



**Agenda of Summer 2008 (First Annual) Project Review & IAB Meeting
NSF I/UCRC Smart Vehicle Concepts Center <www.SmartVehicleCenter.org>**

**The Ohio State University
E100 Scott Laboratory, Dept. of Mechanical Engineering, 201 West 19th Ave, Columbus, OH 43210**

August 13

Wednesday

OPEN SESSION (for SVC Sponsors and Invited Guests)

- 12:00 – 1:00 **Registration / Boxed Lunch**
- 1:00 – 2:15 **Center Overview**
 1:00 - *Welcome and Introduction* - Raj Singh, Center Director
 1:10 - *NSF I/UCRC Program* - Babu DasGupta, NSF Program Director
 1:30 - *State of the Center* - Raj Singh
 2:00 - *Project Evaluations* - Eric Sundstrom, NSF Evaluator
 2:05 - *IAB Meeting Agenda* - Duane Detwiler, IAB Chair
- 2:15 – 3:00 **Sponsored SVC Projects**
 - *Summary of several projects* - OSU Faculty
- 3:00 – 3:30 **Break (coffee and soft drinks)**
- 3:30 – 4:30 **Short Course**
 - *Shape Memory Alloys* – Dimitris Lagoudis and Jim Boyd, Texas A&M University
- 4:30 – 5:00 **Presentation Academic Partners**
 4:30 - Texas A&M University (Approved by NSF) – Jim Boyd
 4:45 - Wayne State University (Potential Partner) - Jim Woodyard
- 5:00 – 7:00 **Wine & Cheese Reception**

July 24, 2008 version



CLOSED SESSION (for SVC Sponsors Only)

- 7:30 – 8:00 **Coffee and Bagels**
- 8:00 – 9:25 **Technical Session I (on Sponsored Projects)**
 8:00 Sponsored Project Topics, Leaders and Mentors– Raj Singh
 8:05 Project Evaluations (LIFE Form) – Eric Sundstrom
 8:10 Electro-Hydrostatic Actuation and Sensing - Marcelo Dapino (*Project 1*)
 8:35 Multifunctional Composites with Embedded Sensing - Marcelo Dapino, Karl Graff, Matt Short,
 Suresh Babu & John Lippold (*Project 7*)
 9:00 Joining of Shape Memory Alloys and Structural Materials - Marcelo Dapino and Tim Frech
 (*Project 36*)
- 9.25 – 9:45 **Break (coffee and soft drinks)**
- 9:45 – 11:50 **Technical Session II (on Sponsored Projects)**
 9:45 Comparative Design Tool for Smart Engine Mounts - Raj Singh (*Project 3*)
 10:10 Development of Smart Engine Mount Actuation Mechanism and Active Elastomers - Marcelo
 Dapino (*Project 30*)
 10.35 Development of Interfacial Force Sensing Systems - Raj Singh (*Project 20*)
 11:00 Micro-Sensors for Sound Measurement - Marcelo Dapino (*Project 33*)
 11.25 Adaptive Seat Belt System Using Smart Material Technologies - Marcelo Dapino (*Project 31*)
- 11:50 – 12.20 **Boxed Lunch**
- 12:20 – 1.40 **Technical Session III (on Sponsored Projects)**
 12:20 Noise and Vibration Technology for Rotorcraft Gearboxes and Airframes - Raj Singh & Greg
 Washington (*Project 32*)
 12:45 Development of Contactless Torque Sensor - Marcelo Dapino (*Project 35*)
 1:10 Silent Gearbox Concepts – Raj Singh (*Project 29*)
 1:25 Smart Materials Database (with Focus on Elastomers) – Greg Washington (*Project 22*)
 1.40 IAB moves to room E525
- 1:50 – 4:00 INDUSTRIAL ADVISORY BOARD (IAB) MEETING**
 (Room E525, for IAB members + NSF + Center Director)
 Overview - Duane Detwiler, IAB Chair
 IAB Bylaws - Duane Detwiler
 NSF Perspective - Babu DasGupta
 SVC Operational Report - Raj Singh
 LIFE Form Summaries and Discussion - Eric Sundstrom
 Member Perspective - Sponsors
 Selection of Year 2 Projects
 OSU and NSF I/UCRC Center Procedures - Raj Singh & Cyndy Bonsignore
 Center Needs in Year 2 and Integration of TAMU Project Activation
 General discussion (Bylaws, Collaborations, etc.)
 Next Steps and Winter 2009 Meeting (at Texas A&M)
 Adjourn
- 4:00 – 5:00 **Informal discussions (Room E100)**

