



**AUTO
MOTIVE
CIRCLE**

FEB 24 – 25

AGENDA

JOINING IN CAR BODY ENGINEERING NORTH AMERICA

TUESDAY | FEBRUARY 24

8:00 AM Coffee & Breakfast Snack | Meet the Exhibitors on site

9:00 AM Welcome, Introduction
Dr. Dirk Meine, Automotive Circle, DE

JOINING ADVANCED MATERIAL COMBINATIONS

9:30 AM Solving EV Manufacturing Challenges: Advances in Joining Techniques, Process Innovation and Quality Assurance for Castings, Dissimilar Materials, and Battery Manufacturing
Michael Wiener, IPG Photonics, USA

10:00 AM Expanding Automotive Use of Structural Aluminium Die-Castings with Cost-Effective F-State Castings Made with Recycled Alloys Reliably Joined to All Steel Grades Using REW Joining Technology
Sean Farrell, Gaming Engineering, FR; Kotomi Nagata, Ryobi Ltd., JP

10:30 AM Predicting the Joinability of Metals Before Welding Them
**virtual presentation*
Alf Andersson, Volvo Car Corporation, SE

11:00 AM Coffee Break & Networking

PROCESS CONTROL AND QUALITY IN METAL JOINING

11:45 AM The Fastest and Safest Solution for Vehicle Body Assembly Simplification
Nachiket Gokhale, ArcelorMittal, USA

12:15 PM Tailor Welded Blanks – Process Control and Post Inspections
Sebastian Moser, Precitec Inc., USA

12:45 PM Lunch Break & Networking

JOINING AND WELDING SOLUTIONS FOR BATTERY STRUCTURES

2:15 PM Influence of Laserbeam Rotating to the Porosity of Laser-MIG-Hybrid Welded AW 6063-T6 Aluminum Alloy for Battery Trays
Wesley Doneth, Fronius USA LLC

2:45 PM Encapsulated High-Performance Laser Scanner Welding – Laser Welding Without a Laser Cell
Dr. Axel Luft, Scansonic MI GmbH, DE

ADVANCED SEALING AND ADHESIVE TECHNOLOGIES

3:15 PM Investigation and Prediction of Wet-Out Quality in Dispensing Processes for Structural Adhesive Materials (SAM) and Thermal Interface Materials (TIM)
Li-Wei Shih, General Motors and University of Michigan, USA; Richard Chinoski, Atlas Copco, USA

3:45 PM Coffee Break & Networking

4:30 PM Enabling High-Speed Robotic Adhesive Dispensing Through Metering System Design
Stephen Neumann, Graco Inc., USA; tba, Fanuc, USA

5:00 PM Zero-Defect Clinching: Achieving 100% Quality Control via Real-Time Deformation Compensation
Hiroyuki Natsume, Kistler Instrument Corp., USA

5:30 PM End of First Conference Day, Networking Night

WEDNESDAY | FEBRUARY 25

8:00 AM Coffee & Breakfast Snack | Meet the Exhibitors on site

ADVANCED JOINING CONCEPTS AND INTELLIGENT QUALITY CONTROL

9:00 AM TBA
**virtual presentation*
Tianqi LI, ZEEKR, Geely Group, CN

9:30 AM Breaking Barriers in Nondestructive Evaluation: AI-Enhanced Solutions for Future Smart NDE
Prof. Roman Gr. Maev, University of Windsor, Ontario, CA

10:15 AM Coffee Break & Networking

ROBOTICS, AUTOMATION, AND INTELLIGENT FASTENING

11:00 AM Impact of Clearance Holes in Flow Drill Screw Joints
Amanda Freis, Ford Motor Company, USA; Nicholas Dornik, Atlas Copco, USA

11:30 AM Overcoming New Challenges in Flow Drill Screw Driving: Robot Stability and Material Variability
Michael Schreyer, WEBER Schraubautomaten GmbH, DE

12:00 PM Digital Transformation of Spot Welding from Planning to Production with Simulation, Optimization and Digital Twins
Dr. Wenqi Zhang, SWANTEC Software and Engineering ApS, DK

12:30 PM Lunch Break & Networking

SMART QUALITY ASSURANCE AND DATA-DRIVEN MANUFACTURING

1:30 PM Numerical Studies on the Correlation Between Laser Welding Processes and Spectrum Traces in Cell Interconnects
Zixuan Wan, General Motors, USA

2:00 PM Transforming Automotive Material Simulation: Digital Materials Hub and Virtual Material Data Card
Arnob Banik, 3M, USA

IMPULSE: ELECTRICAL JOINING STRATEGIES

2:30 PM Signal Integrity and EMI Co-Design for Distributed Battery Modules: Functional Safety-Aligned Electrical Joining Strategies for Next-Generation EV Body Architectures
Abdul Salam Abdul Karim, Automotive Electronics Engineer and Independent Researcher, USA

3:00 PM Closing Remarks
OEM Advisory Board

3:10 PM Farewell
Dr. Dirk Meine, Automotive Circle, DE

3:15 PM End of Conference, Coffee & Contacts

* Conference program is subject to change
Status as of: December 15, 2025



REGISTER NOW!