

## Webcast Schedule

Time	Monday, June 22, 2009	Track
8:00-9:00am	Welcome and Opening Plenary <i>(Translated into English Sign Language)</i>	Keynote
10:00-11:30am	A Professor, a Green Building Team, and Life-Cycle Costing	Green Building New Construction
	Innovative Technologies in Labs and Data Centers	Energy
11:45-12:15	PIER 50% Savings Solutions and Potential for a Zero Net Energy Recreational Center at UCSB	Sponsor Session
11:45-12:45	The CCC/IOU Energy Efficiency Partnership: Sustainability in Higher Education	Sponsor Session
2:15pm-3:30pm	Climate Action Planning	Institutionalizing Sustainability
	Overall Sustainable Design	Best Practice Awards
4:00-5:15pm	Student-Led Office Greening and Building Greening Programs	Green Building Operations, Maintenance, and Renovations
	HVAC Design and Retrofit	Best Practice Awards
Time	Tuesday, June 23, 2009	Location
8:30-9:30am	System-Wide Perspectives on Sustainability <i>(Translated into English Sign Language)</i>	Keynote
10:30-11:45am	Lighting Design and Retrofit and MBCx	Best Practice Awards
	Campus Sustainability Plans	Institutionalizing Sustainability
1:00-2:00pm	You CAN pull \$Millions out of thin air on your campus!	Sponsor Session
2:15-3:30pm	Examples of institutionalizing sustainability throughout all aspects of an organization	Institutionalizing Sustainability
	Demonstrated Energy Efficient Lighting and HVAC Technologies	Energy
3:45-5:00pm	Closing and Action-Planning Plenary <i>(Translated into English Sign Language)</i>	Keynote

## **Welcome and Opening Plenary**

Monday, June 22<sup>nd</sup>

8:00-9:00am

Campbell Hall

### *Speakers:*

**Ron Cortez**, Co-Chair, Chancellor's Campus Sustainability Committee, Associate Vice Chancellor, Administrative Services, UC Santa Barbara

**Bonnie Reiss**, Regent, University of California

**Dave Newport**, Director, Environmental Center, University of Colorado Boulder

### **Biographies:**

**Ron Cortez**, Co-Chair, Chancellor's Campus Sustainability Committee, Associate Vice Chancellor, Administrative Services, UC Santa Barbara

Ron Cortez was appointed as the Associate Vice Chancellor, Administrative Services, for UC Santa Barbara in March 2008. He oversees Business Services and Environmental Health and Safety Departments and leads campus efforts in sustainability and emergency planning. Prior to coming to UCSB, Mr. Cortez held positions with the County of Santa Barbara, including Deputy County Executive Officer, Acting Director of Planning and Development, Acting Director of Housing and Community Development, Director of General Services, and Deputy Director of Public Works.

**Bonnie Reiss**, Regent, University of California

Bonnie Reiss is one of the nation's leading authorities on environmental, education, public safety and public policy. Most recently, Ms. Reiss served as Senior Advisor to California Governor Schwarzenegger (2003-2007) and, in 2008, was appointed by the Governor to the University Of California Board Of Regents. She is an Operating Advisor with Pegasus Capital Advisors where she focuses on cleantech innovation.

**Dave Newport**, Director, Environmental Center, University of Colorado Boulder

Dave Newport was appointed Director, Environmental Center, University of Colorado Boulder, in December 2005. Dave's background is in environmental and sustainability research, teaching, publishing, and public service. At CU, Dave also teaches a Campus Carbon Neutrality Planning Course in the Environmental Studies Department, and he Chairs CU's Carbon Neutrality Working Group. He is active in national sustainability issues as Secretary of the Board of Directors for the Association for the Advancement of Sustainability in Higher Education.

## **A Professor, a Green Building Team, and Life-Cycle Costing**

Monday, June 22<sup>nd</sup>

10:00-11:30am

*Corwin Pavilion East, UCen*

A UC Davis professor will outline the role of an academic client, based on his experience with the exciting Brewery, Winery, and Foot Pilot building. A Stanford presenter will discuss an approach to cost-benefit analysis through an examination of the new Yang and Yamazaki Environment + Energy Building (Y2E2), a lab, a classroom, and an office building. The leaders of the UC San Francisco Green Building Team will discuss institutionalized steps taken within the Capital Programs unit to implement green building requirements on all projects.

*Speakers:*

**Susan Simpson**, Project Manager, Capital Programs and Facilities Management, UC San Francisco

**Patti Mitchell**, Senior Project Manager, Capital Programs and Facilities Management, UC San Francisco

**Fahmida Ahmed**, Manager, Sustainability Programs, Stanford University

**Roger Boulton**, Stephen Sinclair Scott Professor of Enology and Chemical Engineering, Viticulture and Enology, UC Davis

**Gary Dahl**, Director of Project Management, Office of Architects & Engineers, UC Davis

*Moderator:*

**Michael Bade**, Assistant Vice Chancellor, Capital Programs and Campus Architect, UC San Francisco

### **Biographies:**

**Fahmida Ahmed**, Manager, Sustainability Programs, Stanford University

Fahmida directs sustainability programs at Stanford. She co-chairs the sustainability Working Group, connects the Working Teams for key deliverables, supports Stanford's climate and infrastructure planning, and manages communications and education programs. Before joining Stanford, she served as the campus Sustainability Specialist at UC Berkeley and delivered Cal's climate target. Fahmida earned a BA in Economics from Smith College and an MA in Public Environmental Management from the Bren School at UC Santa Barbara. Her apprenticeships include positions in the BCDC, NOAA, and LBNL.

Prior to her career in sustainability, Fahmida worked in financial and high-tech services in the Bay Area.

**Michael Bade**, Assistant Vice Chancellor, Capital Programs and Campus Architect, UC San Francisco

Mr. Bade is a California registered architect and Interim Assistant Vice Chancellor - Capital Programs and Campus Architect - at UC San Francisco, with oversight responsibility for roughly 140 capital projects and a program commitment of over \$800 million. In addition to UCSF, Mr. Bade also worked in the University President's office, providing coordination and oversight services for projects system-wide. Mr. Bade has an M. Arch and a BS from UC Berkeley.

**Gary Dahl**, Director of Project Management, Office of Architects & Engineers, UC Davis

Gary Dahl is Director of Project Management at the office of Architects & Engineers at UC Davis. UC Davis currently has 15 LEED™ projects in design or under construction, including its second Platinum project and three projects targeting Gold.

**Patti Mitchell, LEED™ AP**, Senior Project Manager, Capital Programs and Facilities Management, UC San Francisco

Patti Mitchell is a CA licensed architect and LEED™ AP. She has been with UC San Francisco since 2004 and is actively involved with the green building committees at the Office of the President, Campus and Capital Program levels.

