

SVC Meeting Agenda, Friday, 3 May 2024

Seventeenth Semi-Annual Spring 2024 Project Review and IAB Meeting NSF IUCRC Smart Vehicle Concepts Center <www.SmartVehicleCenter.org>

Hosted by The Ohio State University

Location: E100 Scott Laboratory, 201 West 19th Avenue, Columbus, OH 43210

8:00a - 8:30a	Registration / Breakfast (coffee and bagels)	
8:15a	Project review welcome, project topics, leaders, and mentors overview	M. Dapino (OSU)

8:30a - 9:30a	Technical Session I: Moderated by: B. Losey	Presenter(s)	SVC#	Project Leader(s)	Mentor(s) (Organization)
8:30a	Ultrasonic additive manufacturing for automotive structures: UAM process modeling	M. Ali (G)	#51B	M. Dapino L. Headings B. Losey	R. Hahnlen (Honda D&M)
8:45a	UAM for structural reinforcement	A. Kyle (G) L. Headings	#51C		
9:00a	UAM steel builds	N. Zhao (G)	#51D		
9:15a	Joining of metal and fiber reinforced polymers	N. Zhao (G) B. Losey	#51E		

9:30a	Coffee break / student posters (30 minutes)
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10:00a - 11:00a	Technical Session II: Moderated by: B. Losey	Presenter(s)	SVC#	Project Leader(s)	Mentor(s) (Organization)
10:00a	Magnetically-active composites for vehicle applications	M. Khattak (G)	#57C	M. Dapino L. Headings B. Losey	U. Gandhi (Toyota)
10:20a	Dynamic self-reforming lithium/solid electrolyte interface for solid-state battery	M. Newman (G)	#61	M. Canova J. Sayre	C. Brooks (HRI)
10:40a	Effective binders for high-loading SiOx anodes	S. Mendez (G)	#62	A. Co	C. Brooks (HRI)

11:00a	Lunch break and student posters (60 minutes)
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12:00p-1:10p	Technical Session III: Moderated by: L. Headings	Presenter(s)	SVC#	Project Leader(s)	Mentor(s) (Organization)
12:00p	Smart restraint systems	V. Srinivas (G)	#63	M. Dapino	R. Hahnlen (Honda D&M) S. Malcolm (Honda D&M) C. Markusic (Honda D&M) S. Combs (Autoliv)
12:20p	Multifunctional structural batteries for electric vehicles	L. S. Singavarapu (G)	#66	J.-H. Kim J. Sayre	P. Gilmore (Toyota)
12:40p	Integrated battery load management and powertrain simulator development for electric school bus fleets	A. Hanif	#67	Q. Ahmed	J. High (Daimler Truck)
1:00p	New project updates	TBD			
1:10p	TECHNICAL SESSION ADJOURNS				

1:30p INDUSTRIAL ADVISORY BOARD (IAB) MEETING SESSION (in E525)

1:30p – 2:45p Agenda:

- Minutes of September 2023 meeting and action items – R. Hahnlen
- Update on Outstanding Student Presentation Award
- Autumn 2024 meeting dates
- Center operations – Marcelo Dapino
- Members' perspectives
- Action items

2:45p – 3:15p Executive session (IAB members only)

3:15p INDUSTRIAL ADVISORY BOARD (IAB) MEETING ADJOURNS