in the civil engineering field and perhaps land an intern! Cost will be \$35, but the more people that attend, the cheaper the cost will be. Dinner will be served as well, so sign up for more info!

The event will take place **Thursday, November 19th at 5:30 pm** at the **Hilton Hotel in Costa Mesa**. Rides will be provided.

### QUESTIONS? COMMENTS? CONCERNS?

### CONTACT US AT:

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## NOVEMBER 2009

### UPDATES AND EVENTS

#### FOOD DONATIONS

- all through Nov.; bring cans/boxes/etc. to the ESC room next to MDEA

#### GUEST SPEAKER

- Katherine Shinkai from LPA Inc. on a presentation about the OC branch of ASCE
- Steve Bucknam from Bucknam and Associates speaking about Water Resources

SUN	MON	TUE	WED	THU	FRI	SAT
1 Daylight Savings! Fall Back!!	2 Dean Town Hall Meeting	3	4 GM: 7 PM Katherine Shinkai	5	6	7 Alumni BBQ: 2-5 pm
8	9 Lunch w/ Dean: 12-1 pm	10	11	12	13	14 ASCE Picnic
15	16	17	18 GM: 7 PM Steve Bucknam	19 ASCE Student Night!: 5:30 PM	20	21
22	23	24	25	26 Thanksgiving No School!	27 No School!	28
29	30	1	2 GM: 7 PM	3	4	5