

THE ALLIANCE TO SAVE ENERGY'S POWERSAVE CAMPUS PROGRAM PRESENTS...

11th Annual



AN ALLIANCE
TO SAVE
ENERGY
PROGRAM



2015 Energy Efficiency Summit:
Energy Roundup

Cal Poly Pomona
February 7-9, 2015



Dear Summit Participants,

I would like to extend a big PowerSave welcome to the 2015 Energy Efficiency Summit. This year our theme is *Energy Round Up* to pump you up for another great event pulling together all the "Energy Sheriffs" in town to set big goals for this year. Events like this are meant to set the stage for an incredible year, complete with sessions specifically designed for bigger and bolder goal setting.

The Energy Efficiency Summit is an opportunity to share best practices and also look towards the future of the Wild West now that much of the low hanging fruit has been picked. At the Summit, student interns new and old have the opportunity to attend training sessions on project planning, marketing, academic infusion and integrated demand side management; to learn about pilot projects and technologies that have been successful elsewhere; and to network with faculty and professionals who have made a career in the energy and academic fields.

Meanwhile professionals have the opportunity to learn about the ambitious projects the students are working on. We encourage you to network with one another and brainstorm additional ways to incorporate sustainability into the academic institution. The Summit provides an opportunity like no other to discuss California energy and workforce issues in an interdisciplinary and solutions-focused way.

We hope the event inspires you to take the ideas shared here back to your campuses and places of work. The PowerSave Campus Program is designed to facilitate progress and our success wouldn't be possible without you!

As always, we thank our valued campus stakeholders and other distinguished representatives in attendance for taking the time out of your busy schedules to mentor our interns. And to our students, time to saddle up! You are the heart of this program and we look forward to your creativity this year.

Sincerely,

Renee Lafrenz
Director, Education
Alliance to Save Energy

A handwritten signature in black ink that reads "Renee Lafrenz". The signature is written in a cursive, flowing style with a large, decorative flourish at the end of the name.

Saturday, February 7

Agenda at a Glance

Please see detailed Schedule of Events (pages 6-8) for session descriptions and locations.
Refer to Travel Information (pages 9-11) for more information about getting to campus.

Intern Training - Cal Poly Pomona (Kellogg West Conference Center)

- 3-5:30 pm Interns to arrive at Kellogg West Conference Center & Hotel
- 6:00-8:00 pm Dinner, Nametag and Program pick up (Hospitality Room in hotel)
- 6:30-8:00 pm Showcase Presentation Practice (required for Showcase presenters only, grab food and meet in the lobby at 6:15)
- 8:00 - 10:00 pm Optional Sustainability Tour—CPP's new energy efficient recreation center, the BRIC
Meet at Hospitality Room by 7:55

Get a good night's rest—we start early Sunday morning!

Sunday, February 8

Agenda at a Glance

Please see detailed Schedule of Events (pages 6-8) for session descriptions and locations.
Refer to Travel Information (pages 9-11) for more information about getting to campus.

Intern Training - Cal Poly Pomona Campus (Kellogg West Conference Center)

- 7:30 - 8:15 am Breakfast (dining room in conference center)
- 8:15 - 8:40 am Welcome, Agenda Review & Icebreaker
- 8:45 - 9:35 am Concurrent Breakout Sessions I
- *Team Manager Mash-up*
 - *We've got an App for that! Making the most of Central Desktop and other resources*
 - *New Intern Jeopardy (interns hired in the last 6 months must attend)*
- 9:40 - 10:30 am Concurrent Breakout Sessions II
- *The Power of Peer Pressure : Green Certifications Programs*
 - *Ch-ch-ch Changes (to your Metrics sheet) metrics managers must attend*
 - *Communications... Yeehaw!*
- 10:40 - 12:00 pm Concurrent Workshops
- *Energy Assessments 101*
 - *How many Energy Professionals Does it Take to Screw in a Lightbulb? Training for a Career in Energy*
 - *Competitions and Behavior Change*
- 12:00 - 1:00 pm Lunch (Hillside Terrace, next to Auditorium)
- 1:00 - 2:40 pm Technology Stations
- *Lighting Technology in Kitchens and Dining Halls*
 - *Ultra-Low Temperature Freezers in the Lab*
 - *Applications of the Hobo Temperature/Relative Humidity Data Logger*
 - *Plug Load Monitoring Technology*
- 2:50 - 3:40 pm Concurrent Breakout Sessions III
- *Treasurer Hunting (Treasurers required to attend)*
 - *Landing Your Dream Job: Defining Your Personal Story*
 - *Not Your Mama's Academic Infusion*
- 3:50 - 4:15 pm Meeting Wrap-Up
- 5:20 - 6:30 pm Career Panel (Please arrive no later than 5:20)
- 6:30 - 8:00 pm Welcome Reception (Stakeholders join us!)

