



the GREEN U

[@ UC Irvine]

Save the Date:

- Middle Earth CFL Exchange 11/5
- Take the Stairs Day 11/13

Points of Interest:

- The Green Campus Program has talked to over 400 students about the organization this quarter
- Green Campus's Waste Audit Report has been finalized and will be included in Croul Hall's LEED Certification application
- Green Campus will be working in the next few weeks with UCI Dining on lighting projects and Facilities Management and EH&S on a new lab project—look for it next issue!

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Volume IV, Issue 2

October 2008

UCI Attends the 2008 CSU Facilities Management Conference

By Max Broad

“Sometimes I like to ask the applicants I’m interviewing questions to throw them off,” Darcy Immerman of DMJM Harris candidly avowed. “How are you going to save the world? What is your dream job?” she asked rhetorically. She acknowledged that an applicant must be prepared to answer questions beyond the formalities expected in an interview, as Green Campus students crystallized every word of her advice into their memory.

Career development was an emphasis and highlight of this year’s Cal State University Facilities Management Conference, held from October 22-24. The host Millennium Biltmore Hotel of Los Angeles, built in the 1920s and commonly known as the Biltmore, provided a stark contrast to the environmental innovation theme with its elaborate design and architecture clearly from

another era, not to mention the ubiquitous presence of incandescent light bulbs. Yet, the setting was an elegant location to host those from CSUs, private environmental companies and Green Campuses alike.

Intern teams from nine Green Campus schools put together posters and tabletop displays as part of a student competition judged by CSU officials. The Irvine Green Campus team presented on the new internship class, the Do It in the Dark program, and club outreach. While the competition was stiff and the judging close, CSU campuses pulled off a sweep, with Humboldt State and Cal Poly Pomona tying for 3rd, CSU San Bernardino in 2nd, and Chico State placing first. Congratulations to the winning campuses.

A new aspect of the conference was a pairing of each student attendee with a “mentor”—a CSU or Industry Professional. I was paired with Elyra San Juan, the Assistant Vice Chancellor of Capital Planning Design and Construction. Having graduated with a degree in engineering, she worked her way



Green Campus Interns Max Broad and Alyssa Penacho with Campus Lead Peter Jenkins beside UC Irvine’s Student Outreach competition entry.

to a prestigious position in the California State University’s Chancellor’s Office. This proved beneficial for me, as I tagged along and networked with executives of major architecture firms and sat in for meetings on major construction projects. Though the specific language was typically over my head, it was an introduction to an exciting professional world!

The most memorable session was the career panel which featured 5 successful green businesspeople. Advice was given to the attending Green Campus interns and other student participants, as we learned about interviewing and getting a strategic edge on applying for a job. When asked to answer her own question, panelist Immerman replied without hesitation “If I could select my dream job, I would be Commissioner of Major League Baseball.”



Max Broad and his conference mentor, Elyra San Juan

Fall Biomed Lab Competition

By Courtney Gill

This quarter, the Green Campus Program is hosting its first ever Lab Competition in the Biomed Buildings in UC Irvine's Med School.

After meeting with Chris Haug of Environmental Health and Safety, Green Campus chose to include three buildings in the competition: Sprague, Hewitt and Gillespie. The baseline data was collected during the week of October 27th, and the competition will continue during the first three weeks of November.

The fall competition represents a new, unique approach to the fume hood

competition given the types of fume hoods used in the School of Medicine. In the past, Green Campus has only targeted Variable Air Volume (VAV) hoods, as they consume energy proportionate to their sash heights, allowing lab occupants to readily control energy use by shutting the sashes on unused hoods. Most Constant Air Volume (CAV) hoods, on the other hand, consume the same amount of energy regardless of sash height, making them less well-suited for behavior change-oriented competitions. The Med School includes a combination of VAV hoods, CAV hoods with a Phoenix sensor, and CAV upgradable hoods. Phoenix sensors

function like an occupancy sensor, and automatically put fume hoods into energy saving standby mode when sashes are closed and nobody is in the vicinity. Because Phoenix sensors require that sashes be closed to put hoods into standby mode, they still rely on an element of human behavior. Upgradable CAV hoods refer to hoods that have not yet been outfitted with a Phoenix sensor, but that are compatible with the device.

