

CBE Open House: Wednesday, April 26, 5-7 pm PDT

Please join us for drinks, networking and tours of our lab facilities in 390 Wurster Hall, UC Berkeley
Open to Industry Partners and Invited Guests. Drinks and appetizers will be served.

Plenary Session: Thursday, April 27, 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 Morning Session 1: Indoor Experience and Resilience [[begin Hybrid webinar](#)]

9:00 am Welcome and Participant Introductions

9:20 am Defining Maximum Thermal Conditions in Residential Buildings



Charlie Huizenga, Research Specialist

New research will develop models for setting policies to support resilience in a warming world.

9:45 am Assessing the Effect of Shade Materials on View Clarity



Isabel Burgess, MS Student in Building Science, Technology and Sustainability

New lab study offers practical guidance on shading, window films and electrochromic glass.

10:10 am Effectiveness of Evaporative Cooling Fans in Reducing Heat Strain During Heatwaves



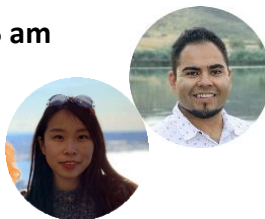
Maíra André, Visiting Scholar, Federal University of Santa Catarina, Brazil

Simulations and laboratory studies show great potential for this under-exploited technology.

10:25 am Networking Break (20 min.)

10:45 am Morning Session 2: HVAC and Advanced Control Methods [[Hybrid](#)]

10:45 am Affordable Mixed-Use Development in a Carbon-Constrained Future



Carlos Duarte, Assistant Professional Researcher and Xinxin Hu, Senior Associate, Rocky Mountain Institute

Parametric energy simulations investigate optimal HVAC solutions for zero-emissions multi-family housing.

11:15 am



New Insights on Heating Hot Water Systems in Large Commercial Buildings

Paul Raftery, Professional Researcher

Detailed analysis of load distribution and boiler performance data from hundreds of buildings offers implications for design practice.

11:35 am ‘Lightning’ 5-Minute Presentations [Hybrid]



Field Study of Brick Schema for Practical Use Cases

Yuya Nakazawa, Visiting Scholar and Research Manager at Azbil North America R&D, Inc.



Performance of Variable Air Volume Hot Water Reheat Terminal Units

Patrick Wendler, MS Student in BSTS



Update on CBE’s Building IEQ and Performance Tools

David Lehrer, Communications and Research Collaborations



Raising Awareness of the Benefits of Building 'Smartness' for Owners: The Case Smart Readiness Indicator

Eerika Janhunen, Visiting Scholar, Aalto Univ. School of Engineering, Finland



Development of a Causal Diagram for Data Analysis from Buildings in Operation

Ruiji Sun, PhD Student in Building Science, Technology and Sustainability

12:00 pm

Lunch

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

1:00 pm



What’s Next? Meeting the Challenge to House California Families

Shola Olatoye, Chief Operating Officer of Eden Housing, Fellow and Advisory Board Member for UC Berkeley’s Turner Center for Housing Innovation

1:50 pm

New Partner Presentations

2:05 pm

Networking Break (20 min.)

2:30 pm Afternoon Session: Decarbonizing Buildings [Hybrid]

2:30 pm



Assessment of Embodied Carbon Impacts of Prefabricated Construction for Housing: A California Case Study

Fiona Greer, Post-doctoral Researcher at UC Berkeley

How can innovative factory-built modular construction provide climate benefits and help us to meet California’s housing needs?

2:55 pm



Demand Response Participation: A Behind-the-Meter Perspective

Chitra Nambiar, PhD Student in Building Science, Technology and Sustainability
An overview of needs and approaches to overcoming barriers.

3:15 pm



Environmental Impacts from Changing Operational Energy Use Demand Profiles

Matt Roberts, Post-doctoral Researcher at UC Berkeley
Understanding how grid carbon intensity influences the effectiveness of decarbonization strategies for buildings.

3:40 pm

Closing Remarks for Zoom Participants [[Conclude Zoom webinar](#)]
Break (15 min)

4:00 pm Breakout Sessions

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, Berkeley City Club, 2315 Durant Ave, Berkeley

Executive Session: Friday, April 28, 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 membership team)

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 research projects planned for FY 2023-'24.

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