Monday, February 9

Agenda at a Glance

Please see detailed Schedule of Events (pages 6-8) for session descriptions and locations.
Refer to Travel Information (pages 9-11) for more information about getting to campus.

All Summit Attendees – Cal Poly Pomona (Kellogg West Conference Center)

- 7:45 - 8:45 am Breakfast (Hillside Terrace, next to Auditorium—different from Sunday!)
- 8:45 - 9:00 am Welcome Address
- *Renee Lafrenz, Director, Alliance to Save Energy*
- 9:00 - 9:50 am Keynote Address
- *Rear Admiral Len Hering, Executive Director, Center for Sustainable Energy*
- 9:50 - 10:05 am Break & Travel Time
- 10:05 - 11:25 pm Concurrent Workshops
- *Academic Infusion Workshop*
 - *Expanding your Reach: Community Roundtable*
- 11:30-12:00 An Inside Look at the Billion Dollar Green Challenge
- *Mark Orlowski—Founder & Executive Director, Sustainable Endowments Institute*
- 12:00 - 1:15 pm Lunch (Hillside Terrace, next to Auditorium)
- ◇ *Poster Session*
- 1:15 - 2:00 pm PowerSave Campus Project Showcase
- *Green Rooms – Cal Poly Pomona*
 - *Campus Energy Audits– UCLA*
 - *Art Dept. Studios & Museum Lighting Retrofit: Lamp Choices & IDSM– UC Santa Barbara*
- 2:00 - 2:10 pm Announcements
- 2:10 - 2:20 pm Wrap-Up & Closing

Keynote Speaker Biographies

Len Hering — Executive Director, Center for Sustainable Energy



Rear Admiral Leendert “Len” Hering Sr. (U.S. Navy, retired), is a prominent military and civilian sustainability leader with a broad background in energy and environmental issues. His passion in sustainability is educating people on the dangers the future holds without taking responsible actions to secure the nation’s energy independence and to preserve water, air quality and other resources.

A native of Portsmouth, Va., Hering retired from the Navy in 2009 after more than 32 years of service. He was noted as one of the Navy’s top experts in base operations and facility support with an emphasis on sustainability and the environment.

While in the Navy, Hering’s efforts included everything from renewable energy to responsible water use and conservation. He built a team recognized throughout the Department of Defense as the best in environmental protection and sustainable innovation. Within three years, the team reduced energy consumption by nearly 42%, diverted 75% of Navy waste from landfills and reduced water consumption by more than one billion gallons, saving tens of millions of taxpayer dollars. Hering instigated wind, thermal, photovoltaic and conversion technology at all levels in Navy facilities. President Bush awarded Hering a 2005 Presidential Award for

Leadership in Federal Energy Management in recognition of efforts reducing oil spills and for recycling.

In 2009, Hering joined the University of San Diego, where as vice president for business services and administration he initiated numerous sustainable measures on the campus. Within the two years he served, USD installed the largest solar system of any private campus in the country, instituted the most comprehensive water abatement project in the school’s history and reformed numerous business practices to help control the costs.

Hering’s endeavors include founding what is now the largest sustainability business partnership in San Diego County, the San Diego Regional Sustainability Partnership, a consortium of business, government, academic and community organizations promoting practices that support a sustainable future for the region.

Mark Orlowski — Founder & Executive Director, Sustainable Endowments Institute

Mark heads the Institute’s research efforts on college sustainability initiatives including creation of the College Sustainability Report Card. Mark also serves as the lead developer and coordinator of the Billion Dollar Green Challenge, an initiative that is encouraging colleges and other nonprofit institutions to invest a combined total of \$1 billion into energy efficiency upgrades.

Since the Institute’s founding as a special project of Rockefeller Philanthropy Advisors in 2005, Mark has spoken at more than 80 colleges in over 30 states. Along with widespread coverage by campus newspapers, numerous reports on his work have appeared in the national and business press. Media coverage includes articles in *CNN*, *Money*, *Forbes*, *The New York Times*, and a profile in *BusinessWeek*.

As a member of the board of managers overseeing investments for New England Quaker Meetings, Mr. Orlowski is familiar with fiduciary responsibilities of endowment trustees. He also serves on the board of Proxy Democracy, a nonprofit organization dedicated to providing accessible proxy information.



A graduate of Williams College, Mr. Orlowski served on the college’s Advisory Committee on Shareholder Responsibility and chaired its Campus Environmental Advisory Committee. He also received an Associate’s Degree from Berkshire Community College and earned a master’s degree at Harvard University, where he studied nonprofit management.

Sunday Schedule of Events

February 8

Refer to Travel Information on pages 9-11 for more information about getting to campus.

