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CHESC '15

SAN FRANCISCO, CA



JOMEL BAUTISTA

From July 20th to July 24th, the Cal Poly Pomona PowerSave Campus team attended the 2015 California Higher Education Sustainability Conference (CHESC) hosted by San Francisco State University. At this conference, cutting-edge research, case studies with proven success in curriculum development, operational programs, and community partnerships were among the items presented.

Of the various case study findings that were offered, one of the most insightful presentations was on the University of California, Berkeley Campbell Hall Seismic Replacement Project. This project received recognition as a recipient of “Best Practices in Overall Design” along with a project design from California State University, Long Beach.

One of the highlights of this project was its use of louvers. Louvers are a set of angled slats or flat strips within intervals and usually used for lighting or ventilation control. While allowing air to pass through based on the angle of the fixture, unwanted elements such as water, dirt, or other debris is kept out. Louvers also have the potential to catch light and bounce it deep into buildings, about 10 feet further into the building than it would naturally. The Berkeley Campbell Hall utilizes the louvers on its exterior staircases to make better use of natural lighting and ventilation both day and night.

Overall, the 89,000 square foot facility is designed to achieve LEED Gold certification. Its upper levels are home to low-intensity laboratories, academic offices, instructional spaces, and a rooftop telescope. Along with its innovative post-tension concrete walls, the focus of natural lighting and ventilation, will play a huge role in future sustainable architectural and engineering design.



VAN JONES

JERMAINE BAYLARK

The second day of CHESC kicked off with a riveting speech entitled, “Rebuild the Dream” headlined by environmental advocate, civil rights activist, and Yale educated attorney, Van Jones.

Van Jones is the founder of Green For All, a national organization working to bring green jobs to disadvantaged communities and the main advocate for the Green Jobs Act, which was signed into law by George W. Bush in 2007. Jones’ speech revolved around his Rebuild the Dream platform for people-powered innovations that will help fix the struggling U.S. economy. Throughout the speech Jones highlighted how the United States is getting rid of actual physical laborers and replacing them with phone apps and various pieces of technology. He cited how he witnessed an overhead drone snapping pictures of a crowd he was in when he attended Comic-Con as an example of the ever-growing reliance of technology that this country has.

Perhaps Jones’ most insightful portion of his speech was when he linked mass incarceration to environmental sustainability. Jones argued that instead of just throwing people from underprivileged neighborhoods in jail or bypassing them they can be utilized for environmental causes such as installing solar panels or new insulation. Taking these steps will improve our environment and reduce the crime rate in this country. Jones brought to light some interesting concepts about the connections between the United States system and environmental sustainability and left the entire CHESC audience brainstorming about new ways to connect the two.

If you would like to learn more about Van Jones’ environmental sustainability mission visit the official site at www.greenforall.org.



With the PowerSave Campus teams hitting off to California Higher Education Sustainability Conference at the San Francisco State University, there have been numerous project ideas from different workshops offered. The PowerSave Campus, Cal Poly Pomona team took that opportunity and attended as many workshops as possible. In this article, I would like to share one interesting workshop I attended. The workshop was about Large-Scale Campus Energy Efficiency and Net Zero Energy Projects.

It is no doubt that the PowerSave Campus team at Cal Poly Pomona has been auditing, retrofitting, and saving energy throughout the campus. As a new project coordinator, it is a bit hard to imagine the general concept of energy efficiency and develop new project ideas. This workshop however had provided insights and ideas to contribute back to the PowerSave Campus team.

More specifically, this workshop was about the large-scale energy efficiency project at Cerritos Community College. This energy master plan consists of not just changing the light bulbs but actually taking into account the insulation of buildings. The insulations needed are analyzed in an architectural view in order to efficiently minimize energy losses. The 14 buildings at Cerritos College are accounted for and are kept track of their own electricity consumption. Since the energy from HVAC, water and lighting are all combined into one readable metrics, the coordinators installed sub meters in order to get separate energy measurements. This made the data distinguishable and easier to manipulate. The energy consumption data is taken within 3 months. Afterwards, an energy model of all buildings are designed, taking into account the actual age of buildings, the climate files, and

LARGE SCALE

CAMPUS ENERGY EFFICIENCY & NET ZERO ENERGY PROJECTS

structural analysis. The infographics are drawn using Minitab 17 software. It has powerful statistics infographics and graphs which a presenter can easily communicate. The graphs turn out to be the models of buildings depicted with different energy consumption usage which is shown through various colors. It is an easily usable model with the use of said infographics. The entire project itself took 3 years to complete.

The Cerritos Community College received the Green Community College Leadership Award for its water conservation efforts that is saving the campus 30 million gallons of water annually. It is also moving towards its sustainability goals by implementing energy efficiency projects. It is good to learn about the implementation plan of the new energy efficiency project as it shows how projects can be implemented back in our own campus so that we can also be a leader in sustainability efforts.



WELCOME LARA HENDRICKSON



CPP POWERSAVE CAMPUS TEAM

With Chase Livingston transitioning off to new adventures, Lara Hendrickson is the new PowerSave Campus lead for Cal Poly Pomona. She is a Program Associate with the Alliance to Save Energy, a non-profit headquartered in Washington, D.C. with partner offices in California focused on education. Lara is very excited to work with the Cal Poly Pomona team, and she really enjoyed getting to meet them in-person at the 2015 CHESC conference!

In August 2014, Lara received her MSc Sustainability degree from the University of Leeds in Leeds, UK, specializing in Environmental Politics & Policy. A proactive and dedicated sustainability professional, Lara is passionate about energy policy, climate change, energy efficiency technologies, and environmental outreach and education. In her free time, she enjoys hiking, traveling, cooking, reading, playing board games, and spending quality time with friends.

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