MIT Concrete Sustainability Hub Showcase

May 14-15, 2014, MIT Media Lab and Hyatt Regency Cambridge

Agenda

**Wednesday, May 14**  
6:00 – 8:00 pm  
Cocktail reception and poster session featuring research by MIT students and postdoctoral associates

**Thursday, May 15**  
7:00 – 9:00 am  
Breakfast / Registration  
(Courtyard Reception & Ballroom Prefunction BCD)

9:00 – 9:10 am  
Welcome  
*President's Ballroom CD*  
Dr. Jeremy Gregory  
Prof. Markus Buehler  
Assoc. Provost  
Karen Gleason

9:10 – 9:20 am  
The MIT Concrete Sustainability Hub: a successful industry-academia partnership  
Dr. Jeremy Gregory

9:20 – 10:10 am  
What did we learn in Phase I about concrete science?  
Dissolution  
Prof. Jeffrey Grossman  
Precipitation  
Prof. Hamlin Jennings  
Hardened properties  
Dr. Roland Pellenq

10:10 – 10:30 am  
Break

10:30 – 11:20 am  
What did we learn in Phase I about life cycle cost and environmental assessment?  
Pavement-vehicle interaction  
Prof. Franz Ulm  
Pavement life cycle cost and environmental assessment  
Dr. Randolph Kirchain  
Building life cycle cost and environmental assessment  
Ms. Randa Ghattas

11:20 – 11:40 am  
What can we expect in Phase II of the CSHub?  
Dr. Jeremy Gregory

11:40 – 12:00 pm  
Recognition  
Dr. Jeremy Gregory

12:00 – 1:30 pm  
Buffet Lunch  
(Riverside Pavilion)
Three interactive panel discussion sessions on CSHub Phase I research topics:

1. Concrete Science (President’s Ballroom CD)
   - Water sorption hysteresis, transport, and drying shrinkage
     Prof. Martin Bazant
     Prof. Hamlin Jennings
     Mr. Matthew Pinson
   - Clinker toughness and reactivity experiments
     Dr. Roland Pellenq
     Dr. Christian Hoover
     Dr. Konrad Krakowiak

2. Pavements (Paul Revere Room)
   - Pavement-vehicle interaction and pavement life cycle assessment
     Prof. Franz Ulm
     Dr. Randolph Kirchain
     Dr. Arghavan Louhghalam
     Mr. Mehdi Akbarian
     Ms. Xin Xu
   - Pavement life cycle cost analysis
     Dr. Randolph Kirchain
     Mr. Omar Swei

3. Buildings (Thomas Paine Room)
   - Incorporating hazard resistance into building life cycle cost analysis
     Dr. Jeremy Gregory
     Ms. Randa Ghattas
     Dr. Arash Noshadravan
   - Early-stage building life cycle assessment
     Dr. Jeremy Gregory
     Ms. Randa Ghattas
     Mr. Josh Hester
     Mr. Paolo Tecchio