

cti symposium



AUTOMOTIVE DRIVETRAINS



INTELLIGENT



ELECTRIFIED

International Congress and Expo | Estrel Hotel Berlin, Germany

5 December 2022 Introductory Seminar
6 - 7 December 2022 Main Programme & Exhibition
8 December 2022 CTI Test Drive

Keeping Pace During The Transformation Towards Electric Mobility



Prof. Dr Christian Mohrdieck
Chief Commercial Officer,
cellcentric GmbH & Co. KG



Gerald Killmann
Senior Vice President Purchasing
and R&D, Toyota Motor Europe



Dr Frederik Zohm
Member of the Executive Board,
R&D, MAN Truck & Bus SE

CTI SYMPOSIUM - YOUR #1 BUSINESS PLATFORM

It is our priority to deliver a market leading high quality event.

Why Should You Attend The CTI SYMPOSIUM

CTI SYMPOSIUM is the place to be for companies, engineers and innovators looking to be in the pole position of international drivetrain development. The CTI SYMPOSIUM provides expert-led plenary and technology sessions as well as expert discussions and product showcases representing the full range from complete drivetrain systems to components and engineering services.

Electrify Your Knowledge

The extensive lecture programme is designed to meet the needs of the drivetrain community. Plenary speeches, expert discussions and the presentations of the in total twelve technical sessions were selected by our advisory board which is a team of highly experienced and knowledgeable engineering experts, scientists and executives from top-industry companies.

The sessions are especially focusing on hybrid and electric drives, market trends, legislation and mobility services, energy carrier and infrastructure. Each session provides highly relevant information and interest-based linking with participants you can benefit from right away.

During the **CTI Test Drive** the day following the main programme attendees will have the opportunity to experience latest technology in practice and to have even further discussions with the engineering experts. (Extra registration required.)

Ahead of the main programme an **Introductory Day** is giving newcomers and career changers basic knowledge of drive systems. Experts from universities with extensive experiences also within the industry are preparing delegates for the lectures and conversations to come.

Note: We will adapt and may modify event formats and delegates numbers according to official and local authority health and safety guidance, as well as location-specific regulations where required until and during event.



Find more details on our website

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CTI SYMPOSIUM EXPO

Become our partner and secure your pole position

The CTI SYMPOSIUM offers you the ideal opportunity to present your company to your target group PRIOR and DURING the event.

Benefit from our wide range of options:

- Showcase your products or services in the **CTI SYMPOSIUM EXPO**
- **Increase your brand awareness even more as a SPONSOR**
- Show your expertise in specialist sessions by **placing content through a lecture and/or an article**

Strengthen your recognition within your target group.
CTI SYMPOSIUM is your first choice if you want to reach decision makers and specialists within automotive engineering industry.
According to your objectives, we develop customised packages for the optimal presence of your company.



Meet The Right People

Initiate Business

Build Opportunities

**For more information,
please get in touch with:**

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Click here for more information



THE EXPERT SUMMIT THAT DRIVES MOBILITY

The automotive industry is currently on the path towards an era of zero-emission mobility. In this transformation many manufacturers are planning to only offer electric vehicles in leading markets within 10 to 15 years. In addition, stricter emission legislations in combination with upcoming ICE bans for passenger cars, as for example planned in the European Union in 2035, pave the way for electric mobility and BEVs. In addition to choosing the right powertrain technologies, decisive factors such as infrastructure, recycling in the sense of CtG and profitability without incentives need to be discussed.

In particular, the question of zero-emission mobility is not only a question of the drive concept, but also a question of the energy carrier, which must include green electricity.

Hybrids with eFuels and Fuel cell vehicles powered by hydrogen are still options for commercial vehicles and markets without ICE bans if the energy carrier based on green electricity.

With the upcoming legislation regarding CO₂-emissions, the automotive industry is under a lot of pressure to find the right technology mix to keep pace in the accelerated transformation process towards electric and carbon neutral mobility.

Our Symposium will address all these challenges in multiple plenary and session presentations as well as in two panel discussions on "The right technology mix until 2035 and beyond" and "The interaction between drivetrain technology and social responsibility in the supply chain".

We look forward to your participation in the 21st CTI SYMPOSIUM GERMANY 2022 with the accompanying exhibition in Berlin, where we will gain insights into the future path of the drivetrain world, together with industry leading experts.

