

# cti symposium<sup>us</sup>

 CARBON NEUTRAL  
AUTOMOTIVE DRIVETRAINS  
& INFRASTRUCTURE

24 – 25 May 2023 | Novi, MI, USA

## STRATEGIES AND TECHNOLOGIES ON THE PATH TO CARBON-FREE MOBILITY

- Erich Banhegyi, VP, BU Electrification North America, **Robert Bosch LLC**
- Jason Gies, VP, Product and Channel Management, **ABB E-mobility**
- Dr Mircea Gradu, SVP and CEO, **Ballard Power Systems, Inc.**
- John Hawkins, VP, Electrified Powertrain Technology North America, **ZF Group**
- Jeff Hemphill, VP and CTO, **Schaeffler Group USA, Inc.**
- Don Hillebrand, Deputy Associate Director, **Argonne National Laboratory**
- Thomas Hülshorst, Group VP Electric Powertrain, **FEV Group GmbH**
- Harry Husted, CTO, **BorgWarner**
- Patrick Leteinturier, Fellow Automotive Systems, **Infineon Technologies AG**
- Gerhard Meister, VP, Business Field Electrification, **AVL List GmbH**
- Joe Palazzolo, Director EV Strategy, **Dana Inc.**
- Craig Renneker, VP, Product Engineering – Driveline, **AAM**

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Mike Anderson,  
VP, Global Electrification  
and Battery Systems,  
**General Motors**



Alex Keros,  
Director, EV  
Infrastructure Dev.,  
**General Motors**



Micky Bly,  
SVP, Head of Global  
Propulsion Systems,  
**Stellantis**



John Juriga,  
Global Head of Energy  
Management and Vehicle  
Performance, **Stellantis**



Greg Gardner,  
Director, Underbody  
Systems,  
**Ford Motor Company**



Brian Schneidewind,  
VP, Powertrain Design,  
**Toyota Motor NA**



Pedro Garcia,  
Head of Propulsion  
Engineering,  
**Nikola Corporation**



Josh Anderson,  
CTO,  
**Workhorse**



Claire McConnell,  
VP Strategic Partnerships,  
**Proterra**



Christopher P. Thomas,  
Senior Fellow Product &  
Technology Strategy,  
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PLENARY SPEAKER & PANELISTS

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# CTI SYMPOSIUM USA

## THE EXPERT SUMMIT FOR A SUSTAINABLE FUTURE MOBILITY

Together, we can create a sustainable future for mobility. CO<sub>2</sub> reduction is critical for our products. Here the battery electric drive using renewable energy is the focus. What can we do to increase efficiency and reliability, reduce cost and at the same time reduce the upstream CO<sub>2</sub>. Experts from OEs and leading suppliers are presenting latest developments of electric drives, components such as inverters, power electronics, batteries and show efficiency gains through optimization tools and production technologies.

CTI SYMPOSIUM USA is the perfect place to discuss latest findings with decision makers and specialists. For the bigger picture market & consumer research results as well as questions around grid infrastructure will be discussed.

At CTI SYMPOSIUM USA, we drive progress in passenger cars and commercial automotive transportation. Manufacturers and suppliers are actively demonstrating how to keep pace and staying ahead of customer needs, environmental, institutional and economic demands.

We are looking forward to welcoming you at 17<sup>th</sup> CTI Symposium USA.

### **Patrick Lindemann**

President, E-mobility & Chassis Mechatronics  
Americas, Schaeffler Group USA Inc.

Chairman CTI SYMPOSIUM USA

INTERNATIONAL DELEGATES,  
EXHIBITORS & SPEAKERS

POWERTRAIN EXECUTIVE SPEECHES

4 EXECUTIVE & EXPERT PANELS

12 DEEP DIVE  
TECHNICAL SESSIONS

25+ HOURS OF CONTENT  
& NETWORKING

ENTERTAINING FORMATS  
WITH VALUABLE INSIGHTS

OEM Strategy Insights  
Latest Technology Lectures  
Active Audience Involvement  
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CTI RIDE & DRIVE



# CTI SYMPOSIUM EXPO

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**Find More Details on our Website**





# PLENARY PROGRAM 24 MAY 2023

**7:00** Check-in & Welcome Coffee in the CTI SYMPOSIUM EXPO

8:00 Opening | Welcome Address by the Chairman and CTI



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



**Sylvia Zenzinger,**  
Conference Director,  
CTI SYMPOSIUM, Car Training Institute

8:20 OEM Panel: Where is the Industry Moving?

