

## Vehicles of Tomorrow

Development – Materials – Production

19 and 20 November 2019 | Frankfurt/Main | Germany



Simultaneous Interpreting  
German and English

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### CONCEPTS

Vehicle concepts  
for tomorrow's  
mobility

### MATERIALS

Materials for the  
vehicles of  
tomorrow

### PRODUCTION

Innovative joining  
technology and  
production processes

### /// CONFERENCE MANAGEMENT

**Dr. Alexander Heintzel**, Editor-in-Chief ATZ | MTZ Group, Springer Nature

**Dr. Hubert Pelc**, Head of Specialist Media Materials | Energies, Springer Nature



Venue: House of Logistics and Mobility (HOLM)



## PROGRAM ADVISORY BOARD



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# Vehicles of Tomorrow

## WELCOME

What do viable concepts need to look like if they are to fulfill future mobility requirements? Digitization is leading to an expansion of the shared society. Megacities in particular will see a significant increase in intermodal traffic. The question is: how can we create tailor-made and efficient transportation and at the same time systemically design the ongoing transition in mobility? The future can be shaped by the active development of clean and intelligent mobility.

Intelligent, connected, electrified, and automated vehicles present designers, vehicle developers, materials engineers, and production specialists alike with new challenges, as they open up new degrees of freedom and concepts for the vehicle body, chassis, and interior. These challenges require the application of innovative materials and material combinations. In the production process however, these materials then have to be combined with new vehicle concepts that are safe and reliable, of high quality, and efficient with regard to materials and costs before the vehicle is finally put on the road. What is more, competition is arising between universal vehicles with a large variety of derivatives and concepts that are tailored to a specific purpose, such as package delivery.

The international conference “Vehicles of Tomorrow” provides an information and communication platform for all those whose job it is to find solutions in the process chain of vehicle development. At the same time, the conference aims to promote an effective exchange of ideas between research and industry.

We would like you to give us an insight into your current innovative research and development activities. On behalf of the Program Advisory Board, we cordially invite you to contribute towards the success of our conference by presenting a paper.

We are already looking forward to a dialogue with you. Further details about submitting a paper can be found in this Call for Papers.

On behalf of the Program Advisory Board

Dr. Alexander Heintzel  
Editor-in-Chief  
ATZ | MTZ Group,  
Springer Nature

Dr. Hubert Pelc  
Head of Specialist Media  
Materials | Energies,  
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## PARTICIPANTS

This conference is aimed at all those involved in finding solutions in the process chain of vehicle development and who deal with the topics of design, development, materials, and production. It is a key meeting place for decision-makers, materials and development engineers, technicians, plant managers for car and commercial vehicle manufacturers, suppliers, machine manufacturers, and engineering service providers, as well as universities and associations.



## MAIN SUBJECT AREAS

### Concepts

- Passenger car and commercial vehicle concepts: new packages (e. g. People Mover, Robo-Taxi)
- Vehicles for the “last mile” (e. g. drones)
- Body and chassis (shape, aerodynamics, weight, stiffness, safety)
- Interior / interior concepts
- Design
- Degrees of freedom for vehicle concepts due to automated driving

### Materials

- Metallic materials
- Composites
- Plastics
- Ceramics
- Multi-material construction

### Sustainability

- Recycling / material cycle
- End-of-lifecycle
- Energy / material efficiency

### Efficient joining technologies and component cleaning

- Structural adhesive bonding
- Bonding agents
- Joining different materials
- Plasma treatment
- Laser cleaning

### Production processes / production technologies

- Multi-material construction
- New production technologies (processes, equipment, plant)
- Additive manufacturing (prototyping and small series)
- Production 4.0 (automation, digitization, networking)
- Assembly technology

## 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:  
Elke van Lon  
Phone +49 611 7878-320  
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## CALL FOR PAPERS

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

If so, please send a short version of your proposed paper to:

Michaela Kues | ATZlive  
Abraham-Lincoln-Straße 46 | 65189 Wiesbaden | Germany  
Phone +49 611 7878-274 | Fax +49 611 7878-452  
michaela.kues@springernature.com

### Your submission proposal in English should contain:

- The title of the paper
- The name of the speaker and any co-authors with job title, company address, telephone number, and e-mail address
- Main points of the paper's contents and a short abstract
- Classification under one of the main subject areas
- Brief indication of the innovative value of the work  
(Please submit documents in PDF or Microsoft Word format)

The Program Advisory Board for the conference will decide whether to accept each paper on the basis of the short version.

### Information on the Conference

The time allowed for presentation is 20 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: **29 March 2019**

Notification of the authors: **27 June 2019**

Submission of final manuscripts: **8 October 2019**

The final conference program will be published in August 2019.

**DEADLINE FOR SUBMISSION PROPOSALS**

**29 MARCH 2019**