Curriculum & Research Track

CO₂: How We Inventory GHG Emissions and What We’re Doing to Reduce Them

The first step in reduction of GHG emission and mitigation of climate change is to understand the magnitude and source of present emissions. These three presentations are case studies describing student projects dedicated to the inventory of GHG sources, and two of them describe efforts on campuses to reduce emissions. Presenters will address the issues of how to create a class focused on campus sustainability that teaches students steps towards practical project implementation and how to create research and hands-on projects which impact the campus and community.

Moderator: Pete Schwartz, Professor, Physics, Cal Poly, San Luis Obispo

Speakers: Karina Garbesi, Professor, Environmental Studies, CSU East Bay; Caitlin Fager, Recycling Coordinator, Facilities Department, San Francisco State University; Brian Hider, Intern, SAP Research

Friday, August 1, 10:45am–12:15pm
Ag. Engineering, Bldg. 08, Rm. 123

Learn by Doing: Sustainability in Lab Courses

Swanton Pacific, a unique educational field facility, will present on using their land to study the effectiveness of sustainable resource management, while incorporating over 20 disciplines. You will also learn how students developed a monitoring system to track impacts of a LEED™ Certified Housing Project and how an electrical engineering course incorporated analysis of sustainability factors into each experiment. Lastly we will learn about the use of Green Chemistry in an undergraduate teaching lab and the broader implications of Green Chemistry for the campus.

Moderator: Peter Jenkins, Program Associate, Alliance to Save Energy

Speakers: Sonam Gill, Student, Ecology, Evolution, and Marine Biology (EEMB), Black Studies, Intern, Green Chemistry Initiative, UC Santa Barbara; David Braun, Ph.D., Professor, Electrical Engineering, Cal Poly, San Luis Obispo; Dr. Brian Dietterick, Director, Swanton Pacific Ranch, Faculty, Natural Resources Management, Cal Poly, San Luis Obispo; Adrienne Greve, Ph.D., Assistant Professor, City and Regional Planning, Cal Poly, San Luis Obispo

Friday, August 1, 2:00pm–3:30pm
Ag. Engineering, Bldg. 08, Rm. 123
Curriculum & Research Track

Community Partnerships through Course Work

Community partnerships are paving the way for new developments in sustainability: San Jose State University partnered with the City of San Jose on an experiential learning course to address sustainability in San Jose. San Luis Obispo is working with Shanghai, China and wants to share the lessons learned about working on international sustainability projects. Victor Valley College and the Mojave Sustainability Project is creating a symbiotic collaborative between academia, industry, and government agencies to promote sustainable development and the unique role education can play in this process.

Moderator:
Clare Battista, Ph.D., Professor, Economics, Orfalea College of Business,
Cal Poly, San Luis Obispo

Speakers:
Hilary Nixon, Ph.D., Assistant Professor, Urban and Regional Planning,
San Jose State University
Linda Vanasupa, Director, Educating Global Engineers Initiative,
Cal Poly, San Luis Obispo
Neville Slade, Chair, Agriculture and Natural Resource, Victor Valley College

Living Sustainably

Many students have questions about how to be more sustainable. Learn about three different programs that educate students about how to live sustainably and how to communicate with those around them about these practices. The Sustainable Works Program will review how they engage students in critical thinking activities while exploring the connections between sustainability and their daily lives. UC Davis will describe their two-week course on teaching students how they can make changes regarding consumption in their homes and campuses. We will also hear about how to incorporate these lessons into a business curriculum and explore the opportunities and challenges to educating business students about sustainable choices.

Moderator:
Angela Casler, Ph.D., Professor, Management, College of Business, CSU Chico

Speakers:
Ann Savageau, Associate Professor, Design, UC Davis
Radina Valova, Student Program Coordinator, Sustainable Works,
Santa Monica College
Eddy S.W. Ng, Ph.D., Assistant Professor, Management & Human Resources,
Cal Poly, Pomona

Saturday, August 2, 2008, 8:00am–9:15am
Ag. Engineering, Bldg. 08, Rm. 123
Curriculum & Research Track

The Art of Sustainability

How does art fit into sustainability? These three presentations will show you that theater, on-campus movie festivals, and writing classes are all artistic ways to promote sustainability. The audience will learn how to plan an environmental video festival (VidFest), discuss how theater can be used for public engagement, and gain the capacity to design environmental writing assignments that will improve students’ thinking and writing skills while educating them about sustainability.

Moderator:
Rachel Duchak, Lecturer, English, Wine & Viticulture, Cal Poly, San Luis Obispo

Speakers:
Kristin Blackler, Sustainability Analyst, Environment and Sustainability Initiative, UC San Diego
Jane Lehr, Ph.D., Assistant Professor, Ethnic Studies and Women’s & Gender Studies, Cal Poly, San Luis Obispo
Steven Marx, Ph.D., Professor, English, Cal Poly, San Luis Obispo

Saturday, August 2, 2008, 9:30am–10:45am
Ag. Engineering, Bldg. 08, Rm. 123

Energy Track

Best Practices in HVAC Retrofit and Monitoring Based Commissioning (MBCx)

This session will include presentations from winners of the Energy Efficiency Partnership Best Practice Awards competition for projects that demonstrate successful heating ventilation and air-conditioning (HVAC) retrofit and monitoring-based commissioning (MBCx) projects. HVAC winners this year include, UC San Diego for their campus-wide chilled water valve upgrade, CSU Sonoma’s Darwin Hall remodel, and Sonoma County Junior College District’s Santa Rosa Junior College for their Plover Hall HVAC Renovation. MBCx winners include, UC Davis’ Shields Library and CSU Monterey Bay for nine individual buildings.

Moderator:
Ed Johnson, Director, Facility Services, CSU San Marcos

Speakers:
Keith Marchando, Director, Energy Sustainability, Sonoma State University
John Dilliott, Manager, Energy and Utility Services, UC San Diego
Mike Lerch, Manager of Energy & Utilities, UC San Diego
Tony Ichsan, ARM, CHA, EFP, LEED™ AP, Director, Facilities Operations, Sonoma County Junior College District – Santa Rosa Junior College

Friday, August 1, 10:45am–12:15pm
University Union, Bldg. 65, Rm. 207
Energy Track

Best Practices in Renewable Energy and Student Energy Efficiency Projects

This session will include presentations from winners of the Energy Efficiency Partnership Best Practice Awards competition for projects that demonstrate best practices in Renewable Energy and Student Energy Efficiency Projects. Renewable Energy winners include CSU Fresno for their photovoltaic shaded parking canopies and LACCD for their Solar Photovoltaic Generation Project. LACCD will be giving out CDs with examples of RFPs, Contracts, and more related to their award-winning project. Student Energy Efficiency Winners include Alliance to Save Energy's Green Campus Program teams from UC Berkeley, CSU Chico, and UC Santa Cruz. These teams were respectively recognized for overall energy saving and tracking; network based power management and their Sustainability House; and sustained CFL exchanges.

**Moderator:**
**Dirk van Ulden,** Associate Director of Energy and Utilities Services, Facilities Management, UC Office of the President

**Speakers:**
**Larry Eisenberg,** Executive Director, Facilities Planning and Development, Los Angeles CCD

**Robert Boyd,** Associate Vice President, Facilities Management, CSU Fresno

**Desirae Early,** Student, Environmental Economics and Policy, Intern, Green Campus, UC Berkeley

**Amelia Gulling,** Student, Environmental Advocacy and Leadership, Intern, Green Campus, CSU Chico

**Rachel Shiozaki,** Student, Environmental Studies, Sociology, UC Santa Cruz

**Friday, August 1, 2:00pm–3:30pm**
University Union, Bldg. 65, Rm. 207

Climate Change Policies and Practices

Global climate change has evolved from a buzz word to an issue driving major political, institutional, and corporate policy and planning. This session discusses the mandates, goals, and metrics associated with greenhouse gas reduction, California Assembly Bill 32, the Campus President’s Climate Commitment, and the California Climate Action Registry. Learn how campuses are quantifying their baseline greenhouse gas emissions and developing reduction plans to improve their buildings, save on energy and utility costs, and achieve greenhouse gas regulatory compliance or even full carbon neutrality.