**Susan Simpson, LEED™ AP**, Project Manager, Capital Programs and Facilities Management, UC San Francisco

Susan Simpson is a CA licensed architect and LEED™ AP. She has been a UC San Francisco Project Manager for 8 years. Prior to UCSF, she was a Project Manager at UC Berkeley, Wells Fargo Bank, and the SF Unified School District.

### **Innovative Technologies in Labs and Data Centers**

Monday, June 22<sup>nd</sup>

10:00am-11:30am

*Corwin Pavilion West, UCen*

Laboratories and data centers are among the most energy-intensive buildings found on university campuses. Efficiency has often been overlooked because it is falsely assumed that there is very little that can be done in this specific classification of buildings. Case studies from Stanford University and Lawrence Berkeley National Laboratories will

demonstrate how to utilize innovative technologies to reduce energy use in labs and data centers.

*Speakers:*

**Paul Mathew**, Staff Scientist, Lawrence Berkeley National Laboratory

**Dale Sartor, PE**, Program Manager, Building Technologies Applications Team,  
Lawrence Berkeley National Laboratory

**Susan Kulakowski-Vargas**, Demand-Side Energy Manager, Capital Facilities, Stanford University

*Moderator:*

**Ann McCormick, LEED TM AP** Principal, Newcomb | Anderson | McCormick,  
CCC/IOU Partnership

**Biographies:**

**Susan Kulakowski-Vargas**, Demand-Side Energy Manager, Utilities, Stanford University

Susan leads and coordinates activities to reduce demand for energy at Stanford University. She manages energy retrofit programs, an electricity conservation incentive program, the annual winter break energy curtailment, and Sustainable IT initiatives. Prior to rejoining the university in 2001, Susan was a project manager with Energy Solutions, where she designed and administered non-residential energy efficiency programs. She has a BA in Public Policy from Stanford and earned her MS from the Energy and Resources Group at UC Berkeley.

**Paul Mathew**, *Staff Scientist, Lawrence Berkeley National Laboratory*

Paul Mathew is a Staff Scientist at Lawrence Berkeley National Laboratory, where he conducts applied research and market transformation activities on energy use in buildings. His current work is focused on energy efficiency and green design for laboratories and data centers, as well as energy benchmarking tools and techniques for commercial buildings. In addition to technical research and consulting, he also teaches courses on energy efficient design. He has a BA in Architecture, and a PhD in Building Performance and Diagnostics.

**Ann McCormick, LEED TM AP** Principal, Newcomb | Anderson | McCormick,  
CCC/IOU Partnership

Ann McCormick is a principal of Newcomb Anderson McCormick, a San Francisco based energy engineering and consulting firm that manages the UC/CSU/IOU and CCC/IOU Statewide Partnerships. Ann has been in the energy efficiency field for more

than 20 years and has an MA in Mechanical Engineering from the University of Wisconsin-Madison and a BA, also in Mechanical Engineering, from Michigan State University. She is a Registered Mechanical Engineer, a Certified Energy Manager, and a LEEDTM Accredited Professional.

**Dale Sartor, PE**, *Program Manager, Building Technologies Applications Team, Lawrence Berkeley National Laboratory*

Dale Sartor heads the LBNL Building Technologies Applications Team, which assists in the transfer of new and underutilized technology through project-focused multi-disciplinary teams. Mr. Sartor has an AB in Architecture and a master's degree in Business Administration and is a licensed Mechanical Engineer and General Building Contractor. He has over 30 years of experience in energy efficiency and renewable energy applications, including being a principal of an architecture and engineering company and as the head of LBNL's In-House Energy Management Program.

### **PIER 50% Savings Solutions and Potential for a Zero Net Energy Recreational Center at UCSB**

Monday, June 22

11:45 to 12:15 pm

Public Interest Energy Research Program solutions pave the way toward zero net energy buildings by reducing energy consumption 50-70% compared to traditional energy-efficiency measures. This presentation will highlight lighting and HVAC technologies successfully demonstrated at UC Santa Barbara. SCE, PIER and UCSB's preliminary retrofit energy model for the recreational center's move towards zero net energy will also be discussed.

#### **Speakers**

**Michael Seaman**, Contract Manager, California Energy Commission

**Cori Jackson**, Development Engineer, California Lighting Technology Center

**Alok Singh**, Manager, Design & Engineering Services, Southern California Edison

**Gary Jurich**, Assistant Director, Exercise & Sports Studies, UC Santa Barbara

#### **Moderator:**

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**Karl Johnson**, Research Coordinator, California Institute for Energy and the Environment

## **The CCC/IOU Energy Efficiency Partnership: Sustainability in Higher Education**

Monday, June 22nd

11:45 to 12:45pm

California Community Colleges have been very successful in achieving economic and environmental Sustainability through energy efficient construction and operation of facilities and showing how this translates to life-cycle cost savings that free up dollars for the classroom. This presentation showcases Community College Best Practices and the role that the CCC/IOU Partnership has played in helping campuses on this path.

### **Speakers:**

**Fred Harris**, Assistant Vice Chancellor, College Finance & Facilities Planning, CCC Chancellor's Office

**Bob Bradshaw**, Construction Program Manager, Citrus College

**Ron Beeler**, District Director, Facilities Planning and Construction, North Orange County Community College District

**Mike Miller**, Director, Facilities Planning and Management, Butte-Glenn Community College District

**Lisa Hannaman**, Account Executive, Southern California Edison

**Laura Wetmore**, Account Executive, Pacific Gas & Electric Co.

**Linh-Chi Hua**, Program Manager, San Diego Gas & Electric Co.

### **Biographies:**

**Fred Harris**, Assistant Vice Chancellor, College Finance & Facilities Planning, CCC Chancellor's Office

Fred Harris is Assistant Vice Chancellor of College Finance and Facilities Planning in the California Community Colleges Chancellor's Office. In that capacity he oversees the system's fiscal compliance responsibilities which ensure the appropriate expenditure of approximately \$4 billion in state funds annually for support of the largest postsecondary education system in the world. This includes updating the system's financial accounting requirements, collecting system wide fiscal information, and monitoring districts' financial condition. He also oversees the Facilities Planning and Utilization Unit, where he began his career in the Chancellor's Office in October 1997 as Administrator. That unit is responsible for the allocation of over \$1 billion annually in state local assistance and capital outlay funds to help provide the sustainable infrastructure necessary for student access and success at all 110 community colleges in California.

**Bob Bradshaw**, Construction Program Manager, Citrus College

As Construction Program Manager, Bob is responsible for the management and implementation of the Citrus College \$121 million construction bond program. The program funds the build-out of the District's Facility Master Plan: five new buildings, rehabilitation of several existing buildings, and numerous secondary effect projects. Bob has been with the District from the start of the program in January of 2005. Prior to his current position, Bob was Director of Construction Administration with TBP Architecture for 15 years representing numerous community college districts throughout the state. Bob has been in various positions in the construction industry in both the private and public sector for thirty seven years. In addition to his construction program responsibilities, Bob currently serves on the Management, Outreach and Training and Education teams in the CCC/IOU Partnership.

