

**High Performance Buildings Research and Implementation Center  
Core Group Workshop Agenda  
May 1-2, 2008  
Perseverance Hall, LBNL**

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**Workshop Purpose:** To present the vision and key research areas of HiPerBRIC and to create initial technology roadmaps to meet the HiPerBRIC objectives.

**May 1, 2008**

9:00AM Welcome. Introduction to HiPerBRIC Vision. Goals for the workshop (Arun Majumdar).

United Technologies Corporation/LBNL/University Collaboration Intent (Michael McQuade)

Introductions, Workshop Scope, Output and Usage (Rick Diamond)

9:30AM Discussion of technology topics for the breakouts and criteria for HiPerBRIC projects/technologies. Team leaders will summarize view of “problem statement” [30 minutes]

Breakout topics [5-6 participants per breakout]:

1. Design Methodology and Tools for Integrated High Performance Buildings
2. Optimal and Robust Control of High Performance Buildings
3. Automated Diagnostics, Prognostics and Commissioning of High Performance Buildings
4. HiPerBRIC Integrated Test and Validation Facility
5. Partner Engagement Game Plan

10:00AM Breakout Session #1 “sticky exercise” [45 minutes]

1. Review of problem statement (“current state” - specifics about how is it done today)? Use “problem statement” to map specifics.
2. “Desired state” criteria. Goals for 2013 (mid-term) and 2018 (“desired state”) and associated metrics?

10:45AM *Break*

11:00AM Report from Breakout teams [30 minutes]

11:30AM Breakout Session #2 “sticky exercise” [2 hours 30minutes, includes lunch]

3. Assessment of key bottlenecks in current state. Pinpointing the fundamental gaps and barriers on the existing process maps.
4. Assessment of technologies and concepts to address the gaps and an assessment of the technology maturity/readiness levels (proven in lab-scale, validated at building testbed scale, field deployment-ready, i.e. classify as short term and long term).

*12:00PM Breakout Session #2 continues over lunch*

2:00PM Report from Breakout teams [45 minutes]

2:45PM Breakout Session #3 [60 minutes]

5. Assessment of linkages of short- and long-term technology development. Creation of draft technology roadmaps. Identification of metrics for technologies (how to reduce bottlenecks) and feasible targets for improving the metrics.

*3:45PM Break*

4:00PM Report from Breakout teams [45 minutes]

4:45PM Priorities and linkages identified by breakout teams (Group Discussion)

5:15PM Action Items

5:30PM Adjourn

### **May 2, 2008**

8AM-Noon Breakout session group leaders/writers convene to draft HiPerBRIC technology action plan

- Identify critical seed project topics and agree on scope
- Identify critical demonstration project opportunities and agree on scope
- Create proposal teams
- Create timeline for govt. engagement and proposal writing