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.

   New publicly available control sequences implemented in two California buildings.

11:50 am LIGHTNING SESSIONS (FIVE-MINUTE PROJECT UPDATES AND SUMMARY RESULTS)

6. Connected Ceiling Fans for Energy Efficient Cooling (Dana Miller)
   Interview and data analysis from installing 100 fans in offices and multi-family homes.

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