**Moderator:**
**Lisa McNeilly,** Director of Sustainability, Office of the Vice Chancellor of Administration, UC Berkeley

**Speakers:**
**Aaron Klemm, LEED™ AP, CEM, CSDP,** Energy Project Manager, City of Huntington Beach

**George A. Lwin,** Manager of Energy Services, Cal Poly, Pomona

**Heidi M. Rusina, LEED™ AP,** Masters Candidate, Regenerative Studies, Cal Poly, Pomona

**Aurora Winslade,** Sustainability Coordinator, UC Santa Cruz

**Judy Chess, LEED™ AP,** Assistant Director, Green Building Programs, UC Berkeley

**Friday, August 1, 4:15pm–5:30pm**
University Union, Bldg. 65, Rm. 207
Energy Track

Taming the Hood

Laboratory fume hoods are some of the most energy-intensive pieces of equipment on campus. A single fume hood, running 24 hours a day, uses about as much energy as three houses, and there are thousands of fume hoods in California universities. This session will present strategies to reduce fume hood energy consumption, ranging from cutting-edge emerging technologies, to student-led education and outreach programs that promote conservation. The strategies highlighted in this session may be applied to existing labs and new construction projects.

Moderator:
Dr. James Gibson, Director, Environmental Health and Safety, UC Los Angeles

Speakers:
Dale Sartor, P.E., Group Leader, Building Technologies Applications Team, Lawrence Berkeley National Laboratory
Debbie Decker, Chemical Safety Officer, Office of Environmental Health and Safety, UC Davis
Samantha Kao, Alumnus, B.A., International Studies, Minor, French, Intern, Green Campus, UC Irvine

Saturday, August 2, 2008, 8:00am–9:15am
University Union, Bldg. 65, Rm. 207

Data Center Energy Efficiency

The average data center uses more energy per square foot than most laboratory spaces and up to 100 times more energy than classrooms. Campuses will need to invest heavily in new IT infrastructure to keep pace with demand for computing power. This session will examine trends and recent benchmark data, as well as short, medium, and long-term best practice strategies to improve IT/data center energy performance. Presenters will discuss technologies like virtualization and power management, which can reduce energy in existing facilities, as well as best practices in data center design and operations.

Moderator:
Andrew Coghlan, LEED™ AP, Sustainability Specialist, UC Office of the President

Speakers:
Dale Sartor, P.E., Group Leader, Building Technologies Applications Team, Lawrence Berkeley National Laboratory
Arlene Allen, Director, Information Systems & Computing, UC Santa Barbara

Saturday, August 2, 2008, 9:30am–10:45am
University Union, Bldg. 65, Rm. 207
Food Systems Track

Green Best Practices in Dining Hall Construction, Renovation, and Operations

Sustainability remains a challenging and complex subject for food service operators. This seminar will address the energy efficiency and water conservation side of kitchen sustainability and will include the latest updates on LEED™, and available funding and technical assistance opportunities for efficiency upgrades. Los Rios CCD will present on the Cafeteria Variable Speed Kitchen Hood Retrofit for which they won an Honorable Mention Award for in the CCC/IOU Energy Efficiency Partnership Awards. The Humboldt State University Green Campus Program Interns will describe the FSTC evaluation of the campus dining, tips to look for, and how the suggestions were implemented.

Speakers:
Richard Young, Senior Engineer, Director of Education, Food Service Technology Center (FSTC)
Sarah Schneider, Student, Environmental Science, Intern, Green Campus, Humboldt State University
Mike Goodrich, Director, Energy & Utilities, Los Rios CCD

Friday, August 1, 10:45am–12:15pm
Science, Bldg. 52, Rm. B05

Identifying Sustainability Criteria: Finding and Getting the Products

Establishing sustainable purchasing commitments and an efficient distribution network for your campus dining service needs can be a formidable challenge. Learn how campuses have been able to partner with farmers cooperatives and, farm to college programs and hear about research which gives us an insight into the opportunities and challenges in food distribution and marketing systems. These research projects include studies on developing new cooperatives and marketing systems for small scale producers and a project which evaluated the relative availability of sustainable seafood options.

Moderator:
Neal MacDougall, Ph.D., Associate Professor, Agribusiness, Faculty Director, Sustainable Agriculture Resource Consortium, Cal Poly, San Luis Obispo

Speakers:
Aliza Wasserman, Farm to Institution Director, Community Alliance with Family Farmers
Dr. Shermain D. Hardesty, Extension Economist, Department of Agricultural and Resource Economics, UC Davis
Kathryn Spencer, Coordinator, Monterey County Farm to School Partnership, CSU Monterey Bay
Sean Anderson, Assistant Professor, Environmental Science and Resource Management, CSU Channel Islands

Friday, August 1, 2:00pm–3:30pm
Science, Bldg. 52, Rm. B05
This session will explore the founding and development of one of the oldest sustainable land-based college learning centers and farming operations in California, the Center for Agroecology & Sustainable Food Systems at UC Santa Cruz. In addition, the Cal Poly Organic Enterprise will present on how they have sustained themselves as a self supporting enterprise and how virtually every discipline at Cal Poly utilizes the farm. The development and programming features of the UC Davis Student Experimental Farm, as well as the Michigan State University, and Cornell University student farms will also be presented. We will learn how the students have played central roles in the creation of student farms, what the opportunities and challenges are to integrating student farms into “official,” sustainable agriculture/food systems curricula, and how these farms can inspire interdisciplinary education.

Moderator:  
**Tim Galarneau**, Food Systems Education & Research Program Specialist, Center for Agroecology & Sustainable Food Systems, UC Santa Cruz

Speakers:  
**Cindy Douglas**, Farm Manager, Organic Farm, Cal Poly, San Luis Obispo  
**Jim Leap**, Farm Manager, Center for Agroecology and Sustainable Food Systems, UC Santa Cruz  
**Damian Parr**, Doctoral Candidate, Agricultural and Environmental Education, UC Davis

**Saturday, August 2, 2008, 8:00am–9:15am**  
Science, Bldg. 52, Rm. B05

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This session will include lessons learned from campus operators on putting ‘Green’ practices to work in dining facilities, Green Dining certification efforts, and challenges faced. This roundtable format will focus on ways dining managers have used resources available to them, and how specific data is collected and measured. Energy savings through equipment modifications such as demand ventilation and pulping machines will be addressed. Attendees will come away with a practical ‘Green Energy’ Checklist and a list of potential funding opportunities.

Moderator:  
**Mark Cunningham**, Executive Director, Housing and Dining Services, UC San Diego

Speakers:  
**Scott Berlin**, Director, Dining and Hospitality Services, UC Santa Cruz  
**Bonnie Crouse**, Assistant Director, Residential Dining Services, UC Santa Barbara  
**Alan Maloney**, Director, UC Strategic Sourcing, UC Office of the President

**Friday, August 1, 4:15pm– 5:30pm**  
Science, Bldg. 52, Rm. B05
The Ocean Science Education Building at UCSB is pushing to achieve LEED™ Platinum certification and is striving to become the first Zero Energy Building (ZEB) in the UC system. This presentation will showcase the integrated collaboration of the design team and University officials in a step by step process. Also an award-winning biomedical laboratory facility at UC Berkeley will be the second example of this strategy; describing the collaboration of design teams and building occupants to achieve significant energy savings.

Moderator: 
Wendell Brase, Vice Chancellor, Administrative and Business Services, UC Irvine

Speakers: 
John Andary, PE, LEED™ AP, Managing Principal, Stantec  
Kim Swanson, AIA, LEED™ AP, Architect, EHDD Architecture  
Patrick MacArdle P.E., Project Manager, Facilities Services, UC Berkeley

Friday, August 1, 10:45am–12:15pm  
Performing Arts Center (PAC), Bldg. 06, Rm. 128

Best Practices in HVAC Design and Lighting Design/Retrofit

This session includes presentations from winners of the Higher Education Energy Efficiency Partnership Program Best Practices Competition in the categories of New Construction HVAC Design and Lighting Design/Retrofit. Cal Poly, San Luis Obispo will present on their satellite central plant. Jose Nunez will present on the CSM Science Building Planetarium, UC Berkeley will present on their wireless lighting controls retrofit, Contra Costa CCD will present on their district wide lighting retrofit, and CSU Channel Islands will present on their new standards for and retrofit of campus exterior lighting.

