

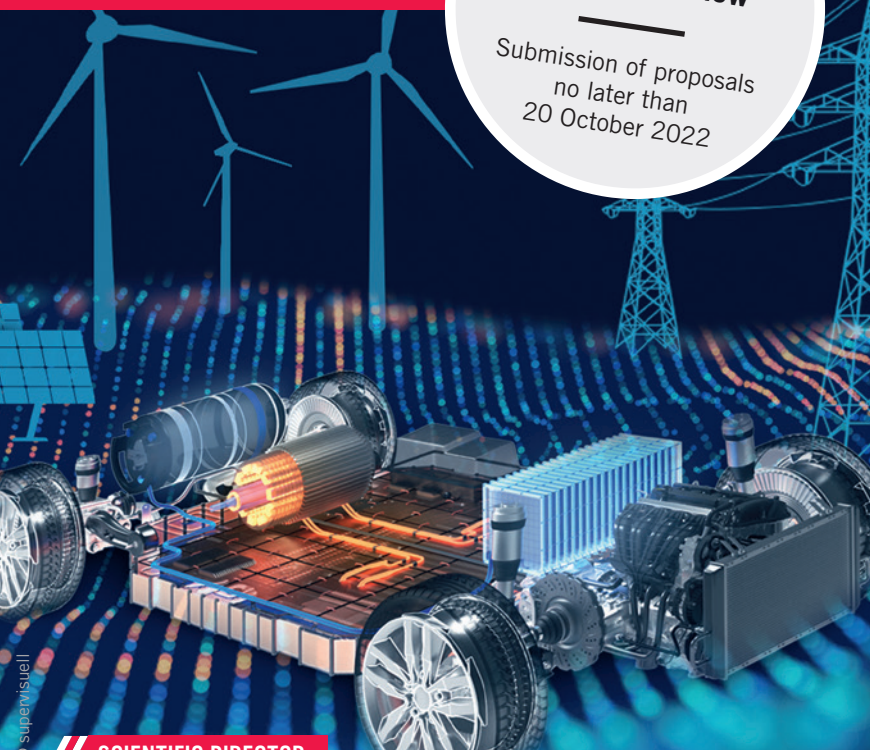
# Powertrains and Energy Systems of Tomorrow 2023

Shaping the future open to  
all technologies

28 – 29 March 2023  
Berlin, Germany

**Call for Papers**  
Apply online now

Submission of proposals  
no later than  
20 October 2022



**SCIENTIFIC DIRECTOR**

**Prof. Dr. Peter Gutzmer,**  
Editor-in-Charge ATZ | MTZ Group



# Shaping the future open to all technologies

## / POWERTRAIN SOLUTIONS FOR HEV, PHEV, BEV, AND FCEV

Technology, systems and economy

## / INFRASTRUCTURE AND ENERGY CHAINS

Regenerative electricity, storage systems, hydrogen, global systems

## / GRID INTEGRATION

Energy and data management, sector coupling

## / INTERNATIONAL APPROACHES

Production, distribution, distribution chains, costs

## / SUSTAINABILITY

Efficiency, eco-friendliness, safety

### IN FOCUS

Is the speed sufficient?



**Prof. Dr. Peter Gutzmer**  
Editor-in-Charge ATZ | MTZ Group,  
Springer Nature

## Welcome

In the shift of energy and mobility systems towards solutions based on renewable electricity, raw material and value chains must be restructured and the CO<sub>2</sub> footprint must be evaluated comprehensively and the economic consequences and social aspects in a global context must be taken into consideration.

Where do we currently find ourselves in the development of regenerative-based power generation and grid infrastructure? Do electric vehicles gain market volume quickly enough? What are the main technologies emerging? How do infrastructure expansion and volume growth affect the CO<sub>2</sub> balance? What role will hydrogen play in passenger cars and commercial vehicles?

The discussion of technology between leading representatives of the automotive industry, energy producers and grid operators, as well as political representatives, will be the essential questions in this congress.

I would like to invite you to play an active role in the 17th International MTZ Congress “Powertrains and Energy Systems of Tomorrow” by presenting a paper. Details on submitting your paper can be found below in this Call for Papers.

On behalf of the Scientific Advisory Board

## Stay at the cutting edge!

- ✓ Highly relevant technical papers presented by renowned speakers
- ✓ Networking in the international expert community
- ✓ Innovative products and services

## Powertrains and Energy Systems of Tomorrow

The technological transformation in individual mobility on the basis of regenerative primary energy requires an intensified technical exchange of ideas between leading representatives of the automotive and energy industry on the one hand and science and politics on the other. For that reason, this congress will focus on topics that not only describe the change in vehicle powertrains, but also present technological solutions in the associated infrastructure, including the provision of primary energy. Discussions will concentrate on political framework conditions as well as on systemic innovations for the future and digital solutions.