**Ron Beeler**, District Director, Facilities Planning and Construction, North Orange County Community College District

Ron Beeler is the District Director of Facilities Planning and Construction for the North Orange County Community College District. Ron has been with the District for 35 years and has responsibility for the District's Building Program. Ron is a long-time member of the CCC Association of College Business Officers (ACBO) Facilities Task Force, and represents the Community College System on the Division of the State Architect (DSA) Advisory Board. Ron is one of the original contributors to the development of the Field Act Collaborative and Alternative Processes. Ron also serves on the CCC/IOU Partnership Management Team and is a member of the steering committee for the CCC space inventory and condition database, FUSION. Ron prides himself with beginning his higher education in the Community College System with obtaining an AA Degree at Fullerton College. Ron holds both a Bachelor of Science and Master of Business Administration degrees from the University of La Verne in La Verne California.

**Mike Miller**, Director, Facilities Planning and Management, Butte-Glenn Community College District

Mike Miller is the Director of Facilities Planning & Management at the Butte-Glenn Community College District. He is responsible for campus safety, operations and services, and capital projects. He has been instrumental in completing approximately \$180 million of construction projects on the Butte and Chico campuses. All the current projects he has managed have been designed and constructed to be well under Title 24 requirements. He is currently managing two large construction projects (\$53 million) that are designed to achieve a LEED Gold rating. Mike was responsible for two large solar PV projects on the main Butte campus in two phases of approximately 900kW each. The campus electricity supply will be 50% solar by 2010. He is the co-chair of the Sustainability Steering Committee at Butte College and because of his leadership the college is holding its third annual Sustainability Conference in August of this year.

**Climate Action Planning**  
Monday, June 22<sup>nd</sup>

2:15pm-3:30pm

Corwin Pavilion East, UCen

We will explore the ways in which universities are creating and implementing Climate Action Plans. Representatives from UC Los Angeles will discuss how they engaged campus staff, faculty, and students in developing their climate action plan. CSU Northridge will discuss how their newly established Institute for Sustainability has aided in quantifying the campus ecological footprint, including undertaking an inventory of campus trees.

***Speakers:***

**Joshua Skov, MA, LEEDTM AP**, Principal, Good Company, Technical Support, Oregon University System

**Kristy Michaud**

**Nancy Kurland**, Assistant Professor, Management, CSU Northridge

**Erica Wohldmann**, Assistant Professor, Psychology, CSU Northridge

**Colin Donahue**, Associate Vice President, Facilities Development and Operations, CSU Northridge

**Diane S. Stephens**, Director of Academic Resources, Academic Resources and Planning, CSU Northridge

**Ashwani Vasishth**, Director, Institute for Sustainability; Assistant Professor, Urban Studies and Planning, CSU Northridge

**Tracy Dudman**, Senior Planner, Capital Programs, UC Los Angeles

***Moderator:***

**John Meyer**, Vice Chancellor, Resource Management and Planning, UC Davis

**Biographies:**

**Colin Donahue**

*Associate Vice President, Facilities Development and Operations, CSU Northridge*

Mr. Donahue has over 20 years of experience managing complex programs through all phases of planning, design, construction, and operation. He has guided the development of CSU Northridge's capital outlay program, including the \$407 million 1994 Northridge earthquake recovery. He managed a major master plan update that increased the campus

enrollment ceiling to 35,000 full-time equivalent students and laid the groundwork for sustainable campus growth over the next 30 years. Mr. Donahue currently oversees a staff of 300 and an annual operating budget of \$25 million and is responsible for CSUN's \$350 million capital outlay program.

**Tracy Dudman**

*Senior Planner, Capital Programs, UC Los Angeles*

Tracy Dudman is the Senior Planner for UC Los Angeles and one of six primary authors of the campus' Climate Action Plan (CAP). For the development of the CAP, she developed the outline and structure of the document, was responsible for writing several sections of the plan, and brought together the various pieces of information provided by team members, crafting that information into a single voice within a cohesive and easily understood document.

**Nancy Kurland**, *Assistant Professor, Management, CSU Northridge*

Nancy Kurland is an assistant professor of management at CSU Northridge. Her research focuses on strategic issues in sustainability. She is a founding member of CSUN's Green Core Planning team and teaches strategic leadership in sustainability. She's written over twenty articles and book chapters that have appeared in *Academy of Management Review*, *Business Ethics Quarterly*, *Business and Society*, *Human Relations*, the *Journal of Applied Social Psychology*, the *Journal of Organizational Behavior*, the *Journal of Public Administration Research and Theory*, *Organizational Dynamics*, *Organization Science*, and *The Information Society*, among others.

**John Meyer**, *Vice Chancellor, Resource Management and Planning, UC Davis*

John Meyer is the Vice Chancellor of Resource Management and Planning at UC Davis. This office includes Budget and Institutional Analysis, Capital Planning, Campus Planning, Architects & Engineers, Facilities Management, the UC Davis Arboretum, and the newly established Environmental Stewardship and Sustainability program. The office is also responsible for the West Village project, which will be the nation's first mixed-use community to generate all of its energy needs through clean sources, including a biogas digester, solar arrays, and hydrogen fuel cells, using a new smart grid.

**Joshua Skov**, *Principal, Good Company, Technical Support, Oregon University System*

Skov leads Good Company's higher education practice. He is the Oregon University System's technical support and outreach consultant for the Climate Action Planning effort. He has assisted in the development of the plan's foundation, and he has educated the campuses' facility and administrative staff through workshops on specific climate action indicators and opportunities. Skov assisted OUS in understanding how the challenge of sustainability relates to our organization. Skov is an adjunct instructor in the

Department of Planning, Public Policy, and Management at the University of Oregon. For the past two years, he has taught courses in sustainable business at UC San Diego.

**Diane S. Stephens**

*Director of Academic Resources, Academic Resources and Planning, CSU Northridge*

Diane S. Stephens has over 15 years of experience in higher education. Ms. Stephens is responsible for budget planning and management, facilities planning and utilization, and staff human resources planning. She acts as administrative liaison for the Sustainability Institute and the Core Greening Team and coordinates a professional development series for over 150 leaders. Ms. Stephens holds an MBA from CSU Northridge and has completed the Harvard University Graduate School of Education Management Development Program, the Western Association of College and University Business Officers Business Management Institute program, and the Society for College and University Planning Institute program.

**Erica Wohldmann**

*Assistant Professor, Psychology, CSU Northridge*

Erica Wohldmann is a member of the Institute for Sustainability. She received a PhD from the University of Colorado Boulder. Her research is aimed at understanding the relationship between learning, memory, and decision-making with respect to food choices and sustainability. She has taught a variety of classes related to cognitive psychology and cognitive neuroscience. Within the CSUN Greening Project, she has taken the lead in Food System Planning and is overseeing the establishment of a weekly Farmers Market on campus.

