cti symposium US

11 – 12 May 2027, NOVI (MI), USA | CONGRESS & EXPO

CALL FOR PAPERS

DEADLINE EXTENDED!

cti-symposium.world/us | #CTI_sym

THE CUSTOMER TAKES THE WHEEL

For more than five decades, North American powertrain strategy was shaped more by regulation than by the road. Compliance was king, setting the pace by driving investment cycles, product plans, and engineering priorities for the region.

But this is changing. And driven by this change, we find ourselves coming back to the only question that ultimately matters: **What does the customer actually want?**

The market has spoken on propulsion diversity – ICE, BEV, HEV, and EREV all have a place, depending on use case, region, energy prices, and infrastructure. However, at the same time **U.S. regulatory environment is opening up** and putting energy diversity, domestic production, and consumer choice back at the center. This is a new opportunity to lead innovation.

Additionally, **AI is changing how fast we can respond**. Adopting AI-assisted simulation, calibration, design, and validation workflows shorten development cycles and responses to shifting requirements – all without compromising rigor.

Meanwhile, the **Software-Defined Vehicle is rewriting the powertrain future.**
Electrification brings the need for close **integration** between **powertrain** and **chassis systems**. The engineering boundaries are dissolving. For powertrain and chassis engineers it's relevant to understand the system interdependencies, synergy potentials and prepare for next-gen E/E architectures.

These guiding signals highlight a shared truth- collaboration is essential to our future. This is why **CTI SYMPOSIUM USA brings together decision-makers and engineers** from OEMs and suppliers, and we invite you to join us.

Drive Innovation. Share Insights. Be Part of the Change.
We are looking for cutting-edge, practical, and visionary contributions. Share your solutions, highlight a case study, and challenge the status quo in front of 400+ decision-makers, engineers, and researchers!

Welcome to CTI Symposium USA – Let's build what's next, guided by the customer.

Patrick Lindemann
President, E-mobility & Chassis Mechatronics Americas,
Schaeffler Group USA Inc.
Chairman CTI SYMPOSIUM USA

6 STRONG REASONS TO SPEAK AT CTI SYMPOSIUM

IMPACTFUL NETWORKING
PERSONAL BRANDING
INDEPENDENT PLATFORM
STRATEGIC & TECHNICAL FOCUS
ACCESS TO DECISION MAKERS
GLOBAL INDUSTRY VISIBILITY

Tony Pistagnesi
Executive Director – Sales,
Dauch Corporation
Co-Chair CTI SYMPOSIUM USA

IMPRESSIONS 2026

25h
of Content &
Networking

60+
Expert Lectures

12h+
Networking
Hours

40+
Exhibitors

20+
Countries

450+
Industry
Representatives

BE PART OF THIS #1 BUSINESS PLATFORM

PARTICIPATE AS SPEAKER

Experts of all development areas in the field of automotive propulsion systems for passenger cars and commercial vehicles, components like e-motors, electric/electronics, semiconductors, function integration, system engineering are invited to hand in a paper proposal for the CTI SYMPOSIUM USA 2026.

HOW TO HAND IN YOUR PAPER PROPOSAL

Paper proposals should be submitted via our online form at **cti-symposium.world/us/cfp**

To help us assess your proposal, please make your topic description as precise, clear and succinct as possible. Be sure to include the objective, field of application, technology and method, and to explain the advantage over existing solutions. Do not include commonplace or well-known background information.

The following presentation documents are mandatory if your paper proposal is accepted for the program:

- Job history
- Presentation slides (formats and masters will be provided)
- 1 Page qulified summary (requirements will be povided)
- Digital photo (color, high resolution, jpg)

A presentation takes about 20 minutes plus Q&A. Per presentation one speaker is invited to join the CTI SYMPOSIUM USA main days (11 – 12 May 2027) for free. Due to the broad range of topics multiple entries are possible.

In case of any questions do not hesitate to contact

Sylvia Zenzinger
Conference Director
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IMPORTANT DATES

Deadline for paper proposal submissions extended
30 October 2026

Information about paper proposal evaluation results
Begin of February 2027

Publishing date of the program
February 2027

Deadline for presentation material submission
Mid of April 2027

Main event days
lecture program, exhibition, CTI Ride & Drive
11 – 12 May 2027

MAIN FOCUSES

MARKETS AND RESILIENCIES

- International Market Trends
- Affordability of BEVs
- International Policy
- Supply Chain Resilience
- Market Reports on Regions and Technologies
- Onshoring & Tarif Management
- Scale, Standardization & Cost
- Market Segmented Consumer Behaviour Feedback & Preferences

