

SVC Meeting Agenda, 20-21 August 2015

Eighth Annual Summer 2015 Project Review & IAB Meeting
NSF I/UCRC Smart Vehicle Concepts Center <www.SmartVehicleCenter.org>
Hosted by Honda R&D Americas

Location: 21001 State Route 739, Raymond, OH 43067 <<http://www.hondaresearch.com/>>

DAY 1: Thursday, 20 August 2015 (Room: CCA) OPEN SESSION for Registered Participants

9:30am – 7:00pm	OPEN SESSION (for SVC Sponsors and Invited Guests)	Presenters
9:30am – 11:30am	Tour of Transportation Research Center Facilities (OPTIONAL) 10820 State Route 347, East Liberty, OH 43319-0367 < http://www.trcpg.com/ >	Please register by 5 August 2015
11:00am - 12:00pm	Check-in with Honda Front Desk and Registration for SVC Meeting	
12:00pm – 2:00pm	Lunch & Project Poster Displays	OSU Students/Staff
2:15pm – 3:05pm	Overview of Center Activities	
2:15pm	State of the Smart Vehicle Concepts Center	R. Singh (OSU)
2:45pm	Overview of Industrial Advisory Board Meetings	T. Greetham (Moog)
2:50pm	NSF I/UCRC Program & LIFE Forms	V. Hill (NSF)
3:05pm – 3:20pm	Break (soft drinks)	
3:20pm – 5:20pm	Research Presentations	Presenter(s)
3:20pm	Transient NVH Issues in Powertrains/Drivelines Arising due to Clearances and Friction	R. Singh & M. Krak (OSU)
3:50pm	Process-Property Relationships in Ultrasonic Additive Manufacturing of Lightweight Structures	M. Dapino & A. Hehr (OSU)
4:20pm	Vehicle Control Issues	W. Post (HRA)
4:50pm	Undergraduate Design Projects Using Simulation Methods - Honda R&D Sponsored (SVC #20 & #40)	J. Dreyer, S. Noll & R. Singh (OSU) and A. Sheldon (HRA)
5:25pm	Adjourn and Informal Networking in Cafeteria	

6:00 – 7:30pm INDUSTRIAL ADVISORY BOARD (IAB) MEETING - Session I (dinner provided) (Room: SRR)

Agenda:

- Minutes of February 2015 Meeting and Action items
- SVC Strategic Planning for Phase III
- Winter 2016 Meeting Dates and Other Action Items

Day 2: Friday, 21 August 2015 (CCA) CLOSED SESSION for SVC Sponsors & Invited Observers only

Note: Guests may attend Day 2 (Closed session) if they sign the non-disclosure form. If interested, contact Caterina Runyon-Spears soonest for the form (runyon-spears.1@osu.edu).

Time	Topic	Presenter			Organization
8:00am – 8:30am	Coffee & Bagels				
8:30am – 8:40am	Project Topics, Leaders and Mentors	M. Dapino			OSU
	Project Evaluations (LIFE Forms)	V. Hill			NSF
	LIFE Form website: http://iucrclife.chass.ncsu.edu/lifeforms/ Choose "Smart Vehicle Concepts Center" password: to be provided later				

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8:40am – 10:20am	Technical Session I (FOR SVC MEMBERS ONLY)	Presenter	SVC #	Project Leader(s)	Mentor(s) (Organization)
8:40am	Characterization and Modeling of Passive and Adaptive Bushings and Mounts: Part D – Vehicle Sub-Systems & Hybrid Method	S. Noll	#40D	R. Singh, S. Noll, J. Dreyer	C. Gagliano (Honda R&D), M. Dunlop (TRC), B. Liu (F.tech), H. Henry (Tenneco)
9:00am	Part C & D – Joint Characterization	R. Rengarajan & S. Noll	#40CD		
9:20am	Part A – Rubber Bushings	L. Fredette & S. Noll	#40A		
9:40am	Ultrasonic Friction Control	S. Dong	#31A	M. Dapino	R. Hahnlen, D. Detwiler (Honda R&D), T. Krantz (NASA)
10:00am	Smart Condition Detection and Monitoring	M. Wang, L. Headings	#44	M. Dapino, L. Headings	H. Dorfi, T. Wei (Bridgestone)

10:20am – 10:40am	Break (coffee and soft drinks)				
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10:40am – 12:00pm	Technical Session II (FOR SVC MEMBERS ONLY)	Presenter	SVC #	Project Leader(s)	Mentor(s) (Organization)
10:40am	Characterization and Modeling of Passive and Adaptive Bushings and Mounts: Part E - Exhaust System Isolation	J. Dreyer & N. Masticola	#40E	R. Singh J. Dreyer, S. Noll	G. Smith (Tenneco)
11:00am	Characterization and Modeling of Passive and Adaptive Bushings and Mounts: Part B – Hydraulic Bushings	L. Fredette	#40B	R. Singh, J. Dreyer, S. Noll	C. Gagliano (Honda R&D), M. Dunlop (TRC), B. Liu (F.tech), H. Henry (Tenneco)
11:20am	Morphing Panels for Aerodynamic Performance	S. Chillara & L. Headings	#45	M. Dapino, L. Headings	U. Gandhi (Toyota Technical Center)
11:40am	Embedded Fiber Optic Sensors for Structural Health Monitoring	J. Schomer & A. Hehr	#49	M. Dapino	T. Greetham (Moog)

12:00pm – 12:45pm	Lunch Session				
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12:45pm – 2:40pm	Technical Session III (FOR SVC MEMBERS ONLY)	Presenter	SVC #	Project Leader(s)	Mentor(s) (Organization)
12:45pm	Mechanoluminescent Paintable Light Sources in Automotive Lighting Systems	S. Krishnan	#46	V. Sundaresan	D. Detwiler & N. Verwys (Honda R&D)
1:05pm	Development of Two Smart Mechanical Components for Reducing Vibration and Noise: Part A – Variable Stiffness Components Part B – Vibration Damping and Energy Harvesting Part C – GUI-Based Magnetostrictive System Modeling	J. Scheidler	#47A	M. Dapino	V. Asnani (NASA Glenn), D. Detwiler (Honda R&D)
1:25pm		Z. Deng	#47B		
1:45pm		B. Neilon	#47C		
2:05pm	Stress Field in Metal Matrix Composite Macro Interfaces	H. Kang	#48	M. Dapino, S. Soghrati	A. Loukus (REL)
2:25pm	Active and Adaptive Control of Pulsating Pressures in Supercharger Inlet/Outlet Ducts	J. Plattenburg	#50	R. Singh, J. Dreyer	R. Glover (Eaton)

2:40pm Closed Session Adjourns (IAB members should go to SRR. Non-IAB members may go to cafeteria to talk with students.)

2:45pm-4:15pm INDUSTRIAL ADVISORY BOARD (IAB) MEETING SESSION II (in SRR)

- Center Operations – Raj Singh
- LIFE Form Summaries and Discussion – Victoria Hill
- Outstanding Presentations
- Members' Perspective and Next Steps
- Action Items and Adjourn

10 August Version