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Green Campus at UCI



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Bi-Level Lighting Project

The UCI Green Campus team is working with Energy Manager, Paul Wingco to bring bi-level fixtures to campus stairwells. Green Campus interns Peter Yu and Shyla Raghav worked with Green Campus volunteer Teresa Bhardwaj and Paul Wingco to conduct lighting surveys in the stairwells of 30 campus buildings this August. Paul will use the information we collected to calculate how much energy our current fixtures use, how many bi-level fixtures our campus will install, and how much energy these new fixtures will save.

Bi-level fixtures have an occupancy sensor and automatically dim when there is no one present. Bi-level fixtures are best suited to areas like stairwells, where law requires lights to be on 24/7. In a stairwell setting, bi-level lights reduce energy consumption by about 70%, compared to conventional fixtures. UCOP is currently organizing a system-wide group purchase of bi-level fixtures that will greatly reduce the unit cost of each fixture. With the UCOP negotiated and discounted price, bi-level lighting fixtures can achieve a payback of 3-5 years.

Helping UC Irvine to become one of the first campuses to incorporate bi-level fixtures on a large scale has been a great experience for us. We look forward to seeing the fixtures installed, thereby making our campus more energy efficient.

The bi-level fixture program is one many energy-saving projects that Green Campus is pursuing in collaboration with Facilities Management.



Above: Engineering tower, the tallest building on campus and a typical stairwell.
Left: Bi-level lighting fixtures

Our Newest Team Member

This month we are please to welcome a new member of the UC Irvine Green Campus team: Conan Thai, a second year majoring in studio arts, will be the new Green Campus Marketing Coordinator! An Orange County native, Conan has long been involved with the Green Campus Program, having won our t-shirt design competition last spring (see below). Conan also attended our spring quarter lecture series, where he won a gift bag full of organic goodies.

Conan will be in charge of design and product placement for the Green Campus Program at UC Irvine. He will create flyers and posters for our many upcoming programs and will handle layout for future newsletters. Conan is extremely gifted in graphic design and his "can-do" attitude will be a great addition to the Green Campus team!



Left: Conan Thai's winning Green Campus T-Shirt design

Right: Depiction of the CFL's we will distribute on Halloween



Looking Ahead: Halloween Event

In the coming year, we are looking forward to developing and expanding a number of projects we piloted over the 2005-2006 academic year: one such program is our Compact Fluorescent Lamp (CFL) exchange. On Halloween last year we held a CFL exchange in Mesa Court where we went door to door changing incandescent lamps for energy saving CFLs. This year, on Tuesday, October 31st, with more time and planning, we plan to expand the exchange into a campus wide event, with exchanges on campus during the day, and in the residence halls at night.

During the day, in conjunction with the Anteaters for Recycling Club, we will be hosting informational booth on the main campus from which we will distribute CFLs and energy and water conservation tips.

To attract attention to our booth, we plan hold an art competition, the winning entry will best promote the theme of energy conservation, efficient technologies, and sustainability. We also hope to book Southern California Edison's ENERGY STAR Bus to attract further attention from students.

In the evening, we will continue our Halloween tradition of dressing up as energy related characters and will exchange CFLs in and around campus residence halls. We plan to table in front of dining commons and will post advertisements telling students to bring us incandescent bulbs in exchange for CFLs. We will also enlist the help of Resident Advisors to exchanged bulbs for small incentives.

With the support of housing and campus administrators we anticipate a large turnout at this, the first of many planned campus-wide events.

Current and Future Green Campus Efforts and Goals

What to expect for Fall Quarter:

- Residence Hall complex-wide and Resident Advisor Competition in Mesa Court with a goal of 5-10% energy reduction
 - RA competition will include a points system that will ensure continued participation after the competition
 - Mock Energy Bill for the residence communities to visually connect energy use to a monetary value
- Extensive outreach to students during Welcome Week for the development of our Green Campus Club
- Research on Green Room products for tour dorm rooms
- Fall planning meeting with campus staff and administrators to present our goals
- Halloween informational event, "Take the Stairs Day," and CFL exchange to educate the UCI student community all day on October 31st
- Continuation of the Fumehood "Shut the Sash" Campaign with baseline data
- Green Campus club with events activities, and possible community outreach into Irvine schools

Metrics

- This summer we have had **13** meetings with administrators and a few more planned
- Our CFL exchange in Fall will result in **\$4567** of energy savings.
- We have performed audits in **30** buildings
- With the year just starting...there is certainly more to come!

Have any questions or comments? Feel free to contact us:
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**And much thanks to Teresa Bhardwaj
for her support!**



The Alliance to Save Energy's "Green Campus Program" is brought to you by the ratepayers of Southern California Edison.

