



Impressions of 2020



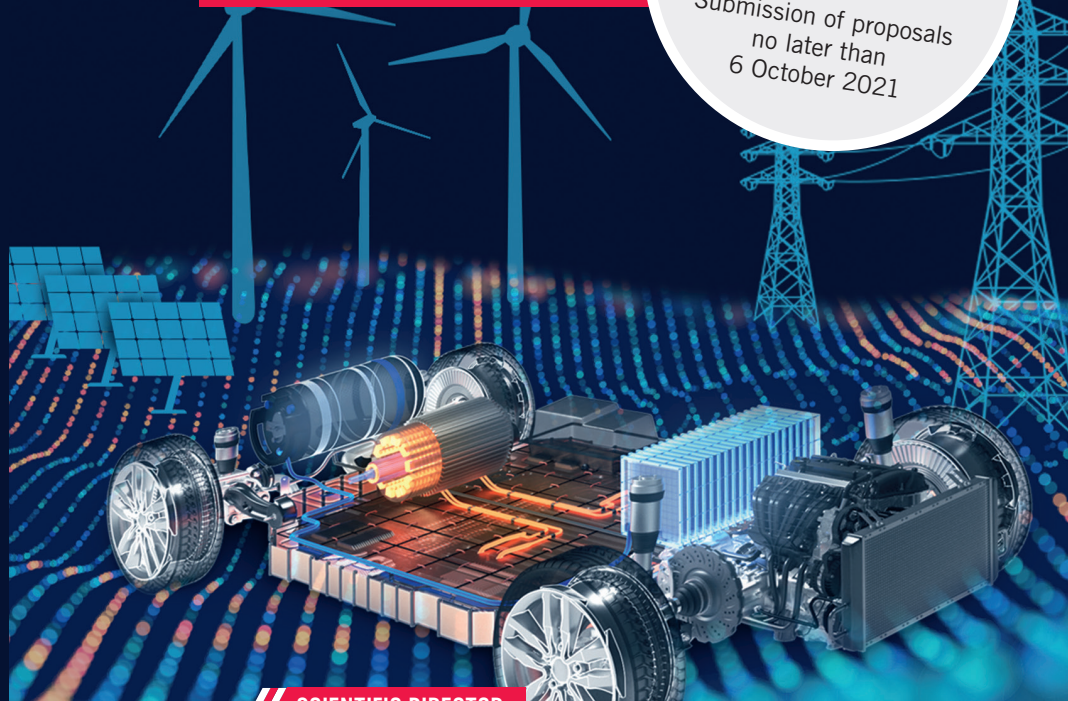
Powertrains and Energy Systems of Tomorrow 2022

Shaping the future open to all technologies

10 – 11 May 2022
Berlin, Germany or
virtually via live stream

Call for Papers
Apply online now

Submission of proposals
no later than
6 October 2021



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, sustainability, 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

IN FOCUS

Future powertrains and energy systems under one roof



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

Welcome

Climate protection plays a prominent role in the context of the UN sustainability goals. The focus in particular is on the defossilization of energy systems and transportation, with a move towards solutions that are based on regenerative electricity. There is a need to redefine the generation, processing, and distribution of energy, as well as its use and conversion. We have to act quickly, sustainably, and across different systems, with an approach that is open to all technologies. This technological exchange of ideas among leading representatives of the automotive industry, energy companies, and power grid operators is consistently emphasized in this joint congress.

The aim is to find a global powertrain mix that can systemically address the challenge of a sustainable and secure supply and distribution of energy. I would like to invite you to play an active role in the 16th 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

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FEV Group GmbH

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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

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 transmission, 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 and Value Chains

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:

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Further information and online submission of your proposal:



www.atzlive.de/en/powertrain

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no later than**

**6 October
2021**

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: **6 October 2021**

Notification of the authors: **December 2021**

Submission of final manuscripts: **28 March 2022**

The final congress program will be published in February 2022.