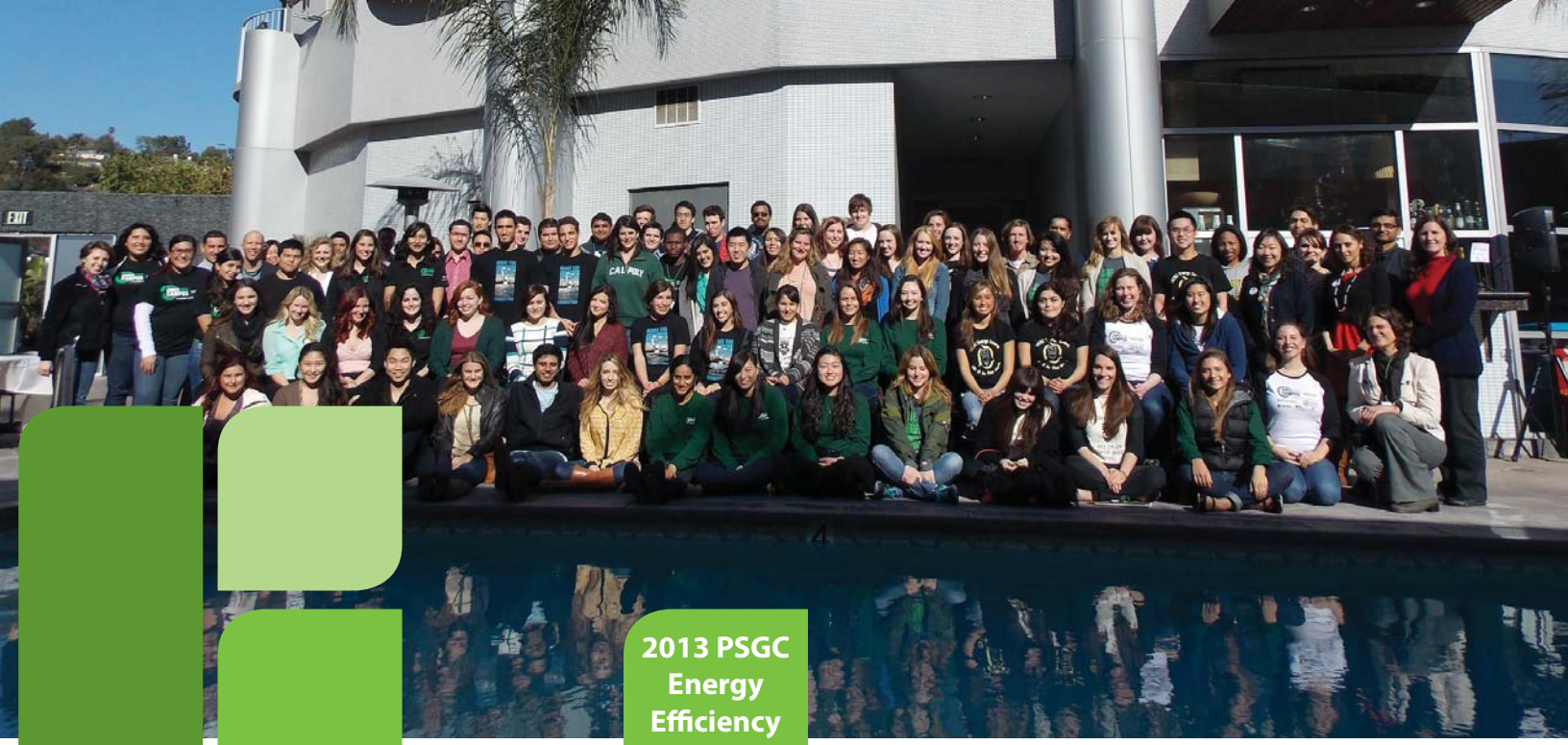

THE GREEN INSIDER

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AN ALLIANCE TO SAVE ENERGY PROGRAM

ALLIANCE TO SAVE ENERGY · SOUTHERN CALIFORNIA EDISON · Pacific Gas and Electric Company · SDGE

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POWERSAVE CAMPUS SUMMIT 2013 BLURBS

Every year all PowerSave Campus interns meet for the annual PowerSave Green Campus Energy Efficiency Summit! This year the summit took place in sunny UC Los Angeles on February 9-11th. The theme for this 9th year was *Action! Energy Efficiency.* The summit is a great time for interns and stakeholders to collborate and share ideas and methods for conserving energy. For many interns on the team, this was their first time attending! The interns were able to attend training sessions on project planning, best practices presentations, and seminars for new technology in energy saving. Interns were also able to network with professionals in the energy field. The long weekend proved to be a success because everyone left with a new project ideas to conserve energy at Cal Poly Pomona!