Intern Training - Cal Poly Pomona (Kellogg West Conference Center)

7:30 - 8:15 am Breakfast (dining room in conference center)

8:15 - 8:40 am Welcome, Announcements & Icebreaker

8:45 - 9:35 am Concurrent Breakout sessions

Team Manager Mash-Up (Campus Vista)

- *Taylor McAdam—PowerSave Campus Staff*

There is no single recipe for successful team management; it's a balancing act and mash-up of many different skills. All team managers must attend this session where we'll be discussing some best practices for team management and leadership.

We've got an App for that! Making the most of Central Desktop and other resources (Mountain Vista)

- *Chase Livingston—PowerSave Campus Staff*

A deep dive into the tools available on Central Desktop as well as an overview of some of the other technical resources that are being utilized by other PowerSave Campus teams. With a focus on collaboration, communication, and project management and apps such as #Slack and Wunderlist.

New Intern Jeopardy (Auditorium)

- *Dan Bertoldi—PowerSave Campus Staff*

Calling all new interns and anyone else who wants to brush up on the Who's Who and What's What of the PSC internship. Think you can name the four program areas? The list of all the California campuses? What about the due date for monthly metrics reports? Meet your new PSC peers and compete in a legendary round of New Intern Jeopardy. There will be prizes to win, tips to gain, and friends to make.

9:40 - 10:30 am Concurrent Breakout Sessions

The Power of Peer-Pressure: Green Certification Programs (Auditorium)

- *Chase Livingston—PowerSave Campus Staff*

Sustainability Certification Programs are becoming increasingly prevalent on college campuses, from offices to labs to residence halls. In addition to creating environmental awareness, these programs empower individuals and groups with tools, skills, and most importantly, *an incentive* to reduce resource consumption and ultimately save money. This session will provide an overview of the different types of certification programs that PowerSave Campus teams have implemented in the past, and explore the ways that we can use this powerful tool to drive actual energy and water savings in the future.

Ch-ch-ch-Changes (to your Metrics sheet) (Campus Vista)

- *Colleen Butterfield & Benjamin Dudek—PowerSave Campus Staff*

It has been one year since the new metrics sheet made its debut! This session will provide a review but also bring your attention to the few areas that have changed including updates to the annual KPI's. This session will also help tighten the ship of metrics tracking, by providing some scenarios and working as a group to accurately place ALL of the associated metrics in the right place. Come party with your fellow data nerds! Metrics managers are required to attend.

Communications... Yeehaw! (Mountain Vista)

- *Taylor McAdam—PowerSave Campus Staff*

What should I write about for next month's newsletter? Look no further: your answer can be found in this session! The newsletter is your opportunity to recruit fans and become an expert on energy trends and tips. This session is for interns of all experience levels and writing abilities—when it comes to fun with newsletters, all are invited!

10:40 - 12:00 pm

Energy Assessments 101 (Mountain Vista)

- *Dan Bertoldi—PowerSave Campus Staff*

This session will teach beginners how to quantify energy use and identify low-cost and no-cost energy retrofits for small scale commercial buildings. The session includes a presentation which covers basic energy concepts, how to calculate energy use and savings, and the steps involved in a comprehensive energy audit. Following the presentation, participants will be able to practice their new skills while receiving hands-on training of standard auditing tools.

How many Energy professionals does it take to Screw in a Lightbulb? Training for a career in energy—Community Colleges (Auditorium)

Former Campus Lead, Ellie Perry will be introducing a new module on the energy workforce and finding your niche in the industry. The module will detail the skills, trainings, and certifications needed to hold a range of energy professions as well as help you create a personal career plan. This session is intended as a train-the-trainer opportunity—once you learn the information from Ellie, you will be equipped to present to students both on and off campus (i.e. local community colleges or trade schools).

Sunday Schedule of Events cont.

February 8, 2015

10:40 - 12:00 pm

Competitions & Behavior Change (Campus Vista)

- *Colleen Butterfield, Taylor McAdam and Benjamin Dudek—PowerSave Campus Staff*

This session is for all interns interested in behavior change and competition based energy reduction projects. We will share proven behavior change strategies, how to get more out of your data, and a fun activity to get you out of your seat and putting yourself in other people's shoes. Current CCN campuses: please send at least one representative to this session. We will be sharing competition best practices and planning roadblocks. PowerSave Campus leagues are in the midst of competition and we want to help you squeeze every last bit of savings out of your buildings.

