

LBLN-UTC-Academia Meeting on Research Collaboration Opportunities for High Performance Buildings and the establishment of the High Performance Buildings Research & Implementation Center (HiPer BRIC)

Friday, December 21, 2007

Building 50A, Room 5132

Lawrence Berkeley National Laboratory

Agenda

Summary: The purpose of the meeting is for the LBL-UTC-Academia team to review the vision, the proposed strategy and key research challenges for a large-scale Government laboratory-University-Industry collaborative research program in high performance buildings with senior leadership at LBL, UTC, UCB and UCSB. The outcome should be feedback on the proposed strategy and recommended actions.

Friday, December 21st - Building 50A, Room 5132

Overview	
7:30-8:00a	Welcome, introductions, continental working breakfast
8:00-8:20	LBL Overview & Partnership Goals – Steve Chu (Director of LBNL)
8:20-8:40	UTC Overview & Partnership Goals – Michael McQuade (CTO, United Technologies)
8:40-9:10	Joint Vision for HiPer BRIC – Arun Majumdar (Director, EETD, LBNL; UCB)
9:10-9:20	UCSB Engineering Energy Initiatives – Matt Tirrell (Dean of Engineering, UCSB)
9:20-9:30	UC Berkeley Engineering Energy Initiatives – Shankar Sastry (Dean of Engineering, UCB)
9:30-10:00	Discussion & Feedback
10:00-10:10	<i>Break</i>
Detailed Technical Presentations (State-of-the-Art, Gaps & Future Directions)	
10:10-10:30	Lighting & Windows – Steve Selkowitz (LBNL)
10:30-10:50	Model Based Systems Engineering for High Performance Building Simulation & Design - Scott Bortoff and Clas Jacobson (UTRC), Michael Wetter (LBNL), Alberto Sangiovanni-Vincentelli (UCB)
10:50-11:10	Onsite Power & Microgrids /Distributed Energy Systems –Chris Marnay (LBNL)
11:10-11:30	Automating and Optimizing Demand Responsive Commercial Buildings – Mary Ann Piette (LBNL)
11:30-11:50	Sensors, Actuators, & Communications – Paul Wright (UCB & CITRIS)
11:50-12:00p	<i>Break</i>
L	12:00-
U	12:20
N	12:20-
C	12:40
H	
12:40-1:00	Large-scale Building Demonstration – Dale Sartor (LBNL)
1:00-1:20*	Indoor Health & Environment – Ashok Gadgil (LBNL)
1:20-1:35	<i>Break</i>
1:35-2:30	Discussion & Feedback
2:30-4:15	Visit to LBNL Research & User Facility (Building Test Facility, Molecular Foundry) and return to 50A-5132
4:15-5:00	Recommendations, Action Items & Adjournment

*1:15-2:15 pm Private Meeting – Michael McQuade, Clas Jacobson, Steve Chu and Arun Majumdar (Building 50A, Rm 4133F)