

NEWSLETTER

April 2007

UCSB's Green Campus

Meet our new Intern

Hello, my name is Son-Lam Hoang, but you can call me Sonny; as the newest addition to the University of California at Santa Barbara Green Campus internship, I am very excited to be towards a more energy efficient and low emissions Santa Barbara.

I have been working with Ryan Schauland, a former Green Campus Intern, and current Energy and Sustainability Coordinator here at UCSB. Together, Ryan and I have started conducting energy audits in North Hall, identifying energy-wasting equipment and behaviors and recording information on lighting and HVAC performance. Over the next 5 years, our goal is to finish the audits for every building on the UCSB campus.

In addition to identifying and eliminating energy waste in the targeted buildings, these audits are capturing information that will pave the way for future LEED EB projects. In addition, the information we gather through these audits will help UCSB to take advantage of the Public Interest Energy Research (PIER) Program's campus demo project, through which PIER would field-test emerging energy efficient technologies, such as the Integrated Office Lighting System, at UCSB.

I have also started to learn how to use the ENERGY STAR Portfolio Manager which is an online program energy benchmarking program.

In short, I am thrilled to have the opportunity to make an impact in my community and move UCSB toward a greener future



LARS Fume Hood Campaign

Green Campus is providing assistance on the Laboratory Assessment for Research Sustainability (LARS) program's Fume Hood project. Through this project we will contact all of the fume hood users in Bio II and propose turning off their fume hoods for a short amount of time. Just by turning off their fume hoods for a few weeks a year, we can save an enormous amount of money. Once the lab users want to reactivate their fume hood, it will take half a day for it to be functioning properly.

Campus fume hoods use energy all day long to provide proper ventilation in research laboratories.

(Story continued on page 2)

Green Campus Intern

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ALLIANCE TO
SAVE ENERGY
Creating an Energy Efficient World



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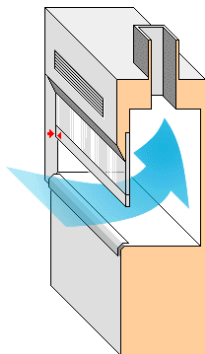
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(Fumes continued from pg 1)

Closing a fume hood sash reduces the amount of air that the hood brings into a building and thus the amount of energy it consumes, but even a hood with a closed sash is still active and requires energy. UCSB has some “smart hoods” that can sense when a fume hood sash is partially closed and adjust the ventilation accordingly, however even the lower ventilation rate is still fairly energy intensive. In tackling this project, LARS wants to identify fume hoods that can be completely shut off so that they are not using any energy.

As of Tuesday, April 3rd, LARS was given approval by the Department heads Alice Alldredge and Dennis Clegg to move forward with this project. We will send out a memo to all fume hood users in Bio II, along with flyers and personal calls to the lab managers. If the project goes well in Bio II, LARS has plans to try it in Bio III, and Marine Science, and the new Life Science Building.

Right: a fume hood diagram with arrow indicating airflow direction.



Green Scheme Schemes Toward LEED EB

The Green Scheme is a pilot project that seeks to make the Associated Students Multi Cultural Center (MCC) as sustainable as possible. It focuses mainly on energy efficiency, but also works in coalition with other groups on issues such as waste policy. The Green Scheme's goal is to pave the way for eventual ENERGY STAR certification and a LEED EB rating. As interest grows, the Green Scheme has set up a working group of motivated students within the Associated Students Environmental Affairs Board (EAB), the umbrella environmental organization at UCSB. Since our last newsletter, we have placed light meters and hobo meters in the different offices of the building to monitor light use behavior during and after business hours. We have placed the meters in five different offices in the building twice in order to gather more accurate data. We plan to do this with all the offices and then compare and publish the results.

Over the past few months we have also recorded the number of computers, the number and kind of light fixtures, the square foot of the building, and the gas and energy numbers over the past few years. *(Continued on next page)*

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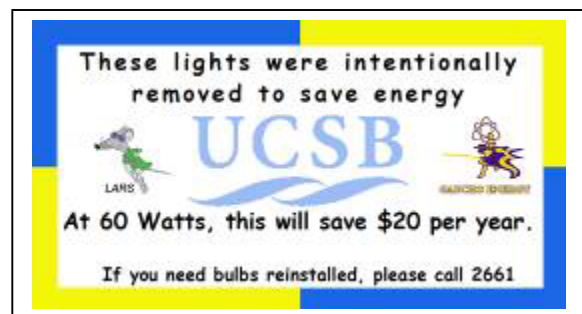
(Scheme, continued from page 2)

Our efforts to reduce and monitor energy use is part of our overall effort to work with facilities and gather the data necessary for base points for LEED EB. UCSB has set the goal to get twenty-five buildings certified as LEED EB in the next five years. The long-term plan is to have all buildings at UCSB LEED EB certified.

Bulb Free Saves Energy

In collaboration with LARS, Green Campus Intern Kimmy has been working on a "Bulb Free" campaign for buildings on campus. This project is trying to get Facility Management to take out various lights in buildings that are not in use or unnecessary, such as lights near windows or a few bulbs in the men's bathroom. By taking out these bulbs, UCSB could save up to \$20 a year, per bulb. This could be a significant savings if at least %10 of the bulbs were taken out.

Once these bulbs have been taken out, we hope to hang laminated cards (like the one seen to the left) to explain why they have been taken out. In addition, the cards are there for people who wish to put the lights back in. But before we can begin removing lights and hanging cards, we need to get approval from Facilities Management and the Fire Marshal. Once we have their permission, Bulb Free will begin saving energy on campus.



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