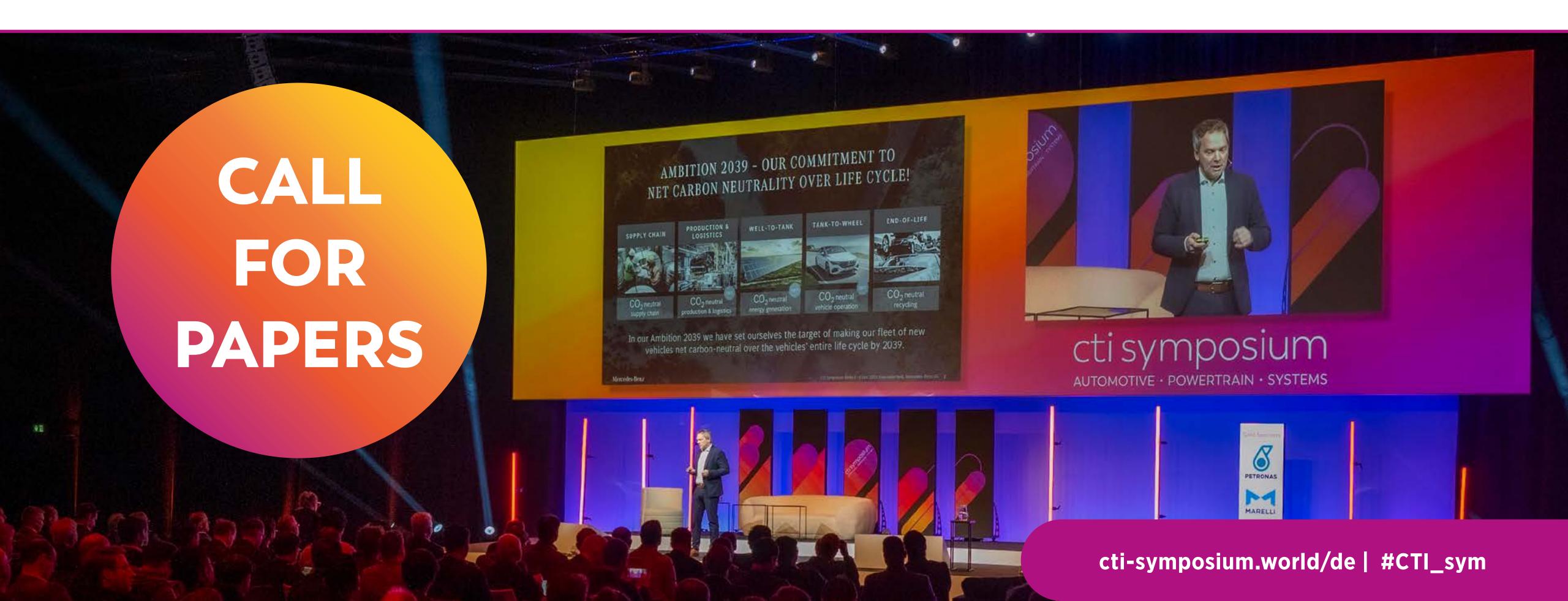
ctisymposium

AUTOMOTIVE · POWERTRAIN · SYSTEMS





STAYING AHEAD IN THE TRANSITION TOWARDS SUSTAINABLE MOBILITY

The automotive industry continues its transition towards sustainable mobility. While the technological development of alternative powertrain technologies is progressing at high speed, the road towards a green, carbon-neutral future is not entirely smooth as technological, political and regulatory stumbling blocks remain.

Innovation in seemingly mature technologies such as electric motors continues unabated while novel tools and methods, such as artificial intelligence, offer new paths towards even faster and leaner technology development, encapsulated in this year's motto: "powertrain reloaded". At the same time, the focus has widened, and it is now well understood that the whole energy-vehicle ecosystem needs to be considered when aiming to shape the mobility of tomorrow.

Considering the scope of the challenges still ahead, an interdisciplinary exchange between automobile manufacturers and suppliers at all levels is essential. The CTI SYMPOSIA are the ideal meeting ground for manufacturers of passenger cars and commercial vehicles, system and component suppliers, engineering service providers, software developers, and market specialists.

We look forward to your presentation proposals for our 23rd CTI SYMPOSIUM in Berlin.