2013 Student Steering Committee

By Lynae Salgado

This was my first year attending the Energy Efficiency Summit for PSC along with Julia, Brandon, Sony and Grace. Around late fall I was asked to join the Student Steering Committee for the summit, this was the first year upper level PSC Program Associates asked students to get involved in some of the planning for this annual event. The committee was centered around planning for the Saturday Night Event and three student-led sessions during the summit. I joined both subcommittees! I worked with three other interns to plan the Saturday Night Event where our goal was to help interns from different campuses get to know each other in a fun and interactive way. We decided to hold a tabling face-off, people bingo and a trivia game show. The night proved to be a success as many interns participated in all of the activities! It was also a rewarding experience for myself because I was able to work with other interns I never knew before and we were able to see our main goal accomplished. In the other subcommittee I was able to plan and run a session for CCN Basics. I worked with other interns on the committee who held sessions on Audits 101 and Graphic Design. Although I had no personal experience with CCN (Campus Conservation Nationals), I asked interns from other campuses with experience to join and present in the session. Martin Figueroa from UC Merced presented on his best practices from winning CCN last year. The session was primarily an open discussion where interns were able to share strategies and questions on CCN and also how to hold a successful energy/water conservation competition on campus. This event was especially rewarding because it was a chance for me to experience planning and running a professional presentation and session during a major event with PSC. I hope to join the Student Steering Committee in the upcoming years and hold more successful sessions.

Top Left: Kong Sham from FishNick, a Research Engineer from Food Service Technology Center and former PSGC intern, ran the Energy Assessment 102- Kitchen and Dining class. Interns learned the basics in kitchen and dining audits.
Middle: Interns accepting their award for best table!
Bottom Left: UCLA interns showing off their cool table!

Winners of the Tabling Extravaganza

By Grace Jaen

At this year's Energy Efficiency Summit at UCLA, a tabling face-off was held for PowerSave Green Campus schools to compete against each other for who could execute the best tabling event. All PSGC schools did a great job teaching their fellow interns about what they do on their campus to raise awareness about energy efficiency, but it was the Cal Poly Pomona PSGC team, with the help of our mechanical bike blender that took home the win. After seeing how the bike functioned and the amount of people it attracted, many PSGC teams began looking into how they could buy one of their own!

CPP Poster Session

By Sony Bui

Every year at summit, PSC interns from different campuses all over California are asked to display their team's best project over the past year; these projects are put on a showcase known as the Poster Session. During this session, interns are to present their reputable projects to other interns and stakeholders from other campuses and share their best practices. In addition to presenting these projects, interns are also competing against each other to see which project is considered to be the most notable. This year, CPP PSC interns decided to showcase the Sustainability Course Guide as a project that deserves the spotlight. The course guide provides student's a list of courses offered at Cal Poly Pomona that are centered around environmental sustainability. The Sustainability Course Guide felt like a project that could have a major impact in the student community in the long run. Although the project did not end up winning the session, the Sustainability Course Guide still brought attention to other interns and stakeholders who are hoping to put together a similar project on their campus.

Top: Grace adding some delicious fruit in to the bike blender, while an intern waits to try out the bike!
Middle: Sony and Grace presenting at the Poster Session.

Green Career Panel

By Grace Jaen

After months of planning, the time had finally arrived to host the Green Career Panel. Intended to educate students at Cal Poly Pomona about the importance of sustainability and green efforts in the workforce, representatives from a wide range of career fields attended to share with students their company's efforts in staying environmentally conscious. The panelists included Charles E. Pickering from Southern California Edison, Janet Purchase from the Economic Development Agency in Riverside County, Tony Penna of the Apple Valley Ranchos Water Company, and dedicated PSC stakeholder, George Lwin of CPP Facilities.

