

## Industry Partner Happy Hour: Wednesday, April 17, 5-7 pm PDT

Join us for networking and tours of our research facilities at 390 Wurster Hall, UC Berkeley  
*Open to Industry Partners and Invited Guests. Drinks and appetizers will be served.*

## Plenary Session: Thursday, April 18, 8:15 am-5:50 pm PDT

Pauley Ballroom East, UC Berkeley at 2495 Bancroft Way [\[Hybrid sessions also via Zoom\]](#)  
*Open to Industry Partners, Invited Research Affiliates and Guests*

**8:15 am** Registration and Breakfast

### **9:00 am** Morning Session 1: Building Decarbonization [\[begin Zoom webinar\]](#)

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**9:00 am** Welcome and Participant Introductions

**9:20 am** Cost-Effective Decarbonization of HVAC Hot Water Systems

*Paul Raftery, Professional Researcher*

*A field study in large commercial buildings showed natural gas savings of approximately 70% through boiler retrofits and controls updates.*



**9:40 am** Examining Office Building HVAC Operational Carbon Emissions

*Aoyu Zou, PhD Student in Building Science, Technology and Sustainability*

*A novel method to leverage an emerging metadata schema to reduce operational carbon emissions.*



**10:00 am** The California Carbon Report: Analyzing the Embodied and Operational Carbon Impacts of 30 Buildings

*Matt Roberts, Postdoctoral Researcher*

*Results from data collection and analysis conducted in collaboration with industry practitioners and the Carbon Leadership Forum.*

**10:25 am** Networking Break (25 min.)

### **10:50 am** Morning Session 2: Building Analytics and Tool Development [\[Hybrid\]](#)

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**10:55 am** Dynamic Ventilation in Multifamily Residential Buildings

*Riwayat Katia, MS Student in Building Science, Technology and Sustainability*

*We evaluated new control methods for load shifting in multifamily buildings to maximize energy, cost or peak demand savings.*

**11:15 am Regional-Scale Building Performance Modeling**

Yan Wang, Postdoctoral Researcher

*We are conducting large-scale building performance simulations to investigate overheating risk under climate change.*

**11:35 am Lightning Presentations [Hybrid]**

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**My Carbon on the Margin**

Carlos Duarte, Assistant Professional Researcher

*This new tool provides fast and easy carbon emission information from residential electricity consumption using Green Button Data.*

**The Impact of Window Views on Cognitive Performance**

Sun Woo Chang, PhD Student in Building Science, Technology and Sustainability

*Preliminary field test results on the impact of visual connections to outdoors as assessed by student exam scores.*

**A Web-Based Interface for the Advanced Berkeley Comfort Model**

Akihisa Nomoto, Postdoctoral Researcher

*New efforts to enable broad usage of Berkeley's thermal comfort model, which can simulate transient and non-uniform conditions.*

**12:00 pm Lunch**

**1:00 pm Keynote and New Partner Presentations [Hybrid]**

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**1:00 pm Keynote Presentation: Daniel Kammen**

Prof. Kammen is the James & Katherine Lau Distinguished Professor of Sustainability, with appointments in the Energy and Resources Group, the Goldman School of Public Policy and the Dept. of Nuclear Engineering at UC Berkeley. [bio](#)

**1:50 pm New Partner Presentations**

**2:00 pm Networking Break (20 min.)**

**2:20 pm Afternoon Session: Health and Comfort in Indoor Environments [Hybrid]**

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**2:25 pm Impact of Ceiling Fans on the Risk of Infectious Aerosol Transmission**

Jiayu Li, Postdoctoral Researcher

*We used experimental data to create a decision-making tool to assess the suitability of ceiling fan usage in various scenarios.*

**2:45 pm Personal and Spatial Diversity of Thermal Comfort**

Tobias Kramer, Postdoctoral Researcher

*Presenting a framework for integration of comfort diversity in building design and operation.*



**3:05 pm Age, Sex and Thermal Comfort**  
 Hui Zhang, Professional Researcher; Ingrid Chaires, Senior Consultant, Arup  
*New findings from a human subject laboratory test that reveal broad differences.*



**3:20 pm Establishing a Maximum Safe Temperature for California Residences**  
 Charlie Huizenga, Research Specialist  
*Literature review and preliminary simulation results from research that will guide future housing policy directions.*

**3:40 pm Closing Remarks for Zoom Participants [\[Conclude Zoom webinar\]](#) and Break (20 min)**

## **4:00 pm Breakout Sessions**

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**4:00 pm Breakout Table Topics**  
*CBE staff and partners will lead roundtable discussions with in-person participants, focusing on current topics of concern to research and industry. (Topics will be made available soon.)*

**4:50 pm Conclude Plenary Session**

**5:00 pm Cocktail Hour and Dinner, Cal Alumni House, UC Berkeley Campus**

## **Executive Session: Friday, April 18, 8:30 am-12:00 pm PDT**

The Magnes Collection, 2121 Allston Way, Berkeley, CA [\[Hybrid sessions also via Zoom\]](#)

*Open to Industry Partner Representatives (two per supporting firm or membership team)*

**8:30 am Continental Breakfast**

**9:00 am Introductions and Director's Message [\[begin Zoom webinar\]](#)**

**9:30 am Advisory Board Meeting**

Moderated by CBE Partner Chair, Andrew Reilman. Faculty and research staff will seek feedback on a portfolio of research projects for CBE's FY '24-'25.

**10:30 am Break**

**11:00 am Advisory Board Meeting, continued**

Continue discussion regarding recent progress and additional topics for the future.

**12:00 pm Conclude Executive Session**

**Optional Lunch in Downtown Berkeley**