



BUILDING CONFIDENCE: FROM SUSTAINABLE POLICY TO PRACTICE

University of California, Santa Barbara
SUNDAY, JUNE 20 – WEDNESDAY, JUNE 23, 2004

With the implementation of new clean energy and “green” building policies and the redefinition of design, construction, and operation bottom lines, forward-thinking institutions are pursuing integrated strategies that use social and environmental issues as core competitive advantages. The new 21st-century goal is to develop environmentally responsible, energy-efficient facilities that promote architectural excellence, provide healthier settings for worker productivity, and are resource-efficient while incorporating smart infrastructure for continued operations.

This conference will help participants explore ways to improve design, operation, and maintenance of their multiple building settings. In striving to ensure efficient use of energy, we will look at best practice examples for how to best design our buildings to provide high-quality low-energy lighting, minimize energy use in the provision of comfortable indoor environments, and efficiently provide other energy services. By thinking of our campuses as integrated systems and looking for opportunities to monitor and optimize these systems, we save not only up front cost on equipment, but the daily energy bill as well.

From June 20 - 23, 2004, the University of California, Santa Barbara is hosting the third annual conference entitled *Building Confidence – From Sustainable Policy to Practice*, including pre- and post-conference workshops. This conference will provide a forum demonstrating progress in energy efficiency and sustainable development, and strategies for incorporating policies into institutional practices. The conference aims to challenge, motivate and educate public and private universities and institutions with regard to best energy efficiency strategies, sustainable building, transportation and purchasing practices and new policies, and to establish information cooperative among these institutions. The conference sessions are designed to be interactive, facilitating the opportunity for dialogue with the speakers and other members in attendance.

Based on the success of our last conference in Merced and the valuable pre- and post-conference training workshops for LEED™ and Labs21, we anticipate at least 350 participants from the University of California (all ten campuses), the California State University system, the California Community College system, other higher education institutions, government agencies, the private sector, and NGOs. We hope that with this training, California’s higher education institutions will be ready to take the next big steps in creating more energy-efficient communities incorporating sustainable practices on a grander scale.

In order to provide practical assistance in complying with the new UC Green Building and Clean Energy Policy, we have created a large number of sessions to include information on related subjects. Many of these sessions include examples of reproducible projects that have been implemented around the UC, CSU and Community College Systems. These sessions are designated in the agenda as “Policy to Practice.”

Both UC and CSU employees are eligible to apply for funding in support their registration fees and dorm housing to attend the conference as many of the sessions are part of the Training and Education efforts that have been initiated through the new CPUC-funded UC/CSU/IOU Energy Efficiency Program. Sponsorship provided by UC/CSU/PG&E/SCE/ SDG&E/Southern California Gas is funded by California ratepayers under the auspices of the California Public Utilities Commission.

PRE-CONFERENCE WORKSHOPS – SUNDAY, JUNE 20, 2004

I. 8 am-5 pm LEED™ NC Intermediate Workshop – Bren Hall 1424

The LEED™ Green Building Rating System is a comprehensive, voluntary design and assessment tool that helps architecture; engineering and construction professionals improve building efficiency, and measure the sustainability of their projects. Understanding LEED™ is an important step for reducing environmental impacts and achieving superior economic performance. Architects, engineers, facility managers and building owners who master LEED™ concepts and processes become knowledgeable practitioners and consumers of green design and construction.

For more information about this workshop, please visit <http://www.bren.ucsb.edu/news/events/LEEDIntermedWorkshopFlyer.pdf>

II. 1:30-5:00 Labs21 Environmental Performance Criteria: Toward LEED™ for Labs Bren Hall 1414 - Preregistration Required by June 13

This half-day seminar will present information on the Laboratories for the 21st Century (Labs21) Environmental Performance Criteria (EPC), a point-based rating system to assess the environmental performance of laboratories. The EPC builds on the LEED™ rating system by adding credits and prerequisites pertaining to laboratories. The EPC is being used as a basis for the LEED™ Application Guide for Laboratories (LEED™ for Labs) that is currently under development by the U.S. Green Building Council. This seminar will:

- Describe the EPC credits, including requirements, technologies, and strategies.
- Share examples of technologies and strategies implemented in Labs21 case studies.
- Demonstrate how to use the Labs21 Toolkit to support sustainable design (a CD with the toolkit will be distributed).
- Provide an update on LEED™ for Labs development status.
- Discuss implications for UC policy and practice.