**Ashwani Vasishth**

*Director, Institute for Sustainability; Assistant Professor, Urban Studies, CSU Northridge*

Ashwani Vasishth is Director of the Institute for Sustainability at CSU Northridge and an Assistant Professor in the Department of Urban Studies and Planning. He has a PhD from the University of Southern California and a master's degree from MIT. He currently teaches courses across a range of fields within the planning domain, from within a sustainability framework.

**Overall Sustainable Design, Best Practice Award Winners**

*Monday, June 22<sup>nd</sup>*

*2:15-3:30pm*

*Corwin Pavilion West, UCen*

**Summary:**

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. Cal Poly San Luis Obispo will present on its Center for Sciences building design and UC Davis will present on the Veterinary Medicine 3B project.

**Speakers:**

- **Larry Eisenberg**, Executive Director, Facilities Planning and Development, Los Angeles CCD
- **Barbara Queen**, AIA, Project Architect, Facilities Planning & Capital Projects, Cal Poly San Luis Obispo
- **Peter Rumsey**, PE, Managing Principal, Rumsey Engineers
- **Ted A. Hyman**, AIA, LEED AP, *Managing Partner, Zimmer Gunsul Frasca Architects LLP*
- **Bill Starr**, Senior Project Manager, Architects & Engineers, UC Davis

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

**Biographies:**

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

Larry H. Eisenberg is the Executive Director of Facilities Planning and Development for the Los Angeles Community College District. He directs a \$5.7 billion sustainable building and renewable energy program and oversees planning, facilities development, maintenance, and real estate. By 2014, the district's nine campuses will feature almost 100 new buildings that exceed the U.S. Green Building Council's LEED™ certified standards, including numerous "zero-energy" buildings. LACCD's renewable energy plan will ensure that the campuses will be energy independent by 2010.

**Ted A. Hyman**, AIA, LEED AP, *Managing Partner, Zimmer Gunsul Frasca Architects LLP*

Ted Hyman is managing partner of ZGF's Los Angeles office. He has led teams for many of the firm's most challenging and technologically complex projects, taking responsibility for programming, management, coordination, production, and construction administration. Having been involved in the design of a number of new engineering,

nanotechnology and bioscience facilities over the last two decades, Ted is knowledgeable about the latest concepts and innovations in laboratory buildings.

**Tara Lamont, AIA, LEED™ AP, Interim Director, Design & Construction Services, UC Office of the President**

Tara Lamont, AIA, LEED™ AP, is the Interim Director of Design & Construction Services for the UC Office of the President. As the Chair of the UC Green Building Working Group, she has worked with the campuses to develop their Campus Green Building Baselines and is involved with the certification of projects. Currently, with members of the Green Buildings Working Group, she is involved in developing standards for estimating GHG emissions for new construction and renovation projects.

**Barbara Queen, AIA, Project Architect, Facilities Planning & Capital Projects, Cal Poly State University**

Barbara Queen is a licensed Architect working with the Facilities Planning & Capital Projects department at Cal Poly San Luis Obispo. She is involved in project management for the University's Major Capital projects and is currently working with the Center for Science project. Barbara is regularly involved with the department's review and selection committees and is a participating member of the University's Physical Access Task Force.

**Peter Rumsey, PE, Managing Principal, Rumsey Engineers**

Peter Rumsey is the founder of Rumsey Engineers, the first engineering firm in the U.S. to achieve four LEED™ Platinum projects. He has designed mechanical systems for data centers, cleanrooms, and laboratories that are among the most energy efficient in the U.S. He is a certified energy manager, a Senior Fellow of Rocky Mountain Institute, and an ASHRAE Fellow. The focus of Peter's career has been transforming the building industry by designing affordable and dramatically energy efficient buildings.

**Bill Starr, Senior Project Manager, Architects & Engineers, UC Davis**

Bill Starr is an architect and a graduate of Cornell University who specializes in managing building projects with high environmental goals. He has managed the Vet Met Instructional Facility (on target for LEED™ Silver), the Tahoe Center for Environmental Sciences (LEED™ Platinum), and the Vet Med 3B Laboratory Building (on target for LEED™ Gold) and has supported many other projects in reaching their green building goals.

### **Student-Led Office Greening and Building Greening Programs**

Tuesday, June 23<sup>rd</sup>

4:00-5:15pm

Corwin Pavilion East, UCen

The Building Sustainability @ Cal Program trains and utilizes students to help reduce the environmental footprint of campus buildings by educating building inhabitants and identifying structural and operational changes that can be made to buildings and campus as a whole. PACES is designed to assess current office practices and formulate recommendations for improvements toward currently achievable sustainable office standards from student groups at UC Santa Barbara

*Speakers:*

**Sara Shirazi**, Student, UC Berkeley

**Lisa Bauer**, Manager, Campus Recycling and Refuse Services, UC Berkeley

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

**Irene Seliverstov**, Coordinator, Building Sustainability @ Cal, UC Berkeley

**Eli Krispi**, Intern, Ellison Hall Sustainability Committee, UC Santa Barbara; Masters Candidate, City and Regional Planning, Cal Poly San Luis Obispo

**Courtney Lyman**, Intern, Office of Sustainability, UC Santa Barbara

*Moderator:*

**Jack Powazek**, Associate Vice Chancellor for General Services, UC Los Angeles

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**Biographies:**

**Lisa Bauer,**

Manager, Campus Recycling and Refuse Services, UC Berkeley

Lisa Bauer has been involved in the recycling and solid waste field for the last 20 years, and in sustainability activities for the last 8 years. She has been the Campus Recycling and Refuse Manager at UC Berkeley for the last 11 years, and in addition to her day job, has co-chaired the Chancellor's Advisory Committee on Sustainability and has co-taught several classes on environmental sustainability.

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

As Assistant Director for Green Building Programs, Ms. Chess oversees integrating campus sustainability goals and green building measures into campus building projects. She serves on The Green Initiative Fund (TGIF) and the Chancellor's Advisory Committee on Sustainability and is the FS liaison to the Building Sustainability @ Cal program. Ms. Chess helped establish Berkeley's Office of Sustainability, the expanded

energy efficiency program, and the Green Classrooms and Construction Waste initiatives. Ms. Chess is a LEED™ AP and holds MAs in Landscape Architecture and City Planning from UC Berkeley and a BES from the University of Manitoba, Canada.

**Eli Krispi**, Intern, Ellison Hall Sustainability Committee, UC Santa Barbara; Masters Candidate, City and Regional Planning, Cal Poly San Luis Obispo

Eli Krispi is an intern with the interdepartmental Ellison Hall Sustainability Committee. He has helped to create and run the PACES sustainability assessment and improvement plan and the “Zero Waste: One Step Ahead” waste reduction campaign. Eli served as an officer with UCSB’s Environmental Affairs Board and is a student representative to The Chancellor’s Campus Sustainability Committee. He obtained degrees in Geography and Environmental Studies in June of 2009 and will attend Cal-Poly San Luis Obispo for City and Regional Planning in the fall.