Prof. Dr Ferit Küçükay
Chairman of the CTI SYMPOSIUM GERMANY



Introductory Day

Plenary Speeches

Panel Discussions

**Deep Dive
Technical Sessions**

**International Speakers,
Delegates & Exhibitors**

**Entertaining Formats
With Valuable Insights**

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

Test Drives

5 DECEMBER 2022 | INTRODUCTORY DAY

Back
in the
programme!

Objective

Newcomers and career changers will get an overview of the basics of drive systems and will be updated to the latest level of development. A wide range of drive systems will be presented and electric drive concepts will be introduced in detail and compared regarding their layout, requirements, characteristics, operation management as well as resulting performance and energy consumption.

In the afternoon the seminar focusses on the basis of Li-ion batteries, electric motors and power electronics. Li-ion batteries are the most used electric energy storage device, while power electronics and electric motors serve to transform the electric energy and provide traction. All three components are of rising importance for the drivetrain industry.

The content of the introductory seminar is presented by highly experienced experts, the schedule allows time for your personal questions and an interactive exchange.

09:15 Welcome and introduction into the seminar

Automotive powertrain and drivetrain concepts

Tasks and characteristics of powertrain, drivetrain and transmissions



Prof. Dr Ferit Küçükay,
Chairman of the CTI SYMPOSIUM GERMANY

Electric drivetrains and transmission concepts in comparison



Dr Axel Sturm,
Research Assistant, Institute of Automotive Engineering,
Technische Universität Braunschweig, Germany

12:15–01:15 Lunch break

Electric components: batteries, electric motors, power electronics

Lithium-ion batteries



Prof. Dr Julia Kowal,
Chair of Electrical Energy Storage Technology,
Technische Universität Berlin, Germany

Electric motors as vehicle drives: design, features, characteristics



Prof. Dr Bernd Ponick,
Director of the Institute, Electrical Machines and Drive
Systems Department, Institute for Drive Systems and
Power, Electronics, Leibniz Universität Hannover,
Germany

Power electronics for hybrid and electric 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,
Germany

05:30 Final Q&A

06:00 End of the seminar

6 DECEMBER 2022 | **PLENARY PROGRAMME**

07:00 Check-in and opening of the exhibition

08:30 Opening of the CTI SYMPOSIUM GERMANY 2022 by the chairman and CTI



Prof. Dr Ferit Küçükay,
Chairman of the CTI SYMPOSIUM GERMANY



Sylvia Zenzinger,
Conference Director CTI SYMPOSIA
Car Training Institute

08:45 Plenary speeches (morning session)

08:45

Toyota's approach towards carbon neutrality



Gerald Killmann,
Senior Vice President Purchasing and R&D,
Toyota Motor Europe, Belgium

09:10

Semiconductor is a key for the future smart and green mobility



Patrick Leteinturier,
Director R&D Fellow Automotive Systems,
Infineon Technologies AG, Germany

09:35

Geely's strategy and practice in powertrain electrification



Ruiping Wang,
Vice President General Manager,
Zhe Jiang Geely Powertrain Co., Ltd, China

10:00 Joint Q&A with the plenary speakers

10:15 Coffee break and visit to the CTI SYMPOSIUM Expo

11:00 Expert discussion | The right technology mix until 2035 and beyond

Moderator Ulrich Walter

Panelists:

Toshihiro Hirai, Senior Vice President, Powertrain and EV Engineering, Nissan Motor Co., Ltd., Japan

Karsten Bennewitz, Head of Powertrain and Energy System Development, Volkswagen AG, Germany

Gerald Killmann, Senior Vice President Purchasing and R&D, Toyota Motor Europe, Belgium

04:45 Plenary speeches (afternoon session)

04:45

Circular economy and future innovations of batteries



Prof. Dr Arno Kwade,
Director, Institute for Particle Technology,
Technische Universität Braunschweig, Germany

05:15

Hydrogen is the future



Michael Lohscheller,
President and CEO,
Nikola Corporation, USA

07:00

CTI Networking Night

6 DECEMBER 2022 | TECHNICAL SESSIONS

A: E-Drives

11:45 –
01:15

Lunch break and visit to the CTI SYMPOSIUM Expo

12:45

Tremec gen1 EDU: double the power!