Best regards

Prof. Dr Malte Jaensch

Chair of Sustainable Mobile Powertrains, Technical University of Munich

Chairman CTI SYMPOSIUM

INTERNATIONAL DELEGATES, EXHIBITORS & SPEAKERS

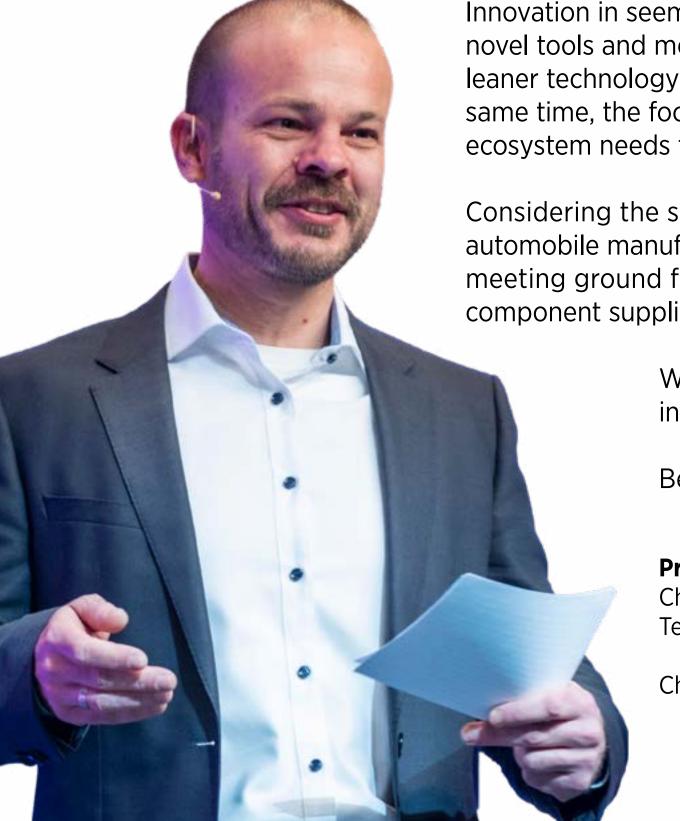
PLENARY SPEECHES

PANEL DISCUSSIONS

DEEP DIVE TECHNICAL SESSIONS

ENTERTAINING FORMATS WITH VALUABLE INSIGHTS

Latest Technology Lectures
Specialist Comments
Analysis
Active Audience Involvement
Suppliers Product Presentations
and many more



IMPRESSIONS 2023

20+ COUNTRIES





70+ EXPERT LECTURES AND PANELS





60+ **EXHIBITORS**



25h CONTENT & NETWORKING







cti symposium

750+ **INDUSTRY** REPRESENTATIVES





BE PART OF THIS #1 BUSINESS PLATFORM

Deadline for paper proposal submission 15 APRIL 2024

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 2024.

HOW TO HAND IN YOUR PAPER PROPOSAL

Paper proposals should be submitted via our online form at

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 (Why) 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 program 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: **Begin 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

MAIN FOCUSES

ELECTRIC POWERTRAINS

- > xEV Powertrains
- > Powertrain Design
- Component Integration
- Integrated Cooling Concepts
- > Vehicle Platform Concepts
- > Performance Optimisation
- > Vehicle Integration

ELECTRIC MOTORS

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

I'm glad to answer your questions

Sylvia ZenzingerConference Director
sylvia.zenzinger@car-training-institute.com

POWER ELECTRONICS

- > Power Electronic Topologies
- Switching and Control Strategies
- Multi-Level Architectures
- > Power Electronic Components
- > SiC and GaN Semisconductors
- > Performance Optimisation
- High-Voltage Architectures

AUTOMOTIVE BATTERIES

- > Cell Chemistries
- > Battery and Cell Management
- > Recycling and 2nd Life
- > Battery Cooling
- Battery Safety
- > Strategies for Fast Charging
- > Battery Architectures

COMMERCIAL VEHICLE POWERTRAINS

- > BEV Powertrains
- > FCEV Powertrains
- > Fuel Cells and Fuel Cell Systems
- > (Hydrogen) Combustion Engines
- Megawatt Charging
- > High-Voltage Architectures Beyond 800 V
- > Multispeed transmission for commercial vehicles