## Participants

This ATZlive congress is aimed at executives and engineers as well as experts in industry, authorities, NGOs, and scientific institutes who are involved in powertrain development, the generation and distribution of hydrogen and electricity, the expansion and integration of the power grid, international markets, production networks, and supply chains.

Media partners

## Scientific Advisory Board

Our Scientific Advisory Board, which is made up of prominent experts in their respective fields, provides support during the planning phase of the congress and helps to identify suitable topics.

With its expertise the board will make a valuable contribution to the choice of themes for the lecture program.



**Prof. Dr. Peter Gutzmer**  
Editor-in-Charge ATZ | MTZ Group,  
Springer Nature

Scientific Director of the Congress

**Dr. Norbert Alt**  
FEV Group GmbH

**Prof. Dr. Michael Bargende**  
University of Stuttgart

**Klaus Baumgärtner**  
BridgingIT GmbH

**Prof. Dr. Bernhard Geringer**  
TU Vienna

**Dr. Kathrin Goldammer**  
Reiner Lemoine Institut gGmbH

**Prof. Dr. Uwe Dieter Grebe**  
AVL List GmbH

**Axel Hausen**  
Netze BW GmbH

**Lars Hentschel**  
Volkswagen AG

**Dr. Urban Keussen**  
EWE AG

**Isabell Knüttgen**  
e-mobil BW GmbH – State Agency for  
New Mobility Solutions and Automotive  
Baden-Württemberg

**Matthias Kratzsch**  
IAV GmbH

**Christian Lensch-Franzen**  
APL Automobil-Prüftechnik Landau GmbH

**Xaver Pfab**  
BMW Group

**Stephan Rebhan**  
Vitesco Technologies AG

**Prof. Dr. Hans-Christian Reuss**  
University of Stuttgart

**Dr. Peter Sauermann**  
BP Europa SE

**Dr. Otmar Scharrer**  
ZF Friedrichshafen AG

**Dr. Wolfgang Warnecke**  
Shell Global Solutions (Deutschland) GmbH

**Dr. Marco Warth**  
MAHLE GmbH

**Ursel Willrett**  
IAV GmbH

### **Innovative Powertrain Systems**

Mild hybrid powertrains | Hybrid and plug-in hybrid powertrains |  
Battery-electric powertrains | Fuel cell powertrains |  
Transmissions in electrified powertrains

### **Traction Batteries**

Level of maturity | Production and availability | Additives | Calibration |  
Raw materials | Efficiency | Recycling | Second Life

### **Fuel Cell and Hydrogen Technologies**

Level of maturity | Production and availability | Additives | Calibration |  
Storage inside and outside the vehicle

### **Energy and Thermal Management**

Efficiency improvements and emission reduction | Operating strategies  
in connected drivetrains | Waste heat utilization | Heat protection |  
Battery management

### **Infrastructure and Markets for Electricity and Hydrogen**

Business models | National and international framework conditions  
in politics and business

### **Grid Integration for Electricity and Hydrogen**

Political framework conditions | Generation, transmission, distribution |  
Sector coupling | Charging and refueling infrastructure – expansion and  
standardization | Utilization of flexibilities | Data services, data transmis-  
sion, data security

### **Technology for Electricity and Hydrogen Infrastructure**

Requirements for components and systems | Energy storage systems |  
Charging and refueling systems | Energy and thermal management

### **Production Technologies, Value Chains and Sustainability**

### **Your presentation platform**

Take this opportunity to present your latest products and services to the  
specialist audience: as an exhibitor in our exclusive exhibition and/or as  
a sponsor with an attractive advertising presentation. Make use of this  
industry meeting place to make valuable contacts with customers!

For information on the various presentation options, please contact:

Mr. Alex Woidich

Phone +49 611 7878-206 | alex.woidich@springernature.com

## **Further information and online submission of your proposal:**

[www.atzlive.de/en/powertrain](http://www.atzlive.de/en/powertrain)

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28 – 29 March 2023, Berlin, Germany



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no later than**

**20 October  
2022**

### **Are you interested in presenting a paper on one of these subjects?**

If so, please submit a short version of your paper via the online portal  
to the event page indicated.

### **Your submission proposal in English should contain:**

- The title of the paper
- The name of the speaker with job title, company address,  
telephone number and e-mail address
- The name of any co-authors with company address
- The main points and a brief summary of the paper's contents  
(abstract)
- Brief summary of the innovative value of the work  
(please submit documents in PDF)
- Classification under one of the main subject areas

On the basis of the short version of the paper, the Scientific Advisory  
Board for the congress will decide on its acceptance.

### **Information on the congress**

The time allowed for presentation is 20–25 minutes with a subsequent  
discussion. The registration fee will be waived for one speaker per  
paper presented. The language of the manuscripts and slides is English.

### **Schedule**

Deadline for submission proposals: **20 October 2022**

Notification of the authors: **December 2022**

Submission of final manuscripts: **10 February 2023**

The final congress program will be published in January 2023.



## Impressions of 2022