Jannick De Landtsheere, Chief Engineer Advanced Products, **Tremec**, Belgium

01:15

High-performance, efficient and sustainable electric propulsion system development: the Polestar way

Dr Shafigh Nategh, Senior Principal Engineer, **Polestar Performance AB**, Sweden

01:45

Development of electric powertrain and battery for new BEV

Kenichiro Gunji, Senior Chief Powertrain Engineer, **Nissan Motor Co., Ltd.**, Japan

02:15

Challenges in the development of an axle drive platform in a disruptive environment

Hilko Hakvoort, Head of Product Line High Voltage Drives and Gunter Muehlberg, Head of Product Management, **Vitesco Technologies**, Germany

02:45

Coffee break and visit to the CTI SYMPOSIUM Expo

03:30

Secondary e-drives – a system comparison of ASM and PSM solutions

Daniel Lindvai-Soos, Senior Manager, Product Management, **Magna Powertrain**, Austria

04:00

Modular EDU family – combining efficiency and flexibility

Dr Hakan Sandquist, Director Propulsion Hardware and System, **InfiMotion Technology Europe AB**, Sweden

04:30

Change to plenum

B: E-Motors & Power Electronics

Lunch break and visit to the CTI SYMPOSIUM Expo

New concept of switching cell for 800V SiC inverter in e-axle application

Philippe Hamon, Valeo Powertrain Electrified Mobility R&D and Product Marketing Director, **Valeo eAutomotive**, Germany

Development trends in e-motor technology

Holger Oechslen, Head of System Development, **MAHLE International GmbH**, Germany

Highly efficient and lightweight electric motors for mobile applications

Prof. Dr Roland Kasper, Chair of Mechatronics (em), **Otto-von-Guericke-University Magdeburg**, Germany

Coffee break and visit to the CTI SYMPOSIUM Expo

Electric motor design and optimization principles for LCVs

Daniele Zecchetti, Senior Director Mechatronics R&D, **Marelli Europe S.p.A.**, Italy

High thermally conductive core slot architecture for electric motors that dramatically decreases the temperature

Dr Kazuhiro Ikeda, General Manager, **Sumitomo Electric Automotive, Europe Ltd.**, Germany

Change to plenum

C: Market, Strategy and Supply Chain

Lunch break and visit to the CTI SYMPOSIUM Expo

Electromobility in Germany: status quo, goals and challenges

Dr Stefanie Wolff, Manager E-Mobility Europe, **Now GmbH**, Germany

E-fuels: indirect electrification of the transport sector

Dr Martin Härtl, Chief Engineer, **Technical University of Munich**, Germany

Life cycle assessment – Path to eco-social transmissions

Jochen Rath, Global EHS & Sustainability, **Magna Powertrain**, Germany

Coffee break and visit to the CTI SYMPOSIUM Expo

Technology and supply chain trends for driveline components of hybrid and full electric vehicles

Michael Southcott, Associate Manager, **S&P Global Mobility**, UK

The ‘invasion’ of consumer electronics players: new OEMs’ strategies and the impacts on the powertrain supply chain

Dr Yu Yang, Senior Technology and Market Analyst, **Yole Développement**, France

Change to plenum

6 DECEMBER 2022 | TECHNICAL SESSIONS

D: Shift Elements & Sensors

11:45 –
01:15

Lunch break and visit to the CTI SYMPOSIUM Expo

12:45

Novel multi-functional clutch technology for EV drivetrain disconnects

John Jennings, Director of EV Drivetrain Systems, Amsted Automotive, USA

01:15

Tribology and friction materials for multiple e-axle architectures

Christoph Hagauer, Engineering Manager E-Powertrain, Miba Friction Division, Austria

01:45

Virtual dog clutch development for optimal xEV driveability

Dr Felix Matthies, Team Manager, IAV GmbH, Germany

02:15

Torque oscillations in automotive wet clutch: modelisation and governing parameters identification

Dr Alexandre Renault, Simulation Engineer/Valeo Expert, Valeo Embrayages, France

02:45

Coffee break and visit to the CTI SYMPOSIUM Expo

03:30

Magnetic speed sensor revolution based on novel sensing technology

Dr Simon Hainz, Application Engineer, Infineon Technologies Austria AG, Austria

04:00

High resolution electric machine rotor position sensor improving electric vehicle performance

