



## Industry Advisory Board Meeting: April 25-26, 2019

### Thursday, April 25: Plenary Session

#### Pauley Ballroom at UC Berkeley, 2495 Bancroft Way

*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** Welcome and Director's message
- 9:10 am** Announcements and introductions
- 9:40 am** **RESEARCH PRESENTATIONS AND DISCUSSION**
- 1. Radiant Systems Research Program** (*Fred Bauman*)  
Final results and key findings from a four-year, \$3M project.
  - 2. Development of an Ultrasonic Velocity Sensor** (*Ali Ghahramani*)  
Performance results and industry applications.
  - 3. Acoustics in the Open Office** (*Lindsay Graham*)  
How individual differences (i.e., personality, age, gender, status) play a role in employee experience and overcoming acoustic challenges.
- 10:40 am** Morning Break
- 11:00 am** **RESEARCH PRESENTATIONS AND DISCUSSION (CONTINUED)**
- 4. Resilience of Buildings During Forest Fires in California** (*Jovan Pantelic*)  
A comparison of air quality in two naturally and mechanically ventilated buildings.
  - 5. Controlling High Thermal Mass Radiant Systems** (*Paul Raftery and Carlos Duarte*)  
New publicly available control sequences implemented in two California buildings.
- 11:50 am** **LIGHTNING SESSIONS (FIVE-MINUTE PROJECT UPDATES AND SUMMARY RESULTS)**
- 6. Fans First: Staging Ceiling Fans and Air Conditioning for Energy Efficient Cooling** (*Dana Miller*)  
Updates from retrofit installation of 100 fans in offices and multifamily housing.
  - 7. A Proposed Framework for Assessing View Quality** (*Won Hee Ko*)  
Development of an index for view attributes and context.

- 12:00 pm**      **NEW PARTNER PRESENTATION:** Rudolph and Sletten
- 12:10 pm**      Lunch
- 1:10 pm**      **KEYNOTE:** Paul Torcellini, Principal Engineer for the Commercial Buildings Research Group at the National Renewable Energy Laboratory (NREL)
- 2:10 pm**      **BREAKOUT SESSION: Roundtable Research Discussions**  
CBE team members and industry partners will moderate roundtable discussions on research topics for feedback and discussion of potential resources and collaborations.
- 3:10 pm**      Afternoon Break
- 3:30 pm**      **RESEARCH PRESENTATIONS AND DISCUSSION (CONTINUED)**
- 8. Stories from Radiant Buildings** (*Megan Dawe*)  
Learning from designers, operators and occupants.
  - 9. Ceiling Fan Integrated Air Conditioning** (*Hui Zhang and Ed Arens*)  
Lab testing of an innovative ductless design approach.
  - 10. Designing for the Effects of Solar Radiation on Indoor Thermal Comfort**  
(*Andrea Zani, Visiting Scholar from Eckersley O'Callaghan Engineers*)  
Integrating CBE's SolarCal and Thermal Comfort tools into simulation workflow.
- 4:40 pm**      **LIGHTNING SESSIONS (FIVE-MINUTE PROJECT UPDATES AND SUMMARY RESULTS)**
- 11. Optimizing Retrofit Design for Future Climate** (*Arfa Aijazi*)  
Using computational optimization in conjunction with future weather files.
  - 12. How People's Comfort Requirements Vary** (*Maohui Luo*)  
Mining the Global Thermal Comfort Database.
  - 13. Continuous Monitoring for Long-term Comfort Compliance** (*Tom Parkinson*)  
Demonstrating advantages of continuous monitoring in 24 office buildings.
- 5:00 pm**      **ADJOURN PLENARY SESSION**
- 5:30 pm**      **HAPPY HOUR AND DINNER:** Pauley Ballroom, 2495 Bancroft Way

## **Friday, April 26: 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; and CBE Partner Vice Chair, Andrew Reilman*  
Review new research proposals for FY 2019-20
- 10:30 am** Break
- 10:45 am** **ADVISORY BOARD MEETING CONTINUED**  
Review new research proposals for FY 2019-20 (continued)  
Partner discussion
- 11:45 am** Confirm next Industry Advisory Board Conference: October 23-25, 2019  
Closing comments
- 12:00 pm** **ADJOURN EXECUTIVE SESSION**