Moderator: 
Dave Hather, Major Account Representative, Pacific Gas and Electric

Speakers: 
Dennis Elliot, Manager, Engineering and Utilities, Cal Poly, San Luis Obispo  
Jose Nunez, Vice Chancellor, San Mateo County CCD  
Deborah Wylie, Associate Vice President, Operations, Planning, and Construction, CSU Channel Islands  
Raul Abesamis, Energy Engineer, Physical Plant-Campus Services, UC Berkeley  
Ray Pyle, Chief Facilities Planner, Contra Costa CCD

Friday, August 1, 2:00pm–3:30pm  
Performing Arts Center (PAC), Bldg. 06, Rm. 128
Green Building New Construction Track

Best Practices in Overall Sustainable Design

This session includes presentations from winners of the Higher Education Energy Efficiency Partnership Program Best Practices Competition in the category of New Construction Best Overall Sustainable Design. UC Davis will present on the Tahoe Center for Environmental Sciences and Cal Poly, San Luis Obispo will present on the Bondersen Projects Center. Ohlone College will present on the Newark Center for Health Sciences and Technology, which also won a Best Practice Award in Overall Sustainable Design in the next session.

_Moderator:_
_Dan Burgoyne, Architect, LEED™ AP, Sustainability Manager, State of California, Department of General Services_

_Speakers:_
_Mary-Alice Avila, CSI, CCS, LEED™ AP, Project Manager, Facilities Planning & Capital Projects, Cal Poly, San Luis Obispo_
_Bill Starr, Project Manager, Architects & Engineers, UC Davis_

_Friday, August 1, 4:15pm–5:30pm
Performing Arts Center (PAC), Bldg. 06, Rm. 128_

Green Building Case Studies from Community Colleges

Learn about buildings from Ohlone College, Butte College, and City College of San Francisco (CCSF). The Ohlone College Newark Center for Health Sciences and Technology received a “Best Practice Award” for overall sustainable design and is on track to receive LEEDTM Platinum certification. This project benefits the learning environment, while saving energy and money. CCSF will address building stakeholder involvement in retrofit projects, and Butte College will address construction challenges and solutions from concept through construction and commissioning in order to build sustainable public school facilities.

_Moderator:_
_Fred Harris, Assistant Vice Chancellor, College Finance and Facilities Planning, CCC Chancellor's Office_

_Speakers:_
_Jeff Watanabe, Ph.D., Associate Professor, Biology and Environmental Studies, Ohlone College_
_Leta Stagnaro, Ph.D., Associate Vice President, Newark Center for Health, Science, and Technology, Ohlone College_
_Mike Miller, Director, Facilities Planning & Management, Butte College_
_Winifred Kwofie, Senior Project Manager, Acting Sustainability Coordinator, City College of San Francisco_

_Saturday, August 2, 2008, 8:00am–9:15am
Performing Arts Center (PAC), Bldg. 06, Rm. 128_
Green Building New Construction *Track*

**Greenhouse Gas Reductions from Building Energy Use and Alternative Sources**

This session will summarize an analysis that explored various improvements in building energy efficiency and their potential to help the campus reach the Climate Action goals of the UC Policy on Sustainability. Emphases of the session will include: building energy use as a portion of total GHG emissions, comparison of energy use within building types, and options to reach policy goals.

*Moderator:*  
*Tara Lamont, AIA, LEED™ AP,* Assistant Director, Design Services,  
UC Office of the President

*Speakers:*  
*Bill Starr,* Project Manager, Architects & Engineers, UC Davis  
*Ardie Dehghani, P.E.,* Director of Engineering, Architects and Engineers, UC Davis

**Saturday, August 2, 2008, 9:30am–10:45am**  
Performing Arts Center (PAC), Bldg. 06, Rm. 128

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**Green Building Operations, Maintenance, & Renovations *Track***

**LEED™ EB Case Studies: Implementing Sustainable Practices through Project Documentation and Certification**

Documenting sustainable operations for LEED™ EB Certification elicits the expertise and involvement of numerous campus departments, off-campus professionals, and building occupants. In this session, three universities will present how LEED™ EB Teams were formulated, discuss the relation of campus policies and procedures to the certification process, and provide current certification status updates. UC Irvine is certifying a lab building, UC Santa Cruz is certifying an engineering building, and Cal Poly, San Luis Obispo is certifying an office building.

*Moderator:*  
*Mark Hunter,* Director, Facility Services, Cal Poly, San Luis Obispo

*Speakers:*  
*Cheryl Mollan, LEED™ AP,* Project Manager, Facility Services, Cal Poly, San Luis Obispo  
*Patrick Testoni,* Energy Manager, Physical Plant, UC Santa Cruz  
*Paul S. Wingco, CEM, MBA,* Energy Manager, Facilities Management, UC Irvine

**Friday, August 1, 10:45am–12:15pm**  
Performing Arts Center (PAC), Bldg. 06, Rm. 124
Green Building Operations, Maintenance, & Renovations Track

Innovative Green Approaches to Programs for Renovating Buildings

Each year, classrooms and laboratories across all college campuses are renovated. By setting priorities, taking advantage of cost-effective techniques that are also sustainable, and using students to research greening of renovations, the impact of these renovations has been reduced. Additionally, older resource intensive technologies or products are being replaced with more efficient products. Two case studies from UC Berkeley and UCSF will clearly illustrate the innovative design strategies in green renovation. UC Berkeley will focus on examples of classroom renovations and UCSF will highlight a laboratory renovation project which came in 37% under budget and four months ahead of schedule.

**Moderator:**
*Don Caskey*, Associate Vice Chancellor of Design and Construction, UC Riverside

**Speakers:**
*Eric Peabody, LEED™AP*, Project Manager, The Design Partnership  
*Christie Coffin, LEED™ AP*, Senior Architect, The Design Partnership  
*LaVern Lazzereschi*, Principal Administrative Analyst, Campus Classroom Manager, Office of the Registrar, UC Berkeley  
*Laura Moreno*, Student, Conservation and Resource Studies, UC Berkeley

**Friday, August 1, 2:00pm–3:30pm**
Performing Arts Center (PAC), Bldg. 06, Rm. 124

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LEED™ CI: Updates in Campus Case Studies

Under the UC Policy on Sustainable Practices, all UC renovation projects over $5 million in budget must achieve at least the equivalent of a LEED™ for Commercial Interiors (LEED™ CI) Certified rating. This session will present case studies of the initial green building progress of three of the first UC projects to use the LEED™ CI system.

**Moderator:**
*Diane Behling*, Senior Facilities Analyst, Capital Planning and Space Management, UC Santa Cruz

**Speakers:**
*Sally McGarrah*, Project Manager, Capital Projects, UC Berkeley  
*Bonnie Blake-Drucker, AIA, LEED™ AP*, Principal, BlakeDrucker Architects  
*Patti Mitchell, AIA, LEED™ AP*, Senior Project Manager, Capital Programs and Facilities Management, UC San Francisco

**Friday, August 1, 4:15pm–5:30pm**
Performing Arts Center (PAC), Bldg. 06, Rm. 124
Green Building Operations, Maintenance, & Renovations Track

Streamlining LEED™ Certification for Multiple Buildings

The U.S. Green Building Council is transforming the LEED™ certification process to allow organizations with many buildings, like college/university campuses, to reduce the paperwork and cost of certification. UCSB, UCM, and CSULA are all involved in piloting these new approaches.

Moderator:
Melissa Gallagher-Rogers, Manager, Government & Higher Education Sectors, U.S. Green Building Council

Speakers:
Perrin Pellegrin, LEED™ AP, Consultant
Mark Maxwell, LEED™ AP, LEED®/Sustainability Coordinator, Physical Planning, Design, and Construction, UC Merced
Richard Demerjian, LEED™ AP, Director, Campus and Environmental Planning, UC Irvine

Saturday, August 2, 2008, 8:00am–9:15am
Performing Arts Center (PAC), Bldg. 06, Rm. 124

Researcher and Student-Driven Solutions to Improving the Sustainability of Research Practices

Faculty from the Weintraub Center for Reconstructive Biotechnology (WCRB) will present on how they have implemented new practices in the research setting. Resources for this project came from the UCLA Academic Sustainability Subcommittee, the Chancellor's Facilities Management Team, and the student-initiated Education for Sustainable Living Program (ESLP), which provided student researchers to revise their recycling policy. Laboratory Research And Technical Staff (LabRATS), a program recently profiled in SCIENCE magazine, will then present on their sustainability assessment program for laboratories and how they are applying for LEED™ innovation points for building occupants’ involvement in the LabRATS Program.