Ulrich Marl, Key Account Manager, Lenord, Bauer & Co. GmbH, Germany

04:30

Change to plenum

E: Thermal Management & Fluids

Lunch break and visit to the CTI SYMPOSIUM Expo

Water-based lubricant as a new pathway for electric vehicle lubrication

Hakim El-Bahi, R. & D. Manager, TotalEnergies OneTech, France

Direct e-motor cooling through hollow conductors – a breakthrough for power density and efficiency

Jörg Trommer, CTO, dynamic E flow GmbH, Germany

Thermal integration of high speed traction machines in EDUs

Christian Monissen, Research Associate, RWTH Aachen University, Germany

EV thermal fluids for immersion cooling enabling ultra-fast charging and extending battery life

Daniel Knoblauch, eMobility Liaison Manager Europe, BP/Castrol, Germany

Coffee break and visit to the CTI SYMPOSIUM Expo

Advancing EV fluid and improving energy efficiency using next-gen base stocks

Dr Tobias Klande, Technology Solution Professional, Esso Deutschland GmbH, Germany

New development methodologies for next generation EV fluid for fully integrated electric drive unit

Samanta Valsania, OEM Technical Liaison Manager, Petronas Lubrication International, Italy

Change to plenum

F: Development Methods, Tools & Testing

Lunch break and visit to the CTI SYMPOSIUM Expo

From electric motor to full vehicle NVH – a vibro-acoustic study comparing structure-borne & airborne noise

Cyril de Walque, Senior Application Engineer, Hexagon, Belgium and Riza Jamaluddin, System Dynamics, Specialist, Hexagon, UK

Oil jet cooling for e-drive systems: validation of virtual design and analysis methodology

Steven Vanhee, Senior Thermal System Engineer, Dana Incorporated, Belgium

Automated engineering approach for electric powertrain design

Dr Andreas Viehmann, Head of Competence Center Drive and Storage Technologies, EDAG Group, Germany

Next level of high-speed drive testing – challenges and their solutions by new concepts

Dr Albert J. Wimmer, CEO, Isar Getriebetechnik GmbH & Co. KG, Germany

Coffee break and visit to the CTI SYMPOSIUM Expo

New method to calculate gear dynamics in electrical powertrain

Dr Herve Mahe, NVH Master Expert, Valeo Embrayages, France

E-mobility and the new challenges of NVH testing

Dr Joschi Sucker, Head of NVH Testing and Technology, ATESTEO GmbH & Co. KG, Germany

Change to plenum

7 DECEMBER 2022 | **PLENARY PROGRAMME**

07:30 Check-in and opening of the exhibition

08:30 Opening of the CTI SYMPOSIUM GERMANY 2022 by the chairman and CTI



Prof. Dr Ferit Küçükay,
Chairman of the CTI SYMPOSIUM GERMANY



Sylvia Zenzinger,
Conference Director CTI SYMPOSIA
Car Training Institute

08:45 Plenary speeches

08:45

The transformation of the automotive industry towards zero emission and the impact on the value chain



Dr Thomas Schlick,
Senior Partner,
Roland Berger GmbH, Germany

10:00

cellcentric fuel cell engine for heavy-duty long-haul applications



Prof. Dr Christian Mohrdieck,
Chief Commercial Officer,
cellcentric GmbH & Co. KG, Germany

11:00

Coffee break and visit to the CTI SYMPOSIUM Expo

09:10

TotalEnergies committed to foster the transport energy revolution



Mathieu Soulas,
Senior Vice President Strategy & Supply,
TotalEnergies, France

10:25

MAN on the road to CO₂-free mobility



Dr Frederik Zohm,
Executive Board Member R&D,
MAN Truck & Bus SE, Germany

09:35

Joint Q&A with the panelists

09:45

Short break

10:50

Joint Q&A with the panelists

11:45 Expert discussion | Social Responsibility in the Automotive Industry – Sustainability, People, Cost, Customer Acceptance

Moderator Ulrich Walter

Panelists:

Dr Thomas Schlick, Senior Partner, Roland Berger GmbH, Germany

Joerg Brandscheid, Chief Technology Officer, Polestar, Sweden

Prof. Florian Schupp, Head of Purchasing and Supplier Management, Automotive Technologies, Schaeffler Automotive Buhl GmbH & Co. KG, Germany

7 DECEMBER 2022 | TECHNICAL SESSIONS

G: HEV Drives & Transmissions

12:30 –
02:00

Lunch break and visit to the CTI SYMPOSIUM Expo

01:30

02:00

Mercedes-AMG ePerformance – the high performance all wheel drive hybrid

Dr Kuno Fronius, Senior Manager for eAxle, Drive Train & NVH, **Mercedes-AMG GmbH**, Germany