For more information about the Labs21 EPC, please visit <http://www.labs21century.gov/toolkit/epc.htm>

SCHEDULE

PRE-CONFERENCE LEED & Labs 21 WORKSHOPS – SUNDAY, JUNE 20, 2004

Time	Location	Session Title	Speakers
7:00-8:00 am	Bren Hall 1424	Speakers' Set-Up and Training Preparation	
8:00-8:30	Bren Hall 1424	LEED NC Intermediate Workshop Registration/ Check-In and Continental Breakfast	
8:30-10:30	Bren Hall 1424	Introduction to the USGBC and LEED resources	
10:30-10:45	Bren Hall Courtyard	Coffee Break	
10:45-12:30 pm	Bren Hall 1424	Technical Review, Part I	
12:30-1:15	Bren Courtyard	Lunch	
1:15-3:00	Bren Hall 1424	Technical Review, Part II	
3:00-3:15	Bren Hall Courtyard	Break/Refreshments	
3:15-5:00	Bren Hall 1424	LEED Process -- Integrating LEED into Practice	
5:00 pm	Bren Hall 1424	Workshop Ends/Q & A	
11 am-8 pm	Anacapa Hall Formal Lounge	Labs 21: Toward LEED for Labs Workshop Registration and Check-In	
1:30-3:15 pm	Bren Hall 1414	Labs 21 workshop begins	
2:00-7:30	Anacapa Hall Formal Lounge	Computer help for conference speakers (<i>downloading of presentations</i>)	
3:00-3:15	Bren Hall Courtyard	Break	
3:15-5:00	Bren Hall 1414	Labs 21 workshop continues and concludes	
5:45-6:45	Ortega Commons	Dinner (<i>please wear your name badge</i>)	
6:45-7:45	Depart from Anacapa Lounge	Bioswale Tour	
6:45-7:45	Depart from Anacapa Lounge	Bren Hall Tour	
7:30-9:30	Anacapa Hall Formal Lounge	Mixer	

CONFERENCE DAY ONE – MONDAY, JUNE 21, 2004

Time	Location	Session Title	Speakers
7:30 am-noon	UCEN Corwin Pavilion Lobby	Registration/Information	
7:30-9:00	UCEN Lagoon Plaza	Continental Breakfast	
8:45-9:05	UCEN Corwin Pavilion	Welcome	
9:05-10:45	UCEN Corwin Pavilion	Keynote	Bob Berkabile-BNIM Architects Mary Nichols-UCLA Tylor Middlestadt-Student, Cal Poly SLO Marcia Winslade-UCSC Student
10:45-11:00	UCEN Lagoon Plaza	Coffee Break	
11:00-12:30 pm	<i>Policy to Practice</i> UCEN Corwin Pavilion	What are the new green building and clean energy policies and how are the various campuses responding?	Michael Bade-UCOP Maric Munn-UCOP Matt St. Clair-UCOP Mona Field-LACCD Elvyra San Juan-CSU
11:00-12:30	UCEN Flying A Room	Sustainability Indicators	Dean Kubani-City of Santa Monica, Env. Programs Division Josh Skov-Good Company Garrett Fitzgerald-UCB Graduate Student
11:00-12:30	<i>Policy to Practice</i> UCEN State Street Room	What Does it Cost to be Green? Including the cost of energy-efficient design	Lisa Fay Mattheissen-Senior Associate, DLA Peter Morris-DLA Barbara Van Gee-CIWMB
11:00-12:30	UCEN Harbor Room	Integrated Pest Management and Landscaping	Phil Boise-IPM Jon Cook-UCSB Nita Davidson-DPR
11:00-12:30	UCEN Lobero Room	Acoustics	Dennis Paoletti, FAIA, FSMPS David Lubman & Louis C. Sutherland-FASA Acoustical Consultants
12:30-1:45	Anacapa Back Lawn	Lunch and Keynote	Matt Murray-UC Regent George Pernsteiner-Vice Chancellor, UCSB
2:00-3:30	UCEN Flying A Room	Sustainability Indicators	Dean Kubani-City of Santa Monica, Env. Programs Division Josh Skov-Good Company Garrett Fitzgerald-UCB Graduate Student
2:00-3:30	<i>Policy to Practice</i> UCEN Harbor Room	Energy Performance Monitoring	Tim Ball-CSULB Mary Ann Piette-LBL
2:00-3:30	UCEN State Street Room	Green Manufacturing & Products/Life Cycle Assessment	Kristen Ritchie-Scientific Certification Systems
2:00-3:30	<i>Policy to Practice</i> UCEN Lobero Room	What are the new green building and clean energy policies and how are the various campuses responding?	Michael Bade-UCOP Maric Munn-UCOP Matt St. Clair-UCOP Mona Field-LACCD Elvyra San Juan-CSU
2:00-3:30	UCEN Corwin Pavilion	Data Repository: Web-Based Data Sharing	Art Chen-California Community College Foundation Kathy Roach-MurphyTate, LLC John Roach-Foundation for California Community Colleges
3:30-4:30	UCEN Lagoon Plaza	VENDOR DISPLAY and Refreshments	
4:30-6:00	<i>Policy to Practice</i> UCEN Lobero Room	Best Practices: LEED NC -- energy efficiency, IEQ, and costs	Gary Dahl-UCD Perrin Pellegrin-UCSB Craig Greenough-DPR Construction Inc.
4:30-6:00	UCEN State Street Room	Institutionalizing Sustainability Sustainability Committees	Lisa Bauer & Judy Chess-UCB Coleen Douglas-UCSC Mo Lovegreen-UCSB Vahram Massehian-UCSF
4:30-6:00	<i>Policy to Practice</i> UCEN Harbor Room	Energy Performance Monitoring	Tim Ball-CSULB Mary Ann Piette-LBL
4:30-6:00	UCEN Corwin Pavilion	Indoor Air Quality	Steve Taylor-Taylor Engineering
4:30-6:00	<i>Policy to Practice</i> UCEN Flying A Room	Purchasing Practices within the Institution -- Including energy-using equipment	Thomas Cooper-Kaiser Permanente Stuart Davis-UCOP
6:15-6:45	Anacapa Back Lawn	Reception	
6:45-8:00	Anacapa Back Lawn	Dinner and Keynote	Chuck Angyal-Sempra
8:00-9:00	Anacapa Formal Lounge	Campus Round Table -- UC	Panel discussion
8:00-9:00	Anacapa Classroom	Campus Round Table -- CSU	Panel discussion
8:00-9:00	Anacapa Student Lounge	Campus Round Table -- CC	Panel discussion