All of the panelists showed much enthusiasm when talking about their jobs and how important it is to be thinking about ways to conserve energy. Ms. Purchase explained to students how, "energy is one of the most controllable expenses a company has." When she is doing her part to conserve energy where possible, she feels she is helping save someone else's job. Not only did the panelists give students intriguing insight into the world of sustainability, renewable energy and the opportunities available for students as the "older" workers retire, they also gave great advice for recent graduates. Deputy Manager Tony Penna begged students to "find something that [they] are passionate about and turn that into a living." And what better passion than working towards fixing the the biggest challenge facing our generation?

Bottom Left: Panelist George Lwin, CPP Manager of Energy Services Top Left: Panelists Tony Penna of the Apple Valley Ranchos Water Company, Charles E. Pickering from Southern California Edison and Janet Purchase from the Economic Development Agency in Riverside County.

POWERSAVE CAMPUS BY THE NUMBERS - MARCH 2013

	QUANTITY	WATER	CO2 EMISSIONS	$$$	ENERGY
ENERGY SAVINGS					
Potential - Sustainability Pledge	94	232,500gal	49,000lbs	$4,500	27,000kWh
OUTREACH					
Green Career Panel	60				
People by Tabling Events	101				
Spring 2013 Sustainability Course Guide Views	291				
WORKFORCE					
Events - Green Career Panel	1				

*NOTES: *Comprises potential, projected savings for this month because these savings were acquired over this past month*

JULIA'S CORNER
BE VIRTUOUS FOR ST. PATRICK'S DAY'S SAKE

In spirit of St. Patrick's Day, this installment of Julia's Corner will be focused on a four leaf clover. I bet you all are wondering how on Earth a four leaf clover can be tied into sustainability; well, I'm going to show you how! A four leaf clover, an iconic symbol of St. Patrick's Day, is extremely rare and is associated with something everyone wishes to have a bit more of—luck. However, most don't know that behind the "lucky leaf" lies a deeper meaning. In fact, each of the four leaves represent a different virtue: faith, hope, love, and luck.

Faith: *A synonym for faith is the word "devotion". Devote yourself to sustainability. By simply making a promise to turn off the lights when you are the last to leave or taking shorter showers, you can make that little difference in bettering the world.*

Hope: *This is the virtue I struggle with the most in regards to sustainability. Sometimes it's difficult to encourage others to be more sustainable, especially when they are so disinterested and just want to play Xbox with all the lights left on. Set an example for others without pushing them over the edge, express to them about why you believe sustainability is important and what change you hope for the world.*

Love: *If you love something, do it! That said, if you love sustainability get involved! Don't be afraid to look into a club, internship, or job that will allow you do something meaningful.*

Luck: *Ah, the last virtue. Whether you believe in luck or not, I believe that if you work hard for something that is good (like saving energy) there will be no need to rely on luck. Perhaps you can say that luck will be in your favor because you can only benefit (money, lack of emissions, etc.) from not using more than you need.*

I hope you all enjoyed these four sustainability virtues. I'm going to leave you with one final thought: some clover collectors (yes, they do exist) have noted to find five leaf clovers, or rose clovers, on occasion of which they regard to be the highest value and rarest of all. So ask yourself, **what would be your fifth virtue?**

CCN Starts

By Brandon Sauer

February 13th marked the start of Campus Conservation Nationals here at CPP. Since then, residents in the halls and the suites have been competing against over 200 universities across the US to save as much water and energy as possible in a three week span. Though the competition spans across the country (and even into Canada and a few community colleges), sub-competitions are also in place between eleven schools in the PowerSave Green Campus Program, and right here between each individual building.

The spirit of competition has been driving residents to produce awesome actual savings, but we have also been holding weekly events to encourage even more savings by giving out free stuff! Along with these events, we kicked off the event with the help of Inter-Hall Council's "I <3 Earth" event on the 13th, where we were able to reach out to over 100 residents to inform them about the competition. And finally, to reinforce our face-to-face interaction with the residents, we have enlisted several forms of indirect communication. First, University Housing Services designed and distributed some amazing fliers throughout the halls and suites that visualize way residents can save energy and water. UHS also helped us to recruit "Building Captains" from each building who help us get the word out and help us out with the workings of the competition. Lastly, we created a Facebook page for the competition, which we have advertised on all of the buildings' Facebook Pages and other CPP pages. With these strategies, we hope to see excellent results and will provide a report of the winners in next month's newsletter!