02:30

The new Magna hybrid transmission for the Stellantis 48-Volt hybrid models

Paolo Barbero, DCTs & Hybrid DCTs Chief engineer, **Stellantis**, Italy and
Dr Joerg Gindele, Senior Director Engineering, Transmission Systems, **Magna Powertrain**, Germany

03:00

Coffee break and visit to the CTI SYMPOSIUM Expo

03:45

Development of electric powertrain for CR-V hybrid

Taisuke Furuhashi, Assistant Chief Engineer, **Honda Motor Co., Ltd.**, Japan

04:15

Drives in transformation – the era of e-mobility

Joachim Trumppf, General Manager, **GETEC Getriebe Technik GmbH**, Germany

04:45

Plenary Hall: Summary of the 21st CTI SYMPOSIUM GERMANY by the chairman

H: E-Drives

Lunch break and visit to the CTI SYMPOSIUM Expo

Holistic functional test systems in e-mobility: From inverter to e-axle with sustainable platforms

Ralph Heckmann, Vice President Sales e-Mobility, **teamtechnik Maschinen und Anlagen GmbH**, Germany

From segment cars to performance cars and LCVs, power of component kits

Rahul Plavullathil, Head of e-Axle Mechatronics Department, **Marelli Europe S.p.A.**, Italy

Next gen EDU pushing for increased overall efficiency in HV applications

PhD Lukasz Roslaniec, Department Leader Power Electronics, **hofer powertrain**, Germany

Coffee break and visit to the CTI SYMPOSIUM Expo

Increasing e-drive sustainability by high-speed motor technology

Mathias Deiml, Center Leader E-Drive, **AVL Software and Functions GmbH**, Germany

Experimental results on the mechanical efficiency of the high-speed powertrain Speed4E

Bernd Morhard, Research Associate, **Technical University of Munich**, Germany

Plenary Hall: Summary of the 21st CTI SYMPOSIUM GERMANY by the chairman

I: Commercial Vehicle Drives

Lunch break and visit to the CTI SYMPOSIUM Expo

Current and future challenges of zero-emission commercial vehicles

Andreas Kammel, Vice President Alternative Drivetrains, **TRATON SE**, Germany

Towards a common test method for corrosion in e-motors

Pär Nyman, Technical Manager, **Scania CV AB**, Sweden

Coffee break and visit to the CTI SYMPOSIUM Expo

Verification results of an e-axle for HD electric trucks

Felix Bayer, Technical Expert CV Powertrain Systems, **AVL List GmbH**, Austria

Energy price sensitivity of charging infrastructure optimisation of a bus fleet operator

Benjamin Daniel Blat Belmonte, Researcher, **Technical University of Darmstadt**, Germany

Plenary Hall: Summary of the 21st CTI SYMPOSIUM GERMANY by the chairman

7 DECEMBER 2022 | TECHNICAL SESSIONS

J: Batteries

12:30 –
02:00

Lunch break and visit to the CTI SYMPOSIUM Expo

01:30

The future of caravanning Towing a caravan from an electric vehicle (EV)

Dean Wiltshire, Founder / LLC Manager,
Colorado Teardrop Trailers LLC, USA

02:00

Range vs. fast charging capability – new development tools for solving the optimisation conflict of HV-batteries

Mareike Schmalz, Team Leader Battery Pre-Development,
Automobil-Prüftechnik Landau GmbH, Germany

02:30

Battery active cell balancing for enhanced battery capacity utilisation

Michael Ptacek, Head of eProduct House & Energy Storage
Systems, **Vitesco Technologies Group AG**, Germany

03:00

Coffee break and visit to the CTI SYMPOSIUM Expo

03:45

Novel battery housing design approaches with increased functional integration rates

Dr Thomas Hipke, Head of Main Division Light Weight
Design and Textile Technologies,
**Fraunhofer-Institute for Machine Tools and
Forming Technology IWU**, Germany

04:15

Battery immersion cooling ready for mass volume production

Helmut Kastler, Head of Development and Philipp Kreisel,
Managing Director, **Kreisel Electric**, Austria

