

# cti symposium

AUTOMOTIVE • POWERTRAIN • SYSTEMS

02/03  
DEC  
2025

BERLIN



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FOR  
PAPERS

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# INCREASED TRACTION AT REDUCED COST – POWERTRAIN GOES DIGITAL

The automotive industry is still experiencing a period of intense transformation. Decarbonisation and digitalisation, as well as global upheavals are challenging manufacturers and suppliers alike. New technologies, new competitors and new business models are changing the market and the global economic outlook at breakneck speed. In response, governments are seeking to strike a new balance between the development of sustainable mobility and the development of their economies while also having to acknowledge broader societal trends.

As a consequence, automotive manufacturers and suppliers are undergoing the greatest structural change in their history. In this time of tension and heightened uncertainty about the future, the purpose of the CTI Symposium Berlin is more relevant than ever: to provide orientation based on strong technical foundations and to set up fertile grounds for direct personal exchange.

**In support of these objectives, we will focus on**

- Cost reduction through virtual development processes
- Optimum vehicle integration of powertrain systems
- AI as an enabler for technological breakthroughs
- Novel powertrain technologies from Europe, the US and Asia

True to our heritage, the CTI SYMPOSIUM remains the best meeting place for manufacturers of passenger cars and commercial vehicles, system and component suppliers, engineering service providers, software developers, and market specialists.

The CTI team looks forward to your proposals for the 24th CTI SYMPOSIUM in Berlin.

Best regards

**Prof. Dr Malte Jaensch**  
Chairman of the CTI SYMPOSIUM Berlin

INTERNATIONAL  
DELEGATES,  
EXHIBITORS & SPEAKERS

OEMS & SUPPLIERS

PLENARY SPEECHES

PANEL DISCUSSIONS

DEEP DIVE  
TECHNICAL SESSIONS

VALUABLE INSIGHTS

START-UPS



# IMPRESSIONS 2024

20+  
COUNTRIES



80+  
EXPERT LECTURES  
AND PANELS



70+  
EXHIBITORS



25h  
CONTENT &  
NETWORKING



12h+  
NETWORKING  
HOURS



START-UP  
AREA



650+  
INDUSTRY  
REPRESENTATIVES

# MAIN FOCUSES

## MARKETS, POLICIES AND SUSTAINABILITY

- International Market Trends
- Affordability of BEVs
- Trends in Consumer Behaviour
- International Policy
- Circularity
- Life-Cycle Assessments
- Sustainable Supply Chains

## ENERGY AND MOBILITY

- Liquid and Gaseous Energy Carriers
- Integration of BEVs into the Energy System
- Bidirectional Charging
- Charging and Refuelling Infrastructure
- Vehicles as Part of the Energy Transition
- Sustainability in Powertrain Design
- Assessment of Environmental Impacts

## ELECTRIC POWERTRAINS

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

## ELECTRIC MOTORS

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

## HYBRID POWERTRAINS

- Powertrain Topologies
- HEV Powertrains
- PHEV Powertrains
- Operating Strategy
- Energy Management
- Performance Optimisation
- Synthetic Fuels

I'm glad to answer your questions

**Sylvia Zenzinger**

Conference Director

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# MAIN FOCUSES

## COMMERCIAL VEHICLE POWERTRAINS

- BEV 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 Cells
- Fuel Cell Systems
- Auxiliary Components
- Control of Fuel Cell Systems
- Degradation
- Performance Optimisation
- Vehicle Integration

## TRACTION BATTERIES

- Cell Chemistries
- Battery Management Systems
- Recycling and 2nd Life
- Battery Cooling
- Battery Safety
- 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 Optimisation
- Multi-Level Architectures
- Three-Level Architectures
- SiC and GaN Semiconductors

## AUTOMOTIVE TRANSMISSIONS

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

# 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 Optimisation

## COOLING FLUIDS AND LUBRICANTS

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

## ARTIFICIAL INTELLIGENCE IN POWERTRAINS

- AI in Powertrain Development
- AI in Powertrain Control
- AI in Data Analysis and Testing
- AI Tools and Methods
- Novel Applications of AI in Powertrains
- Design Optimisation using AI
- Case Studies

## 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)
- Fleet Data Analyses

## COST REDUCTION

- Total Cost of Ownership Analyses
- Platform Level Optimisation
- System Cost Reduction
- Trade-Offs between Cost Elements
- Cost vs. Time vs. Quality
- Supply Chain Optimisation
- Novel Manufacturing Technologies



**Submit your topic proposal online**

# BE PART OF THIS #1 BUSINESS PLATFORM

**DEADLINE 15 MAY 2025**

## PARTICIPATE AS SPEAKER

Experts of all development areas in the field of automotive drivetrains, components like e-motors, batteries, electric/electronics, semiconductors and software but also experts in function integration, system engineering are invited to hand in a paper proposal for CTI SYMPOSIUM GERMANY 2025.