**Electrification, connectivity, new mobility concepts, upskilling the workforce ... how OEMs deal with a multifaceted transformation.**



**Mike Anderson,**  
Vice President,  
Global Electrification and  
Battery Systems,  
General Motors, USA



**Micky Bly,**  
Senior Vice President,  
Head of Global Propulsion  
Systems,  
Stellantis, USA



**Greg Gardner,**  
Director, Underbody Systems,  
Ford Motor Company, USA



**Brian Schneidewind,**  
Vice President,  
Powertrain Design,  
Toyota Motor North America

**9:20** Networking Coffee in the Exhibition

**PRE-EVENING RECEPTION & PRE-CHECK-IN**

23 May, 5:00 PM – 8:00 PM

Fireside Lounge, Diamond Center Novi

**Join us for snacks & drinks! Start already here mingeling with peers, the speakers & exhibitors!**

**LECTURE PROGRAM**

24 May, 8:00 AM – 5:40 PM

25 May, 8:00 AM – 5:00 PM





# PLENARY PROGRAM 24 MAY 2023

## 10:10 Plenary Speeches

**10:10**  
**Challenges Arise – Innovation Overcomes!**



**Jeff Hemphill,**  
Vice President and CTO,  
Schaeffler Group USA, Inc.

**10:30**  
**The Battery Challenge: Meeting the Safety and Performance Requirements for All Levels of Electrification**



**Dr Thomas Hülshorst,**  
Group Vice President Electric Powertrain,  
FEV Group GmbH, Germany

**10:50**  
**Systematic Enhancement of the Battery Electric Vehicle Supply Chain**



**Erich Banhegyi,**  
Vice President Business Unit Electrification  
North America, Robert Bosch LLC, USA

**11:10** Joint Discussion with Plenary Speakers  
**11:30** Short Break

## 11:45 Supplier Panel: Transformation of the Automotive Industry from Supplier Point of View

**In the transition towards electrification, powertrain suppliers rebuild their product portfolios. Business fields and relationships are changing.**



**Dr Jörg Trampler,**  
Director of Engineering,  
Center North America,  
Car Powertrain Technology,  
ZF North America, Inc., USA



**Jeff Hemphill,**  
Vice President and CTO,  
Schaeffler Group USA, Inc.



**Harry Husted,**  
CTO,  
BorgWarner Propulsion  
Technical Center, USA



**Craig Renneker,**  
Vice President Product  
Engineering –  
Driveline, AAM, USA

**12:45** Lunch Break in the Exhibition  
**1:45** Short Break, Transition to the Parallel Sessions

# PLENARY PROGRAM 25 MAY 2023

## CHECK-IN

23 May: 05:00 PM – 08:00 PM  
24 May: 07:00 AM

## LECTURE PROGRAM

24 May: 8:00 AM – 5:40 PM  
25 May: 8:00 AM – 5:00 PM

**7:30** Check-in & Welcome Coffee in the CTI SYMPOSIUM EXPO

8:00 Opening of Day 2 by the Chairman and CTI

8:10 Plenary Speeches

**8:10**  
**Hydrogen is the Future**



**Pedro Garcia,**  
Head of Propulsion Engineering,  
Nikola Corporation, USA

**8:30**  
**Scalable Fuel Cell System Solutions for Mobility Industries with Emphasis on Heavy Duty Applications**



**Dr Mircea Gradu,**  
Senior Vice President and Chief Engineering  
Officer, Ballard Power Systems, Inc., USA

**8:50** Joint Discussion with the Plenary Speakers

9:00 Executive Panel: Truck Electrification

**BEV and FCEV trucks will both play a role for decarbonized transportation. Their success will significantly depend on the availability of green electricity and H2.**



