



Building Energy Smart Technologies (BEST) Center

Industrial Advisory Board Meeting, April 26-27, 2022, Boulder, CO

AGENDA

April 26, 2022 (SEEC Auditorium C120)

Morning Session	
8:00 am – 8:30 am	Registration and Breakfast
8:30 am – 8:40 am	Welcome Note Keith Molenaar, Dean of College of Engineering
8:40 am – 9:00 am	BEST Center Mission Moncef Krarti , Director of BEST Center
9:00 am – 9:20 am	Overview of NSF IUCRC Program Crystal Leach, NSF-IUCRC Program Director
9:20 am – 9:40 am	Introduction to Evaluation Procedure (Airtable) Mohamed Haroun, CCNY
9:40 am – 10:00 am	Break (Poster Session)
10:00 am – 12: 00 pm	Project Proposal Presentations
10:00 am – 10:15 am	<i>Evaluation of Field Methods for Assessment of Architectural Window Degradation</i> , Prof. John Zhai and Dr. Robert Tenet (CUB)
10:15 am – 10:30 am	<i>Optimized Controllers for Adaptive Fenestration Systems</i> , Dr. Ammar Dehwah, Prof. Moncef Krarti, and Prof. Michael McGehee (CUB)
10:30 am – 10:45 am	<i>Development of an AI-Enabled Control Framework for Optimal Electric Vehicle Charging Coordination and V2X Services</i> , Prof. Ahmed Mohamed (CCNY)
10:45 am – 11:00 am	<i>Practical Design of Residential Dynamic Electricity Prices for Future Distribution Grids</i> , Prof. Kyri Baker (CUB)
11:00 am – 11:15 am	<i>Visualization Tool for Better Forecasting Electric Loads</i> , Prof. Ronak Etemadpour (CCNY)
11:15 am – 11:30 am	<i>Urban Energy Forecast Systems Combined with Monitoring Urban Energy Production, Urban Energy Use and Urban Air Quality</i> , Prof. Mark Arend (CCNY)



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11:30 am – 11:45 am	<i>Enabling smart and energy efficient office buildings based on dynamic occupancy estimation using RF infrastructure</i> , Prof. Nicholas Madamopoulos (CCNY)
11:45 am – 12:00 pm	Review and Finalize of Evaluation Forms

12:00 pm – 1:00 pm	Lunch Break and Networking (Poster Session)
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Afternoon Session

1:00 pm – 3:00 pm	Project Proposal Presentations (Center Faculty Members)
1:00 pm - 1:15 pm	<i>Sustainable Heat Pump Systems for Electrified Transition in Winter Markets</i> , Prof. Jorge Gonzalez (CCNY)
1:15 pm - 1:30 pm	<i>Integrated and Smart Controls for Combined Heat Pump and Domestic Water Heater for Residential Buildings</i> , Prof. Moncef Krarti and Prof. Kyri Baker (CUB)
1:30 pm - 1:45 pm	<i>Energy-reduction M&V using Calibrated Simulation, IPMVP Option D</i> ; Mr. Duncan Prahl and Prof. Michael Bobker (CCNY)
1:45 pm - 2:00 pm	<i>Cost-effective Way to Forecast Energy Use at Building to City Scale Using Real-Time Satellite Data</i> , Prof. Prathap Ramamurthy (CCNY)
2:00 pm – 2:15 pm	<i>Flexible Insulated Panels for Retrofitting Existing Building Envelopes</i> , Prof. Moncef Krarti and Prof. Shawhin Roudbari (CUB)
2:15 pm – 2:30 pm	<i>Making Reinforcement Learning Practical for Building Control using Surrogate Models</i> , Prof. Gregor Henze (CUB)
2:30 pm – 2:45 pm	Review and Finalize Evaluation Forms
2:45 pm – 3:00 pm	Break (Poster Session)
3:00 pm – 5:00 pm	Closed Meeting (IAB Members at N224)
3:00 pm – 3:30 pm	Panel by Industry Representatives Moderator: Bill Green (RMH) Panelists: Julie Petrone (ABB), Herbert Els (WSP), Guolian Wu (AprilAire)
3:30 pm – 5:00 pm	Open Discussion with Faculty Members and Industry Representatives
5:00 pm – 7:00 pm	Dinner and Networking + Poster Session

Assignment for Researchers: Respond to Evaluation Form questions prior to 8 am (Mountain) Next day.



April 27, 2022 (SEEC Conference Room, S228)

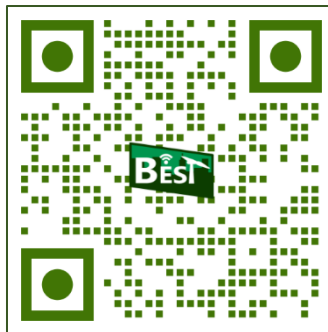
Morning Session

8:00 am – 9:00 am	Overview of Proposals Clarifications from Directors and Faculty Members
9:00 am – 10:30 am	IAB Deliberation and Vote on Proposals Review of Evaluation Forms
10:30 am – 10:45 am	Break (Poster Session)
10:45 am – 12:00 pm	IAB and BEST Leadership Meeting Evaluation form readout, vote on Bylaws, final remarks and wrap-up

12:00 pm – 1:00 pm Lunch Break and Adjourn

Other Useful Information

- *Free Wifi Access:* UCB Guest
- *Parking for the Meeting:* Lot 556 behind SEEC building (refer to the parking map below with the online payment option)
- *Main Event Location:* Auditorium (C120) located on the first floor of the SEEC building (refer to first floor map below)
- *IAB Closed-Door Meetings:* Rooms N224 and S228 located on the second floor of the SEEC building (refer to the second-floor map below)
- *Center Website:* best-iucrc.org





Meeting Location: SEEC Building, East Campus, University of Colorado, Boulder, CO

April 26, Auditorium at SEEC Level 1 (C120)



April 27, Conference Room at SEEC Level 2 (N224 and S228)








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Parking Location

Sustainability, Energy and Environment (SEEC) Parking Map

-  Lot 556 Event Permit required
Permits not valid in lot 550
-  Paid Visitor Parking in Lot 550
No Event Parking in lot 550
-  Building Entrance from parking lot

April 26-27, 2022
IAB - BEST Meeting Day 1 and Day 2 Parking Map
The event has made Parking Permits that will need to be purchased on-line at
<https://cuboulder.pmreserve.com/>
Please be sure to enter your vehicles license plate correctly for proper validation and park in lot 556.
1 Permit for each day attending must be purchased

The permit does not need to be printed.

