

Tentative Agenda as of November 23, 2011
Adding Sustainability to Engineering Education
May 15-16, 2012
Part of ISSST Conference, Boston, MA

Instructors

Syracuse University: Cliff Davidson
Carnegie Mellon: Scott Matthews
Arizona State: Braden Allenby, Thomas Seager
Georgia Tech: John Crittenden

TUESDAY MAY 15, 2012

Plenary Sessions

- 1:00-1:20 **1** Introduction and Goals: A Transition in Engineering Education **Cliff Davidson**
- 1:20-2:00 **2** Sustainable Engineering (SE): What is it? **Brad Allenby**
- 2:00-2:40 **3** The Gigaton Problem **John Crittenden**
- 2:40-3:00 Break
- 3:00-3:40 **4** SE Topics: Life Cycle Assessment, Material Flow Analysis, Energy Flow in Ecosystems and Industrial Ecosystems, other possible topics **Several instructors**
- 3:40-4:40 **5** Participants meet in breakout groups for three simultaneous sessions. Each group discusses examples of projects, classroom activities, laboratory activities, published articles or books, and other activities and materials that can be used in classes with SE content. The group decides on two or three of these activities and materials to recommend as especially useful, and chooses one participant to report the recommendations to the full workshop. Breakout rooms and leaders:
 Group 1: *Location and group leader TBA*
 Group 2: *Location and group leader TBA*
 Group 3: *Location and group leader TBA*
- 4:40-5:00 **6** Entire workshop re-convenes: One participant from each breakout group summarizes the recommendations of the group.
- 5:00-5:40 **7** Teaching SE to freshmen and sophomores **TBA**
- 5:40-6:00 Evaluations distributed and collected

WEDNESDAY MAY 16

Plenary Sessions

- 9:00-9:40 **8** Case studies in SE: the automobile as an example **Brad Allenby**
- 9:40-10:40 **9** Participants meet in breakout groups for three simultaneous sessions. Each group discusses case studies they have used or would like to develop, based on their personal experiences. The group decides on one or two of these case studies to recommend as especially useful, and chooses one participant to report the recommendations to the full workshop. Breakout rooms and leaders:
 Group 1: *Location and group leader TBA*

Group 2: *Location and group leader TBA*

Group 3: *Location and group leader TBA*

10:40-11:00 **10** Entire workshop re-convenes: One participant from each breakout group summarizes the recommendations of the group.

11:00-11:30 **11** Group discussion of Metrics of Sustainability: How do we measure societal progress toward sustainability?

11:30-12:00 **12** The CSE (Center for Sustainable Engineering) Electronic Library **Cliff Davidson**

12:00 **13** Wrap-up session. Evaluations distributed and collected **Cliff Davidson**

Workshop concludes around 12:10.