

Fall 2008 Newsletter

December 2008

Upcoming Events:

- **Winter General Meeting**
 - Thursday, January 8, 2009, 6pm – 7pm
- **Infosessions**
 - Xerox: Wed, January 21, 2009, 6pm – 7pm
 - Schlumberger: Tue, February 3, 2009, 6pm – 7pm
 - Jacobs Engineering: Thur, February 26, 2009, 6pm – 7pm
- **Plant tours**
 - City of Hope: Fri, January 16, 2009, 12pm – 4pm
 - Hyperion Treatment Plant (City of Los Angeles, Bureau of Sanitation): Fri, January 30, 2009, 11:30am – 2:30pm
- For more information, check the event calendar:
<http://www.studentgroups.ucla.edu/aiche/calender.htm>



Fall 2008 Events:

- **Chemical Engineering Career Fair**
 - The career fair provides students with the opportunity to communicate and connect with numerous different employers in a short period of time
 - 230 students and 19 companies attended the career fair
 - Companies in attendance included: Accenture, Air Products and Chemicals Inc., Applied Materials, Baxter Bioscience, BP, Chemical Engineering Partners, Chevron Corp., City of Los Angeles Bureau of Sanitation, ConocoPhillips, Environ, Frito Lay, Jacobs Engineering, Nutrilite, Procter & Gamble, Pharmaceutical Services Corp., Raytheon Company, Schlumberger, Southern California Edison, and Technip USA Inc.
- **Infosessions**
 - Each quarter, companies visit our campus and talk to students about the exciting opportunities that their companies have to offer
 - Visitors included: Air Products and Chemicals, Frito Lay, ExxonMobil, BP, Intel, Procter & Gamble, Navy: Engineering Programs, Nutrilite, and the City of Los Angeles Bureau of Sanitation
- **Plant Tours**
 - Visiting the plants where production occurs gives students a first-hand look at the work of a chemical engineer
 - Plant tours included visits to Air Products and Chemical and ConocoPhillips



Events from the Past Quarter (cont.):

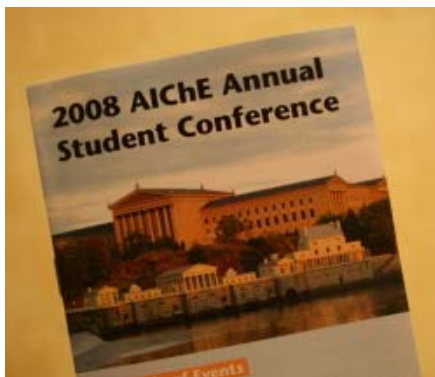
- Social Events:

- Believe it or not, chemical engineers have fun too!
- Liquid Nitrogen Ice Cream Social
 - Getting to know our peers while making delicious ice cream using liquid nitrogen
- Build a Cookie-Gram Workshop
 - Made cookie-grams for all the special people in our lives



- AIChE National Conference: Philadelphia

- The purpose of the AIChE (American Institute of Chemical Engineers) National Student Conference is to promote interaction among Chemical Engineering students, professionals, industries, researchers, and professors. It is an eye-opening experience for every attendee.
- We are attending this year's conference also for the Chem-E-Car competition, which is part of the conference. This competition encourages undergraduate research in alternative fuel source and application of Chemical Engineering techniques in a team environment. A team of fifteen students was sent from UCLA. This is our third year to attend the National Student Conference.
- Also at the conference were various workshops to enhance student chapter operation and personal career planning. We attended the career and graduate school fair. It afforded us more insight of our post-graduate plan. It was also an excellent opportunity for the UCLA chapter to connect with companies that will potentially sponsor us or come to our own career fair. Finally, we are proud to announce that two of our members (Bert Liu and Cynthia Ma) were recognized at the Student Awards Brunch as excelling Chemical Engineering



Projects:

ChemE Car

- The UCLA Chem-E-Car team is part of AIChE at UCLA. We design shoebox-sized cars powered by chemical reactions to enter in competitions against car teams from other schools. The car that stops closest to the goal distance wins, but neither the load nor the distance is known until the day of the competition. This year, we will be competing at the Regional Competition at the University of California, Davis, on April 3-4, 2009.
- We are currently working on two different cars. Our hydrogen fuel-cell-powered car, which we have been using in the past few competitions, is nicknamed the "old car." To improve on our "old car," we are working on adding a more accurate stopping mechanism using an iodine clock reaction, which can be calibrated to turn dark after some time. By using a flashlight on one side of the solution and a photosensor on the other, we will be able cut the circuit when the solution turns dark, and therefore more accurately time when the car stops.
- For our "new car," we plan to build a galvanic cell to generate electricity to power the motor and use the iodine clock reaction with a photosensor as the stopping mechanism. We hope to complete this new car in time for this year's regional competition. Over the next school year, we might also design a third car to explore yet another alternative fuel source.
- Feel free to email current co-chairs, Jennie Pang and Jessica Ji, with any questions, comments, or suggestions at uclachemecar@gmail.com.
- Meetings for Winter 2009: Mondays 10:00 - 11:50 AM, Tuesdays 11:30 - 1:30 PM, & Fridays 9:00 - 10:50 AM | Location: BH 5764 | Weekly updates: <http://uclachemecar.livejournal.com/>
- Outreach
 - AIChE Energy Initiatives Student Chapter Competition: We have submitted our proposal and have been selected as one of the chapters to receive the grant of \$2500. We plan to have three workshops where we teach the students about different alternative energies with an emphasis in solar energy. We plan to start our visits at the participating schools, Mar Vista Central High School in Culver City and John Burroughs Middles School in Los Angeles, mid-February.



- **Other Events:**

- General Meeting
- Resume and Undergraduate Research Workshop
- Winter Enrollment Workshop (Mentorship)
- Internship Panel