12:00 - 1:00 pm Lunch (Hillside Terrace, next to Auditorium)

1:00 - 2:40 pm Tech Stations (Starts in the Auditorium, groups will be led to breakout rooms)

- *Lighting Technology in Kitchens and Dining Halls (Kong Sham, Food Service Technology Center)*
- *Ultra-Low Temperature Freezers in the Lab (Allison Paradise—My Green Lab)*
- *Applications of the Hobo Temperature/Relative Humidity Data Logger (Antonio Huizar—kW Engineering)*
- *Plug Load Monitoring Technology (Willie Stober—Integral Group & Kristiahn Alvarado—UC Santa Cruz)*

2:50 - 3:40 am Afternoon Concurrent Breakout Sessions

Treasurer Hunting (Campus Vista)

- *Chase Livingston—PowerSave Campus Staff*

As team treasurer, the buck stops with you. It is the treasurer's responsibility to ensure that each team's implementation budget is spent according to PowerSave Campus policies. Since these policies have changed for the 2015 program year, it is imperative that all treasurers attend this meeting. Any other interns that are interested in learning about the purchasing/ER process or treasurer position are invited to attend. We will be covering the latest so you can be the greatest.

Landing Your Dream Job: Defining Your Personal Story (Mountain Vista)

- *Jennifer Alldredge—PowerSave Campus Staff*

Come learn how to make your PowerSave internship shine in your job search! This session will offer tips on how to develop your own, personal elevator pitch, as well as how to be ready for practically any question in an interview. Check your nerves at the door and be ready to talk about your many great accomplishments!

Not Your Mama's Academic Infusion (Auditorium)

- *Colleen Butterfield—PowerSave Campus Staff, Delia Bense-Kang & Kristiahn Alvarado—PowerSave Campus Interns*

Are you tired of the same old academic infusion projects? Constantly recruiting For-Credit interns as your academic projects but not sure what to do with them? Well out with the old, and in with the new! Come hear from interns at Humboldt State and UC Santa Cruz on their successes. Delia from Humboldt will share their mutually beneficial partnership with a faculty member on campus, while Kristiahn from UC Santa Cruz will talk to us about their High School workshop.

3:50: - 4:15 pm Meeting Wrap-Up (Auditorium)

PowerSave Campus photo

5:20: - 6:30 pm Green Career Panel (Auditorium)

You are probably already thinking about your future career and what you want to do after you graduate from PowerSave Campus. Our esteemed panelists will help you navigate that path and share their personal stories on their journey into the sustainability world.

- *Dawn Finley—Job Location & Development Coordinator, Cal Poly Pomona*
- *Maurice "Hackett" Barney—Customer Programs Advisor, Southern California Gas Company*
- *Sean Higbee—Energy Specialist, Los Angeles Unified School District (former PSC intern)*
- *Mark Orłowski—Founder & Executive Director, Sustainable Endowments Institute*
- *Mayor Mary Ann Lutz—Mayor, Monrovia, CA*

6:30: - 8:00 pm Reception (Exhibit Lounge)

Please join us for a reception immediately following the Green Career Panel for hors d'oeuvres and time to mingle with PowerSave Campus interns, alumni, stakeholders and staff.

Monday Schedule of Events

February 9

Stakeholder & Intern Meetings - Cal Poly Pomona (Kellogg West Conference Center)

7:45 - 8:45 am Breakfast (Hillside Terrace, next to Auditorium)

8:45 - 9:00 am Welcome (Auditorium)

9:00 - 9:50 am Keynote—Rear Admiral Len Hering, Executive Director, Center for Sustainable Energy

9:50—10:05 Break

10:05 - 11:25 am Concurrent Breakout Sessions

Academic Infusion Workshop (Mountain Vista)

- *Colleen Butterfield, Renee Lafrenz, and Benjamin Dudek—PowerSave Campus Staff*
- *John Haner—Lecturer, Merritt Writing Program, UC Merced*

PowerSave Campus interns have a goal of at least two academic infusion projects per year, and this means working closely with faculty on campus and teachers in the community to identify educational needs around energy literacy. In this session, we'd like to take a step back and look at the wide variety of projects our interns have implemented in the past, but also look forward to what new opportunities there may be in several facilitated group discussions. We ask that all faculty at the summit attend this session, and any interns who are interested in beefing up their academic infusion projects in 2015 and beyond.

Expanding your Reach: Community Roundtable (Auditorium)

- *Taylor McAdam and Chase Livingston—PowerSave Campus Staff*

Get your creative juices flowing... it's time to expand your reach and bring PowerSave Campus into the community. This roundtable discussion will ask great minds—both stakeholder and intern—to brainstorm community outreach projects for 2015. This is an opportunity to meet new faces and reflect on the challenges and opportunities posed by community projects.

11:30 - 12:00 pm Billion Dollar Green Challenge

- *Mark Orłowski—Founder & Executive Director, Sustainable Endowments Institute*

12:00 - 1:15 pm Lunch and Poster Session (Lunch in Hillside Terrace, posters in Auditorium)

After you eat, check out posters from all the PowerSave campuses! Meanwhile, a hand-selected judging panel will also be selecting this year's winners!

