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August 2013 Newsletter

Issue #82

Welcome to the August 2013 Powersave Campus Newsletter!

New semester, new look! The team is pleased to present an updated newsletter layout that we hope will intrigue our readers.

Summer is coming to an end but we are so excited about the upcoming semester, we have new projects and ideas that we are eager to implement.

This upcoming semester we welcome a newly added member to our team that has previous PSC experience and John Lococo's takes on his new role as Team Manager.

With so many changes, we hope the new team will continue bringing excitement about energy saving on campus for Fall semester.

Enjoy!

Anais Rodriguez
Newsletter Editor



ABOVE: Powersave Campus team at UC Santa Barbara

A message from our new Team Manager...

By: Johnny Lococo

In May former Team Manager, Adrienne Spitzer, walked the graduation stage and concluded her days as a Lumberjack (wahoo for Adrienne!), which means I have some big shoes to fill because I am stepping in as the new Team Manager. I only have half a year under my belt as a PSC team member, but I have learned from the best and have a solid support team by my side. Thanks team! It is exciting to grab hold of the reins and learn the ropes of my new leadership role.

I view my new position primarily as an opportunity to improve my leadership skills. Every PSC intern takes on a leadership role, especially the Team Manager. This year, there are five Project Coordinators on the team, including myself, and we plan to bring on a few for-credit interns at the beginning of the semester. This means I will be managing about a 7- or 8-member team. Admittedly, we are all friends and equals in the PSC team, so I am not worried about having to crack the whip on my teammates. Nonetheless, managing students can be a daunting task.

Here is to a new school year! Cheers!



ABOVE: Johnny at Powell's Books

Lets welcome our new Project Coordinator!

By: Delia Bense-Kang

Hello fellow Lumberjacks!



ABOVE: Delia at the beach

My name is Delia, and I am so excited to be joining the Humboldt State Powersave Campus team! I have been attending UC Santa Cruz and have been a part of their PSC team for the past 2 years. I decided to transfer to HSU because of the Environmental Management and Protection program offered here. I am also a born and raised Humboldt native and I missed this special place and all the opportunities it has to offer.

Being brought up in Humboldt, I quickly gained an appreciation for the environment. I was raised by the beach and redwood forest, surfing, hiking, doing basically anything outdoors. This upbringing fueled my desire to help the environment and my decision to attend UCSC. While at UCSC, I worked on several projects with the PSC team including *Drop Your Own Drip* water competition, and the *Green Labs Program*. I believe my experiences in Santa Cruz along with the connections I have to members of the community will make me a helpful addition to the PSC team at HSU.

I look forward to getting to know everyone at HSU and look forward to all the projects we have planned for the year!

My first experience attending CHESC

By: Rachael Londer

My bag was packed with a pencil skirt, a collared shirt, a notebook stuffed with business cards and my rollerskates. I was in Santa Barbara for the first time waiting for my first California Higher Education Sustainability Conference (CHESC) experience to begin. This annual conference aims to create dialogue between peers and foster connection between businesses, educators, and students. It achieves this through workshops, field trips, presentations, educational activities and opportunities to network. I was eager to attend every presentation and participate in every activity that I could squeeze into the span of 4 days.

I had no expectations, rather I skated into the first keynote speaker's presentation with openness and readiness to absorb knowledge to bring back to our campus. The keynote speaker Eban Goodstein, a prominent educator and author, emphasized the necessity of conferences, such as CHESC, as a means to share ideas and collaborate on how we can achieve global sustainability to create longevity for the Earth as we know it. His discussion gave context to the conference and implanted an important question into my head. What can we, as students, do now to ensure that not only our futures, but the futures of our children will not be jeopardized due to our current exploitation of natural resources?

The following workshops were able to answer this question, by addressing the best practices in the energy and water conservation fields and how they can be implemented in universities across the state. For example, in a session entitled "Reducing Environmental Impact of Campus Buildings and Services," different feasible energy saving recommendations were presented by faculty and students from a variety of universities. Many of the recommendations could be easily integrated with the projects we already have.

These would include using the Energy Utilization Index to determine how much energy is used per square foot. This would help create quantifiable benchmarks to determining how much electricity should be used at any given building on campus. With meaningful measurements, this index could enact concrete measures to achieve savings that would put us under the energy consumption threshold, by upgrading lighting and decreasing night and weekend loads. Utilizing this tool would make implementing energy efficiency projects more effective and it could easily be adopted by our PSC team.

Besides the plethora of new energy and water saving ideas that I gleaned from the workshops, I learned more about the wonderful and robust community that is committed to global sustainability. To me, talking to the various businesses and booths was the most valuable and interesting part of the conference, because each interaction was a confirmation that there are innovative solutions and creativity in the resource conservation field. That alone is a confirmation of the value of CHESC, as it gathers those that are equipped to make changes, those that have solutions, and those that are eager to learn and do work in one space. The state of our environment is dependent on us gathering in venues to share what we know and our combined work of greening our spaces.

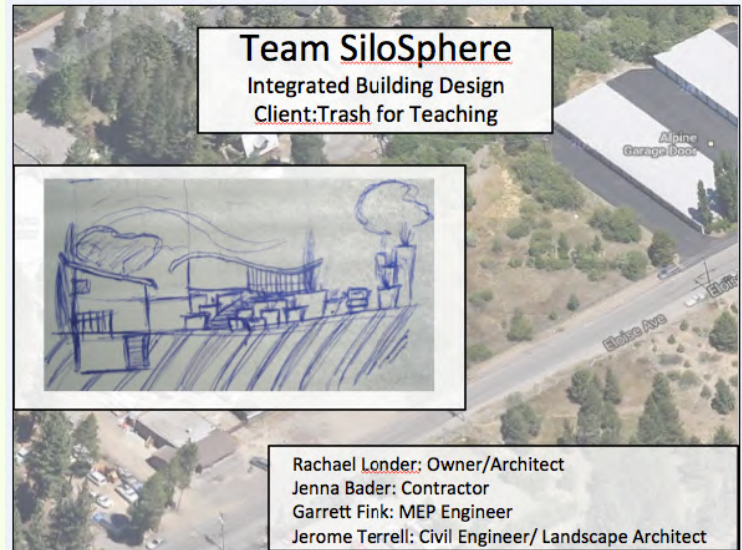
DID YOU KNOW?