**Pedro Garcia,**  
Head of Propulsion Engineering,  
Nikola Corporation, USA



**Josh Anderson,**  
Chief Technology Officer,  
Workhorse, USA



**Joe Palazzolo,**  
Director EV Strategy,  
Dana Inc., USA



**Gerhard Meister,**  
VP Business Field Electrification,  
AVL List GmbH, Austria



**Claire McConnell,**  
VP of Strategic Partnerships,  
Proterra, USA

**9:50** Networking Coffee in the Exhibition

# PLENARY PROGRAM 25 MAY 2023

## 10:40 Plenary Speeches

**10:40**  
**Semiconductor is a Key for  
the Future Smart and Green Mobility**



**Patrick Leteinturier,**  
Fellow Automotive Systems,  
Infineon Technologies AG, Germany

**11:00**  
**New Developments in  
Electric Beam Axle Technology**



**Craig Renneker,**  
VP Product Engineering – Driveline,  
AAM - American Axle & Manufacturing, USA

**11:20** Joint Discussion with the Plenary Speakers

## 11:30 Expert Panel: Range Anxiety vs. Charging Infrastructure

The further adoption of BEVs will depend on the an adequate charging infrastructure. Concerted efforts of the industry and society are needed to meet our electrification goals.



**Alex Keros,**  
Director, EV Infrastructure  
Development,  
General Motors, USA



**John Juriga,**  
Global Head of Energy  
Management and  
Vehicle Performance,  
Stellantis, USA



**Matthew Stover,**  
Director, Charging &  
Energy Services,  
Ford Motor Company,  
USA



**Christopher P. Thomas,**  
Senior Fellow Product &  
Technology Strategy XPT,  
NIO, USA



**Don Hillebrand,**  
Deputy Associate Director,  
Argonne National Laboratory,  
USA



**Jason Gies,**  
VP, Product and Channel  
Management,  
ABB E-mobility, USA

**12:40** Lunch Break in the Exhibition  
**2:00** Beginning of Parallel Sessions

[Click Here for More Program Details](#)





# DEEP DIVE SESSIONS 24 MAY 2023

## A: Electric Drives Units I

## B: E-Motors

## C: Batteries I

1:45

- 2:15

**What do Chinese and US Consumers Love and Hate About Their EV's?**

Paul Haelterman, Vice President, **Strategic Vision**, USA
- 2:45

**Presentation Title tbc**

Dapo Adewusi, F150 Lightning Vehicle Engineering Manager, **Ford Motor Company**, USA
- 3:15

**Electric Driveline Technology for Mercedes-AMG GT 63 S E PERFORMANCE**

Joe Mueller, Executive Director, **American Axle Manufacturing**, USA
- 3:45

Networking Time and Visit of the Exhibition
- 4:30

**The EtelligentReach Project – A New Level for Range and Dynamics**

Dr Daniel Lindvai-Soos, Director, Product Management, NEXT Drive, **Magna Powertrain**, Austria
- 5:00

**E-Axle Family Strategy: Agile Answer to a Moving EV Market**

Rahul Plavullathil, Head of E-Axle Mechatronics Department, **Marelli Europe S.p.A.**, Italy
- 6:00

CTI Networking Night

- The Future of Electric Motors**

Jonathan Getz, eMotor Customer Solutions, **Schaeffler USA LLC**, USA
- Electric Motor Design and Optimization Principles for Passenger Cars and Light Commercial Vehicles**

Daniele Zecchetti, Electric Motor Research and Development Director, **Marelli Europe S.p.A.**, Italy
- Highly Efficient In-Wheel Motor With Low Manufacturing Costs**

Dr Alexander Rosen, Co-Founder and System Engineer, **DeepDrive GmbH**, Germany
- Networking Time and Visit of the Exhibition
- Stator and Rotor Winding Innovations for Automotive High-Voltage E-Traction Drives**

Kumar Rajasekhara, CEO and President, **Marsilli North America**, USA
- The Production Process of Hairpin Stators (... and What is Not on the Drawing)**

Matthias Weber, Technology Lead E-Mobility and Test Equipment, **Felsomat GmbH Co. KG**, Germany
- CTI Networking Night