**Courtney Lyman**, Intern, Office of Sustainability, UC Santa Barbara

Courtney Lyman recently graduated from the University of California, Santa Barbara with a degree in Political Science. She has become involved with the Office of Sustainability at UCSB in order to gain a broad understanding of sustainable methods. She has been a key member in the development of UCSB’s new PACES program and has assisted with the organization of this year’s Sustainability conference. She hopes to use her experience to get involved in Sustainable Development both locally and abroad.

**Jack Powazek**, Associate Vice Chancellor for General Services, UC Los Angeles

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Jack Powazek possesses over 34 years of progressively larger and more complex managerial responsibility in UC Los Angeles administration. He is currently Associate Vice Chancellor of General Services at UCLA, which includes the divisions of Facilities Management, EH&S, Transportation Services, and Sustainability. The annual budget for General Services is approximately \$200 million, with a workforce of nearly 1,400 employees. Jack has earned three degrees, including a Bachelor of Science in Engineering and an MBA and a Doctorate of Education, all from UCLA.

**Irene Seliverstov**, Coordinator, Building Sustainability @ Cal, UC Berkeley

Irene Seliverstov is lead coordinator of Building Sustainability at Cal. She was a Residential Sustainability Education Coordinator her first year at UC Berkeley. She later became the administrative intern for the Chancellor’s Advisory Committee on Sustainability and helped plan the Fifth Annual Sustainability Summit. She became involved in Building Sustainability at Cal when she took a BS@C class the first semester it was offered. She then became a coordinator and took on the lead role this semester. She works closely with students, staff, and faculty to run the program.

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**HVAC Design and Retrofit, Best Practice Awards**

*Monday, June 22nd*  
*4:00-5:15pm*  
*Corwin Pavilion West, UCen*

**Summary:**

This session includes presentations from winners of the Higher Education Energy Efficiency Partnership Best Practices competition in the categories of New Construction HVAC Design and Retrofit. Cal Poly San Luis Obispo will present on a variety of technologies, including the DART wireless mesh network that optimizes constant volume air handlers in three buildings; UC San Francisco will present on its project to reduce air flow changes in the Mt. Zion Research Center laboratories; and Butte Community College will present on its Instructional Arts Center.

**Speakers:**

- **Michael Miller**, *Director, Facilities Planning & Management, Butte Community College*
- **Brian Provencal**, *President, Turley and Associates Mechanical Engineering Group*
- **Dennis Elliot**, *Sustainability Manager, Facility Services, Cal Poly San Luis Obispo*
- **Patrick McGee**, *Project Manager, Capital Programs, UC San Francisco*
- **Michael Sweeney, PE**, *Associate Principal, Arup*

**Moderator: Satinder ‘Steve’ Gulati**, *University Engineer, CSU Office of the Chancellor*

**Biographies:**

**Dennis Elliot**, *Sustainability Manager, Facility Services, Cal Poly State University*

Dennis Elliot is the Sustainability Manager in Facility Services at Cal Poly San Luis Obispo. Dennis is a licensed Mechanical Engineer and a Certified Energy Manager, and he has over 25 years experience in building and plant energy systems. He manages the University's utilities, energy, and water conservation programs and assists with green design of new buildings. Dennis also manages the Green Campus Program, serves on two campus sustainability committees, and is a part time instructor in the Mechanical Engineering Department.

**Satinder ‘Steve’ Gulati**, *University Engineer, CSU Office of the Chancellor*

Mr. Gulati is a University Engineer at the CSU Office of the Chancellor. He manages the CSU major capital projects and is also responsible for managing the CSU Mechanical Review Board. Mr. Gulati is a Registered Professional Engineer in the State of California in Mechanical and Fire Protection engineering. He has a BS in Mechanical Engineering from Cal Poly Pomona and a BS in Physics, Chemistry, and Mathematics from the University of Delhi, India.

**Brian Provencal**, President, Turley and Associates Mechanical Engineering Group

Brian Provencal has been President of Turley and Associates Mechanical Engineering Group for seventeen years. His experience in mechanical systems includes: chillers, central plants, master planning, steam systems, laboratory gas systems, ice storage systems, cogeneration systems, and fuel systems. His leadership in the firm has changed the firm's focus to sustainable design and energy efficiency with special emphasis on schools, hospitals, public sector and commercial buildings.

**Patrick McGee**, *Project Manager, Capital Programs, UC San Francisco*

Patrick McGee has 12 years of experience working within the UC San Francisco Capital Programs and Facilities Management. Over the course of his tenure, he has held positions in the Contracts Unit as a Facilities Manager and is currently Project Manager. He is a graduate of San Francisco State University.

**Michael Miller**, *Director, Facilities Planning & Management, Butte Community College*

Mike Miller is the Director of Facilities Planning & Management. He is responsible for campus safety, operations and services, and capital projects. . He has been instrumental in completing construction projects and assuring they are built in the most economic and energy efficient way. He is currently managing two large construction projects that will both be LEED™ certified and are currently receiving LEED™ Gold. He is the co-chair of the Sustainability Steering Committee at Butte College.

**Michael Sweeney**, *PE, Associate Principal, Arup*

Michael Sweeney is a Registered Professional Engineer and a LEED™ Accredited Professional. Michael has over 18 years of experience in building energy consulting, in building systems design, and in developing and marketing web-based building energy information systems. Michael is currently the leader of Arup's emerging strategic energy consulting business. Michael's past roles include acting as the Director of Marketing for Enerwise Global Technologies and partnering a successful start-up consulting firm. He is a graduate of Kansas State University, with a degree in Architectural Engineering.

## **System-Wide Perspectives on Sustainability**

Tuesday, June 23<sup>rd</sup>

8:30-9:30am

## Campbell Hall

This session will provide an overview of upcoming trends and opportunities across the individual campuses. Speakers will include representatives from the CSU and the California Community College Chancellor's Offices, as well as students who have been active in system-wide initiatives and policy changes from each of the three major higher education systems.

### *Speakers:*

**Frederick E. Harris**, Assistant Vice Chancellor, College Finance and Facilities Planning, CCC Chancellor's Office

**Elvyra F. San Juan**, Assistant Vice Chancellor, Capital Planning, Design, and Construction, CSU Office of the Chancellor

**Luis Suarez**, 07-08 Associated Students Board Director, Environmental Studies, Santa Monica College

**Jocelyn Orr**, Student, Environmental Science, Ethics, & Advocacy, Humboldt State University

**Tony Bautista**, Chancellor's Climate Action Intern; Student, Environmental Studies; Economics, UC Santa Cruz

### **Moderator:**

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

### **Biographies:**

**Frederick E. Harris**, Assistant Vice Chancellor, College Finance and Facilities Planning, CCC Chancellor's Office

Fred oversees the CCC system's fiscal compliance responsibilities for approximately \$4 billion in state funds annually for support of the largest postsecondary education system in the world. This includes updating the system's financial accounting requirements, collecting system-wide fiscal information, and monitoring districts' financial condition. He also oversees the Facilities Planning and Utilization Unit. That unit is responsible for the allocation of over \$1 billion annually in state local assistance and capital outlay funds to help provide the sustainable infrastructure necessary for student access and success at all 110 community colleges in California.

