

# Green Pastures

CAL POLY POMONA



Green Campus Summit 2011  
*Energy Efficiency@CSULB*



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## What is the Green Campus Program?

The Alliance to Save Energy's Green Campus Program empowers college students to be tomorrow's energy efficiency leaders. Currently on 16 universities and colleges and employing over 75 interns each year, the program engages students in building pathways to green careers, realizing measurable energy savings, infusing energy and energy efficiency concepts into academic curricula, and promoting energy efficiency awareness. Green Campus interns work closely with faculty, staff, administrators, and other students to engage them in energy efficiency projects.

For more information please visit our website:

[www.greencampuscpp.org](http://www.greencampuscpp.org)

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## On the Cover

Green Campus Program interns from all over California, gathered for a three day Summit at Cal State Long Beach to learn more about energy efficiency. Here they gathered in front of the CSULB standout building, the Walter Pyramid! Interns know how to have fun while learning to save energy! Did you find the CPP interns in the photo?



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## DID YOU KNOW?

Did you know that your Green Campus Program interns attend two professional conferences each year, to learn additional methods to implement water and energy savings on campus? The first **Annual Green Campus Summit** (January) and the second is the **CA Higher Education Sustainability Conference** (July).



**ALLIANCE TO  
SAVE ENERGY**

*Creating an Energy-Efficient World*



The Alliance to Save Energy's Green Campus Program is funded by the ratepayers of California under the auspices of SCE, SDGE, PG&E, and Sempra Energy.

# Water Efficiency At Residence Halls

By Cynthia Joe

Green Campus interns are working on their first project with University Housing Facilities at the residence halls along University Drive! Green Campus intern Cynthia Joe is teaming up with Associate Director of Housing Facilities, George "Barney" Wright to replace of all the showerheads and to incorporate an educational water efficiency campaign at Aliso Hall. The current showerheads emit 2.5 gallons per minute whereas the new, proposed showerheads emit 1.5 gallons per minute (gpm). In the past weeks, student workers at University Housing Facilities have been testing the current showerheads and conducting "bucket tests." A "bucket test" is a method to measure actual gpm in which you record the number of seconds it takes to fill a one gallon bucket. Once you have that number, divide it by 60 and you have the gpm. The results of these bucket tests will determine whether or not an actual replacement is necessary. Regardless of the outcome of the showerhead replacement, Green Campus interns still aim to encourage all dorm residents to save water. Hourglass shower timers and educational materials will be placed in restrooms, demonstrating that **reducing your shower by one minute for an entire year may prevent the emission of up to 24,500 pounds of CO2!** Aliso Hall residents: keep an eye out in the next month for shower timers and you can contribute as an active individual by saving water and energy for Cal Poly Pomona!

## Be a Green Campus Volunteer!

*Are you interested in sustainability? Do you want to help Cal Poly Pomona save energy? If so, the Green Campus Program would love your help and participation! If you would like to get involved on campus, contact us at: [greencampus.cpp@gmail.com](mailto:greencampus.cpp@gmail.com)*

For More Green Campus Information:  
[www.GreenCampusCPP.org](http://www.GreenCampusCPP.org)

## Upcoming Projects to look for in the Spring of 2011:

- Dining efficiency at Collin's College through training from Southern California Edison's Customer Technology Application Center (CTAC), and Kitchen Appliance audits
- Xeriscaping in front of Building 81- removal of grass and planting of drought tolerant and native species with the design help of Senior Landscape Architect Student volunteers who plan to specialize in sustainable designs through their training with ENV's own Regenerative Studies program
- Field trips reinforcing green jobs training
- Supplemental course catalog, across the college, featuring sustainability and environmentally focused classes
- Earth Hour March 26, 2011- you can help by signing up to power down at [www.greencampuscpp.org](http://www.greencampuscpp.org) and unplug for one hour from 8:30pm to 9:30pm
- Sustainability Pledge is coming to C.L.A.S.S., so be on the lookout for a table event near you!

# Green Campus Summit 2011 @ CSULB!

By Andrew Coyne & Crystal Huang



This past month, Green Campus teams across California attended the 2011 Energy Efficiency Summit at Cal State Long Beach. The annual three-day event had a packed schedule featuring a series of guest speakers, career panels and breakout sessions. Some of the more notable speakers included Long Beach mayor Bob Foster, Cal State Long Beach President F. King Alexander, Institute for Energy Efficiency Executive Director Dave Auston, and Alliance to Save Energy's own president, Kateri Callahan. The keynote address was delivered by Dave Auston was entitled, "Energy Efficiency: Challenges and Opportunities."