ENERGY AND MOBILITY

- Alternative Energy Carriers
- Integration of BEVs into the Energy System
- Bidirectional Charging
- Charging and Refueling Infrastructure
- Vehicles as Part of the Energy Transition
- Sustainability in Powertrain Design
- Assessment of Environmental Impacts
- Cost of Ownership

ELECTRIC POWERTRAINS

- Powertrain Design
- Vehicle Platform Concepts
- Vehicle Integration
- Integrated Cooling Concepts
- Component Integration
- Performance Optimization
- Acoustics and NVH

ELECTRIC MOTORS

- Electric Motor Topologies
- Design of Electric Motors
- Sustainabiliy in EM Design
- High-Speed Concepts
- In-Wheel Motors
- Cooling of Electric Motors
- Winding Technology

HYBRID POWERTRAINS

- Powertrain Topologies
- HEV Powertrains
- PHEV Powertrains
- Range Extenders
- Operating Strategy
- Energy Management
- Performance Optimization

SUCCESS STORIES

BEST PRACTICES

LESSONS LEARNED

KNOWLEDGE SHARING

MAIN FOCUSES

COMMERCIAL VEHICLE POWERTRAINS

- xEV Powertrains
- Hybrid and FCEV Powertrains
- Electric Axles
- (Hydrogen) Combustion Engines
- Megawatt Charging
- High-Voltage Architectures Beyond 800 V
- Multispeed Transmissions for Commercial Vehicles

AUTOMOTIVE FUEL CELLS

- Fuel Cell Systems
- Auxiliary Components
- Control of Fuel Cell Systems
- Degradation
- Performance Optimization
- Vehicle Integration
- Cost of Ownership

TRACTION BATTERIES

- Battery Cooling
- Battery Crash Safety
- Battery Vibration Protection
- Strategies to Prevent Thermal Propagation
- Strategies for Fast Charging
- Battery Architectures (Battery System Design)
- Battery Ageing

POWER ELECTRONICS

- Power Electronic Topologies
- Integration in E/E Architecture
- Switching and Control Strategies
- Performance Optimization
- Multi-Level Architectures
- Three-Level Architectures
- SiC and GaN Semiconductors
- Thermal Management

AUTOMOTIVE TRANSMISSIONS

- Single-Speed Transmissions
- Multi-Speed Transmissions
- CVT Transmissions
- Disconnects and Shift Elements
- Efficiency Optimization
- Cooling Strategies
- NVH and Acoustics

SMART CHASSIS AND ELECTRIFIED POWERTRAIN INTEGRATION

- SDV Shifting Boundaries & Enabling New Vehicle Motion
- Powertrain in Motion Control
- Interaction of Chassis Systems with ePowertrains
- Integration of Steer-by-Wire and Brake-by-Wire
- Motion Control Strategies
- Virtual Development, Functional Safety, and Testing

MAIN FOCUSES

OPERATING STRATEGY, ENERGY AND THERMAL MANAGEMENT

- Operating Strategies for xEVs
- Thermal Management Systems and Strategies
- Energy Management Strategies
- Coolant System Design
- AI-Assisted Management Strategies
- Coolant System Architectures
- Performance Optimization

COOLING FLUIDS AND LUBRICANTS

- Powertrain Cooling Fluids
- Transmission Fluids
- Multipurpose Fluids
- Environmental Impact Reduction
- Water-Based Lubricants
- Tribology
- Thermal Management

AI TOOLS AND METHODS IN POWERTRAIN

- Design Optimization
- AI Re-engineered Development and Validation Process
- AI Based Powertrain Control Systems
- Data-driven Improved Physical Testing
- AI Use Cases: Accuracy and Reliability Benefits

VIRTUAL DEVELOPMENT PROCESSES

- Methods and Tools for Accelerated Development
- Software Defined Vehicle
- AI-Enabled Development Methods
- Virtual Prototyping and Testing
- Digital Twins in the Development Process
- Model Based System Engineering (MBSE)
- Prediction Methodologies

COST REDUCTION

- Total Cost of Ownership Analyses
- Platform Level Optimization
- System Cost Reduction
- Trade-Offs between Cost Elements
- Cost vs. Time vs. Quality
- Supply Chain Optimisation
- Design for Flexible Manufacturing

Find more details on our website

VEHICLE DISPLAYS & TEST DRIVES | 11 – 12 MAY 2027

Make a lasting impression on peers and potential clients – with a hands-on experience of your development work that adds a new dimension to your lecture or virtual presentation.

For automobile manufacturers, system and component suppliers, showing a dedicated vehicle at the CTI Ride & Drive parcours or display in the CTI EXPO is the ideal way to make their vehicle tech and applications stand out.

For questions contact
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AUTOMOTIVE · PROPULSION · SYSTEMS

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You can find our terms and conditions online at: **http://cti.euroforum.de/en/agb**

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