During the competition, we will try to encourage modified behavior in the labs, regardless of the type of hood. If at the end of the competition we see a decrease in the number of unused fume hoods left open, we will

present our data to Facilities Management and see if it would be financially beneficial to upgrade CAV hoods with energy-saving Phoenix sensors.

Our four credit interns, Cynthia Leung and Andrea Cedeno have been doing a great job going into the labs and taking inventory and measuring sash heights. We hope the occupants of the labs in the Biomed buildings will learn the most energy efficient ways to operate their fume hoods. We will announce the winners of the competition at the end of the quarter. Until then, good luck to all the participants!

Mesa Court CFL Exchange



Green Campus members give away CFLs to freshmen in

By Alyssa Penacho

On October 8, 2008 the UCI Green Campus Program hosted a CFL exchange in Mesa Court, one of the undergraduate housing communities on campus. We directed our efforts at freshmen students and encouraged them to help the environment through energy efficient practices.

Mesa Court residents responded in many positive

ways to our outreach efforts. Many students were very interested to hear about our program and everything we do to save energy on campus. It was exciting to hear many students say they already had energy efficient light bulbs in their rooms. Those who hadn't heard of CFLs before were curious to learn more about them and how they work to save energy. Several students promised to stop by our booth after their dinner to pick up a light bulb, but unfortunately we ran out of light bulbs earlier than expected. For those who missed out, we hope to do another CFL exchange in Mesa Court to reach even more interested students.

Overall we were able to give away every CFL that we had with us—a total of 43. If we assume that each 23 watt CFL will be used to replace a 60

watt incandescent light bulb, and that each bulb will be used for four hours a day, a total of 2,323 kilowatt hours will be saved each year!

We are looking forward to hosting another CFL exchange soon in the other freshman housing communities on campus in order to further inform freshmen students about Green Campus activities and the importance of saving energy.



Club Members (from left to right): Courtney Gill, Kelly Wensi Li, Roxana Carrillo, Alyssa Penacho, Tova Handeleman



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Anteater Outreach

By Max Broad

Over the summer UCI Green Campus, like other Green Campus schools, implemented changes to our team structure to differentiate roles and responsibilities amongst the team. Courtney was a natural for the team lead, Kong the treasurer, Alyssa the secretary, putting me in charge of public relations. This meant each of us were not only in charge of specific duties from the past, but we incorporated new duties as befitted our position.

In an effort to embrace my role in "PR", I

began an outreach program to the environmentally concerned portion of the UCI student community. Last spring, former Green Campus intern, Samantha Kao, along with our own Alyssa Penacho compiled a list of classes relating to sustainability for the UCI Sustainability Committee. Using those as a guide, I contacted the professors of those classes. Ecology and Evolutionary Biology Professors Peter Bowler and Katie Suding generously invited us into their classrooms, allowing us to share Green Campus efforts, opportunities to get involved, and details of our Wednesday night club with over 500

students. Professor Bowler even followed up with an email to his students reiterating the club details and encouraging participation in campus sustainability efforts.

Club outreach is a valuable part of the Green Campus Program because it not only offers as a coalition for our education and efficiency projects, but also acts as a means of informing the participants of our internship opportunities. Already, an increase in club attendance has been observed, much to the thanks of our newest brand of stakeholders: the professor.

"Club outreach is a valuable part of the Green Campus Program"

Chemistry Lab TA Fume Hood Education

By Alyssa Penacho

The UCI Green Campus Program is trying to reach out to all laboratory users to encourage proper fume hood use to save energy. We believe it is a good idea to educate students on energy efficient fume hood practices so they can use these ideas throughout their academic careers.

