

NEWSLETTER

May 2008

UCSB's Green Campus

Green Campus Reflects on the Year

As the year comes to a close and summer nears, the Green Campus teams reflects on the many projects of the 2007-2008 school year to gear up for summer and next year.

Fall quarter was filled with numerous compact fluorescent light bulb (CFL) exchanges. Green Campus Interns kicked off a plan to change out as many light bulbs in Isla Vista as possible; over 800 CFL's were exchanged. This continued through to winter and spring quarter with numerous exchanges in Isla Vista.

Interns also unveiled a brand new CFL exchange email address (CFLswapUCSB@gmail.com), which received many requests from students wanting to switch out their incandescent bulbs to be more energy efficient.

The other big project of fall quarter involved drafting a letter to ask Chancellor Yang for student involvement in the Climate Neutrality Committee. Since signing on to the American College and Universities Presidents Climate Commitment (ACUPCC) last year, UC Santa Barbara had been actively working towards creating a Climate Neutral Plan. Green Campus supported the creation of a formalized institutional structure which included a role for students. Now, during the final weeks of the school year, this structure is finally being put together and being led by newly hired Associate Vice Chancellor for Administrative Services, Ron Cortez.

Winter quarter saw many changes for the Green Campus Intern team. Four new interns were hired: Clayton Carlson, Jesse Fulton, Taylor Orr, and Jordan Sager. The new interns generated many new ideas and thoughts, which have all been put into action during spring quarter. Spring quarter has been busy: a new Green Campus brochure was made; the entire Life Sciences Building was audited; the creation of a Green Campus blog can allow students to see what is new; and a dorm-wide energy competition took place.

Throughout this entire year, Green Campus Interns have **exchanged or passed out 2,638 CFL's to UC Santa Barbara students, participated in 3 LEED Audits, and saved approximately 81,989 kW/h or \$8,198!** Next year, as the Green Campus Team continues to learn and grow, even more savings are certain.

UC Santa Barbara Green Campus by the numbers...

- 1 = Building LEED audited
- 5 = Volunteers
- 6 = ipods raffled off as prizes
- 30 = pizzas eaten in 10 minutes by San Nicholas Dorm – the energy competition winners!
- 3453 = CFL's exchanged in 2007-2008

General Green Campus questions or comments can be forwarded to GreenCampusUCSB@gmail.com.

To receive free CFLs email: CFLswapUCSB@gmail.com.



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Residence Halls Learn About Saving Energy

Green Campus recently finished its largest project of the year; The Residence Hall-Wide Energy Competition. As was noted in our previous newsletter, the competition started in early May and finished on May 18th. During our initial kickoff event, Green Campus handed off over 300 CFLS, and had a chance to speak with a large percentage of the freshman class. Many people were excited to band together with their buildings to save energy, and the prize-incentive greatly helped with our publicity.

After compiling the meter data collected by Mark Rousseau of Housing and Residential Services, San Nicolas hall was deemed the winner with 23% savings over its average usage for this time of year. Green Campus intern, Clay Carlson, had a chance to speak with the building's hall council president, who seemed very pleased with the news. She mentioned that San Nicolas' hall council played an instrumental part in publicizing the event. This was made increasingly apparent at the culminating event, which was held in the building on May 29th. Over 100 students showed up to enjoy a pizza party hosted by Green Campus, and to enter the raffle to win one of six iPods. Joining the Green Campus staff at this event was Ron Cortez, the Associate Vice Chancellor of Sustainability. Cortez was able to meet the students and explain his role in coordinating environmentally-related efforts on our campus.

With the great involvement on the part of the students, Green Campus plans to host the event again next year, this time extending the duration for five to six months. We would like to thank all who participated and helped with the event, and wish everyone a relaxing and sustainable summer.



Above: One of the winners of the San Nicholas Raffle shows off his new iPod shuffle!

Below: Ron Cortez shares with students the importance of sustainability at UC Santa Barbara



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Green Campus Blog

The Green Campus Program at UCSB launched an online blog this month, available for viewing at www.gcpucsb.blogspot.com.

The first blog entry was posted on May 9th to publicize the Energy Competition in the dorms. To date, five blog entries have been posted. Other topics include energy saving tips, the importance of energy conservation, and the results of the energy contest.

Green Campus intends to further develop this blog during the summer and expand it next year.

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Green Campus Energy Research

The US Department of Energy stated that lighting accounts for over 40 percent of electricity consumption in buildings in the United States. This electricity consumption from lighting systems also contributes to a significant portion of building operational costs. Therefore, properly analyzing lighting systems through Green Campus building audits will allow the team to make lighting system retrofit recommendations that will save energy and money.

Throughout spring quarter, two interns have been conducting energy efficiency research as part of their Master's thesis project. They have been examining energy auditing procedures and specific retrofit recommendations for lighting systems in commercial buildings. Several factors will be analyzed in determining the most effective recommendations, including: implementation costs, energy savings, electricity cost reduction potential and technical performance. This research will be a useful tool for identifying potential energy saving improvements for campus buildings and for future Green Campus energy efficiency projects.

Specific lighting recommendations that will be studied in greater depth for commercial application are the "super" T-8 florescent lamp systems, one-lamp linear florescent fixture task lighting, high-intensity fluorescent bulbs, and ceramic metal halides. Each of these fixtures has been shown to provide significant energy and cost savings over conventional lighting systems such as T-12 and T-8 florescent lamp systems, as well as high-intensity discharge lamps and halogen PAR lamps.

Another factor that will be considered as part of the lighting system recommendations is the conversion of magnetic ballasts to standard electronic and premium electronic ballast for florescent fixtures. Electronic ballasts are much more energy efficient than magnetic ballasts and can account for a reduction in energy use by a minimum of 10%. Significant energy and cost savings can be achieved through implementing simple lighting control technology like occupancy sensors and automatic light timing controls.

Stay tuned as this project develops!



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