- *Humboldt State University—Green Workplace Assessment & Certification Program*
- *CSU Chico—Inspire School Academic Infusion*
- *UC Berkeley—Lab Microscope Retrofits*
- *UC San Francisco—Lab Equipment Inventory*
- *UC Merced—Energy Ambassador Program*
- *UC Santa Cruz—Oakes Provost's House Energy Audit*
- *Cal Poly SLO—Kitchen Audits*
- *UC Santa Barbara—Art Department Studios and Museum Lighting Retrofit*
- *UCLA—The Hill Lighting Inventory*
- *CSU San Bernardino—Pacos Power Project*
- *Cal Poly Pomona—Sustainability in my Career*
- *CSU Fullerton—Relationship with Housing & Residence Life*
- *CSU Long Beach—Water-Energy Panel*
- *UC Irvine—Summer For-Credit Internship*
- *UC San Diego—Infographic Flipbook*
- *San Diego State—Evolution of a PowerSave Intern*

1:15 - 2:00 pm PowerSave Campus Project Showcase Presentations

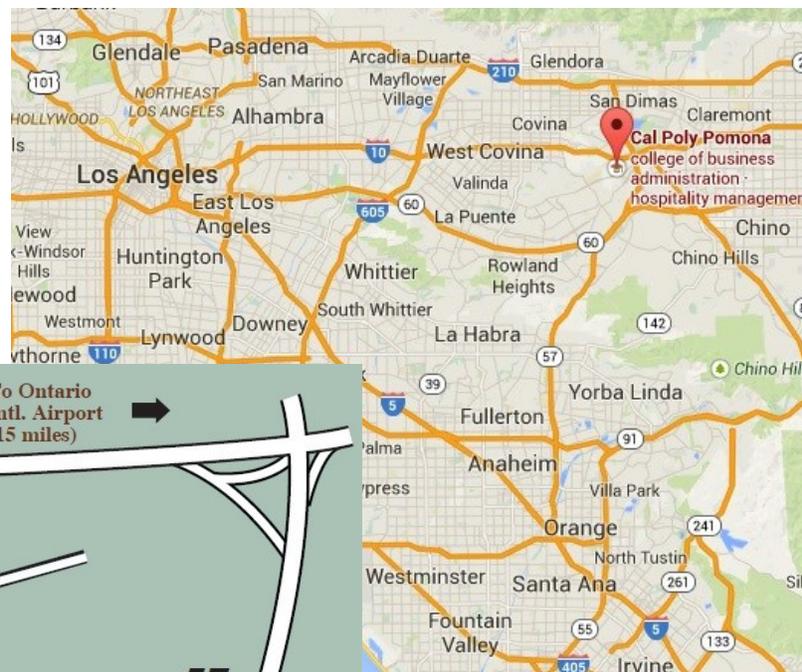
- *Jamel Bautista, Cal Poly Pomona—Green Rooms*
- *Alex Caryotakis, UCLA—Campus Energy Audits*
- *Allyson Gaarder, UC Santa Barbara—Art Dept. Studios and Museum Lighting Retrofit: Lamp Choices & IDSM*

2:00 - 2:20 pm Announcements, Wrap-up and Closing

Driving Instructions (from various highways to Kellogg)

Directions: Kellogg West Hotel & Conference Center
For GPS please use: "Kellogg West Education/Dining, Pomona, CA"

**Parking is complimentary at the hotel.*



Driving Instructions (Freeways to Campus/Hotel- Local Map)

From Downtown Los Angeles

Take Interstate 10 east to Route 57 south. Exit Temple Avenue and make a right hand turn. Take Temple Avenue to University Drive and make a right hand turn. Take University Drive to Horse Hill Drive and make a right hand turn. Take Horse Hill Drive, staying to your left at the fork, to the Kellogg West Conference Center & Hotel.

From San Bernardino/Ontario

Take Interstate 10 west to Route 57 south. Exit Temple Avenue and make a right hand turn. Take Temple Avenue to University Drive and make a right hand turn. Take University Drive to Horse Hill Drive and make a right hand turn. Take Horse Hill Drive, staying to your left at the fork, to the Kellogg West Conference Center & Hotel.

From Orange County/Anaheim

Take Route 57 north. Exit Temple Avenue and make a left hand turn. Take Temple Avenue to University Drive and make a right hand turn. Take University Drive to Horse Hill Drive and make a right hand turn. Take Horse Hill Drive, staying to your left at the fork, to the Kellogg West Conference Center & Hotel.