Through our "Shut the Sash" campaign, we are reaching out to chemistry laboratory teaching assistants (TAs) and encouraging them to tell their students about closing their fume hoods. We contacted the head professors of many lab classes and met with their TAs. We told the TAs all about our program, and why lab energy efficiency is important. We explained that 2/3s of UCI's energy is used by labs, mainly due to improperly

used fume hoods left open that circulate the air of the entire room. We also highlighted the fact that closing fume hoods is safer for the students to avoid the circulation of toxic chemical fumes in the labs.

We

asked the chemistry lab TAs to tell their students to close their fume hoods whenever they're not in use, and before leaving the classroom. We also provided suggestions as to how they can incorporate this into their lesson plans. Any TA that includes this message in their class curriculum and lets us know will be awarded a prize at the end of the quarter, such as a gift card or t-shirt.

Thus far, two TA's,



SHUT the SASH

Did you know?

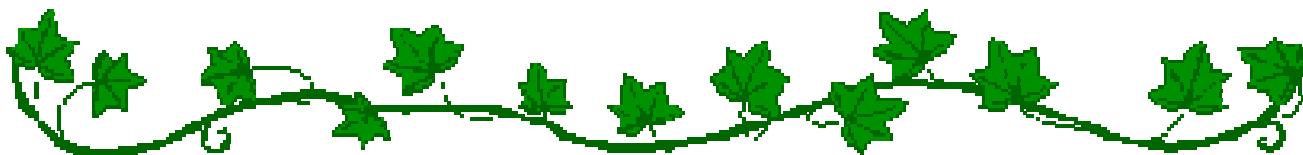
- ⇒ Typical fume hoods running 24/7 use 3.5x more energy than the average house.
- ⇒ Each fume hood costs \$4,250/year.
- ⇒ Closing a fume hood can save up to 50,000 lbs of CO₂/year!

What Can TA's Do?

Announce to your lab students that they need to close their fume hoods during lab when not in use (as safety) and before they leave (as clean up) and we'll give you a prize! Just let us know at: greencampusuci@gmail.com

Slip for TA's announcing the program

Matt MacDonald and Nathaniel Sickerman, have participated in the program. We are excited to present them with prizes at the end of the quarter! We hope the remaining lab TAs will pass on this message to their students, and encourage efficient fume hood use by all UCI laboratory users.



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The Green Campus Program

The Alliance to Save Energy's "Green Campus Program" is funded by the California ratepayers under the auspices of the California Public Utilities Commission. Strategic Energy Innovations is a Sub-contractor of the Green Campus Program.



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Green Campus Club, Up and Running

By Courtney Gill

The Green Camus Club at UC Irvine kicked off its first meeting on Wednesday, October 1. We have new members interested in saving energy and are excited for projects this quarter.

During October, the club hosted a CFL exchange in Mesa Court and screened the Humboldt State Green Campus Program film, "The Phantom Hunter."

Club members have assisted in planning a CFL

exchange in Middle Earth and a Take the Stairs Day event, both coming up in November.

We are also pleased to announce that Andrea Ceden and Cynthia Leung, both Green Campus members, signed up for the Green Campus For-Credit Internship class. They have been an invaluable resource during the quarter.

We hope to continue recruiting members and working on energy projects throughout the rest of the quarter!



First Green Campus Meeting of the quarter



Candidate for Green Campus Yearbook Picture for 2008-2009

Monthly Metrics Table—October 2008

| Project Title | Time Period (October 2008) | Estimated Energy Savings (kWh/yr) | Money Saved | Lbs. of CO ₂ Avoided |
|---------------------------|----------------------------|-----------------------------------|-----------------|-------------------------------------|
| Mesa Court CFL Exchange | October 8 | 2,323 kWh | \$239.82 | 1870.0 lbs of CO ₂ |
| Total for October: | | 2,323 kWh | \$239.82 | 1870.0 lbs of CO₂ |



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