- Battery Strategies of Stellantis: The Pathway to the Carbon Net Zero Society**

Byung-Ki Ahn, VP, Global Head of Battery Cells, Modules and Packs, **Stellantis**, USA
- All-Solid-State Battery with Lower Stack Pressure**

Dr Rashid Farahati, Director Corporate Competence Center Americas, **Schaeffler Group**, USA
- Battery Algorithm Development**

Matthew Wise, Design Engineer, **Schaeffler Transmission Systems, LLC**, USA
- Networking Time and Visit of the Exhibition
- Megawatt Charging for E-Motorsport: From 5% to 85% (SOC) in Just Under 90 Seconds**

David Wollschlaeger, Engineer, **hofer powertrain**, Germany
- A New Patented Intrinsic Safety Battery - iBDU (intelligent Battery Disconnect Unit) with Centralization of Functions**

David Wollschlaeger, Engineer, **hofer powertrain**, Germany
- CTI Networking Night



# DEEP DIVE SESSIONS 24 MAY 2023

## D: Thermal Management & Lubrication

- 1:45

**Compatibilities of Elastomer Sealing Materials in Dielectric E-Fluids for Direct Contact, Immersive Cooling Technologies in EVs**

Mark Nevitt, Senior Applications Development Chemist, **Zeon Chemicals L.P.**, USA
- 2:15

**Increasing Power Density by Advanced Cooling of Electric Traction Motors**

Robert Smyczynski, Head of Light Vehicle Innovation and Advanced Engineering, **Dana Incorporated**, Belgium
- 2:45

**Modular Electric Pumps and Drives for Cooling, Lubrication and Actuation**

Alexander Reul, Manager - Advanced R&D, **Buehler Motor**, Germany
- 3:15

**New Full-Scale Testing Capabilities and Increasing Hardware Performance through Dedicated E-Fluids**

David Whitticar, Driveline Test Engineer – Electrification, **The Lubrizol Corporation**, USA
- 3:45

Networking Time and Visit of the Exhibition
- 4:30

**How New E-Fluid Formulation Enable Efficiency and Better Performance Under High-Speed Conditions**

Torsten Murr, Global Technology Manager Transmission Fluids, **Shell Global Solutions Deutschland GmbH**, Germany
- 5:00

Improve Performance of EV Driveline Fluids Using Synthetic Base Oils and Novel PAOs

**PRESENTATION CANCELLED**

Dr Rohan Huie, Global Marketing Leader, **ExxonMobil Product Solutions**, USA
- 6:00

CTI Networking Night

## E: E-Drive Components I

- Introducing Glulock Bonding Process for Improved E-Motor Cores**

Markus Lock, Head of R&D and Engineering, **Feintool System Parts Sachsenheim GmbH**, Germany
- Ultra Compact Differential, Bearing and Seal for High Power Density E-Axle**

Makoto Nishiji, Chief Engineer, Senior General Manager, Driveline Department, **JTEKT Corporation**, Japan
- Scalable Torque Management Systems or How to differentiate in Electrification**

Mattias Magnusson, Manager Vehicle Dynamic and Hannafia Spånberg, Director Engineering Europe, **BorgWarner**, Sweden
- Development of Advanced Torque Vectoring System for EV: TVTC (Torque Vectoring by Twin Clutch)**

Hosub Lee, Senior Research Engineer, **Hyundai-Wia Company**, Republic of Korea
- Networking Time and Visit of the Exhibition
- Tailored Actuation System for Electrified Drivetrains**

Christian Steinwandel, Chief Engineer eMobility, **Schaeffler Group**, USA
- CTI Networking Night

## F: NVH & Development Optimization

- Optimization of NHV-Behaviour and Tooth Contact Analysis with Consideration of Production Variance**

Marcus Morgenstern, CAE Engineer, **IAV GmbH**, Germany
- Fault Detection and Isolation in Electric Drive Systems**

Ahmad Ghaderi, Systems Chief Engineer, **Dana Incorporated**, USA
- E-Mobility and the New Challenges of NVH-Testing**

Dr Joschi Sucker, Head of NVH Testing and Technology, **ATESTEO GmbH & Co. KG**, Germany
- Networking Time and Visit of the Exhibition
- EDU Radiated Noise Simulation Using a Hybrid FEA and MBS Approach**