Platinum Certification

By Sony Bui

This Winter Quarter, for the very first time, the PSGC interns would like to announce its first Platinum Certification evaluation! Marcia Starcher, a Green Delegate who has participated in the Green Space Certification and was awarded the Green Rating is now aiming for the Platinum Certification. Over the past weeks, Marcia has been meeting with PSGC interns to go through different auditing sessions, including lighting and plug load auditing. What exactly is the Platinum Certification you might ask? The Platinum Certification is a simple audit assessment, where PSGC interns conduct a check-up of the office collecting data on energy usage from ceiling lights to office appliances. At the end of the auditing session, PSGC interns will provide the Green Delegate with suggestions on how to improve their energy efficiency in the office.

Above: In the audit, interns use a light meter to measure the amount of light in the workspace.

Has your department or office previously taken part in the Green Space Certification and have received the Green Rating? If so, you can sign up for the Platinum Certification to learn more about the energy usage of your office! Simply contact your PSGC intern that helped you during the process.

Interested about the Green Space Program? You can learn more about it at our website at ***http://www.powersavecampuscpp.org/greenspace.htm*** or send us an email at ***greencampus.cpp@gmail.com*** if you have any questions.

green|SPACE
Sustainability Assessment + Certification

Installation of the Environmental Information Center

By Julia Hernandez

A new addition of sustainability has been delivered to the doorstep of Cal Poly Pomona's library. The PowerSave Campus team and the LA County Office of Sustainability would love to present the installation of an Environmental Information Center located at the top of the escalator in the Cal Poly Pomona library. The kiosk center features tips, videos, and information about LA County's environmental sustainability programs readily available for students to receive. The information center will be stationed for four to six months, so be sure to check it out!

For more information visit: ***www.Green.LACounty.Gov***

A POWERSAVE RECYCLED ARTICLE

This month's recycled article comes from sister campus UC Irvine and discusses the pros and cons of gasoline versus hydrogen vehicles. The article was written by PowerSave intern Christine Hsieh and was released in UCI's February newsletter which can be found at ***http://issuu.com/powersavecampus/docs/uci_february_2013***. Enjoy!

Gas vs. Hydrogen Vehicles – Yes, hydrogen works! Gasoline and hydrogen-powered vehicles—how do these types of vehicles compare with each other in terms of affordability, sustainability, and technology? The unique and shared traits among these key players in the major transportation tools of our past, present, and future will also have significant implications in how they rank in the three categories mentioned above. Gasoline has been accepted widely as a vehicle fuel for many years, but as the world becomes increasingly aware of the negative impacts of using gasoline as a source of fuel, including political, environmental, and economical, research and development has shifted sharper focus onto developing better hydrogen vehicles. A hydrogen fuel cell car is a kind of electric car that runs on a motor powered by electricity. The source of this electricity is what distinguishes it from a battery-electric vehicle.

Instead of a battery, a hydrogen fuel cell car has a hydrogen fuel cell—how intuitive, right? This fuel cell takes the most abundant element in the universe, hydrogen, and generates electricity

from it while the car is running. There have been many studies done contrasting the characteristics of

gasoline and hydrogen to help to relate the familiar experience of using gasoline to the unfamiliar experience of using hydrogen to power personal motor vehicles. It has been proven that the energy

density in hydrogen fuel-cell vehicles is about 120 MJ/kg, versus an approximate 44.4 in traditional gaspowered vehicles. Some other factors affective the relative safety of hydrogen and gasoline include odor, emissions, and toxicity. Hydrogen is odorless, emits water vapor as a by-product of combustion, and is a simple asphyxiant, but otherwise non-toxic substance.

On the other hand, we are all familiar with the suffocating fumes emitted by gasoline when we fill-up at the station. Combustion of gasoline also produces carbon dioxide, carbon monoxide, and nitrogen oxides, and gas includes some carcinogenic additives. Safety is also a critical consideration when contrasting the usability of gas and hydrogen vehicles. Since gasoline is a liquid, air must enter the tank and so the flammability limits can be reached within the tank itself. However, with hydrogen being a gas, air cannot enter the tank and an explosive or flammable mixture can never develop in the hydrogen tank. We know that hydrogen-powered vehicles are more energy-efficient and just as safe (if not more safe) than their traditional gas-powered counterparts. Even though hydrogen cars don't produce pollution at the tailpipe as gas cars do, they still leave their carbon footprints at the production of the actual fuel cell. So, while it isn't perfect, it's still much cleaner than the gas-powered cars that 76% of Americans are driving.

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