Global Campus Energy Manager's Workshop

Day 1 - Tuesday, October 22

UC Davis Conference Center - Ballroom B

8:30	Breakfast	12:15	Lunch
9:00	Welcome & Introduction Allen Tollefson, AVC Facilities, UC Davis	1:00	Campus Energy Manager Workshops Afternoon Kickoff
9:15	UCOP Carbon Neutrality Initiative David Phillips, Associate VP for Energy &		Kelly Ratliff, Vice Chancellor, UC Davis
0.45	Sustainability, UC Office of the President Introduction to the University of California's Carbon Neutrality Initiative; learn about the progress and strategic planning for all UC campuses to be carbon neutral by 2025.	1:15	Building an Energy Team Joshua Morejohn & Nico Fauchier-Magnan Learn how UC Davis developed a self- funded Energy Engineering team with the right skillsets to succeed, and key relationships with operational staff that have enabled successful energy saving programs.
9:45	Eliminating Energy Waste at UC Davis: Building a Team to Innovate & Save Joshua Morejohn & Dr. Kurt Kornbluth, UC Davis	2:00	Q&A with Panel Designing Efficient Buildings
	Introduction to Facilities Energy & Engineering, current initiatives, and the Sustainable Campus, Sustainable Cities partnership.	2.00	Gabriel Cardenosa Arrayas, UA Barcelona Ardie Dehghani & Julie Nola, UC Davis Case studies of new building designs utilizing state-of-the-art energy efficiency
10:15	Attendee Introductions Participants will share current energy projects underway at their institution.		techology and systems. Q&A with Panel
11:00	Campus Energy Manager Workshops Utility Metering David Trombly, Courtney Doss & Joe Yonkoski, UC Davis Learn how to build a metering database for the future, monitor your energy meters,	3:00	Global Sustainable Campus Partnership Program Working Session An open forum for participants to share the current state of campus energy programs they represent and learn from other participants.
	and develop collaborative processes to improve your campus metering systems.	3:45	UC Davis Energy Centers Introductions
11:30	Q&A with Panel Data Analytics		Western Cooling Efficiency Center California Lighting Technology Center Plug-in Hybrid & Electric Vehicle Research Center
11.50	Chris Weyandt, Berkeley Lab & Nico Fauchier-Magnan, UC Davis		Center for Water Energy Efficiency
	See how two campus energy teams have integrated SkySpark into operations for data-driven fault detection and energy saving analytics.	4:00	Hors d'oeuvres Hour
	Q&A with Panel		







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District Energy Workshop

Day 2 - Wednesday, October 23

UC Davis Conference Center - Conference Room B

8:30	Breakfast	12:45	Panel 3: District Energy Project
9:00	Welcome & Sponsor Introductions		Implementation Hear success stories and lessons learned from campus district energy system implementations.
9:20	Panel 1: Energy Masterplan & District Energy Planning		
	How to secure support from campus admin, what to avoid, how to compare alternatives and build a plan that can be realized. UC Davis District Energy Planning for Carbon Neutrality Joshua Morejohn, UC Davis Colin Moyer, AEI		Stanford Energy System Innovations <i>Michael Huang, Stanford</i>
			UC Davis Main Campus Hot Water
			Conversion Joshua Morejohn, UC Davis Pius Kao, AEI
			UCSB District Energy Expansion Jordan Sager, UC Santa Barbara
	CSU Long Beach Clean Energy Masterplan	1:30	Q&A with Panel
	Shawn Cun, CSULB Brian Stern & Gordon Stewart, Glumac	1:45	Break
10:00	Q&A with Panel	2:00	Panel 4: District Energy Design for the Future
10:30	Break		How to turn a district energy nightmare into a state-of-the-art system for a carbon
11:00	Panel 2: District Energy Optimization		neutral future.
	Benefits to district energy include system optimization opportunities - especially when thermal energy storage is involved. Learn about strategies, opportunities, and challenges to optimization. District Energy Operations & Optimization Joe Yonkoski & Justin Lewis, UC Davis Travis Smith, Smith Engineering 2:40		UC Davis Primate Center Energy System Upgrades
			Joe Yonkoski, UC Davis Quindi Guiseppe, Syska Hennessy
		Brown University Heating System Conversion	
			Jean-Philippe Drouin, Ecosystem
		2:40	Q&A with Panel
11:30	Q&A with Panel	3:00	Industry Panel: District Energy Lessons Learned
11:45	Lunch	4:30	Happy Hour at UC Davis Hyatt
	Sponsored by Smith Engineering		Sponsored by Syska Hennessy YSKA HENNESSY