CONFERENCE DAY TWO – TUESDAY, JUNE 22, 2004

Time	Location	Session Title	Speakers
7:30-8:30 am	UCEN Lagoon Plaza	Continental Breakfast	
8:30-10:00	<i>Policy to Practice</i> UCEN Flying A Room	Best Practices: Commissioning -- Including energy systems	Tom Garrison-Sundt Construction James Weiner-Greenworks Steve Taylor-Taylor Engineering Chad B. Dorgan-P.E., Ph.D., CAP, Director, Farnsworth Group, Inc.
8:30-10:00	<i>Policy to Practice</i> UCEN Harbor Room	Best Practices: Green Building	Bharat Patel- LACCD Dennis Graham & Greg Francis-CSU Chico Susan McComb-Bar Architects Roderick F. Wille-Turner Construction Dave Deppin-Van der Ryn Architects
8:30-10:00	UCEN Corwin Pavilion	Transportation/Parking/Alternative Transportation	Bert Kronmiller-Sunline Transit David Damiano-MTD Matt Murray-UC Regent Arjun Sarkar-UCSB
8:30-10:00	UCEN Lobero Room	Water Management/Practical Applications: first use, re-use, and wastewater	Owen Dell-County Landscape & Design Bill Wilson-Environmental Planning & Design Ryan Buckley-UCB Student
8:30-10:00	UCEN State Street Room	Post-occupancy evaluations and how this can contribute to "lessons learned"	Cheryl Fuller-Principal, Fuller, Coe & Associates Jim Ogden-3D/International
10:00-11:00	UCEN Lagoon Plaza	VENDOR DISPLAY and Coffee Break	
11:00-12:30 pm	<i>Policy to Practice</i> UCEN Flying A Room	Best Practices: Savings by Design -- Statewide energy efficiency incentive program	Janith Johnson-SCE Gerry White-UCSD & Chuck Poindexter-Sempra Cynthia Hughes-UCM David Gonzales-UCSB
11:00-12:30	UCEN Lobero Room	Water Management/Practical Applications: first use, re-use, and wastewater	Owen Dell-County Landscape & Design Bill Wilson-Environmental Planning & Design Ryan Buckley-UCB Student
11:00-12:30 pm	<i>Policy to Practice</i> UCEN Corwin Pavilion	Solar Energy Case Studies	John Rolle-UCB Zack Gentry-UCB Student Randy Gale-CSU Hayward Tom Brown-CSU Northridge
11:00-12:30	UCEN Harbor Room	Best Practices: LEED EB -- Including energy efficiency and indoor environmental quality	Craig Sheehy-Cal EPA bldg., Thomas Properties Group Barry Giles-MLML Daniel Roberts-Keen Engineering
11:00-12:30	UCEN State Street Room	Construction Waste Diversion	Dan Burgoyne-DGS Ann Ludwig-Alameda County Waste Management Authority Alec Cooley-Humboldt State University
12:30-1:45	Anacapa Back Lawn	Lunch and Keynote	Tom Jones, Dean, Architecture and Environment, Cal Poly
2:00-3:30	UCEN Corwin Pavilion	Best Practices: LEED EB -- Including energy efficiency and indoor environmental quality	Craig Sheehy-Cal EPA bldg, Thomas Properties Group Barry Giles-MLML Daniel Roberts-Keen Engineering
2:00-3:30	<i>Policy to Practice</i> UCEN Harbor Room	What Does it Cost to be Green? Including the cost of energy-efficient design	Lisa Fay Matthiessen-Senior Associate, DLA Peter Morris-DLA Barbara Van Gee-CIWMB