From Pasadena

Take Interstate 210 east to Route 57 south. Exit Temple Avenue and make a right hand turn. Take Temple Avenue to University Drive and make a right hand turn. Take University Drive to Horse Hill Drive and make a right hand turn. Take Horse Hill Drive, staying to your left at the fork, to the Kellogg West Conference Center & Hotel.

***WARNING: For GPS please use "Kellogg West Education/Dining, Pomona, CA" as the address. The 3801 W Temple Ave address will take you to the wrong location.**

Kellogg West Conference Center – Map & Contact Information

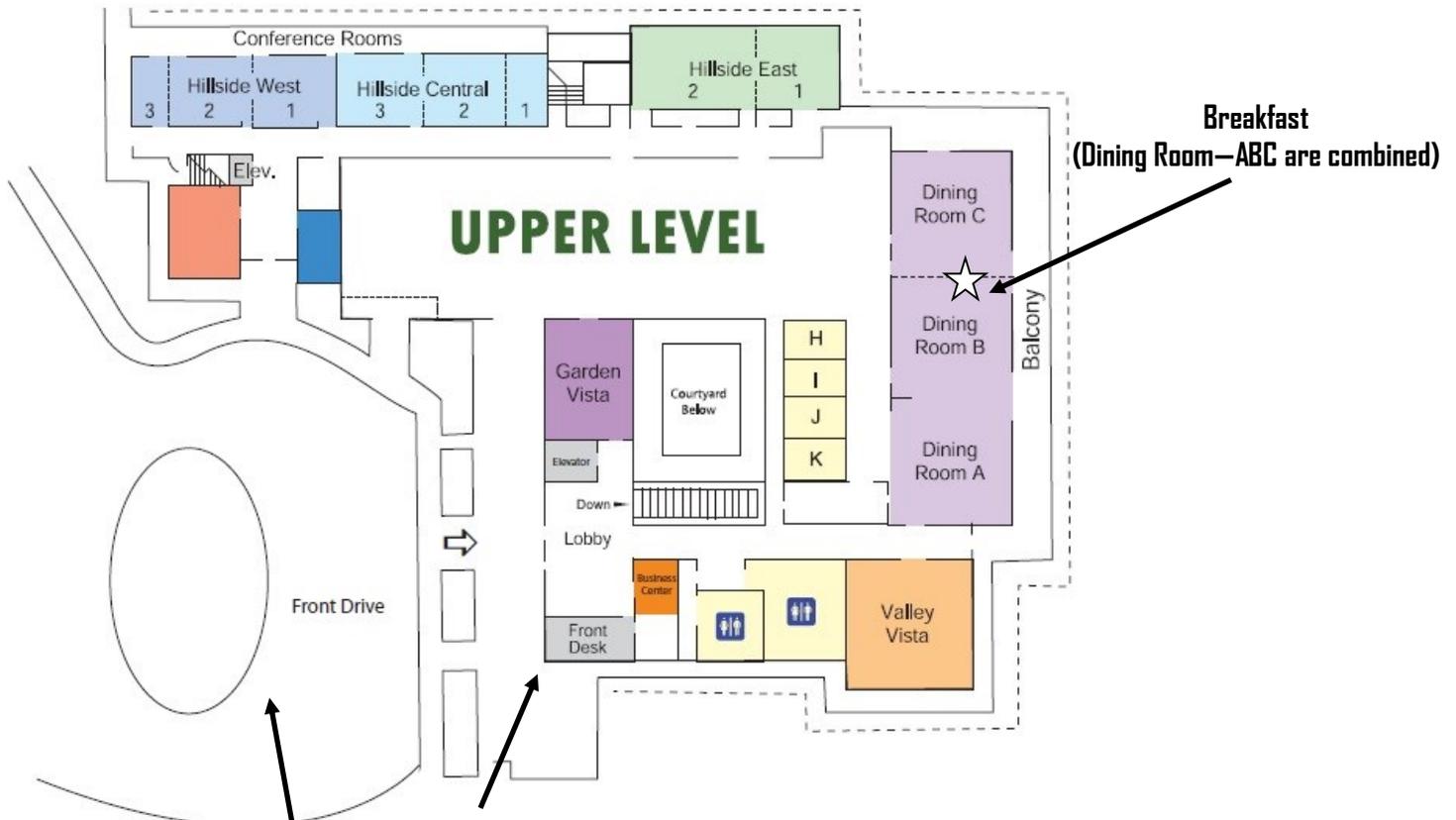
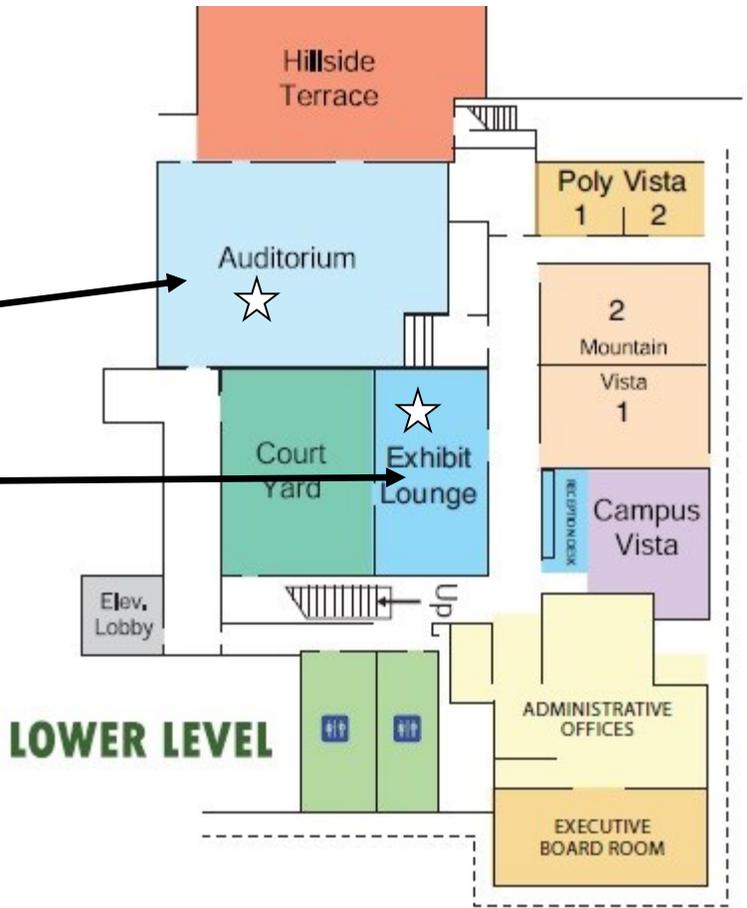
Address: Kellogg West Education/Dining
 Pomona, CA
 91768