In his presentation, Mr. Auston discussed the impending energy crisis by looking at it from the perspectives of economy, environment, security, and public health. He began by showing the evolution of energy consumption through history, from primitive times to the present day. An interesting fact to note is how, since the industrial revolution, human dependence on oil, natural gas, and coal has multiplied at an alarming rate that will prove to be detrimental to the long-term health of society and the environment. Just as alarming is the great disparity in consumption and access to energy. Mr. Auston showed the attendees a graph that revealed the proportion of our country's per capita emissions to population size as it compares to other countries around the globe. It was startling to see how much larger nations like India and China do not come even close to us the United States in per capita emissions. A related figure, along the lines of disparity, illustrates the fact that so many countries still do not have access to reliable sources of energy. For example, in India, as much as 80% of the population is still dependent on biomass for fuel- a source of energy so dangerous to health that the number of deaths it has caused rivals that of HIV-AIDS.

Having taken the audience through some of the global implications of the energy crisis, Mr. Auston brought the focus inside the United States. He looked at the geographic distribution of renewable and non-renewable power plants, and discussed at length the status of renewable energy policy in the U.S. Although public opinion is supportive of more renewable energy research, energy has taken a back seat to other more "pressing" issues. When looking at a graphic representing the entire federal budget, energy takes up a very small part of the overall budget. Considering the seriousness of the energy crisis, business-as-usual is not going to be enough to ensure that America can transition to clean and efficient alternatives. It was here that Mr. Auston ended his speech by encouraging all in attendance to become better advocates for energy efficiency.





*Previous Page: Photo features Green Campus Program interns with Cal Poly Pomona stakeholders; From left to right/back row: Betty Kennedy, Andrew Coyne, Crystal Huang, Krisha Hernandez-Pruhs, Cynthia Joe, George Lwin, Rani Khushalani. From left to right/front row: Meaghan Smith and Wen Lee. This page: the CPP interns pose for a team photo at the Summit.*

Besides the speeches, the Summit had a wide array of breakout sessions that were aimed to train Green Campus interns in matters of energy efficiency. Here are a few that we had the privilege of attending:

### **Auditing 101**

Green Campus staff member Morgan King led attendees in this hands-on tutorial in assessing energy consumption in buildings and how to develop recommendations in reducing energy use. Interns were also offered information in energy fundamentals including its monetary value and equations to calculate its impact.

### **Next Steps for a Large Retrofit Project**

This training session outlined the basics in setting up a large retrofit project. It covered steps to identify a good project, how to analyze and gather the data, calculate the savings, and put together a report to propose energy efficient alternatives to stakeholders.

### **The Magic of Excel**

The Magic of Excel session provided a brief summary of the possibilities of this application using formulas and its many other features. It also went into detail about how to best format Excel worksheets and to maximize its usability. This spreadsheet basics training session was useful to many Green Campus interns that were not yet familiar with our famed metrics tracking sheet which documents all savings, potential and actual, for all Green Campus projects.

## **Green Campus By the Numbers - February 2011**

Quantity	Event
15	The number of people interns networked with at the Stories of Successful Learning poster session
53	The number of students who heard a Green Campus guest lecture
12,543	The number of kWh potentially saved annually in Los Olivos Dining Commons as a result of the Green Commons project
305	The number of people who viewed the CPP Green Campus website

# Green Campus Interns Infuse CPP's Academics!

By Crystal Huang & Cynthia Joe

On February 16th, interns Krisha Hernandez-Pruhs and Crystal Huang held a presentation in Professor Sharon Rachele's Environment, Technology, and Culture class in the Anthropology Department, discussing what Green Campus is all about. The PowerPoint featured a brief description of past and present projects including the parking structure audit, the Green Space certification program, and Earth Hour. Future projects were also mentioned for opportunities to volunteer with the Green Campus Program. During the presentation, the Sustainability Pledge was distributed as an example of a Green Campus project as well as for the students to get involved and sign up. The presentation was a success in reaching out and informing students of the many ways Green Campus saves energy and water at Cal Poly Pomona.

On February 24th, interns Cynthia Joe and Andrew Coyne gave another Green Campus presentation in Professor Richard Willson's Climate Change Planning class. The topic was the Sustainability Pledge and its relationship to climate change. During the presentation, students took the pledge and were given the opportunity to commit to energy saving behaviors. In the PowerPoint, GCP interns mentioned one example from each of the five categories of the pledge (food, water, waste, energy, and transportation) and demonstrated how to calculate the potential carbon emissions resulting from each action. Each example consisted of the proposed action, the assumptions used to calculate emissions, and a sample calculation. For instance, did you know that if one person uses a drying rack for half their laundry for one year, he or she may prevent up to 26,500 pounds of greenhouse gas emissions?! Neither did the audience! Do your part and help reduce your carbon footprint by taking the pledge at: [www.greencampuscpp.org/sustainabilitypledge.htm](http://www.greencampuscpp.org/sustainabilitypledge.htm)

## Poster Presentation at CPP's Stories of Successful Learning

By Krisha Hernandez-Pruhs

On February 10, 2011, Green Campus interns participated in a poster presentation session on campus, Stories of Successful Learning. The interns were in company with other students, staff, and faculty who presented the outcomes of their research, activities, and various types of student learning activities conducted at Cal Poly Pomona. Green Campus interns presented their ongoing project of the Sustainability Pledge and described the results of the ENV1000 Challenge held during the Fall 2010 quarter. The poster presentation was a terrific opportunity to present an example of the type of projects that are student driven in the Green Campus Program, and demonstrated the project's excellent results. Additionally, the poster session allowed for professional development of the interns who presented their project to the attendees, who included college president Dr. Michael Ortiz among other administrators, faculty, and peers.