04:45

Plenary Hall: Summary of the
21st CTI SYMPOSIUM GERMANY by the chairman

K: Automated Driving, Connectivity, Safety & Security, AI

Lunch break and visit to the CTI SYMPOSIUM Expo

Electrified drives for automated vehicles

Dr Axel Sturm, Scientific Assistant,
Institute for Automotive Engineering,
Technische Universität Braunschweig, Germany

Technical challenges for new vehicles in automated public transport

Dr Steffen Kutter, Head of Automated Driving and Driving
Strategies Research Group, Technical Project Leader
Absolut, **Technische Universität Dresden**, Germany

Coffee break and visit to the CTI SYMPOSIUM Expo

New automotive regulations on cyber security, software updates and impact on drivetrains

Dr Kai Frederik Zastrow, Senior Fellow Regulation
Certification Standards,
Stellantis, France

The artificial intelligence for the power transmission and e-mobility design

Dr Pierre-Emmanuel Dumouchel, CEO & Co-Founder,
Dessia Technologies, France

Plenary Hall: Summary of the
21st CTI SYMPOSIUM GERMANY by the chairman

L: Fuel Cell Drives & Hydrogen

Lunch break and visit to the CTI SYMPOSIUM Expo

Hydrogen fuel cell light commercial vehicles

Dr Lars Peter Thiesen, Manager, Hydrogen & Fuel Cell
Deployment Strategy,
Stellantis, Germany

Innovative hydrogen production based on SOEC

Josef Macherhammer, Product Manager Fuel Cell,
AVL List GmbH, Austria

Coffee break and visit to the CTI SYMPOSIUM Expo

A comprehensive comparison between BEVs and FCEVs performance reduction in cold climate conditions

PhD Michele Bilancia, System Engineer,
Punch Hydrocells, Italy

Integration of hydrogen tanks and batteries into a hybrid storage system

Dr Stefan Caba, Head of Competence Center Sustainable
Vehicle Development,
EDAG Engineering GmbH, Germany

Plenary Hall: Summary of the
21st CTI SYMPOSIUM GERMANY by the chairman

8 DECEMBER 2022 | CTI TEST DRIVE

Back
in the
programme!

An ounce of experience is worth a ton of theory

Take the opportunity and experience new types of drives and transmissions. New developments and concepts can be experienced exclusively on the test track. Ask detailed questions to the engineers while driving yourself!* The real live experience deepens the conference knowledge and connects theory and practice of the technology.

Limited number of participants. Register early!

All registrants and persons accompanying test vehicles are required to show a valid driving license and to complete a declaration of non-liability (for vehicle classes and motorcycles, if applicable). The form will be provided in advance.

A shuttle by bus between hotel and test area will be arranged by CTI. Further details ahead of the conference will be made available on our website, by e-mail and onsite.

Please be flexible when planning your return journey.
We recommend to wear comfortable shoes and warm clothes.

**You would like to provide a car for the CTI Test Drive?
Contact us and we will inform you about tailored opportunities.**

Contact: stephanie.segers@car-training-institute.com
www.drivetrain-symposium.world/testdrive

*Some vehicles might not be available for selfdriving but will be driven by the accompanying personell.

Schedule

- 08:30** Departure with the shuttle service from Estrel Hotel Berlin to TF Ring GmbH (Address: Straße zur Försterei 10, 15806 Zossen)
- 09:30** Arrival and welcome address
Tour around the test track and instructions
- 10:30** Start of the test drive
- 04:00** End of the test drive and departure to the Estrel Hotel Berlin
- 05:30** Arrival at the hotel



Register now

www.drivetrain-symposium.world/de



cti symposium

5 December 2022 Introductory Day
6 & 7 December 2022 Main Event & Exhibition
8 December 2022 CTI Test Drive

CONFERENCE FEE

	Early Bird (until 30 Sept. 2022)	Regular Fee (from 1 Oct. 2022)	Module
Introductory Day & Main Days & Test Drive	4.000 €*	4.100 €*	P2300547M014
Introductory Day & Main Days	3.450 €*	3.550 €*	P2300547M013
Main Days & Test Drive	3.050 €*	3.150 €*	P2300547M024
Main Days	2.500 €*	2.600 €*	P2300547M023
Introductory Day	1.400 €*	1.400 €*	P2300547M100

* excl. VAT per person. A substitute may attend in your place at no additional cost.

(Exhibitors and speakers interested in the introductory day and test drive please contact the respective conference coordinator.)

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Concept and Content

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Sponsoring and Exhibition

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