Phone: (909) 869-7659

www.kelloggwest.org

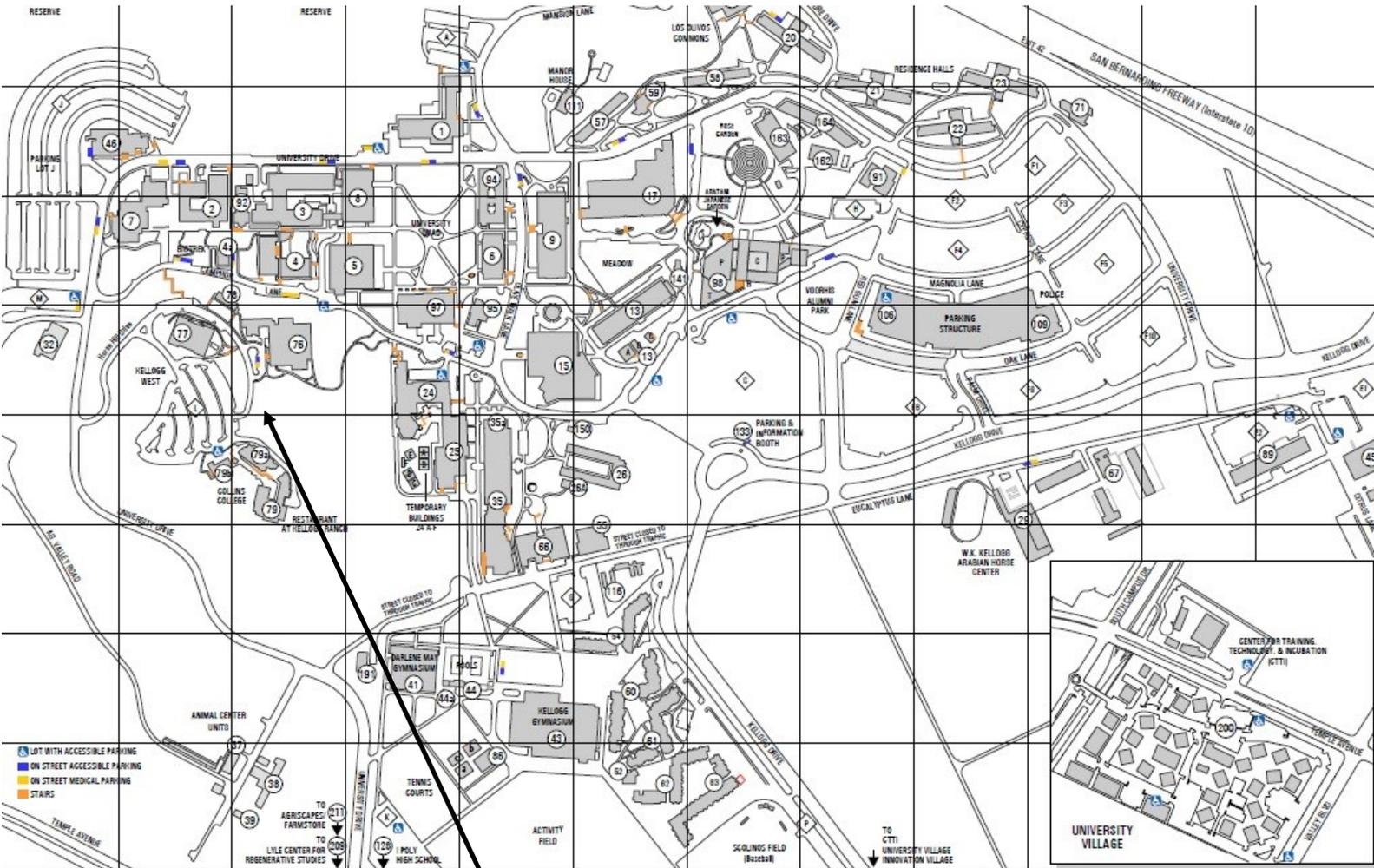
Main meeting room
 Career Panel
 (Auditorium)