AUTOMOTIVE FUEL CELLS

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



MAIN FOCUSES

HYBRID POWERTRAINS

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

ADVANCED MANUFACTURING AND POWDER METALLURGY

- > Powertrain Component Manufacturing
- > Sustainability in Manufacturing
- > 3D Printing
- Novel Manufacturing Technologies
- > Powder Metallurgy in Electric Motors
- Power Metallurgy for Powertrain Components
- > Green Steel Production

COOLING FLUIDS AND LUBRICANTS

- > Powertrain Cooling Fluids
- > Transmission Fluids
- Multipurpose Fluids
- Sustainability
- Water-based Lubricants
- Tribology
- Measurement and Testing

AUTOMOTIVE TRANSMISSIONS

- > Single-Speed Transmissions
- Multi-speed Transmissions
- > CVT Transmissions
- Disconnects and Shift Elements
- > Efficiency Optimisation
- Cooling Strategies
- > Vehicle Integration

ARTIFICIAL INTELLIGENCE IN POWERTRAINS

- > Artificial 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

DEVELOPMENT METHODS, TOOLS AND TESTING

- Novel Development Methods and Tools
- > Test Procedures
- > Functional Safety
- On-Board Diagnostics
- > Sustainability in Powertrain Design
- > AI-Assisted Development Methods
- NVH-Optimised Design

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

MARKTS, POLICIES AND SUPPLY CHAINS

- > 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
- > Bidirectonal Charging
- > Charging and Refuelling Infrastructure
- > Vehicles as Part of the Energy Transition
- Novel Concepts for Sustainable Mobility
- Assessment of Environmental Impacts

Submit your topic proposal online

CTI SYMPOSIUM EXPO 3 & 4 DECEMBER 2024



INCREASE BRAND AWARENESS



CONNECT WITH THE RIGHT PEOPLE



New EXPO STAGE

New EXPERT VIDEO



GENERATE QUALITY B2B LEADS



INITIATE BUSINESS



SHOWCASE YOUR TECHNOLOGY AND SERVICES





Your contact:

Şenel Çelik

Head of Sales
+49 211 8874 – 3727

senel.celik@car-training-institute.com

ADVISORY BOARD

Dirk Adamczyk

Senior Vice President Engineering Services & Solutions, ZF Friedrichshafen AG

Dr Norbert Alt

COO & Executive Vice President, FEV Group GmbH

Georg Bednarek

Director Regulations & Certification, Stellantis

Dr Sven Beiker

Founder and Managing Director, Silicon Valley Mobility; Lecturer in Management, Stanford Graduate School of Business

Dr Karsten Bennewitz

Head of Powertrain and Energy System Development, Volkswagen AG

Dr Carsten Bünder

Dr Ulrich Burr

Senior Vice President – Testing, New Technologies and Development, J.M. Voith SE & Co. KG

Dr Klaus Denkmayr

Director Research and Development Projects, AVL List GmbH

Prof. Dr Robert Fischer

Chief Technology Officer Engineering, AVL List GmbH

Stefan Fuchss

Chief Engineer Electric Drive Units, Transmission and Driveline, Jaguar Land Rover

Philippe Hamon

R&D and Product Marketing Director, Powertrain Electrified Mobility, Valeo Siemens eAutomotive

Dr. Jörg Gindele

Senior Director, Advanced Engineering & E-Propulsion Systems, Magna Powertrain

Prof. Dr Malte Jaensch (Chairman)

Institute of Sustainable Mobile Powertrains Technical University of Munich

Prof. Dr Ferit Küçükay (Founding Chairman)

Director, Center for Automotive Engineering, Innovationsgesellschaft Technische Universität Braunschweig mbH

Prof. Dr Arno Kwade

Director, Institute for Particle Technology, Technische Universität Braunschweig

Jimmy Larsson

Engineering Director, Head of Propulsion Development, Scania CV AB

Prof. Dr Markus Lienkamp

Director, Institute of Automotive Technology, Technical University of Munich

Prof. Jan Gang LU

Professor, PhD Director, Beijing Institute of Technology; CTO, Sanhua Automotive USA

Dr Holger Manz

Head of Plant Hannover, Volkswagen Commercial Vehicles

Prof. Dr Axel Mertens

Director of the Institute, Power Electronics and Drive Control Department, Institute for Drive Systems and Power Electronics, Leibniz Universität Hannover