The California Higher Education Sustainability Conference welcomed over 1,000 attendees and about 70% of them were representing a campus in California!

DesignShift 2013

By: Jenna Bader

Challenge: Design a zero net energy building in South Lake Tahoe, CA for the client *Trash for Teaching* using integrated design. This 2 day competition following the California Higher Education Sustainability Conference at UC Santa Barbara was packed full of information. It taught us how to maximize our roles within our group, choose the best zero net energy design for the location, and how to use incredible computer software to present our ideas to the judges. The 30 participants were separated into 5 teams of 6 participants based on our interests, majors, left or right brain thinkers, and were each given a role for our building design: contractor, mechanical electrical plumbing (MEP) engineer, landscape architect, contractor, owner, and architect. We were given case studies of zero net energy buildings which successfully achieved integrated design, such as this one



<http://www.slideshare.net/tomhootman/zero-energy-building-for-nrel>

The most useful tools I took from the design charrette were the computer tools like Climate Consultant, IMBY, MapSearch, and EcoCalculator. This free software will let you input a building location, and see year-round data, down to the hour, of winter and summer sun angles, wind speed and direction, temperatures, and hours of comfort experienced in a bare structure (no heating or cooling, no window shades, no thermal mass, etc.). We also worked with an online tool called SPOT, which allowed us to estimate the amount of lighting needed in our building according to natural sunlight and window orientations in order to determine the size of the photovoltaic array, wind turbines, biomass, etc. that will power our designed buildings. If you ever have an opportunity to participate in the DesignShift charrette, I encourage you to throw yourself into the challenge, it's an experience I will never forget!

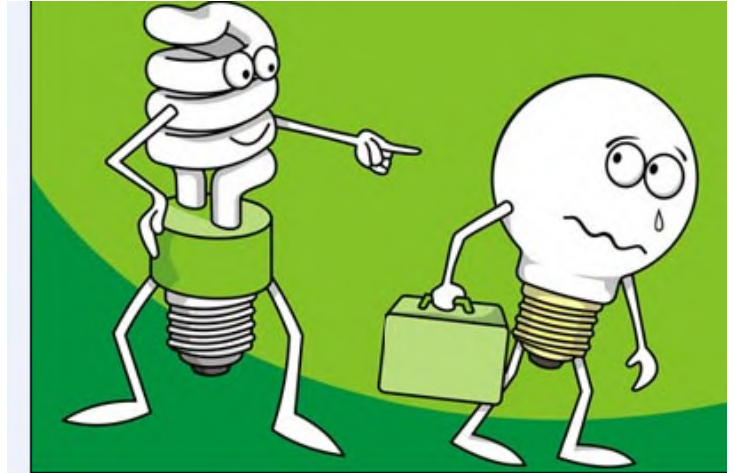
If you would like to see our teams building design slideshow
feel free to email me at jbader@humboldt.edu
Subject line: DesignShift Powerpoint

For more information on free computer software tools
contact us at powersavehsu@gmail.com
Subject line: DesignShift Tools

Energy saving information **EVERYONE** should know!

By: Anais Rodriguez



As of January 1st of this year, all 75 watt incandescent bulbs are no longer produced in the U.S. This effort follows the previous production standard in the U.S that 100w incandescent bulbs should use no more than 72 watts which encourage the phasing out of inefficient lighting sources. This was made possible by the Energy Independence and Security Act of 2007. This encourages industry to manufacture more energy efficient technologies and seek alternatives.



This is great news for consumers! Energy efficient technologies means you save more money. According to the Department of Energy, a 100 watt incandescent bulb costs \$4.80 a year to run, compared to the renovated 100 watt incandescent bulb which would cost a consumer \$3.50 a year to run. In comparison to a CFL though it would cost a consumer \$1.20 a year to run and a whole \$1 a year to run a LED!

There are new energy-efficiency standards for lighting.

Which incandescent bulbs will no longer be made?

	Current Wattage	Date (not made after)
	100w	January 1, 2012
	75w	January 1, 2013
	60w & 40w	January 1, 2014

The law requires increased efficiency. It does not ban incandescents or mandate CFLs.

For more information check out the Alliance to Save Energy's Energy Efficiency Policy Fact Sheet

http://www.ase.org/sites/default/files/lighting_standards_fact_sheet_2013.pdf

Quick Summer Tip

“Always use a ceiling or floor fan when possible and if you absolutely must use an Air Conditioner set it to 78 °F or higher. Also, remember to clean and replace AC filters monthly for a more energy efficient operation.”

PSC team at CHESC in UC Santa Barbara



ABOVE: (from left to right) Delia Bense-Kang, Jenna Bader, Adrienne Spitzer, Rachael Londer, Anais Rodriguez and Lauryn Gutowski

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Photo of the month:



Jenna Bader shows off her cool glasses

AUGUST METRICS

82

blog visitors

1,228

website hits



“The Alliance to Save Energy’s PowerSave Campus Program is funded by the ratepayers of California under the auspices of SCE, PG&E, and Southern California Gas Company”