

Plenary Session: Thursday, October 20, 8:15 am-4:45 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 – 10:30 am

Morning Session: New Research Directions [Hybrid]

9:00 am

Welcome and Participant Introductions

9:20 am



Whole-Building Life-cycle Assessment (WBLCA): Current Tools and Practices for Industry

Fiona Greer, Postdoctoral Researcher

Evaluation of current WBLCA tools for embodied and operational carbon in commercial buildings, and ideas for future construction industry practices.

9:45 am



An Infection Risk Calculation Tool for the Design of Better Indoor Environments

Chai Yoon Um, PhD Student in BSTS

Introduction of a novel infection risk calculation tool that helps designers create healthy indoor environments.

10:10 am



Clearing the Air: Using Smart Thermostats to Improve Wildfire Resiliency in Californian Homes

Federico Dallo, Postdoctoral Researcher and Marie Curie Research Fellow

We used smart thermostat data from over 8,000 Californian homes for the development of HVAC software to reduce PM2.5 concentration in homes.

10:30 am

Break (20 min.)

10:50 am – 12:00 pm

Mid-Morning Session: Building Occupant Experience [Hybrid]

10:55 am



Field Study of Thermal Infrared Sensing for Office Temperature Control

Charlie Huizenga, Research Specialist

We will present a low-cost thermal infrared imaging system and newly developed software for adjusting control setpoints using biometric feedback.

11:20 am



A Laboratory Experiment on Window View Clarity

Isabel Burgess, MS Student in BSTS

Experimental design and preliminary findings of a human subject experiment to explore effects of fabric shades, electrochromic glass, and films.

10:40 am



Thermal Comfort and Resilience During Sleep

Arfa Aijazi, University of Waterloo School of Architecture and PhD Graduate

This study ranks passive and low-energy heating and cooling interventions during sleep, and reveals a need for clear public health guidelines.

12:00 pm

Lunch and Networking (60 min)

1:00 pm

Keynote and Partner Presentations [Hybrid]

1:00 pm



Keynote Presentation: Maximilian Auffhammer

George Pardee Jr. Professor of International Sustainable Development and Associate Dean in the Division of Social Sciences at UC Berkeley, University of California, Berkeley

2:00 pm

New Partner Presentations

2:20 pm

Short Break (15 min)

2:35 – 4:00 pm

Afternoon Session: Advanced Building Systems [Hybrid]

2:40 pm



A Randomized Measurement and Verification Method for Building Performance

Thomas Parkinson, Assistant Professional Researcher

We will demonstrate a new approach for measuring the performance of easily switchable interventions in buildings.

3:00 pm



Mapping Electrification: Tracking Trends and Progress in Commercial Buildings

Patrick Wendler, MS Student in BSTS

We are building an interactive map of electrification retrofits and new construction, to include project progress, common features and practices.

3:20 pm



How Heating Hot Water Systems Operate in Reality

Paul Raftery, Professional Researcher

We present new laboratory findings and analysis of field data from over 200 commercial buildings.

3:40 pm

Closing Remarks for Zoom Participants [Conclude Zoom webinar]

Break (15 min)

4:00 pm – 4:45 pm

Breakout Session

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.

4:45 pm

Conclude Plenary Session

5:00 pm

Cocktail Hour and Dinner at the Berkeley City Club

2315 Durant Avenue, Berkeley

Executive Session: Friday, October 21, 8:00 am-12:00 pm PDT

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

Open to Industry Partner Representatives (two per supporting firm or team; one for small business partners)

8:00 am Continental Breakfast

8:30 am Introductions and Director's Message [\[begin Hybrid webinar\]](#)

9:00 am Advisory Board Meeting

Moderated by CBE Partner Chair, Andrew Reilman; and CBE Partner Vice Chair, Isabelle Lavedrine. CBE staff will present and solicit feedback regarding recent progress and future research directions.

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 [\[Conclude Zoom webinar\]](#)

Optional Lunch in Downtown Berkeley