Karsten Michels,

Senior Vice President Electrification System Integration, IAV GmbH

Prof. Dr Anke Müller

Professor, Manufacturing Methods in Mechanical Engineering, Hof University

Torsten Murr

Global Technology Manager Transmission Fluids, Shell Global Solutions

Dr Prabjot Nanua

Executive Director, Global Advanced Electrified Propulsion Engineering, General Motors

Konstantin Neiß

Director E-Drive System & Center of Competence E-Drive Units, Mercedes-Benz & Chairman of YASA

Tatsuya Osone

Vice President Advanced Technology Development and CTO, JATCO Co. Ltd

ADVISORY BOARD

Sascha Ott

Managing Director, Institute of Product Engineering and Managing Director, KIT Center Mobility Systems, Karlsruhe Institute of Technology

Prof. Dr Bernd Ponick

Director of the Institute, Electrical Machines and Drive Systems Department, Institute for Drive Systems and Power Electronics, Leibniz Universität Hannover

Stephan Rebhan

Senior Vice President Technology & Innovation, Vitesco Technologies

Martin Richter

Director Global Engineering & Head of LV Transmission Systems, Dana Inc.

Prof. Dr Stephan Rinderknecht

Director, Institute for Mechatronical Systems in Mechanical Engineering, Technische Universität Darmstadt

Gianpiero Saroglia

Technical Director Transmission Engineering, Stellantis N. V.

Michael Schäfer

Head of Transmission Development, Volkswagen AG

Tim Schmidt

Technical Advisor – Battery-Systems, Porsche Engineering Group GmbH

Raf Schuermans

Technical Senior Manager – Advanced Powertrain, Toyota Motor Europe

Takashi Shibayama

Research Associate, Tokyo Denki University

Udo Sommerhalter

Director & Customer Chief Engineer, Valeo Powertrain

Dr Axel Sturm

Head of Department Innovative Vehicle Technologies -Technische Universität Braunschweig

Prof. Dr Peter Tenberge

Director, Institute for Industrial and Automotive Drivetrains, Ruhr-Universität Bochum

Dr Götz von Esebeck

Vice President, Technical Officer Electromobility, R&D, TRATON AG

Dr Franz Völkel

Senior VP R&D, Business Division Bearings, Schaeffler Technologies AG & Co. KG

Prof. Dr Burghard Voß

Chair of Automotive Engineering and Drives, Brandenburgische Technische Universität Cottbus-Senftenberg

Dr Michael Wagner

Vice President Global Engineering and Quality, BorgWarner Drivetrain & Battery Systems, BorgWarner Inc

Carsten Weber

Manager, Engine & Powertrain Systems, Research & Advanced Engineering, Ford Motor Company

Dr Michael Winkler

General Manager, Head of Powertrain, Hyundai Motor Europe Technical Center GmbH

Prof. Dr Xiangyang Xu

Executive Deputy Director of National Engineering Research Center for Passenger Car Automatic Transmissions, School of Transportation Science & Engineering, Beihang University

Hiroyuki Yada

President,
JATCO France SAS

Prof. Dr Tong Zhang

Director, National Fuel Cell Vehicle and Powertrain System Engineering Center, Clean Energy Automotive Engineering Center, Tongji University

ctisymposium

AUTOMOTIVE · POWERTRAIN · SYSTEMS

International Congress and Expo I 3 & 4 December 2024 I Estrel Hotel Berlin, Germany





REGISTER NOW ONLINE AND SAVE UP TO 300 €

NEED TO UPDATE YOUR CONTACT DETAILS?

Please call us or send an email: +49 211 8874-3333, info@car-training-institute.com. You have the right to object to the use of your data for the purpose of direct advertising at any time. In addition, you have the right to demand information from us regarding the data about you that we have stored as well as the right to demand correction of incorrect data and the right to demand deletion in the event of inadmissible storage of data. You can contact our Data Protection Officer at Datenschutzbeauftragter c/o Euroforum Deutschland GmbH, Toulouser Allee 27, 40211 Düsseldorf, Germany. In addition, you have the right to file a complaint with the supervisory authority.

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

[P2300552]

INFOLINE +49 211 8874-3857

For further information please contact



Customer Service and RegistrationArnd Bissels
arnd.bissels@car-training-institute.com



Concept and Content

Sylvia Zenzinger

Conference Director CTI SYMPOSIA

sylvia.zenzinger@car-training-institute.com

Join me on Linked in.



Sponsoring and Exhibition
Şenel Çelik
Sales Director
senel.celik@car-training-institute.com