**Tony Bautista**, Chancellor's Climate Action Intern; Student, Environmental Studies; Economics, UC Santa Cruz

Tony Bautista was born and raised in East Los Angeles. Currently, he attends UC Santa Cruz where he majors in Environmental Studies and Economics. He is the Chancellor Climate Action Intern, working with the Chancellor Council on Climate Change, helping with the development of the Climate Action Plan. He is also one of the co-facilitators for the Ecocites and Sustainable Communities Action Research Team (ART) under the Education for Sustainable living Program. Tony was the Green Building Coordinator for the Student Environmental Center and led the campaign to construct the Student Cowell Health Center as a LEED<sup>TM</sup> certified building.

**Jocelyn Orr**, Student, Environmental Science, Ethics, & Advocacy, Humboldt State University

Jocelyn Orr grew up in Boise, Idaho, and recently graduated from Humboldt State University (May 2009) with a BS in Environmental Science Ethics & Advocacy and a Minor in Journalism. She spent five years at Humboldt State getting involved and playing leadership roles in various student organizations and campaigns, including the Renew CSU campaign, the Green Campus Program, and the Campus Center for Appropriate Technology. In August, she will begin her professional career as an Environmental Activist and Journalist in Portland, OR.

**Elvyra F. San Juan**, Assistant Vice Chancellor, Capital Planning, Design, and Construction, CSU Office of the Chancellor

Assistant Vice Chancellor Elvyra F. San Juan leads the Capital Planning, Design and Construction (CPDC) department in providing system-wide management, administration and long-range planning of the physical development aspects of The California State University (CSU). Ms. San Juan provides system-wide leadership to the twenty-three campuses and their off-campus centers, and operational direction for the planning, design and construction for the \$1.3B CSU capital outlay program. Responsibilities include management direction for public/private partnerships, land use, utility management, and maintenance of the system-wide physical plant.

**Matthew St.Clair, LEED<sup>TM</sup> AP**, Sustainability Manager, UC Office of the President

Matthew St. Clair has led the UC system's award-winning sustainability program since 2004 as the first Sustainability Manager at the UC Office of the President. He is a member of the Sustainability Committees on the Berkeley, Merced, Santa Cruz, and San Francisco campuses. St.Clair has spoken at universities such as Yale and the University of Michigan and as a keynote speaker at several national conferences, and he has advised the U.S. Congress on establishing its Office of Greening of the Capitol. Mr. St. Clair is a founding member of the Board of Directors for the Association for the Advancement of Sustainability in Higher Education.

**Luis Suarez, 07-08** Associated Students Board Director, Environmental Studies, Santa Monica College

From introducing carbon-neutrality resolutions at A.S. to physically saving trees, Luis has played a significant role in Santa Monica College's and the community's

sustainability efforts by institutionalizing sustainability, participating in campus and community environmental politics and lobbying for a learning edible garden on campus. Luis now works part-time at Sustainable Works as a Water Programs Associate. He is transferring UC Berkeley this upcoming Fall.

### **Lighting Design and Retrofit and MBCx, Best Practice Awards**

Tuesday, June 23rd

10:30-11:45am

*Corwin Pavilion West, UCen*

#### **Summary:**

This session includes presentations from winners of the Energy Efficiency Partnership Best Practice awards competition for Lighting Design/Retrofit and Monitoring Based Commissioning (MBCx) projects. Cal Poly San Luis Obispo, UC Davis, and San Diego CC will present on projects that implemented emerging technology solutions to lighting applications in areas such as stairwells, parking lots, classrooms, and gymnasiums. CSU San Bernardino and UC Berkeley will present MBCx projects that were implemented on their campuses, such as supply air temperature reset, supply air static pressure reset, time control of the air handlers, and lowering minimum flow settings on supply fans.

#### **Speakers:**

- **David Umstot, PE**, Vice Chancellor, Facilities Management, San Diego Community College District
- **Phil Westbrook**, QCxP, Chief Engineer; Energy Manager, Facilities Services, CSU San Bernardino
- **Dennis Elliot**, Sustainability Manager, Facility Services, Cal Poly San Luis Obispo
- **Christopher Cioni**, Associate Director, Utilities Office, UC Davis

**Moderator: Ardie Deghani**, Campus Engineer, Architects & Engineers Resource Management & Planning, UC Davis

#### **Biographies:**

**Christopher Cioni**, *Associate Director, Utilities Office, UC Davis*

Christopher Cioni is the Associate Director of the Utilities Office at UC Davis. His responsibilities at UCD include high voltage power distribution, central heating and cooling operations, exterior lighting, emergency generator systems, and purchase of natural gas and electricity. Prior to joining UCD, he was an Underwriting Director for a

specialty insurance firm and also worked as an engineering consultant in the areas of process safety and environmental compliance, facilities engineering at a large Department of Defense facility, and operations engineering aboard large merchant ships.

**Ardie Dehghani**, *Campus Engineer, Architects & Engineers Resource Management & Planning, UC Davis*

Ardie Dehghani is the Campus Engineer at the UC Davis Campus. A registered professional mechanical engineer and a graduate from the University of Oklahoma, he has over 20 years of experience in engineering. As Director of Engineering, Ardie has been the leader in conceiving and developing cost-effective renewal strategies and innovative solutions to support the University's sustainability mission and carbon reduction goals.

**Dennis Elliot**, *Sustainability Manager, Facility Services, Cal Poly State University*

Dennis Elliot is the Sustainability Manager in Facility Services at Cal Poly San Luis Obispo. Dennis is a licensed Mechanical Engineer and a Certified Energy Manager, and he has over 25 years experience in building and plant energy systems. He manages the University's utilities, energy, and water conservation programs and assists with green design of new buildings. Dennis also manages the Green Campus Program, serves on two campus sustainability committees, and is a part time instructor in the Mechanical Engineering Department.

**David Umstot**, *PE, Vice Chancellor, Facilities Management, San Diego Community College District*

David Umstot is Vice Chancellor of Facilities Management at SDCC and is overseeing a \$1.555 billion construction bond program, facilities services, and police functions for the District. Before entering the educational facilities market, Dave had extensive experience in commercial and public agency construction, most recently as Vice President of Operations for Syska Hennessy Group Construction. He earned a BS degree from the University of the Pacific and a Master of Engineering from the Colorado School of Mines.

