







BEST Center Annual Institute

Learning by Doing in Building Technician Education: New Technologies, Teaching Strategies, and Lab Applications

January 11 - 14, 2017 | AGENDA

Wednesday, January 11 - Oakland

Hotel breakfast
Shuttles to Laney every 15 minutes
Check-in at the Bistro, Laney College
Welcome and Introduction of Participants – Pamela Wallace, BEST Center Director
Overview of BEST Center and Institute Objectives – Peter Crabtree, BEST Center Principal Investigator & Dean, CTE, Laney College
Preview of Institute Agenda – Larry Chang, BEST Center Manager
High Performance Building Operations Professional Certification: Progress Update – Peter Crabtree & Ted Wilinski, BEST Co-Pl
Association of Controls Professionals Certification: Update – Brian Lovell, BEST Co-PI
Break
Discussion of Student Recruitment and Marketing Strategies – Larry Chang; Robert Nirenberg, Metropolitan Community College; All
Lunch/networking
Virtual Lab Tour Video 1 - Lane Community College
Application for NSF Advanced Technological Education (ATE) Project grants – Peter Crabtree; Deb Hall, Valencia College; Alison Pugh, South Seattle College
Small Group Discussions: BEST Center Impacts on Programs and Student Learning Outcomes
Break: Virtual Lab Tour Video 2 - Georgia Piedmont Technical College









3:15	BAS Lab Trainers Overview (Room A-191) - Brian Lovell & Chuck Frost, BEST Co-Pls
5:30	Introduction to Data Logger Exercise – Ted Wilinski & Chuck Frost
6:30	Networking dinner at Bistro
7:00	Virtual Lab Tour Video 3 – Sacramento City College
7:30	Adjourn, shuttle to hotel

Thursday, January 12 – Oakland & San Francisco

7:30 am	Hotel breakfast
8:00-8:15	Shuttles to Laney every 15 minutes
8:30	Preview of Day 2 agenda and logistics (Laney College, Room A-191) – Victor Garcia, BEST Center Coordinator
8:45	BAS Lab Exercise - Brian Lovell & helpers
12:00 pm	Lunch/networking at Bistro
12:30	Virtual Lab Tour Video 4 – College of DuPage
1:00	Industry Panel: Tools & Processes for Improved Building Operations Introduction by Chuck Frost; Paul Ehrlich, Research Scientist, Pacific Northwest National Laboratory, Michelle Daniels, Property Manager, US General Services Administration; and Jay Santos, Principal, Facility Dynamics Engineering
2:45	Depart to San Francisco via BART (Lake Merritt Station to Embarcadero Station)
3:30	Arrive at DPR Construction, Inc., Zero Net Energy Building, San Francisco
3:45	Tour of DPR Construction Regional Office
4:30	Managing a Zero Net Energy Building – Edmundo Martinez, Facilities Manager, DPR
5:00	ZNE Controls Integration Strategy for DPR Building – Janey Kaster, Manager, Honeywell International, Inc.
5:45	Catered dinner at DPR
6:30	Zero Net Energy (ZNE) Buildings: a Primer – Edward Dean, Architect & Author of <i>Zero Net Energy: Case Study Buildings, Vols. I & II</i> ; Can Anbarlilar, Project Manager, PG&E









7:30 Adjourn, return via BART to Lake Merritt Station, pick-up by hotel shuttle

Friday, January 13 – Berkeley

6:45 am	Hotel breakfast
7:45	Shuttles leave from Hotel to Lawrence Berkeley National Lab (LBNL) 1 Cyclotron Road MS 90R3111, Berkeley, CA. 94720
8:30	Arrival at FLEXLAB to install data loggers; proceed afterwards to Wang Hall
9:00	Welcome to LBNL and Overview of Presentations and Activities of the Day – Mary Ann Piette, Director of LBNL Building Technology & Urban Systems (BTUS) Division
9:15	Commercial Building Energy Saver (CBES) - Tianzhen Hong, BTUS; Kaiyu Sun, BTUS; Mary Ann Piette
10:15	CBES Exercise - Form workgroups to analyze various retrofit options
11:15	Break
11:30	CBES Exercise: Report Out
12:00 pm	Lunch/networking
12:30	U.S. Appliance Efficiency Standards – Alison Williams, Energy Efficiency Standards Group, LBNL
1:00	Using the Cloud to Manage Energy-Related Services in Buildings - Alan Meier, Electronics Lighting & Networks Group, LBNL & Energy Efficiency Center, UC Davis
2:00	Data Analysis: Introduction to Graphical Interpretation of Building Data – Ted Wilinski & Chuck Frost
2:30	Break
2:45	Data Analysis Exercise (based on data collected at FLEXLAB) - Form workgroups to download data, analyze, and formulate conclusions
4:30	Data Analysis Exercise: Report Out & Discussion
5:15	Shuttle from Wang Hall to UC Berkeley Faculty Club, 1 Faculty Club, Berkeley, CA. 94720
5:30	Networking dinner - UC Berkeley Faculty Club









6:00 Evening Talk: Extreme Weather Conditions in the Face of Climate Change –

Michael Wehner, Sr. Staff Scientist, Computational Research Division, LBNL

7:00 Adjourn, LBNL shuttle to hotel

Saturday, January 14 - Oakland

6:30am	Hotel breakfast
8:15	Shuttle from hotel to Laney College
8:30	Preview of Day 4 - Larry Chang
9:00	Action Plan Presentations by Faculty
12:00pm	Lunch & Action Plan Presentations continue
1:00	Wrap-up discussion
1:15	Evaluations
2:00	Adjourn and depart