Reception (Exhibit Lounge)



Hotel check in takes place in this building, pull your car into the roundabout ("Front Drive") to check in. Alternately, park in lot "L" (next page) and walk to front desk.

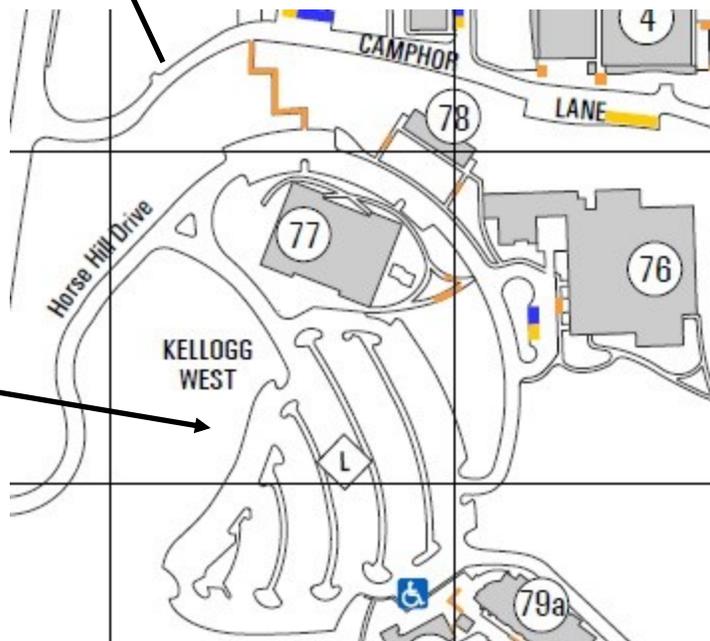
Cal Poly Pomona Campus Map



Above: Campus Map

Right: Zoomed in area of Kellogg West Hotel (77) & Conference Center (76)

Complimentary Parking (L)



A special thank you to our sponsors:



As always, we would like to express our appreciation to our utility partners for making the PowerSave Campus Program possible:

- Southern California Edison
- Pacific Gas & Electric
- Southern California Gas Company
- San Diego Gas & Electric

Special thanks go to utility representatives Hanisya Massey and Melodee Black (SCE), Pamela Murray (PG&E), Maurice "Hackett" Barney (SoCal Gas), Russell Laub (SDG&E).



In addition, we would like to express our sincere thanks and appreciation to our host campus, Cal Poly Pomona, and for the generous support and assistance we received.

Kellogg West Hotel & Conference Center is also a charter member of the State of California Green Lodging Program. This program recognizes hotels that are actively monitoring their environmental impact by successfully instituting programs to eliminate waste, recycle and conserve energy.



Thank you to our guest speakers for sharing their knowledge and wisdom with our program:

*Rear Admiral Len Herring
Mark Orlowski
Kong Sham
Allison Paradise
Antonia Huizer
Willie Staber
And all PowerSave Campus intern speakers*

*Save the Date!
California Higher Education Sustainability Conference 2015
July 20-24, San Francisco State University*

Special Thanks to the 2015 PowerSave Campus Energy Efficiency Summit Organizers:

Alliance to Save Energy

Renee Lafrenz, Director of Campus Programs
Colleen Butterfield, Project Manager
Chase Livingston, Senior Associate
Taylor McAdam, Senior Associate
Daniel Bertoldi, Senior Associate
Benjamin Dudek, Associate



The Alliance promotes energy efficiency to achieve a healthier economy, a cleaner environment, and greater energy security.