# Sign UP to Power DOWN!

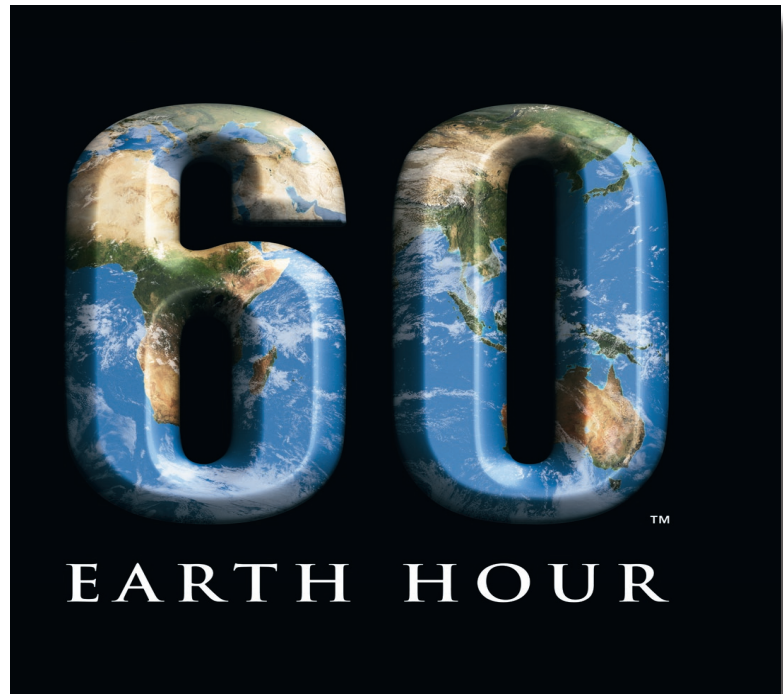
## Earth Hour 2011

By Krisha J. Hernandez-Pruhs

Green Campus has decided to once again assist Cal Poly Pomona in joining the ranks of being a registered Earth Hour participant. Earth Hour is a grassroots movement that has grown into an international phenomenon. One time a year, people all over the world power down, switch off, and unplug all electrical devices and equipment for one hour. This year, Earth Hour is taking place on March 26, 2011, from 8:30pm to 9:30pm. The last time Cal Poly Pomona participated in the Earth Hour event was in 2007 when Green Campus partnered with campus stakeholders to power down the CLA building. It was remarkable to see the difference in energy use when all the lights were off for our campus' signature structure.

This year, however, Green Campus is taking a different approach to Earth Hour. Earth Hour 2011 at Cal Poly Pomona is being promoted as a personal choice for students to show their commitment to Power Down Cal Poly! To show their commitment to this one hour power down event, students are being asked to sign up in one of two ways prior to March 26th. 1) If students live on campus, or in University Village, they can sign up with either their Community Advisor or Resident Advisor. In the Village, there will be sign-up sheets available directly with the Community Advisors; in the Halls, students will find one large poster on the first floor where they can stake their claim as Earth Hour participants. 2) Green Campus recognizes that a majority of the Cal Poly student population commute to and from campus, therefore, a second way for students to sign up is online. A digital form has been created for all of our campus commuters -- including faculty and staff! The form is on our Green Campus home page at [www.greencampuscpp.org](http://www.greencampuscpp.org).

We are proud to have Cal Poly Pomona as a registered participant of Earth Hour 2011. It is so amazing to see the before and after satellite photos of the globe once the event has taken place. To be able to visualize energy savings can be mind blowing, especially on that scale. The Earth Hour organization has a website with videos and photos that may catch your attention (see [www.earthhour.org](http://www.earthhour.org)) and move you to do Earth Hour in a whole new way. For example, some people hold Earth Hour parties, where they turn out all electrical equipment and go outside with candles for the one hour event and then resume their party! Others arrange with their favorite local eatery to have an Earth Hour eat-in, and meet their friends there and power down for one hour along with the restaurant owners. Finding new and innovative ways to participate in events like this can be so inspirational. It reminds us that our behavioral changes are not as hard as they seem, that turning out the lights saves a lot of energy, that darkness looks beautiful on the globe, that we connect with each other when we do not have electrical distractions such as televisions and computers taking up our time, and it teaches us that when we band together, we can accomplish so much! So, be sure to look for the flyers around campus, and remember to **sign up to power down for Earth Hour 2011 at [www.greencampuscpp.org](http://www.greencampuscpp.org)!**



## Contact Us!

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