<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Breakfast</td>
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<tr>
<td>9:00</td>
<td>Welcome &amp; Introduction</td>
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<td></td>
<td><em>Allen Tollefson, AVC Facilities, UC Davis</em></td>
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<tr>
<td>9:15</td>
<td>UCOP Carbon Neutrality Initiative</td>
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<td><em>David Phillips, Associate VP for Energy &amp; Sustainability, UC Office of the President</em></td>
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<td>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.</td>
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<td>9:45</td>
<td>Eliminating Energy Waste at UC Davis: Building a Team to Innovate &amp; Save</td>
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<td><em>Joshua Morejohn &amp; Dr. Kurt Kornbluth, UC Davis</em></td>
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<td>Introduction to Facilities Energy &amp; Engineering, current initiatives, and the Sustainable Campus, Sustainable Cities partnership.</td>
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<td>10:15</td>
<td>Attendee Introductions</td>
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<td>Participants will share current energy projects underway at their institution.</td>
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<td>11:00</td>
<td>Campus Energy Manager Workshops</td>
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<td><strong>Utility Metering</strong></td>
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<td><em>David Trombly, Courtney Doss &amp; Joe Yonkoski, UC Davis</em></td>
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<td>Learn how to build a metering database for the future, monitor your energy meters, and develop collaborative processes to improve your campus metering systems.</td>
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<td><strong>Q&amp;A with Panel</strong></td>
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<tr>
<td>12:15</td>
<td>Lunch</td>
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<tr>
<td>1:00</td>
<td>Campus Energy Manager Workshops</td>
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<td><strong>Afternoon Kickoff</strong></td>
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<td><em>Kelly Ratliff, Vice Chancellor, UC Davis</em></td>
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<td>1:15</td>
<td><strong>Building an Energy Team</strong></td>
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<td><em>Joshua Morejohn &amp; Nico Fauchier-Magnan</em></td>
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<td>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.</td>
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<td>2:00</td>
<td>Designing Efficient Buildings</td>
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<td><em>Gabriel Cardenosa Arrayas, UA Barcelona</em></td>
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<td><em>Ardie Dehghani &amp; Julie Nola, UC Davis</em></td>
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<td>Case studies of new building designs utilizing state-of-the-art energy efficiency technology and systems.</td>
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<td>3:00</td>
<td><strong>Global Sustainable Campus Partnership Program Working Session</strong></td>
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<td>An open forum for participants to share the current state of campus energy programs they represent and learn from other participants.</td>
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<td>3:45</td>
<td>UC Davis Energy Centers Introductions</td>
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<td><strong>Western Cooling Efficiency Center</strong></td>
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<td><strong>California Lighting Technology Center</strong></td>
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<td><strong>Plug-in Hybrid &amp; Electric Vehicle Research Center</strong></td>
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<td><strong>Center for Water Energy Efficiency</strong></td>
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<td>4:00</td>
<td>Hors d’oeuvres Hour</td>
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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

CSU Long Beach Clean Energy Masterplan
Shawn Cun, CSULB
Brian Stern & Gordon Stewart, Glumac

Panel 2: District Energy Optimization
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

Panel 3: District Energy Project Implementation
Hear success stories and lessons learned from campus district energy system implementations.

Stanford Energy System Innovations
Michael Huang, Stanford

UC Davis Main Campus Hot Water Conversion
Joshua Morejohn, UC Davis
Pius Kao, AEI

UCSB District Energy Expansion
Jordan Sager, UC Santa Barbara

Panel 4: District Energy Design for the Future
How to turn a district energy nightmare into a state-of-the-art system for a carbon neutral future.

UC Davis Primate Center Energy System Upgrades
Joe Yonkoski, UC Davis
Quindi Guiseppe, Syska Hennessy

Brown University Heating System Conversion
Jean-Philippe Drouin, Ecosystem

Panel Q&A

Happy Hour at UC Davis Hyatt
Sponsored by Syska 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

Rhys 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.
Global Campus Energy Manager's Workshop

Sponsors

Syska Hennessy Group

Affiliated Engineers, Inc.

UMC

Smith Engineering

Ecosystem

University of California
Office of the President