

SVC Meeting Poster List, 18-19 March 2021

SVC Posters

SVC #	Title	Presenter	Project Leader(s)
#51B	Ultrasonic additive manufacturing for automotive structures: UAM process modeling	G. Venkatraman (G)	M. Dapino L. Headings
#51C	Ultrasonic additive manufacturing for automotive structures: UAM for structural reinforcement	L. Headings	M. Dapino L. Headings
#51D	Ultrasonic additive manufacturing for automotive structures: UAM steel builds	N. Zhao (G)	M. Dapino L. Headings
#51E	Ultrasonic additive manufacturing for automotive structures: Joining of metal and fiber reinforced polymers	H. Guo (G)	M. Dapino L. Headings
#52	Multifunctional structural polymer composites for vehicle electrification	M. Newman (G)	V. Sundaresan N. Verma
#54	Magnetic gears	I. Nas (G) C. Freund (U)	M. Dapino
#57B	Flexible piezoelectric sensors for vehicle applications: Air speed and direction measurement	A. Ramanathan (G)	M. Dapino L. Headings
#58A	Optical multifunctional materials – Architectures for structural sensors: Architecture for mechanoluminescent structural sensors and sensing platforms	M. Newman (G)	V. Sundaresan N. Verma
#60	Distributed programmable actuation platforms	S. Mukhopadhyay (G)	V. Sundaresan N. Verma
#61	Dynamic self-reforming lithium/solid electrolyte interface for solid-state battery	M. Newman (G)	V. Sundaresan N. Verma
#62	Nanostructured material for high-energy density batteries	G. Gourdin S. Mendez (G)	V. Doan-Nguyen
#63	Smart restraint systems	S. Dong V. Srinivas (G)	M. Dapino S. Dong
SEED	Aeromechanic analysis and optimization of boundary layer ingestion turbomachinery	A. Wernick (G)	J.P. Chen
SEED	Analytical model for vehicle integrated photovoltaic systems	V. Kalra (G)	A. Contractor
SEED	On the feasibility of a temperature state observer for powder bed fusion additive manufacturing	N. Wood (G)	D. Hoelzle

G - Graduate student; U - Undergraduate student