## HOW TO HAND IN YOUR PAPER PROPOSAL

Paper proposals should be submitted via our online form at

[cti-symposium.world/de/cfp](https://cti-symposium.world/de/cfp)

Due to the broad range of topics multiple entries are possible.

## CRITERIAS

Submissions will be evaluated based on criterias such as:

- Topic's importance in relation to the conference theme and audience
- Short (!) explanation why the topic is important and objective
- Description of the technical background, which new topics/knowledge are conveyed to the audience; description of the methodology used How

- Presentation of case studies or application results
- Customer involvement is highly encouraged
- Advantages and benefit over existing solutions
- Future outlook

## **Selection criteria**

- Topic submissions are evaluated by the advisory board according to their technical content and relevance to the conference topic and target group.
- This evaluation forms the basis for acceptance and allocation in the program.
- The allocation of presentations and times will be determined during the preparation of the programme depending on the topics to be covered.
- Commercial presentations will not be accepted.

## IMPORTANT DATES

Information of the authors about the advisory board's decision:

### **Mid of August**

Deadline for presentation material submission:

### **Mid of October**

## **If your topic is accepted:**

The following documents are mandatory to be handed in for the conference:

- Job history (format will be provided)
- Digital photo (color, high resolution)
- Presentation slides (formats and masters will be provided)
- 1 page topic summary (format will be provided)
- Presentation duration: 20min + Q&A
- All documents are required in English.
- One speaker per presentation has free access to the event.

The advisory board endeavours to evaluate the submitted entries objectively. The members of the advisory board use a points-based evaluation system and provide feedback on the content. The sum of the points and feedback leads to the selection of the presentations for the programme.

We ask for your understanding that due to the limited number of presentation slots, unfortunately not all attractive topics can be included in the programme.



**CTI SYMPOSIUM GERMANY  
ADVISORY BOARD**

# CTI SYMPOSIUM EXPO 2 & 3 DECEMBER 2025

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THE EXPO IS FILLING UP QUICKLY - SECURE YOUR SPOT NOW!



APPLY NOW: CTI EXPO FLOOR PLAN



# START-UP AREA

As part of the event, CTI offers Start-ups the opportunity to participate in our dedicated Start-Up Area:

- **650+ international** decision-makers and experts from automotive manufacturer and supplier R&D
- **Showcase** your innovation in the **Start-up Area** with optimal **visibility**
- **Start-up Pitch:** introduce your company in the plenary hall
- **Guided visit** of the Start-Ups: present your company and solution in detail
- **Your company profile on our website**
- **Bonus:** publish an article on our website
- **Exchange with experts: 80 specialist presentations** about markets, trends, strategies, technologies such as e-drives, e-motors, batteries, thermal management, virtual development processes and man more
- **Two conference tickets** and participation in the **evening event**



# WOMEN @ CTI NETWORKING

At CTI, we're committed to empowering women in the automotive sector! We don't just want to raise awareness and visibility for women in the industry, but also create practical pathways for everyone to help build a more inclusive industry.

Get ready for an incredible lineup of events that you won't want to miss!

- Engaging roundtables
  - A guided tour of the exhibition
  - Networking breaks for connection and collaboration
  - A chance to engage with international industry peers from a variety of sectors
- ... and that's not all!

Together, we're driving progress and innovation towards a future where diversity and inclusion fuel success.

Got ideas for topics or want to jump in as a moderator? We'd love to hear from you!



[More Information](#)

**Interested to join? Let's get in touch!**  
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# cti symposium

AUTOMOTIVE • POWERTRAIN • SYSTEMS

International Congress and Expo | 2 & 3 December 2025 | Estrel Hotel Berlin, Germany

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

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