Joern Baumann, Senior Engineer, **FEV North America, Inc.**, USA
- Twin E-Axle System Performance Optimization Through Load Split Tuning**

Dr Michael Leighton, Technical Expert, **AVL List GmbH**, Austria
- CTI Networking Night



# DEEP DIVE SESSIONS 25 MAY 2023

G: Electric Drive Units II		H: Batteries II	I: Inverters & DC DC Converter
1:30	<b>How to Profitably Enter the Market and Scale in the Dynamic Electrification Space</b> Frank Webb, Director of Engineering, <b>Edison Manufacturing &amp; Engineering</b> , USA		<b>Grid to EV Battery: Challenges and System Approaches</b> Dr Lewei Qian, Global Director of Power Electronics, <b>APTIV</b> , USA
2:00	<b>eS4500i: Highly Integrated Electric Drive Unit for Multiple Applications</b> Marco Silvestri, Project Engineer, <b>Dana</b> , Italy	<b>Functional Safety for Electric Vehicle Switching and Protection Technology</b> Werner Happenhofer, VP Engineering, <b>Eaton</b> , USA	<b>New Concept of Switching Cell for 800V SiC Inverter Application</b> Sanjaka Wirasingha, R&D Director – Americas, <b>Valeo</b> , USA
2:30	<b>Development of Highly Scalable Compact Integrated Drive Module (iDM)</b> Andreas Mayer, Senior Lead Engineer, Advanced E-Motor and E-Drive Engineering, <b>BorgWarner</b> , USA	<b>Efficient Battery Repair and Diagnosis of xEV and SOH Assessment of Battery Models</b> David Pflanzl, Product Manager E-Mobility, <b>AVL DiTest</b> , Austria	<b>EV Drivetrain Optimized Silicon Carbide Power Devices – Supply, Reliability and Longevity into Automotive Electrification Applications</b> Dr Jeff Casady, Product Director, <b>Wolfspeed</b> , USA
3:00	Networking Time and Visit of the Exhibition	Networking Time and Visit of the Exhibition	Networking Time and Visit of the Exhibition
3:40	<b>New Tech in EDUs for more Cont. Power and Overall Efficiency</b> Thomas Hackl, COO, <b>hofer powertrain</b> , Germany	<b>Transform EV and Battery Labs into High-Performance Test Factories</b> Gerald Sammer, Principal Business Development Manager, <b>AVL List GmbH</b> , Austria	<b>Technology Roadmap of Si IGBT and SiC MOSFET Modules for Main Inverter Applications</b> Dr Yu Yang, Senior Technology and Market Analyst, <b>Yole Intelligence</b> , France
4:10	<b>Sustainable High-Speed EDU Gen-2</b> Wilhelm Vallant, Product Manager, <b>AVL List GmbH</b> , Austria	<b>Understanding and Analyzing Battery Pack Energy Density</b> <b>Andy Oury</b> , Engineering Technical Leader, HV Battery Packs, <b>General Motors</b> , USA	<b>Highly Integrated On-Board-Charger and DC/DC Converter</b> Bob Li, Chief System Architect, <b>Ricardo Plc</b> , USA
4:40	<b>Gen-1 EDU: Double the Power</b> Matthew Memmer, Director of Engineering, <b>TREMEC</b> , USA		
	Change to Plenary Hall	Change to Plenary Hall	Change to Plenary Hall
5:15	<b>Summary and Closing by the Chairman</b>		
5:30	<b>End of CTI SYMPOSIUM USA 2023</b>		



# DEEP DIVE SESSIONS 25 MAY 2023

## J: Truck Electrification

1:30

2:00

**Electrification of the HD Commercial Vehicle Market – Market and Technology Evaluation for Battery Electric Powertrains and Charging Solutions**

