



Industry Advisory Board Meeting: April 19-20, 2018

Thursday, April 19: Plenary Session Pauley Ballroom, UC Berkeley

*Open to Industry Partners (seven per supporting firm or team; three for small business partners),
Invited Research Affiliates, and Guests*

- 8:30 am** Continental breakfast and registration
- 9:00 am** Announcements and introductions
- 9:30 am** Director's Message
- 9:45 am** **RESEARCH PRESENTATIONS AND DISCUSSION**
- 1. Radiant Systems Research Program:** Update on ongoing research activities, including a beta version of newly-developed radiant web tool.
 - 2. Getting Out of Hot Water:** Is electrification better than VAV reheat?
 - 3. Thermal Comfort: How Well Are We Doing, and Can We Do Better?** New results from survey data analysis of 351 buildings with over 50,000 occupants.
- 10:45 am** Morning Break
- 11:10 am** **RESEARCH PRESENTATIONS AND DISCUSSION CONTINUED**
- 4. Designing with Ceiling Fans: Practitioners' Experience and In Situ Measurements:** Interview research findings — successes, obstacles and lessons learned.
- 11:30 am** **LIGHTNING SESSIONS FIVE-MINUTE PROJECT UPDATES AND SUMMARY RESULTS**
- 5. Psychology of Space:** Occupant survey updates and new research directions.
 - 6. Shedding Light on Glare Metrics:** Results from a new series of experiments addressing limitations of current daylight glare criteria and scales.
- 11:40 am** **NEW PARTNER PRESENTATIONS:** Introductions from our newest industry partners Daikin, Ford, and Quinn Evans Architects.
- 12:10 pm** Lunch
- 1:10 pm** **KEYNOTE:** Lisa Heschong, author of *Thermal Delight in Architecture*, and Founding Principal of the Heschong Mahone Group (now TRC).

- 2:10 pm** **BREAKOUT SESSION: Roundtable Research Discussions**
CBE team members and industry partners will moderate roundtable discussions on CBE research topics for feedback and discussion of potential resources and collaborations.
- 3:10 pm** Afternoon Break
- 3:30 pm** **RESEARCH PRESENTATIONS AND DISCUSSION** CONTINUED
7. **Micro-Scale Thermal Comfort Research:** Results from recent human subject tests of wearable comfort devices and body sensitivity mapping.
 8. **Luminous, Thermal and Ventilation Autonomy:** An integrated assessment workflow using multiple metrics for the assessment of human-centered passive design strategies.
 9. **Air Movement Research Program:** Updates on smart fan and thermostat integration study, and prototypes for room and HVAC airspeed measurement.
- 4:40 pm** **LIGHTNING SESSIONS** FIVE-MINUTE PROJECT UPDATES AND SUMMARY RESULTS
10. **Impact of Future Climate on Building Energy Performance:** Results from a case study and new research directions.
 11. **Modeling Occupant Workplace Interactions:** New results from machine learning applied to ambient and wearable sensor data.
 12. **Bursting the (CO₂) Bubble:** Fans' potential impacts on ventilation and productivity.
- 5:00 pm** **ADJOURN PLENARY SESSION**
- 5:30 pm** **HAPPY HOUR AND DINNER:** Berkeley City Club, 2315 Durant Avenue

Friday, April 20: Executive Session
David Brower Center, 2150 Allston Way, Berkeley

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

- 8:00 am** Continental breakfast
- 8:15 am** Introductions and partner impressions
- 9:00 am** Director's Report: Edward Arens
- 9:15 am** **ADVISORY BOARD MEETING**
Moderators: CBE Partner Chair, Gwelen Paliaga; CBE Partner Vice Chair, Andrew Reilman
Review new research proposals for FY 2018-19
- 10:15 am** Break
- 10:30 am** **ADVISORY BOARD MEETING CONTINUED**
Review new research proposals for FY 2018-19 (continued)
Partner discussion
- 11:45 am** Confirm next Industry Advisory Board Conference: October 17-19, 2018
Closing comments
- 12:00 pm** **ADJOURN EXECUTIVE SESSION**