

Measurement Science Needs for Advancing Infrastructure Delivery Workshop Agenda

May 19-20, 2010

Building 101, Employee Lounge

National Institute of Standards and Technology, Gaithersburg, MD

Wednesday, May 19, 2010

7:30 am Registration

8:30 am Welcome and Opening Remarks (Mark Palmer, Program Manager, NIST)

Plenary Speakers

- **Construction Productivity – Innovations Critical to the Nation** (Ted Kennedy, retired Chairman of BE&K)
- **Highlights of Emerging Innovations** (Charles Thornton, Founding Principal of Thornton Tomasetti; Chairman of STRAAM)
- **Construction Productivity: Advances and Opportunities for Improvement** (Paul Goodrum, Associate Professor, College of Engineering, University of Kentucky)
- **Advances in Infrastructure Delivery and Stewardship – R&D Perspective** (James Garrett, Professor and Head, Civil and Environmental Engineering Department, Carnegie Mellon University)

10:15 am Break (15 min)

Plenary Speakers

- **Baseline Report: Technology and Measurement Challenges**
 - **The Need for Standards & Productivity Improvement in the Electric Sector** (Robert Austin, EPRI)
 - **New Technologies in Bridges – The Hybrid Composite Beam** (John Hillman, HC Bridge)
 - **Cross-cutting and Common Themes** (Bruce Strupp, Design Technology Director for CH2MHILL)
- **Comments on the Baseline Report and Instructions for Breakouts** (Joan Pellegrino, Energetics)

12:00 pm **Lunch**

Breakout Sessions Begin

Drivers, Process Transformations, and Technology Enablers (45 min)

1:00 pm Bridges: Employee Lounge

Power: Dining Room C

Water: Dining Room A

1:45 pm **Broad Challenges** (60 min)

2:45 pm **Break** (flexible)

3:00 pm **Measurement Science Problems/Challenges** (75 min, continues next day)

4:15 pm **Day One Report Outs** (45 min)

5:00 pm **Adjourn**

Thursday, May 20, 2010

8:30 am *Breakout Sessions Continue*
Measurement Science Problems/Challenges (60 min)

9:30 am **Priority Measurement Topics** (small groups exercise, 60 min)

10:30 am **Break and move to general session**

11:00 am **Report Outs**

12:30 pm **General Session Adjourns** (optional lunch)

1:30 –
3:00 pm **Session Chairs Meeting**

Rev 5/17/2010