Simon Buderath, Principal Strategy and Technology,  
**P3 USA Inc**, USA

2:30

**Heavy Truck Hybridization**

Gustavo Gomes,  
Program Manager,  
**Schaeffler Group**, USA

3:00

Networking Time and Visit of the Exhibition

3:40

**Modular Electric Driveline Platform for Commercial Vehicles**

Robert Levy,  
Technical Specialist,  
**ZF CV Systems North America LLC**, USA

4:10

**Commercial Fleet Vehicle Electrification – EV Platforms**

Dario Bignamini, Head of Project & Engineering Management,  
Chief Engineer, **REE Automotive**, UK

4:40

**Making the Grade – Electrification of Commercial Duty Vehicles**

John Kimes, Founder & CEO, **Sigma Powertrain**, USA

Change to Plenary Hall

5:15

**Summary and Closing by the Chairman**

5:30

**End of CTI SYMPOSIUM USA 2023**

## K: E-Drive Components II

**Electromagnetic Clutch Technology**

Dr Yang Cao, Senior Supervisor,  
**Jing-Jin Electric**, China

**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 Intelligence**, France

**Hidden Power Electronics Cost Drivers in the Development of E-Drive Systems**

Jeffrey Musson, Head of Systems Development,  
**GKN Automotive**, USA

Networking Time and Visit of the Exhibition

**Magnetic Speed Sensor Revolution by Introducing New Sensing Technology**

Yunfeng Li, Senior Application Engineer,  
**Infineon Technologies Austria AG**

**Novel Multi-Functional Shift System for EV Drivetrains**

John Jennings, Director of eMobility and Innovation,  
**Amsted Automotive**, USA

**Superior Performance Friction Systems for Multiple e-Axle Archicture**

Christoph Hagauer, Engineering Manager ePowertrain,  
**Miba Frictec GmbH**, Austria

Change to Plenary Hall

## L: EDU Optimization and Digital Twins

**Efficiency and Range Determination Aspects for EDU and BEV**

Tom D'Anna,  
Director, eMobility - Validation & Controls,  
**FEV**, USA

**Optimal Sizing of Electric Drives for BEV Through Vehicle-Level Simulation**

Sandeep Saini, Senior Staff Systems Engineer,  
**Vitesco Technologies**, USA

Networking Time and Visit of the Exhibition

**How to Improve Sustainability of an Electric Vehicle with Torque Vectoring**

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

**Demonstrating a Cloud-Based Gearbox Digital Twin Using Telematics Data for Reliability Predictions**

Lou Long, Business Development Director, **Hexagon**, USA

**Accelerating Development of a High Performance E-Axle Leveraging Digital Twin**

Dr Matti Vint, Director Vehicle Electrification,  
**Marelli North America**, USA

Change to Plenary Hall



# CTI RIDE & DRIVE 24 & 25 MAY 2023

Experience the latest powertrain technologies up close at the CTI Ride & Drive parcours. Enjoy a full-feature tech experience in series and demo vehicles – and deepen your understanding in dialog with specialist vehicle engineers.

## How do I book?

CTI Ride & Drive is an integral part of the main event. To book your time slot, just drop by the reception desk at your earliest convenience.

## What do I need?

You'll need to show a valid driver's license, and also sign the Waiver of Liability form we provide at the check-in desk.

## Will everyone get a driving slot?

You can only register at our dedicated desk onsite. Please note that slots are limited.

## Where can I get details?

For details of available vehicles, visit our website [www.drivetrain-symposium.world/us](http://www.drivetrain-symposium.world/us).

## Showing a dedicated vehicle at CTI SYMPOSIUM

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 is the ideal way to make their vehicle tech and applications stand out. (Additional vehicle displays in the exhibition, ask for availabilities.)

Have your theoretical input converted in a long-lasting experience. **Get your managers and marketing department involved.**

For questions contact  
**[stephanie.segers@car-training-institute.com](mailto:stephanie.segers@car-training-institute.com)**

**Find More Details on our Website**





The **cti magazine** covers topics related to carbon neutral automotive drivetrains, its components and infrastructure. It provides even more industry information beyond the extensive lecture programme and exhibition of the CTI SYMPOSIUM.

The cti magazine is published in English and distributed to our extensive database and our followers on social media.

Position yourself by publishing an article or place an advertisement in our next issue published in May.

**Deadline for the submission: 24 March 2023**

Get in touch right away to make sure you are in!



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# cti symposium<sup>US</sup>

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