

# GREAT DESIGNS IN STEEL

May 24, 2023  
Preliminary Agenda

Time EST	LOCATION		
	MAIN HALL		
7:00 AM	DOORS OPEN & BREAKFAST SERVED		
8:00 AM	<p><b>MORNING KEYNOTE ADDRESS</b> Chris Kristock, Vice President, AISI Automotive Program Remarks Lourenco C. Goncalves, Chairman, President and CEO, Cleveland-Cliffs Inc. Chris Michaels, Director, Global Body Structure and Integrated Systems, General Motors Company</p> <p><b>AUTOMOTIVE EXCELLENCE AWARD PRESENTATION</b></p>		
9:00 AM	BREAK		
	<b>TRACK 1 EV ARCHITECTURE</b>	<b>TRACK 2 MATERIALS</b>	<b>TRACK 3 WELDING, JOINING &amp; MANUFACTURING</b>
9:15 AM	<b>GENERAL MOTORS VEHICLE PROGRAM</b>	<b>STAMPING EVALUATION OF LASER WELDED BLANKS WITH DP980 STEEL</b> Hyunok Kim, EWI on behalf of A/SP	<b>NON-LINEAR TAILOR WELDED BLANKS APPLICATION IN CHASSIS FRAME</b> Graeme Ackersville & Eric Geng, Toyota Manufacturing North America
9:45 AM	<b>INNOVATIVE STEEL BATTERY HOUSING</b> Sergio Faria Rodriguez, GESTAMP	<b>EDGE FRACTURE CHARACTERIZATION OF DP 980 GI USING HALF-DOME TEST</b> Gang Huang, ArcelorMittal	<b>GMAW CONSUMABLE INNOVATIONS TO IMPROVE WELDING QUALITY ON ZINC-COATED STEELS</b> Taylor Dittrich & Corey Cox, Lincoln Electric
10:15 AM	BREAK		
10:30 AM	<b>NEW STEEL TUBE DESIGN FOR BEV BATTERY ENCLOSURE PROTECTION</b> Miao Yu, Cleveland-Cliffs	<b>CFPHS COMPONENT COMPARISON: SIMULATION VS. PHYSICAL TESTING</b> Sarah Tedesco, General Motors Company	<b>TECHNIQUE TO IMPROVE THE MECHANICAL PERFORMANCE OF PRESS-HARDENED STEEL SPOT WELDS</b> Olakunle Betiku, University of Waterloo on behalf of A/SP
11:00 AM	<b>A CATALOG OF DESIGN SOLUTIONS FOR BEV BATTERY ENCLOSURES</b> Kevin Eldridge, ArcelorMittal	<b>A NEW COATING DEVELOPED FOR HOT STAMPED STEEL PARTS</b> Dean Kanelos, Nucor	<b>EVALUATION OF IN-SITU MONITORING METHOD TO OBSERVE LME CRACKING BEHAVIOR</b> JiUng Kim, University of Waterloo on behalf of A/SP
11:30 AM	LUNCH IN MAIN HALL		
12:30 PM	<b>MULTI PART INTEGRATION CONCEPTS FOR INNOVATIVE BEV BODY ARCHITECTURE</b> Nachiket Gokhale, ArcelorMittal Tailored Blanks Americas	<b>DEVELOPMENT &amp; APPLICATION OF NEW UHS MULTI-PHASE GRADES</b> Brian Oxley, Shape Corp.	<b>ADVANCED TESTING METHOD FOR SPOT-WELD SEPARATION UNDER DYNAMIC LOADING MODE</b> Dr. TingTing Zhang, General Motors Company on behalf of A/SP
1:00 PM	<b>EV CRASH/LIGHTWEIGHT COMBO MADE OF OLPB DOOR RING &amp; WAVE ROCKER</b> Dean Bartlomucci, GESTAMP	<b>STRAIN AND BAKE PROPERTIES OF UHSS</b> Dr. Haea Lee, on behalf of A/SP	<b>MODELLING OF RESISTANCE SPOT WELDS IN 3RD GEN AHSS FOR USE IN VEHICLE CRASH CAE SIMULATIONS</b> Abdelbaset R H Midawi and Cameron Tolton, University of Waterloo on behalf of A/SP
1:30 PM	BREAK		
1:45 PM	<b>MECHANICAL FASTENING SOLUTIONS FOR BATTERY TRAYS: DESIGN, TESTING &amp; VALIDATION</b> Eric Webber, PROFIL	<b>EVALUATION OF DAMAGE ACCUMULATION FRACTURE MODELS IN NON-LINEAR STRAIN PATHS</b> Cliff Butcher, University of Waterloo on behalf of A/SP	<b>INSIGHTS MEASURING THE PRESS TONNAGE OF 3RD GEN AHSS STAMPINGS</b> Vince Millioto, Martinrea, on behalf of A/SP
2:15 PM	<b>STAF PROCESS MAXIMIZES LIGHTWEIGHTING OF CAR BODY FRAME</b> Ryuichi Funada, Sumitomo Heavy Industries	<b>ON TRUE FRACTURE STRAIN OF AHSS SHEETS: MEASUREMENT AND DERIVATION</b> Dr. Jun Hu, Cleveland-Cliffs	<b>DIE WEAR TESTING - AHSS EG/GI COATED</b> J.P. Singh, General Motors Company on behalf of A/SP
2:45 PM	<b>STEEL E-MOTIVE: DEVELOPMENT OF AHSS BODY STRUCTURE FOR FULLY AUTONOMOUS MAAS</b> Dean Kanelos, Nucor & Juan Pablo Pedraza	<b>ACCRA HOT FORMED BUMPER BEAM TO REPLACE ALUMINUM</b> Mark Sullivan, Multimatic	<b>STRETCH BENDABILITY EVALUATION OF MONOLITHIC &amp; LASER WELDED BLANKS</b> Sobhan Nazari Tiji, Cleveland-Cliffs
3:15 PM	BREAK		
3:30 PM	<b>EFFICIENT PRODUCTION OF STRUCTURAL COMPONENTS FOR ELECTRIC VEHICLES WITH ROLL FORMING</b> Dr. Tilman Traub, Dreistern GmbH & Co.KG	<b>NEW SAE SPECIFICATIONS SUPPORTING A/SP, AUTO OEM'S AND THE STEEL INDUSTRY</b> Alan Pearson, Whitehorse Mfg. Quality Consultants	<b>COST EFFECTIVE COLD FORMING SOLUTIONS WITH TAILOR ROLLED PRODUCTS</b> Markus Zoernack, Mubea Tailor Welded Blanks
4:00 PM	<b>HOT STAMPING DIE DEVELOPMENT AND PROCESS SIMULATION MART 1500 AS</b> Tim Lim & Mike Austin, ArcelorMittal	<b>NON-ORIENTED ELECTRICAL STEELS FOR AUTOMOTIVE APPLICATIONS</b> Chris Jones, Cleveland-Cliffs	<b>HYBRID BEAD DEVELOPMENT AND VALIDATION</b> Chris Roman, General Motors Company on behalf of A/SP
	MAIN HALL		
4:30 PM	<b>AFTERNOON PANEL</b> Steel's Role in Vehicle Electrification and Battery Storage Systems for EV Automotive Body Structures Moderator: Paul Belanger, R&D Director North America, GESTAMP		
5:00 PM	COCKTAIL/SOCIAL HOUR		
6:00 PM	EXHIBIT HALL CLOSURES		