Moderator:
Thomas B. Newman, MD, MPH, Professor, Division of Clinical Epidemiology, UC San Francisco

Speakers:
Ichiro Nishimura, DDS, DMSc, DMD, Professor, Division of Advanced Prosthodontics, Biomaterials, and Hospital Dentistry, School of Dentistry, UC Los Angeles
Neal Garrett, Ph.D., Professor, Division of Advanced Prosthodontics, Biomaterials, and Hospital Dentistry, School of Dentistry, Director, Weintraub Center for Reconstructive Biotechnology (WCRB), UC Los Angeles
Lara Henry, Student, Chemistry, Intern, Laboratory Research And Technical Staff (LabRATS) Program, UC Santa Barbara

Saturday, August 2, 2008, 9:30am–10:45am
Performing Arts Center (PAC), Bldg. 06, Rm. 124
Institutionalizing Sustainability Track

Creating the Vision, Finding the Funds

To engage the UCSD Foundation’s Board of Trustees in the campus’s sustainability vision, UCSD developed an inspiring presentation that has since also been given to the UC Regents and other audiences. Once you have a vision, you need the funds to realize it, and UCSD’s Director of Constituent Relations will teach you “How to Work With Your Development Office to Support Campus Sustainability.”

Moderator:  
R. Thomas Jones, AIA, Dean, College of Architecture and Environmental Design, Cal Poly, San Luis Obispo

Speakers:  
Jim Shea, Director of Constituent Relations, External Relations, UC San Diego  
Russell Thackston, Interim Assistant Vice Chancellor, Auxiliary & Plant Services, UC San Diego

Friday, August 1, 10:45am–12:15pm  
University Union, Bldg. 65, Rm. 204

Chancellor’s Sustainability Committees

All UC campuses have Sustainability Committees comprised of members from across their campus communities to advise top administrators on campus sustainability issues. While each committee is dedicated to campus sustainability, they all have a slightly different focus, based on their campus’ priorities. Examples include budgeting processes, procurement, sustainability policy implementation review, and outreach and education. This panel provides a forum for other college campuses with Sustainability Committees to learn from the experience of others, while also providing guidance to those that are still forming committees.

Moderator:  
Matthew St.Clair, LEED™ AP, Sustainability Manager, UC Office of the President

Speakers:  
Ron Cortez, Co-Chair, Campus Sustainability Committee, Associate Vice Chancellor, Administrative Services, UC Santa Barbara  
Sid England, Assistant Vice Chancellor for Environmental Stewardship and Sustainability, UC Davis  
Jonathan Winters, Co-Chair, Chancellor’s Advisory Committee on Sustainability, Assistant Superintendent, Physical Plant, Family Student Housing, UC Berkeley  
Jim Genes, Co-Chair, Chancellor’s Advisory Committee on Sustainability, Special Assistant to the Vice Chancellor of Administration, UC Merced  
John Elliott, Co-Chair, Chancellor’s Advisory Committee on Sustainability, Energy Manager, UC Merced  
Ilse Kolbus, Chair, Campus Sustainability Subcommittee, Director, Physical Plant, UC Santa Cruz  
J. Cully Nordby, Ph.D., Chair, Campus Sustainability Committee, Academic Director, Institute of the Environment, UC Los Angeles

Friday, August 1, 2:00pm–3:30pm  
University Union, Bldg. 65, Rm. 204
Institutionalizing Sustainability Track

Putting Policies into Practices

The L.A. Community College District passed a groundbreaking green building and clean energy policy in 2002. UC and CSU followed with their own policy in 2003 and 2005, respectively. The administrators overseeing the implementation of the policy goals for each university system will give an overview of their respective implementation efforts. In addition, the California Community Colleges’ Board of Governors’ Energy and Sustainability Policy will be discussed.

Moderator:
Michael J. Bocchicchio, AIA, Assistant Vice President, Facilities Administration,
   UC Office of the President

Speakers:
George Getgen, Director, Facilities Management, UC Office of the President
Elvyra San Juan, Assistant Vice Chancellor, Capital Planning, Design, and Construction,
   CSU Office of the Chancellor
Fred Harris, Assistant Vice Chancellor, College Finance and Facilities Planning,
   CCC Chancellor’s Office
Larry Eisenberg, Executive Director, Facilities Planning and Development, Los Angeles
   Community College District

Friday, August 1, 4:15pm–5:30pm
University Union, Bldg. 65, Rm. 204

Making Sustainability Part of Everyone’s Job

Every staff and faculty member at each university has an opportunity and a responsibility to contribute to making their campus a successful living laboratory of sustainable practices. Come learn how three campuses are putting sustainability into all job descriptions, creating sustainability performance incentives, and training all staff regarding their role on a sustainable campus.

Moderator:
Mo Lovegreen, LEED™ AP, Executive Officer, Department of Geography, UC Santa Barbara

Speakers:
Kevin Austin, Associate Director, Facilities Management, Capital Programs & Facilities
   Management, UC San Francisco
Scott G. McNall, Ph.D., Executive Director, Institute for Sustainable Development,
   CSU Chico

Saturday, August 2, 2008, 8:00am–9:15am
University Union, Bldg. 65, Rm. 204
Institutionalizing Sustainability Track

Sustainability Tracking, Assessment, & Rating System (STARS): California Experiences

STARS (Sustainability Tracking, Assessment, and Rating System), is a comprehensive, voluntary, self-administered campus sustainability performance measurement tool. STARS strives to translate disparate sustainability indicators into a single metric that will enable benchmarking within institutions as well as comparisons across campuses. In this interactive panel discussion, representatives from diverse California colleges and universities will share their experiences using the pilot version of STARS.

**Moderator:**
Laura Matson, STARS Program Manager, AASHE

**Speakers:**
Jillian Buckholz, Sustainability Coordinator, CSU Chico
Joseph P. Cooke, Grounds Supervisor, De Anza College
Jill Richardson, Campus Sustainability Coordinator, TGIF Grants Manager, Officer of the Vice Chancellor of Administrative Services, UC Santa Barbara

**Saturday, August 2, 2008, 9:30am–10:45am**
University Union, Bldg. 65, Rm. 204

Medical Centers, Nursing Programs, & Student Health Facilities Track

Sustainability at UCSF Medical Center: Challenges and Achievements

Medical centers pose unique challenges to sustainability. Hospitals have a large ecological footprint as well as strict regulations and compliance mandates. Learn how the UCSF Medical Center team is working towards a more sustainable hospital with green cleaners, purchasing, materials management, nursing and operations while continuing to provide superior patient care. Jack Henderson will join the panel to address how UCSF chooses sustainable produce and meats for its dining facility and will also discuss the challenges of composting in the kitchen.

**Moderator:**
Carl A. Maida, Ph.D., Adjunct Professor, Center for the Health Sciences, UC Los Angeles

**Speakers:**
Lisa Hartmayer, RN Nurse, UC San Francisco Medical Center
Robert Hunn, Safety Officer, UC San Francisco Medical Center
Jack Henderson, Associate Director, Nutrition and Food Services, UC San Francisco Medical Center

**Friday, August 1, 2008, 10:45am–12:15pm**
University Union, Bldg. 65, Rm. 220
Medical Centers, Nursing Programs, & Student Health Facilities Track

Sustainable Design of Medical Centers

This session will discuss challenges and solutions in sustainability in healthcare from a nurse's perspective. It will highlight current occupational and environmental health exposures in the hospital environment, recent developments in this field and the importance of institutional purchasing policies and capital projects. The session will also explore the development of the UCSF Medical Center at Mission Bay. It will demonstrate the ways in which the center acknowledged the strong connections between human and environmental health and how it combined a variety of operational standards in the design process.

Moderator:
Julie Morgan, RN, BSN, UC San Francisco Medical Center

Speakers:
Christina Foushee, Doctoral Candidate, Clinical Research Nurse, UC San Francisco
Tyler Krehlik, AIA, LEED™ AP, Chair, Committee for Sustainability, Anshen+Allen Architects
Deepak Dandekar, AIA, Director of Architecture, UC San Francisco Medical Center

Friday, August 1, 2:00pm–3:30pm
University Union, Bldg. 65, Rm. 220

Procurement Track

UC Presidential Policy on Sustainable Practices: Purchasing Best Practices

In 2007, Procurement was added to the UC's Presidential Policy on Sustainable Practices, with guidelines on sustainable economy, energy and water use, recycled content and GreenSeal™ certified products, reduction of electronic hazardous waste, environmentally responsible packaging, effective recycling, supply chain environmental responsibility, and evaluating environmental claims. A panel of strategic sourcing and purchasing professionals will share how their campuses have interpreted and implemented the policy with successful results and how suppliers can play an important role.