2:00-3:30	<i>Policy to Practice</i> UCEN Lobero Room	Solar Energy Case Studies	John Rolle-UCB Zack Gentry-UCB Student Randy Gale-CSU Hayward Tom Brown-CSU Northridge
2:00-3:30	UCEN State Street Room	Green Manufacturing & Products/Life Cycle Assessment	Kristen Ritchie-Scientific Certification Systems
2:00-3:30	<i>Policy to Practice</i> UCEN Flying A Room	Best Practices: Savings by Design -- Statewide energy efficiency incentive program	Janith Johnson- SCE Gerry White-UCSD & Chuck Poindexter-Sempra Cynthia Hughes-UCM David Gonzales-UCSB
3:30-3:45	UCEN Lagoon Plaza	Break/ Refreshments	
3:45-5:30	UCEN Corwin Pavilion	Pulling It All Together	Bob Berkebile-BNIM Architects
5:30		END OF CONFERENCE	
5:45-6:45	Ortega Commons	Dinner – FOR CONTINUING LABS 21 REGISTRANTS ONLY	
6:45-7:45	Depart from Anacapa Residence Hall	Bioswale Tour	
6:45-7:45	Depart from	Bren Hall Tour	

POST CONFERENCE LABS 21 WORKSHOP – WEDNESDAY, JUNE 22, 2004

Time	Location	Session Title	Speakers
7:00-8:00 am	Ortega Commons	Breakfast	
8:15	Bren Hall 1424	Labs 21 High Performance/Low Energy Design Course check in	
8:30-11:00	Bren Hall 1424	Labs 21 training begins	
11:00-11:15	Bren Hall Courtyard	Coffee Break	
11:15-12:45 pm	Bren Hall 1424	Labs 21 training continues	
12:45-1:30	Ortega Commons	Lunch	
1:30-3:15	Bren Hall 1424	Labs 21 training continues	
3:15-3:30	Bren Hall Courtyard	Break/ Refreshments	
3:30-5:00	Bren Hall 1424	Labs 21 training continues	
5:00	Bren Hall 1424	Labs 21 training ends	

POST-CONFERENCE WORKSHOP – WEDNESDAY, JUNE 23, 2004

POST-CONFERENCE LABS 21 TRAINING —

Wednesday, June 23, 2004

8:30 a.m. - 5 p.m.

Bren Hall 1424

Pre-registration Required by June 13

Labs21 High Performance, Low-Energy Design Course

This course helps lay the foundation for a new generation of laboratories. Join us for a dynamic one-day course that introduces sustainable design strategies for new and existing laboratories. Topics include:

- The architecture and engineering of high performance labs
- The energy efficient design process
- Commissioning
- Green design, emerging rating systems, and benchmarking
- Laboratory exhaust systems
- Case studies and tools

Taught by experienced laboratory designers, energy managers, and facilities professionals, the course is hosted by local organizations around the country. Course size is limited, so please register early.

For more information, including the full course schedule and details on registration, please visit <http://www.labs21century.gov/training/designcourse>

The course was designed and developed by Labs21, a voluntary partnership program sponsored by the U.S. Environmental Protection Agency and the U.S. Department of Energy to improve the environmental performance of our nation's laboratories.

The deadline to register for the conference and workshops was Sunday, June 13.

If you need assistance, please e-mail kathys@icess.ucsb.edu