Energy Course Design Workshop

Day 2 - Wednesday, October 23

UC Davis Conference Center - Conference Room A

8:30	Breakfast

9:00 Welcome

Dr. Kurt Kornbluth, UC Davis

9:20 Energy Coursework - Introductions

UC Davis Instructors

Learn about the client-focused project-based approach of the "Path to Zero-Net-Energy"

10:00 Energy Course Design Workshop - Part I

Working in teams and using a design approach, identify important criteria for a proposed course in energy at your institution.

10:30 Break

11:00 Energy Course Design Workshop - Part II

Using various design tools, continue with further detailed course development.

11:45 Lunch

12:45 Energy Course Design Workshop - Part III

Begin to prepare a pitch for your course and plan the implementation of your course on campus.

1:45 Break

2:00 Energy Course Pitch Presentations from Workshop

Hear from all participants of the workshop present the courses they designed and provide feedback on how to most effectively sell the courses.







Small Building HVAC Control & Campus Tours

Day 3 - Thursday, October 24

UC Davis Conference Center - Conference Room A

8:30 Breakfast

9:00 Introduction to SWARM: Small Workplace Automation & Remote Monitoring

Rhvs Davis & Devon Schmidt, UC Davis

Learn about SWARM, a UC Davis program to centralize HVAC control for small, isolated buildings on campus.

9:15 SWARM at UC Davis

Tom Ryan, Rhys Davis & Devon Schmidt

Understand the SWARM program structure at UC Davis, the benefits to stakeholders, and the total costs and savings associated with the program.

9:30 SWARM for Energy Managers

Rhys Davis

As part of our UCOP-funded initiative to set other campuses up to implement SWARM, we've developed resources to guide energy managers through the process

9:45 SWARM for HVAC & Refrigeration Technicians

Nathan Cardoza, Refrigeration Shop Supervisor, UC Davis

Learn about the UC Davis Facilities Refrigeration Shop's experience with SWARM, including benefits and the learning curve associated with the program.

10:00 SWARM Workshop

UC Davis SWARM Team

Sit down with members of the UC Davis SWARM team to evaluate the viability of SWARM on your campus and build a custom plan for starting your own version of SWARM.

11:00 UC Davis Campus Energy Walking Tour

Go on a tour of UC Davis's campus, with a highlight on energy-related points of interest and the UC Davis Energy Conservation Office

12:00 Lunch

12:30 Central Heating & Cooling Plant Tour

See the inner workings of the campus energy hub and learn about how it all works and what new developments are coming soon.

1:00 West Village Tours

Visit West Village, our planned Zero Net Energy community, where cutting edge research is being done on building energy efficiency, electrical vehicles, and net-zero homes.

Western Cooling & Efficiency Center

Honda Smart Home

Renewable Energy Anaerobic Digester

2:15 UC Davis Jess S. Jackson Sustainable Winery Building

Learn about the state-of-the art building design and systems optimization that go into wine production on UC Davis's campus

3:00 Off-Campus Tours

SunPower R&D Ranch

Tour the R&D facility of one of the leading photovoltaic technology companies and learn about their new products and systems.

California Lighting Technology Center

Visit another UC Davis research center to see how lighting systems can save energy and improve occupant health.





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Sponsors



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