Moderator/ Speaker:
Lesley Clark, Commodity Manager, Strategic Sourcing, UC Office of the President

Speakers:
Bill Propst, Director, Campus Purchasing, UC Los Angeles
Janice King, Interim Associate Director, Contracting Services, UC Davis

Friday, August 1, 10:45am–12:15pm
Science, Bldg. 52, Rm. E27
Procurement Track

Certifying the Certifiers

What’s in a name, or a “certifier?” for that matter? How do we make choices and assign value to all the levels of certification that exist in the sustainable marketplace? How do we know which certifiers can substantiate their claims? This panel of experts from the EPA, public and private organizations and the University of California supply chain will present and host a participative discussion on the relative merits of sustainability certifiers and their value in the marketplace.

Moderator:
Saskia Van Gendt, LEED™ AP, Green Building and Resource Conservation, Environmental Protection Agency

Speakers:
Alicia Culver, Executive Director, Green Purchasing Institute
Kristen Ritchie, P.E., LEED™ AP, Senior Associate, Director of Sustainable Design, Gensler, San Francisco
Melissa Vernon, Director of Sustainable Strategy, InterfaceFLOR

Friday, August 1, 2:00pm–3:30pm
Science, Bldg. 52, Rm. E27

Purchasing Laboratory Equipment

UCSB Laboratory Research And Technical Staff (LabRATS) and Paul Mathew, Lawrence Berkeley National Laboratory (LBNL), will present on how to make energy efficient purchasing decisions, considering the high specialization and energy consumption of lab equipment and the rarity of third party certification in laboratories. The LABS21 Wiki site, which highlights energy efficient lab equipment, and other tools, will be shared. LabRATS will also present on strategies for promoting reuse and surplus equipment exchange and how to implement these programs through a decentralized network of researchers.

Moderator:
Harry Gunther, Director, Materiel and Risk Management, UC Irvine

Speakers:
Allen Doyle, Founder, Laboratory Research And Technical Staff (LabRATS), UC Santa Barbara
Paul Mathew, Ph.D., Staff Scientist, Lawrence Berkeley National Laboratory
Bonny Webber, Manager, Strategic Contract Management, University of Michigan

Friday, August 1, 4:15pm–5:30pm
Science, Bldg. 52, Rm. E27
Procurement Track

Greening the Supply Chain

Cal Poly, SLO and UC Merced have incorporated sustainable purchasing practices and LEED™ guidelines into daily purchasing procedures that are easy to execute and manage for a variety of commodities on campus. They will share the University successes and how Contract & Procurement Services continues to provide viable and realistic ways to reduce the University's carbon footprint and continue to “green” the supply chain. Cal Poly along with OfficeMax will present how by working together they have implemented a continuous proactive approach to greening office supplies.

**Moderator:**
Matthew Roberts, Director, Contracts, Procurement, and Risk Management, Cal Poly, San Luis Obispo

**Speakers:**
Greg Melnyk, Procurement Manager, Contracts, Procurement and Risk Management, Cal Poly, San Luis Obispo
Sue Mills, Director, Environmental Practices, OfficeMax
Mark Maxwell, LEED™ AP, LEED™/Sustainability Coordinator, Physical Planning, Design, and Construction, UC Merced

**Saturday, August 2, 2008, 9:30am–10:45am**
Science, Bldg. 53, Rm. 215

Social Equity & Green Economy Track

The Coming Wave of Green Collar Jobs

We will discuss how to create more jobs and move people from low income to middle class jobs through training in sustainability. CSU Chico will be presenting on employment and training opportunities for tradesmen and contractors in the solar installation sector. There will also be a presentation from Laney College on their Environmental Technology Program, which prepares building technicians with the necessary skills to succeed in this rapidly growing field. The Ella Baker Center will connect us back to the national movement.

**Moderator:**
Peter Davis, Statewide Energy Director, Advanced Transportation, Technology, & Energy (ATTE), CCC Chancellor's Office

**Speakers:**
Nick Kyriakopedi, Department Chair, Instructor, Environmental Control Technology Department, Laney College
Julia Murphy, Student, Environmental Policy and Administration, CSU Chico
Rick Kuhn, Director, Professional & Workforce Development, Foothill-De Anza CCD

**Friday, August 1, 4:15pm–5:30pm**
University Union, Bldg. 65, Rm. 220
Social Equity & Green Economy Track

Sustainable Solutions for Low Income Communities

The Grub Project plants gardens in backgrounds and shares the food grown with nearby apartment complexes that don’t have land to grow their own food. Another CSU Chico project The Cause House, a home made into a living demonstration of social change, offers community based workshops on living sustainably geared for low income people. The last presenter will be Iris Peppard, coordinator of CSUMB’s Service Learning Institute’s Soledad Street Community Garden and Green Team Job Training Program for the homeless.

Moderator:
Renee Lafrenz, Senior Program Associate, Green Campus Program, Alliance to Save Energy

Speakers:
Francine (Franni) Stuelpnagel, Co-Founder, GRUB, CSU Chico
Iris Peppard, Coordinator, Chinatown Neighborhood Unity Garden, Service Learning Institute, CSU Monterey Bay
Max Kee, Student, Environmental Health and Community Wellness, CSU Chico

Saturday, August 2, 2008, 8:00am–9:15am
University Union, Bldg. 65, Rm. 220

Case Studies for an Equitable Future

Nancy Mary will address how to train students to understand the role of social work in sustainable economic and community development. The session will also explain how Cal Poly Chocolates, an enterprise project of the university’s Food Science and Nutrition Department, has sold over $40,000 of fair trade chocolates in one year. In closing, Simcha Udwin will discuss how she developed a book and educational materials re-use program which meets the needs of prison and jail education programs, while helping the campus reach zero waste.

Moderator:
Mo Lovegreen, LEED™ AP, Executive Officer, Department of Geography, UC Santa Barbara

Speakers:
Nancy L. Mary, Ph.D., DSW, MSW, Professor Emerita, UC Los Angeles
Dr. Tom Neuhaus, Ph.D., Faculty, College of Agriculture, Food and Environmental Sciences, Cal Poly, San Luis Obispo
Simcha Udwin, LLB, B.A., Co-Founder, California Universities Reading Through Recycling Alliance

Saturday, August 2, 2008, 9:30am–10:45am
University Union, Bldg. 65, Rm. 220
Student Affairs Track

Wheeled Migration

The Wheeled Migration Bicycle Tour is a statewide cycling event supporting an alternative mode of transportation. The tour will link students and faculty from different communities at prearranged points along Highway 1, and culminate in a collective migration of participants and presenters to the UC/CSU/CCC Sustainability Conference in San Luis Obispo. The panel will illustrate how this ride was created. Discussion will then address the potential for growth by connecting schools and communities, and the ride's relationship to sustainability.

**Moderator:**
*Mark Stemen, Ph.D.*, Professor, Geography and Planning, CSU Chico

**Speakers:**
*Ryan Laine*, Student, Curriculum Design, CSU Chico
*Francesca Garibaldi*, Student, Integrated Studies, CSU Monterey Bay
*Quinn Comendant*, Organizer, Wheeled Migration

**Friday, August 1, 10:45am–12:15pm**
Business, Bldg. 03, Rm. 213

Working for Sustainability through a More Democratic Shared Governance Process

This session will discuss how partnerships between student and faculty shared governance structures can motivate environmental action on campus. Santa Monica College will present lessons learned while engaging students in college committees and task forces. They will describe how student energy and fresh perspectives influenced campus administration on an environmental audit and an organic garden project, helped add sustainability features to new facilities, led to the funding of an “Any Line, Any Time” transit system pass, and helped revise criteria for food vendors.

**Moderator:**
*Genevieve Bertone*, Sustainability Coordinator, Santa Monica College

**Speakers:**
*Luis Suarez*, Student, Environmental Studies, Associated Students Board, Santa Monica College
*Lee Peterson*, Co-Chair, Facilities Planning Subcommittee, Santa Monica College
*Amber Katherine*, Co-Chair, Environmental Affairs Committee, Professor, Environmental Politics, Santa Monica College

**Friday, August 1, 2:00pm–3:30pm**
Business, Bldg. 03, Rm. 213
Student Affairs Track

Student-Driven, Student Fee-Supported Green Funds for Campus Sustainability

Student leaders from UC Santa Barbara, Humboldt State University, and UC Berkeley describe their successful efforts to create student driven, student fee supported grant-making funds for sustainability projects on their respective campuses. They will describe how to campaign for a student fee-supported sustainability fund, how to get the fund running after the campaign and why these funds are better than just the money.