**Phil Westbrook**, *QCxP, Chief Engineer; Energy Manager, Facilities Services, CSU San Bernardino*

Phil Westbrook has been with CSU San Bernardino for 16 years, serving as Supervising Building Service Engineer and becoming Chief Engineer/ Energy Manager in 2007. He has worked on many energy projects on the CSUSB campus, including the campus-wide Energy Efficiency and Infrastructure upgrade that won the 2009 National Energy Project of the Year from the Association of Energy Engineers. Prior to joining CSUSB, Phil had served for eight years in the Navy's nuclear power program and spent 10 years as Plant Engineer with Versa Care Health Systems.

## **Campus Sustainability Plans**

Tuesday, June 23<sup>rd</sup>

10:30am-11:45am

Corwin Pavilion East, UCen

This session will highlight three innovative approaches to Sustainability Action Plans. UC Merced will present on their method of using a simple business plan template and strategic planning process to create its plan. UC San Diego will present its Campus Sustainability Assessment, which benchmarked current performance in all relevant areas of sustainability and developed methods and policies for ongoing tracking of sustainability performance. Pomona College will present on engaging students in a meaningful way in the crafting and implementation of their plan, including use of green caucuses, fellowships, and independent studies courses.

### *Speakers:*

**Bowen Patterson**, Campus Sustainability Coordinator, Campus Planning and Maintenance, Pomona College

**N. Scott Smith**, Campus Planner, Sustainable Development, Pomona College

**John Elliott**, Manager of Engineering, Energy, and Sustainability, UC Merced

**Jim Genes**, Special Assistant to the Vice Chancellor of Administration, UC Merced

**Maggie Souder**, Campus Sustainability Coordinator, UC San Diego

### *Moderator:*

**Fahmida Ahmed**, Manager, Sustainability Programs, Stanford University

### **Biographies:**

**John Elliott**

*Manager, Engineering, Energy, and Sustainability, UC Merced*

John is responsible for campus energy efficiency and renewable energy generation. As co-chair of the Chancellor's Advisory Committee on Sustainability, he is responsible for shaping and implementing the campus sustainability strategy. John is involved in all phases of campus infrastructure, including new construction, maintenance, operations, and planning. John also manages use of the campus-wide building energy management system as a "living laboratory" in order to facilitate operations, performance monitoring, and research.

**Jim Genes**

*Special Assistant to the Vice Chancellor of Administration, UC Merced*

Mr. Genes received his BS and MBA from the University of California, Davis and CSU Fresno, respectively. He has over 25 years of start-up experience with the University of California, successfully creating new academic and administrative enterprises for three Campuses—Merced, Santa Cruz, and Davis. Mr. Genes staffed UC Merced's academic, administrative, and sustainability strategic plans and co-chairs the campus sustainability committee. Mr. Genes is on the board of directors for Friends of the River.

**Bowen Patterson**, *Sustainability Coordinator, Campus Planning and Maintenance, Pomona College*

Ms. Patterson is the Sustainability Coordinator at Pomona College. She is in charge of the College's long-term sustainability planning process and advises over 50 students in work-study, independent study, and extra-curricular activities related to the creation of the College's Sustainability and Climate Action Plan. She is an alumnus of Pomona and has a master's degree in Urban Planning. She has spoken at a variety of conferences regarding sustainability issues, including most recently the AASHE, SCUP Pacific, and Farm to Cafeteria conferences.

**N. Scott Smith**, *Campus Planner, Sustainable Development, Pomona College*

N. Scott Smith is working with Pomona College to develop a long-term land use plan and for campus-wide sustainability and greenhouse gas reduction initiatives. The land-use plan established a foundation for sustainable development, including site selection; open space reclamation, development, and restoration; water management; energy infrastructure; and community building. Scott worked with students to implement a campus-wide "Green Caucus" workshop for Pomona College students, faculty, and staff. Scott has been a speaker at, SCUP, AASHE, AIA, CSU Chico, and Hong Kong University.

**Maggie Souder**, *Campus Sustainability Coordinator, UC San Diego*

Ms. Souder became the Sustainability Coordinator at UC San Diego in September 2007 after 25 years in the environmental and sustainability programs at UC Riverside. One of her first UC San Diego tasks was to manage the process of developing UC San Diego's Campus Sustainability Assessment and Climate Action Plan.

**You CAN pull \$Millions out of thin air on your campus!**

Tuesday, June 22nd

1:00-2:00pm

Corwin Pavilion East, UCen

Learn how newly developed technology already applied at UC, CSU, and CCC campuses is generating as much as \$4 / sq.ft. in annual energy savings, while simultaneously improving indoor environmental quality, and making a substantial contribution to your Campus' sustainability. The IOU partnership makes it even more attractive by providing incentives to put this in place, often resulting in paybacks under two years.

Speakers:

**Brady Nations**, Regional Manager, Aircuity, Inc.

**Examples of institutionalizing sustainability throughout all aspects of an organization**

Tuesday, June 23<sup>rd</sup>

2:15-3:30pm

Corwin Pavilion East, UCen

A co-founder of STARS (Sustainability Tracking, Assessment, and Rating System) will give a brief overview. UCLA Housing and Hospitality Services developed a plan with incentives and accountability for comprehensive sustainability goals for all employees. Santa Monica College has implemented an ecological literacy graduation requirement and institutional learning outcome (ILO), and incorporated sustainability into strategic planning. CSU Chico will discuss the barriers encountered, and the pathways

that have proven successful, in embedding sustainability into the practices of faculty, staff, and students.

*Speakers:*

**Pete Morris**, Professor, Geography, Santa Monica College

**Scott G. McNall**, Executive Director, Institute for Sustainable Development, CSU Chico

**Halli Bovia**, Sustainability Coordinator, Institute for Sustainable Development, CSU Chico

**Robert Gilbert**, Sustainability Coordinator, Housing and Hospitality Services, UC Los Angeles

**Rob Kadota**, Chairman, On-Campus Housing Sustainability Committee, UC Los Angeles

*Moderator:*

**Dave Newport**, Director, Environmental Center, University of Colorado Boulder

**Biographies:**

**Halli Bovia**

*Sustainability Coordinator, Institute for Sustainable Development, CSU Chico*

Halli Bovia received her bachelor's degree in Biology in 2003 and her master's degree in Ecology and Sustainability in the summer of 2008, both from CSU Chico. Before accepting the sustainability coordinator position at CSU Chico, Halli was the Sustainability Projects Assistant at Butte College. Halli has consulted on various projects for Butte College and CSU Chico.

**Robert Gilbert**, *Sustainability Coordinator, Housing and Hospitality Services, UC Los Angeles*

As Housing & Hospitality Services Sustainability Coordinator, Robert Gilbert is responsible for crafting and maintaining a forward looking sustainability strategic plan for all divisions of Housing & Hospitality Services. As part of this charge, Robert assists, promotes, and tracks the success of sustainability programs within each division. Robert received his undergraduate degree from the University of Michigan in Resource and Ecology Management. He is currently in the filing stage of his doctoral dissertation in Environmental Health Sciences at UC Los Angeles.

