



CIVIL AND ENVIRONMENTAL ENGINEERING Schedule of Events

Saturday, April 20, 2013

ONGOING / DROP-IN EVENTS

9:00–3:00: McLaughlin Plaza

Information Table. Ask questions of faculty, staff, and students; take a building or lab tour.

10:00–11:30: 7th Floor Davis Hall

Project Showcase. See what students worked on in their classes this year.

11:00–1:00: Bechtel Terrace

A Droplet's View of Oil Spill Science *with Professor Evan Variano.*

Soap bubbles rising through the atmosphere help us visualize the myriad phenomena that occur when oil and gas rise through turbulent waters.

SCHEDULED EVENTS

11:00–Noon: 502 Davis Hall

Info Session: CEE *with Department Chair Samer Madanat*

Meet the Department Chair and learn about what why studying civil engineering at Berkeley is exciting. Learn about new research opportunities.

1:30–2:00: 406 Davis Hall

Liquefaction: When Earthquakes Turn Ground to Liquid *with Professor Ray Seed*

The soil that lies between bedrock and a structure can control how earthquakes feel. Firm soil can be temporarily turned into a fluid, like quicksand. See how this happens, and its effect on bridges and structures.

2:00–2:30: Tours begin at CEE Information Table.

Strawberry Creek Tour *with Professor Sally Thompson*

Strawberry Creek runs through the Berkeley campus, connecting the urban downtown to the Strawberry Canyon wild-lands. It is a typical example of an urban stream, having changed enormously since the founding of campus, and facing hydrological, water quality and ecological challenges. See how we use this wonderful resource in our teaching and research, and what the future holds for Strawberry Creek.

2:30–3:00: 502 Davis Hall

Skyscrapers & Suspension Bridges, Marvels of Engineering and Steel Column Test *with Professor Hassan Astanteh*

How tall can we go? How much pressure will a steel column withstand before it buckles?

3:00–4:00: 406 Davis Hall

Life in CEE: A Student Perspective *with undergraduate honor students*

Join us for light refreshments while students answer questions and give tips about life at Berkeley.

OPEN LABS: 1:30-3:00

Go With the Flow | 212 O'Brien Come see the flow of fluids under various conditions in CEE's unique transparent fluid station. You will take part in these lab experiments when you take our required *Elementary Fluid Mechanics*.

Un-Manned Flying Drone Demo | Bechtel Terrace | Come fly an unmanned aerial vehicle (UAV)! Professor Raja Sengupta's research group created a real-time tracking system. A UAV uses an onboard camera to identify and track an object. Once the object enters the camera's view, the UAV automatically changes its position in order to keep the object in its sight. Come test it out.

Build a Tower to Resist Earthquakes | Second Floor, Davis Hall | Design and build structure to resist a major earthquake! Learn about the important building components that engineers use to help buildings safely resist earthquake shaking. Once your structure is complete, you can test it on an earthquake simulator. Will it stand or fall?