Moderator:
Jack Powazek, Associate Vice Chancellor, General Services, UC Los Angeles

Speakers:
John Stanley, Alumnus, Energy and Resources Group, UC Berkeley
Jessica Lamm, Student, Environmental Advocacy, Humboldt State University
Jill Richardson, Campus Sustainability Coordinator, TGIF Grants Manager, Office of the Vice Chancellor of Administrative Services, UC Santa Barbara

Friday, August 1, 4:15pm–5:30pm
Business, Bldg. 03, Rm. 213

Best Practices in Student Sustainability Programs

This session will include presentations from winners of the Energy Efficiency Partnership Best Practice Awards Competition for Best Student Sustainability Program. UC Berkeley will present on the Building Sustainability at Cal Program, which trains students to reduce the environmental footprint of campus buildings by educating building inhabitants and identifying structural and operational changes that can be made to the buildings. Humboldt State University will present on their Center for Appropriate Technology. There will also be a CCC Award Winner presenting.

Moderator:
Felicia E. McGinty, Ed.D, Vice Chancellor, Student Affairs, UC Santa Cruz

Speakers:
Laura Moreno, Student, Conservation and Resource Studies, UC Berkeley
Jeffrey Steuben, Student, Environmental Science, Co-Director, Campus Center for Appropriate Technology, Humboldt State University

Saturday, August 2, 2008, 9:30am–10:45am
Business, Bldg. 03, Rm. 213
Transportation Track

How Can Higher Education and Regional Transit Agencies Work Together on Better Transit?

Universities and colleges are important users of regional transportation, and can work with regional transportation agencies to mutual benefit by increasing transit ridership and improving transit opportunities for the campus population. In this session, university and college staff will describe collaborative projects with regional transportation agencies and the resulting transportation successes. San Diego State University and UC Riverside will discuss the projects for which they won 2008 Sustainable Transportation Awards.

**Moderator:**
Susan Rains, Commuter and Access Services Coordinator, University Police Department, Cal Poly, San Luis Obispo

**Speakers:**
Teresa Buika, Senior Transportation Planner, Transportation and Parking Services, UC Santa Cruz
Lauren Cooper, Associate Interim Director, Facilities Planning, Design & Construction, San Diego State University
Clayton Kraft, Project Manager, Facilities Planning, Design & Construction, San Diego State University
Mike Delo, Director, Transportation & Parking Services, UC Riverside

Friday, August 1, 10:45am–12:15pm
Fisher Science, Bldg. 33, Rm. 286

Measuring Greenhouse Gas Emissions from Campus Transportation

The transportation sector is responsible for the majority of greenhouse gas emissions and comprises a substantial component of total campus emissions. Accurate methods of measuring campus transportation emissions are essential for determining the campus baseline and documenting future reductions. This session explores methodologies used to calculate greenhouse gas emissions from campus transportation including campus fleets, commuting, and business air travel.

**Moderator:**
David Karwaski, Transportation Planning and Policy Manager, Transportation, UC Los Angeles

**Speakers:**
Halli Bovia, Masters Candidate, CSU Chico, Special Project Assistant, Facilities Planning and Management, Butte-Glenn CCD
Calvin Lee Kwan, MPH, Doctoral Candidate, Environmental Science and Engineering, UC Los Angeles
Caitlin Fager, Recycling Coordinator, Facilities Department, San Francisco State University

Friday, August 1, 2:00pm–3:30pm
Fisher Science, Bldg. 33, Rm. 286
Transportation Track

Vehicles and Fuels: Low Emissions Choices for Fleets

Vehicle and fuel technologies are advancing rapidly, and new low-emission choices for vehicles and fuels are becoming more available. This session will overview current advanced fuel choices including biodiesel derived from campus-generated waste oil, and explore a variety of alternative fueled vehicles including hybrid buses.

**Moderator:**
Brodie Hamilton, Director, Parking and Transportation Services, Stanford University

**Speakers:**
Steve Hahn, MBA, Materials Manager, Santa Barbara Metropolitan Transit District
Rick Sikes, Fleet Superintendent, City of Santa Monica
Eric Veium, Alumnus, Industrial Engineering; Intern, Green Campus Program, Cal Poly, San Luis Obispo

Friday, August 1, 4:15pm–5:30pm
Fisher Science, Bldg. 33, Rm. 286

What State Greenhouse Gas Regulation Means to College and University Transportation

Emerging state laws are shaping greenhouse gas regulation in California. This session discusses how the laws may affect California college and university transportation. The session will also highlight UC Irvine’s comprehensive program aimed at reducing vehicle emissions, vehicle trips, and vehicle miles traveled on campus, for which they won a 2008 Sustainable Transportation Award.

**Moderator**
Larry Pageler, Director, Transportation and Parking Services, UC Santa Cruz

**Speakers:**
McKinley Addy, Emerging Fuels & Technology Office, California Energy Commission
Nicholas Lutsey, Ph.D., Graduate, Institute of Transportation Studies, UC Davis
Ronald Fleming, Associate Director, Chief Enforcement Officer, Transportation Authority, UC Irvine

Saturday, August 2, 2008, 8:00am–9:15am
Fisher Science, Bldg. 33, Rm. 286
Transportation Track

Sustainable Transportation Elements in Campus Planning and Capital Projects

This session will discuss advancing sustainable transportation efforts through the physical planning process, including integrating sustainable transportation into campus master plans, long range development plans, and project plans/budgets. The session will provide tips for helping sustainable transportation elements withstand value engineering, budget priority challenges, and campus competition for space.

*Moderator:*
Winifred Kwofie, Senior Project Manager, Acting Sustainability Coordinator, City College of San Francisco

*Speakers:*
Charlotte Strem, Coordinator, Environmental Planning, UC Office of the President
Renee Fortier, Director, Transportation, UC Los Angeles
Sam Corbett, Assistant Director, Transportation and Parking Services, UC San Diego

Saturday, August 2, 2008, 9:30am–10:45am
Fisher Science, Bldg. 33, Rm. 286

Waste Reduction & Recycling Track

Case Studies for Reaching Zero Waste

The State of California and our campuses are increasing minimum diversion rates each year. The UC system has already set a goal of Zero Waste by 2020. From Cal Poly, we will hear about a student-managed printing enterprise on campus, which trains students to lead a changing industry into a sustainable direction and a surplus auction program that raises over $100,000 annually. From UCSB, we will hear about a comprehensive recycling program run by students, departmental business officers staff and faculty which achieved an 88.76% waste diversion rate.

*Moderator:*
Alonso N. Noble, Assistant Superintendent, Facilities Management, UC San Diego

*Speakers:*
Kenneth Macro, Assistant Professor, Graphic Communication, Cal Poly, San Luis Obispo
Gage Sahl, Surplus Property and Moving Coordinator, Facility Service, Cal Poly, San Luis Obispo
Eli Krispi, Intern, Ellison Hall Sustainability Committee, Student, Geography, Environmental Studies, UC Santa Barbara

Friday, August 1, 10:45am–12:15pm
Science North, Bldg. 53, Rm. 215
Waste Reduction & Recycling Track

Innovative Construction and Demolition Initiatives

UC Merced will address how to incorporate waste management practices into construction projects. UC Merced has successfully reached a diversion rate of 95% waste diversion on new construction projects. At UC Berkeley, staff worked together to diagram the process for moving, excess/salvage programs, and demolition work scope. Students worked with the project team to expedite the removal and reuse of building materials.

**Moderator:**
Kristin Cooper Carter, CSDP, M.A., Associate Professor, College of Engineering, Computer Science, and Construction Management, CSU Chico

**Speakers:**
Mark Maxwell, LEED™ AP, LEED™/Sustainability Coordinator, Physical Planning, Design, and Construction, UC Merced
Emily Decremer, Student, Psychology, Intern, Recycling Program, UC Merced
Lisa Bauer, Campus Recycling and Refuse Manager, Co-Chair, Chancellor’s Advisory Committee on Sustainability, UC Berkeley
Renee Chaffin, Manager, Campus ReUSE, UC Berkeley

**Friday, August 1, 4:15pm–5:30pm**  
Science North, Bldg. 53, Rm. 215

Best Practices in Innovative Waste Reduction

Cal Poly, San Luis Obispo and a Community College will be presenting on their award winning innovative waste reduction programs. Dennis Elliot’s presentation will focus on their Integrated Waste Management Program. These awards are given out annually thanks to the generous sponsorship of the California Collegiate Recycling Council and the CCC/IOU Energy Efficiency Partnership.