**Rob Kadota**, *Assistant Director, Residential Life, UC Los Angeles*

Rob has chaired the Office of Residential Life's Sustainability Committee for several years. He is active in the City of Los Angeles Solid Waste Integrated Resource Plan. Rob has been composting his garden waste for over 10 years, and he graduated to using his kitchen scraps for vermiculture 5 years ago. Rob and his family enjoy tending an organic garden plot at Ocean View Farms community garden. Rob does community outreach at his local Mar Vista Farmers market every Sunday.

**Scott G. McNall**, *Executive Director, Institute for Sustainable Development, CSU Chico*

Dr. Scott McNall served as Provost and Vice President for Academic Affairs at CSU Chico from August 1994 - May 2007. In May 2007, he was appointed Executive Director of The Institute for Sustainable Development at CSU Chico, where he has worked to implement our 6<sup>th</sup> Strategic Priority, outlining our goals to educate for a sustainable society and to implement sustainability into the curriculum. Dr. McNall is a prolific writer, having authored more than 60 books and articles since 1963.

**Pete Morris**, *Professor, Geography, Santa Monica College*

Pete Morris is co-chair of the Academic Senate Environmental Affairs Committee and primary author of Santa Monica College's ecological literacy graduation requirement.

**Dave Newport**, *Director, Environmental Center, University of Colorado-Boulder*

Dave Newport was appointed Director, Environmental Center, University of Colorado Boulder, in December 2005. Dave's background is in environmental and sustainability research, teaching, publishing, and public service. At CU, Dave also teaches a Campus Carbon Neutrality Planning Course in the Environmental Studies Department, and he Chairs CU's Carbon Neutrality Working Group. He is active in national sustainability issues as Secretary of the Board of Directors for the Association for the Advancement of Sustainability in Higher Education.

### **Demonstrated Energy Efficient Lighting and HVAC Technologies**

Tuesday, June 23<sup>rd</sup>

2:15pm-3:30pm

*Corwin Pavilion West, UCen*

Products that improve building environments and reduce energy use have a competitive edge in the quest for Net Zero energy. UC Los Angeles, Sonoma State, and UC Santa Barbara, in partnership with the California Institute for Energy and the Environment, have implemented technologies in energy efficient lighting and HVAC design in an attempt to reduce carbon emissions from energy consumption on campuses. Energy modeling and analysis will also be discussed as integral parts of the Net Zero process.

*Speakers:*

**Robert Striff, LEED™ AP**, Senior Energy Engineer, Energy and Utility Services, UC Los Angeles

**Ted M. Tiffany**, Lecturer, Energy Management and Design, Sonoma State University

**Karl F. Johnson**, Research Coordinator, California Institute for Energy and the Environment

**Cori Jackson**, Development Engineer, California Lighting Technology Center

*Moderator:*

**Len Pettis**, Chief of Plant, Energy & Utilities, CSU Office of the Chancellor

**Biographies:**

**Cori Jackson**, Development Engineer, California Lighting Technology Center

Cori Jackson is an associate development engineer at the California Lighting Technology Center, a research facility at the University of California, Davis. She currently manages lighting development and demonstration projects, including demonstrations of PIER lighting technologies at UCSB and across the state. Ms. Jackson is a LEED certified professional and holds degrees in Optical Engineering and Mathematics.

**Karl F. Johnson**, Research Coordinator, California Institute for Energy and the Environment

Karl received a MS in Mechanical Engineering-Product Design from Stanford University. He has almost 30 years of experience in the energy field and is currently managing lighting, energy-efficient technology development, demonstration, market connection, strategic planning, and evaluation activities at CIEE. He has received awards and written papers discussing technologies in lighting, water heating, appliances, cooling, HVAC, energy analysis, commissioning, monitoring, cogeneration, ground source heat pumps, and renewable energy. He has developed national and international programs for applying these technologies.

**Len Pettis**, Chief of Plant, Energy & Utilities, CSU Chancellor's Office

Mr. Pettis is a graduate of Maine Maritime Academy with a bachelors degree in Mechanical Engineering and holds a Chief Engineers license. With over 30 years of experience, Len is responsible for energy policy regulation, energy efficiency programs, and utility procurement. He is the co-architect of the largest statewide energy efficiency grant program, receiving \$38 million from the California Public Utilities Commission to fund a three-part comprehensive program for retrofit, Monitoring-Based Commissioning (MBCx), and training and education programs.

**Robert Striff, LEED™ AP**, Senior Energy Engineer, Energy and Utility Services, UC Los Angeles

Robert Striff is currently the Energy Manager at UC Los Angeles and was one of the contributing authors for the campus' climate action plan. Robert has over 17 years experience working in the Energy Industry. He holds a professional Engineering license from the state of California and was the LEED™ AP professional for UCLA's Public Affairs Building LEED™ EB certification.

**Ted M. Tiffany**, *Energy Management and Design Lecturer, Sonoma State University*

As a graduate of Sonoma State University, Ted has been involved on the campus since 1994 and now teaches Computer Aided Applications in Energy Management & Design, through the Environmental Studies Department. He also works full time as the Building Performance Manager for Guttman & Blaevoet Consulting Engineers, specializing in Sustainable Engineering.

### **Closing and Action-Planning Plenary**

Tuesday, June 23<sup>rd</sup>

3:30-5:00pm

Campbell Hall

Join us as we hear representatives of each of the conference reflect on the conference and discuss what they see as the necessary actions that we should take as we move forward from this event.

Facilitators:

**D'Artagnan Scorza**, Student Regent, University of California; PhD Candidate, School of Education, UC Los Angeles

**Jesse Bernal**, Student Regent, University of California; PhD Candidate, Gevirtz School of Education, UC Santa Barbara

### **Biographies:**

**D'Artagnan Scorza**, Student Regent, University of California; PhD Candidate, School of Education, UC Los Angeles

D'Artagnan Scorza is a Ph.D. candidate in the UC Los Angeles School of Education. Currently, he serves as a member of the UC Board of Regents and advocates for equity and inclusion, affordability, and access for students. His emphasis on clean energy and sustainable practices supports the University's environmental-friendly policies. Scorza

will use his research to address K-12 educational inequities by establishing education centers that empower youth to create positive change and pursue a college education. He also plans to work as a policymaker on issues that address inequality and access.

**Jesse Bernal**, Student Regent, University of California; PhD Candidate, Gevirtz School of Education, UC Santa Barbara

Jesse M. Bernal is the 2009-2010 Student Regent of the University of California. Bernal is a graduate student at the Gevirtz School of Education at UC Santa Barbara, working on his Ph.D. in Education with an emphasis in Cultural Perspectives, including underrepresented students in higher education. He has served on the boards of the UC Students Association, the UCSB Graduate Students Association, and on the Chancellor's Committee on Budget Strategy and the Academic Senate committees on Planning and Budget and Diversity and Equity.