

Agenda

Second Annual Summer 2009 Project Review & IAB Meeting
NSF I/UCRC Smart Vehicle Concepts Center <www.SmartVehicleCenter.org>
The Ohio State University

**E100 Scott Laboratory, Department of Mechanical Engineering, 201 West 19th Ave.,
Columbus, OH 43210**

August 12

Wednesday

8:30 – 9:30 ACADEMIC COLLABORATIVE PLANNING MEETING (open to OSU and TAMU faculty only) - Room E525

9:45-10:00 Registration for the short course and coffee – Room E100

10:00 – 12:00 PRE-MEETING TECHNICAL SHORT COURSE (for SVC Sponsors and Invited Guests) - Room E100

10:00 – 12:00 Technical short course on shape memory alloys (Prof. Boyd?)

12:00 – 12:30 Registration / Boxed lunch

12:30 – 5:15 OPEN SESSION (for SVC Sponsors and Invited Guests) – Room E100

12:30 Introductory remarks and welcome (SVC directors)

12:40 State of the center – Raj Singh

1:10 NSF I/UCRC program – NSF Program Director and Evaluator

1:40 IAB meeting agenda – Duane Detwiler

1:45 Sponsors Forum (brief presentations by the sponsors on their organizations and their perspective of SVC research goals and methods)

3:15 Break

3:45 – 5:15 Research Overviews on Selected Projects

3:45 Listing of research thrusts & research news – Marcelo Dapino

4:00 Project evaluations (LIFE Forms) – Eric Sundstrom

4:05 Highlighted research projects (OSU)

- Noise and Vibration Technology for Rotorcraft Gearboxes and Airframes - Raj Singh & Greg Washington (Project # 32 - sponsored by NASA) (20 min.) – V. Srinivasan and B. Kim
- Engine Mount Actuation Mechanism (Project #35 – unfunded in year 2) (20 min)

4:45 Highlighted research project(s) (TAMU)

- [Presentation title(s) to be determined]

5:30 – 7:30 RECEPTION (for SVC Sponsors and Invited Guests) – Room E100
Wine & cheese reception and graduate student poster display



Agenda

August 13

Thursday

CLOSED SESSION (for SVC Sponsors and invited observers only) - Room E100

7:30 – 8:00 **Coffee and Bagels**

8:00 Project topics, leaders and mentors – Marcelo Dapino
Project evaluations (LIFE Forms) – Eric Sundstrom

8:15 – 9:55 **Technical Session I (on Sponsored Projects)**

8:15 Electrohydrostatic actuation and sensing (Project #1) – J. Larson
8:40 Design Tool for Smart Engine Mounts (Project #3) – B. Barszcz and J. Hu
9:05 Development of Interfacial Force Sensing Systems (Project #20) – J. Yoon and A. Gunduz
9:30 Galfenol Torque and Force Sensing (Project #30) – A. Mahadevan

9:55 – 10:25 **Break (coffee and soft drinks)**

10:25 – 12:05 **Technical Session II (on Sponsored Projects)**

10:25 Processing and Characterization of NiTiPd and NiTiPd-X Shape Memory Alloys for Aerospace and Space Exploration (Project #1.1) – Presenter?
10:50 Ni-rich Shape Memory Alloy Fatigue Testing and Modeling (Project #2.1) – Presenter?
11:15 High Torque Shape Memory Alloy Motors (Project #3.1) – Presenter?
11:40 Joining of Shape Memory Alloys and Structural Materials (Project #36) – R. Hahnlen and G. Fox

12:05 – 12:20 **Boxed Lunch**

12:20 – 2:00 **Technical Session III (on Sponsored Projects)**

12:20 Adaptive Seat Belt System Using Smart Material Technologies (Project #31) – S. Bharadwaj and B. Burton
12:45 Micro-Sensors for Sound Measurement (Project #33) – J. Xu
1:10 Smart Materials Database (with Focus on Elastomers) (Project #22) – Jung-Kyu Park
1:35 Multifunctional Composites with Embedded Sensing (Project #7) – R. Hahnlen and C. Hopkins

2:00 **Formal adjournment of the Closed Session**

2:15 – 4:15 **INDUSTRIAL ADVISORY BOARD (IAB) MEETING – Room E525**

4:15 – 5:00 **Informal discussions with sponsors (if needed)**

28 July 2009