**Moderator:**
Robyn Difalco, Sustainability Coordinator, Associated Students, CSU Chico

**Speakers:**
Dennis Elliot, Manager, Engineering and Utilities, Cal Poly, San Luis Obispo
James Boushka, Marketing Director, University Dining Services, Sodexo at UC Davis

**Saturday, August 2, 2008, 8:00am–9:15am**  
Science North, Bldg. 53, Rm. 215
Waste Reduction & Recycling Track

Post-Consumer Composting: Campus and Community Led Examples

Learn about campuses who are taking the lead in recycling post-consumer materials from food waste to biodegradable dishware. The presentation will address both off-site composting where the local waste hauler is willing to accept post-consumer materials, as well as examples of where the campus had to take the lead and implement their own way to process post-consumer materials. We will compare start-up costs and savings and hear about tangible examples of how the various options work on a day to day basis.

Moderator:
Lin King, Program Manager, R4 Recycling Program, UC Davis

Speakers:
Steven Lincoln, Sustainability Coordinator, San Diego State University
Robyn Difalco, Sustainability Coordinator, Associated Students, CSU Chico
Max Kee, Student, Environmental Health and Community Wellness, CSU Chico

Saturday, August 2, 2008, 9:30am–10:45am
Science, Bldg. 52, Rm. B05

Water, Landscaping, & Agriculture Track

Best Practices in Water Efficiency and Site Water Quality

Established in 2004, Best Practice Awards are designed to recognize campus groups who have demonstrated a “best practice” in achieving the goals set by the Governor's Green Building Action Plan, the State Energy Action Plan, and the California Public Utilities Commission. For 2007, in the category of UC/CSU Water Efficiency and Site Water Quality Best Practice Award, San Francisco State University will present their Water Resources Master Plan and describe efforts for optimizing resource conservation. UC Irvine will also present on their award winning work.

Moderator:
Aaron Klemm, LEED™ AP, CEM, CSDP, Energy Project Manager, the City of Huntington Beach

Speakers:
Dennis Mitchell, CLIA, Irrigation Association CLT, Irrigation Specialist, San Diego State University
William Lekas, Energy Manager, San Diego State University
Fred R. Bockmiller, PE, CEM, LEED™ AP, Principal Engineer, Facilities Management, UC Irvine

Friday, August 1, 2:00pm–3:30pm
Science North, Bldg. 53, Rm. 215
As California’s population continues to grow, high demand for fresh water and pesticide use will only accelerate the water shortage problem. UC Santa Barbara will be presenting their methodology of curbing pesticide use an approach which involves color-coded maps to evaluate sites, reduce risk, and plan for long-term sustainability. Their presentation will also include the benefits of native plant communities and the steps essential for creating these communities, such as: planning the site, removing invasive plants, restoring site soils, purchasing the native plant material, planting, irrigation, and mulches and amendments.

**Moderator:**
**Michael Delo,** Director, Design & Construction, Transportation, Parking and Fleet Services, UC Riverside

**Speakers:**
**Phil Boise,** Urban-Ag Ecology  
**Ken Brown,** Supervisor, Parks and Recreation, the City of Santa Barbara

**Saturday, August 2, 2008, 8:00am–9:15am**  
**Science, Bldg. 52, Rm. E27**

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In this session, we will discuss state of the art, smart, central irrigation control, combined with an ecosystem services approach to storm water management, to create an integrated and responsible campus plan for wise stewardship of our shared and intermittent water resources. A next step in the evolution of water harvesting in Mediterranean climates (like much of California) is fog drip collection. Dr. Dan Fernandez will be presenting how other similar climates have enhanced water supplies using this age old water harvesting technique and how this might be applied in California.

**Moderator:**
**Dave Weil,** Assistant Director, Facilities Management, UC San Diego

**Speakers:**
**Phil Evans,** Grounds Management, San Francisco State University  
**Daniel Fernandez, Ph.D.,** Chair, Division of Science and Environmental Policy, CSU Monterey Bay

**Saturday, August 2, 2008, 9:30am–10:45am**  
**Science, Bldg. 52, Rm. E27**
Community College Summit

The California Community Colleges have been very successful in becoming more environmentally and economically sustainable through energy and resource efficient construction, rehabilitation, and operation of campus facilities. As budgets for public higher-education shrink, the Community Colleges have shown how energy efficiency can translate to life-cycle cost savings that free up dollars for the classroom. This presentation will focus on challenges and solutions from concept through construction and commissioning in order to build sustainable higher education facilities. There will be a showcase of several community colleges successes, and Best Practices presented by Community College leaders. Representatives from the Investor Owned Utilities will discuss the available technical assistance, policy recommendations, and incentive programs available to higher education customers, and the role that the CCC/IOU Energy Efficiency Partnership has played in helping campuses on the path to sustainability. This presentation will also review: the California Community College Board of Governors’ Sustainable Energy Policy; the current status of the CCC/IOU Partnership and the plans for the 2009-2011 program cycle; highlight the various utility programs available for energy efficient new construction design assistance, information systems technology efficiency, food service technology, emerging technologies, climate change programs, demand response, the California Solar Initiative and Self Generation Incentive programs.

Speakers:
Fred Harris, Assistant Vice Chancellor for of College Finance & Facilities Planning, CCC System Office
Mike Miller, Director of Facilities Planning and Management, Butte-Glenn Community College District
José Nuñez, Vice Chancellor, Facilities Planning and Operations, San Mateo County Community College District
Bob Bradshaw, Construction Program Manager, Citrus College
Ron Beeler, District Director of Facilities Control, North Orange County Community College District
Lisa Hannaman, Account Executive, Southern California Edison

Friday, August 1, 10:45am–12:15pm
Architecture, Bldg. 05, Rm. 105

Community Partnerships

“California is filled with colleges and Universities who typically work in their own silos. Butte Community College and CSU Chico are breaking out of that model and have been collaborating on campus events, curriculum development and community outreach. The collaborative efforts between their students, staff, faculty and administrators have led them sustainable programming and National recognition. This session will also discuss UC San Diego’s “Greenovations Forum,” which allows community members to engage in the sustainable progress happening on UC San Diego’s campus. The session will explore how to create collaborative relationships between colleges and communities and why these relationships are effective and important.”

Moderator:
Jennifer Alvarez, Green Campus Program Associate, Alliance to Save Energy

Speakers:
Kelly Munson, Advisor, Student Activities, Associated Students & Sustainability Projects, Butte College
Kristin Blackler, Sustainability Analyst, Environment and Sustainability Initiative, UC San Diego
Mark Stemen, Ph.D., Professor, Geography and Planning, CSU Chico

Saturday, August 2, 2008, 8:00am–9:15am
Ag. Engineering, Bldg. 03, Rm. 123
Micro-Workshops  
Saturday, August 2, 2008, 2:30pm–5:00pm

The Organic Connection: Cal Poly Organic Farm & Compost Unit

Come see organic farming in action! This workshop will give participants an opportunity to experience a working campus-based compost facility and organic farm. We will begin by touring the Cal Poly Compost Unit, which processes much of the campus' animal manures and food waste. This will include a discussion of the biological processes involved in the composting process, and the importance of finished compost in keeping agricultural soils fertile. Participants will assess a variety of compost methods. A visit to the Cal Poly Organic Farm will include tours of production areas, a unique ‘festival circle’, a children's garden, strawbale building, greenhouse, habitat areas, and an explanation of key Farm programs such as the annual Community Supported Agriculture (CSA) program, and Organic Enterprise class for students. The Farm's 'foodshed cooperative' marketing program will be highlighted, in which local organic farms participate in the CSA program.

Speakers:
Hunter Francis, Co-Founder, Program Associate, Sustainable Agriculture Resource Consortium, Cal Poly, San Luis Obispo
Steven Sherman, Instructional Support Technician, Farm Operations, Cal Poly, San Luis Obispo

Meet at Ag. Engineering, Bldg. 08, Rm. 123; The Workshop Will Continue on to the Cal Poly Organic Farm from There

Biodiesel: A Closer Look

Shirley Johnson will investigate the current debate regarding biofuels, such as the differences between ethanol and biodiesel. Shirley’s presentation will be a robust investigation of biodiesel and the issues associated with biofuel. Currently, biofuels are getting a lot of attention in the media. To mention a few of the issues: debate of food verses fuel, appropriate land use for growing feedstock, and biodiesel quality. The question is: to what extent is biofuel driving up the price of soybean and corn? The direct competition for food versus fuel has never been seen before. The social justice aspects of biofuels are in question. Shirley will address these issues in her presentation.

Speaker:
Shirley Johnson, Graduate Student, Hutchins Institute for Public Policy and Community Action, Sonoma State University

Performing Arts Center (PAC), Bldg. 06, Rm. 124
The California State University (CSU) System is the largest and most diverse university system in the United States; it generates $7.46 billion in direct economic activity. To date, no studies have attempted to systematically assess the environmental effects of all the campuses of the CSU system, or its systemwide priorities, however. The UC/CSU/CCC sustainability conference provides an opportunity to initiate a multiple case-study approach that will highlight current successes, and critical opportunities for near-term improvement, in campus sustainability across all the CSU campuses. In this session, San Jose State University (SJSU) faculty will present results from 3 years of studies of campus sustainability at CSU institutions, focusing finally on SJSU itself. As part of this session, the organizers would like to invite faculty from other CSU campuses to share case study approaches and data they have collected in order to develop comparative datasets and methodologies for more systematic analysis into the future.

Speakers:
Katherine Cushing, Associate Professor, Chair, Environmental Studies, San Jose State University
Rachel O’Malley, Associate Professor, Chair, Environmental Studies, San Jose State University
Bruce Olszewski, Lecturer, Environmental Studies, Director, Center for the Development of Recycling, San Jose State University

Managing Riparian Systems in the Ag-Urban Interface—Demonstration Site Tour

This session offers a demonstration of “on the ground” implementation of Best Management Practices (BMPS) for Stormwater. The field tour will comprise of an overview of the project, field visit/tour of restoration area and implementation of erosion control methods at the campus’ Red Rock Pit (gravel mine). Attendees will hike into Poly Canyon along Brizzolara Creek to the riparian restoration area and red rock pit.

Speakers:
Kim Busby, Water Quality Management Specialist, Cal Poly, San Luis Obispo
Doug Overman, Associate Director, Facility Services, Cal Poly, San Luis Obispo
Tryg Lundquist, Ph.D., P.E., Assistant Professor, Civil and Environmental Engineering, Cal Poly, San Luis Obispo
Micro-Workshops
Saturday, August 2, 2008, 2:30pm–5:00pm

Applied Holistic Management—Decision Making for a Sustainable Future

Cal Poly faculty will share different concepts of holistic management – a decision making framework that has evolved to create sustainable communities. Attendees will participate in a hands-on approach as the ecosystem processes are monitored. Changes in the landscape will be observed as a result of holistic management – a process of making decisions regarding the uses of various tools (fire, technology, grazing, animal impact, small organisms) – in various ways. Examples will be shared regarding alternative enterprises on the land such as agro-tourism, farm stays, guided hunts as well as the use of the holistic management approach to estate transfer and strengthening family relationships. The presentation will include techniques of marketing the results of holistically managed lands, creating synergy between groups with historic animosity, and creating community dynamics that work. Also to be addressed will be the use of holistic management in cropping and non-agricultural land management.

Speakers:
Robert Rutherford, Animal Science, Cal Poly, San Luis Obispo
John Phillips, Professor, Horticulture and Crop Science, Cal Poly, San Luis Obispo

The Presidents Climate Commitment: Good Intentions, Real Obstacles, and Possible Solutions

Over 450 chancellors and presidents have signed the Presidents Climate Commitment. This was done with the best intentions, and with the strong encouragement of students, staff, faculty, and facilities staff; it feels like the right thing to do. However, making the commitment and implementing a program that meets its goals represent two very different tasks. This workshop will review current programs for addressing the climate challenge; identify their many obstacles; and explore strategies for overcoming these obstacles and achieving carbon neutrality. The format for this workshop will be simple. A matrix based on the most common issues and their possible solutions will be reviewed. In addition to our own information, we will use data collected from a handful of institutions as a guide. During the workshop, which will include the participation of key Signatories, we will solicit additional input from attendees regarding the solutions they have developed. This will be a highly interactive session. Issues and solutions will be recorded at the meeting and results will be distributed to participants.

Speakers:
Pauline Souza, AIA, LEED™ AP, Associate Partner & Director of Green Services, WRNS Studio
Mitch Fine, AIA, LEED™ AP, Associate Partner, WRNS Studio
Caitlin Fager, Recycling Coordinator, Facilities Department, San Francisco State University
Lisa McNeilly, Director of Sustainability, Office of the Vice Chancellor of Administration, UC Berkeley
Genevieve Bertone, Sustainability Coordinator, Santa Monica College
Micro-Workshops
Saturday, August 2, 2008, 2:30pm–5:00pm

Strategic Sourcing and Sustainability: Promoting Sustainable Practices in the Marketplace

In 2004, sustainability requirements on products and practices of suppliers were included in UC system-wide bids and contracts. Learn how the language was developed and how input from students, staff and faculty was utilized. Hear about UC’s existing contracts and what sustainable products are offered. We will discuss the importance of pricing on buying patterns and how campuses utilize e-procurement to promote selection of sustainable products. Finally, this session will include a presentation on tracking and reporting methods, and on preliminary results.

Moderator:
Lesley Clark, Commodity Manager, Strategic Sourcing, UC office of the President

Speakers:
Haggai Hisgilov, Executive Director, Strategic Sourcing, UC Office of the President
Saskia Van Gendt, Green Building and Resource Conservation, Environmental Protection Agency

Business, Bldg. 03, Rm. 111

Community Conversation on Social Equity in the Campus Environment

Join us for a conversation on the challenges and possibilities for addressing social equity on campus. How do we garner participation from broader constituencies given the existing structure of the university and its potential for evolution? What forms of leadership promote equity and how do we build coalitions across the historic divides between environmental and social movements? How do we communicate about social equity in a way that creates collaboration rather than deeper divisions? Community Conversations harness the collective intelligence of a group, and foster mutual understanding and new insights by honoring and expanding our appreciation of diversity in all dimensions.

Speaker:
Hina Pendle, Ph.D., Co-Founder, Foundation of Sustainable Living

Business, Bldg. 03, Rm. 112
Micro-Workshop & Meetings
Saturday, August 2, 2008, 2:30pm–5:00pm

Energy Design Resources (EDR) Summit 2008

With support from the four major California utilities, the goal of this Energy Design Resources (EDR) summit is to broaden energy efficiency and sustainability efforts among educators and students at the university level across the state of California. The meeting will present the opportunity for discussion and information sharing among members of the academic community to increase awareness, foster collaboration, and brainstorm opportunities, which encourages energy efficiency and sustainability in education. A new EDR program will be announced for funding educator/student projects in these areas.


Saturday, August 2, 2:30–5:00pm
CANCELLED

FOCUS California: Student Challenge

Saturday, August 2, 5:30–7:30pm
University Union, Bldg. 65, Rm. 205 (Chumash Auditorium)
PIER Technology Seminar + Tours

Achieving Your Sustainability, LEED™ and Energy Goals with PIER Technologies

This presentation will cover how decision makers can implement innovative PIER technologies to meet their LEED™ and sustainability goals. The results from over 50 field demonstrations at UC, CSU, and CCC facilities will illustrate the potential operational, maintenance, and environmental savings impacts statewide. In addition, product performance specifications for new construction and renovation projects, strategic procurement, new “smart” bi-level exterior lighting products, and successful implementation of PIER technologies throughout the university systems will be presented.

The goal of these activities is to accelerate the implementation of new technologies in order to achieve the highest levels of savings goals and sustainability. This panel will also coordinate multiple campus walking tours of energy efficient PIER technologies planned for the 2008 conference. The 45-minute presentation will be followed by a 30-minute Q&A panel session to encourage interactive participation from the audience.

Saturday, August 2, 9:30–10:45am
Architecture, Bldg. 05, Rm. 105

PIER Technologies Tours

The California Energy Commission’s PIER Program will host 45 minute, walking tours of innovative lighting and HVAC products that are installed on Cal Poly’s campus. This tour will address office, classroom, and dormitory interior applications, bi-level parking lot and pedestrian systems, as well as HVAC efficiency and food service ventilation equipment. Attendees will be provided with information about the technologies’ proven performance, savings potential, specification process, LEED™ opportunities, and economic impact in diverse campus applications. Tour times for open attendance are listed below.

Thursday, July 31, 3:45pm–5:00pm
Friday, August 1, 3:30pm–4:15pm and after the awards dinner
Saturday, August 2, 10:45am–11:30am

Tours depart from Mott Gym, Bldg. 42