

Call for Papers

International Congress

PIAE 2022

Submit your paper under the following focus topics:

- CO₂-neutral use of plastics
- Interior, exterior and structural components
- Manufacturing processes and quality assurance
- Use of plastic in BEVs and HEVs

Congress Chairman

Dipl.-Ing. Thomas Drescher, Head of Pre-development and Vehicle assessment, Structure development, Volkswagen AG, Wolfsburg

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Be a speaker!

Submissions deadline:
September 17, 2021

+ Exhibition

+ World Cafés

+ Workshops

+ Panel discussion

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An event of VDI Wissensforum GmbH
www.vdi-wissensforum.de/en/piae
 Phone: +49 211 6214-201 • Fax +49 211 6214-15

March 30 – 31, 2022, Mannheim

General information

The time allotted to a presentation is **20 – 25** minutes, followed by **5 – 10** minutes for discussion of your contribution with the audience. The presentations can be given in German or English. There will be simultaneous translation from German into English language.

Costs

Speakers participate in the conference free of charge (up to two speakers per presentation). Travel expenses will not be refunded.

Any more questions?

Daniel Schröder

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Congress Chairman

Dipl.-Ing. Thomas Drescher, Volkswagen AG, Wolfsburg

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Panel of Experts

Dr. Dipl.-Phys. Eberhard Duffner, ARBURG GmbH + Co. KG, Loßburg

Jochen Hardt, Covestro Deutschland AG, Leverkusen

Roger Kaufmann, GK Concept GmbH, Dresden

Klaus Münker, Magna Exteriors GmbH, Altbach

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Submit your
paper now!

VDI

Call for Papers

Please submit an abstract by **September 17, 2021** in the scope of max. one DIN A4 page. On the website www.vdi-wissensforum.de/en/piae you can enroll with your contribution.

Dates

Deadline for abstracts: **September 17, 2021**

Notification of authors: **middle of October 2021**

Submission of manuscripts: **beginning of December 2021**

The abstract must contain:

- The descriptive title of your paper
- Information about the speaker and no more than 2 co-authors (title, first name, last name, position in company, department, address, telephone-number, email)
- An indication of contents covering the main points of your paper
- A statement as to the degree of innovation
- Classification by focus topic
- Disclosure of own prior publications on the topic

Focus topics

We ask for presentations to be submitted from the following topic areas:

1. CO₂-neutral use of plastics

- 1.1. Process chain, manufacturing, end of life
- 1.2. Cost reduction
- 1.3. Pollutants Ordinance
- 1.4. Current regulations
- 1.5. Recycling: chemical and mechanical
- 1.6. Use of and requirement for recyclates
- 1.7. CO₂-footprint and calculation basis
- 1.8. Circular economy and recyclable material flows

2. Use of plastic in vehicles with an electrified powertrain

- 2.1. Materials for EMC
- 2.2. Electrically conductive plasticse
- 2.3. Thermally conductive plastics

3. Transparent plastics

- 3.1. Glazing
- 3.2. Headlights and lighting/concepts
- 3.3. Sensor transparency

4. Interior

- 4.1. Printed electronics
- 4.2. Functional integration
- 4.3. Requirements for shared mobility
- 4.4. Plastics for infotainment
- 4.5. Seats and concepts

5. Exterior and structural components

- 5.1. Use of sensors
- 5.2. Outer skin
- 5.3. Body
- 5.4. Chassis

6. Additive manufacturing

- 6.1. Individualization in series-production use
- 6.2. Fiber-reinforced materials
- 6.3. Testing and quality assurance
- 6.4. "Design and construction for additive manufacturing processes"
- 6.5. Raw materials cycle

7. Prototype-free development

- 7.1. CAE methods
- 7.2. Preparation of material cards (key data: measurement, acquisition, evaluation, use)
- 7.3. Simulation

8. Lightweight construction

- 8.1. Interior and exterior components
- 8.2. Powertrain
- 8.3. New materials and lightweight construction
- 8.4. Use of natural fibers
- 8.5. Foams and cores

9. Production processes

- 9.1. Combined technologies
- 9.2. New processes in series production
- 9.3. Future processes
- 9.4. Digitalization and the 'digital twin'
- 9.5. Examples of the smart factory

10. Quality assurance

- 10.1. Color-matching
- 10.2. Scratch resistance
- 10.3. New test methods
- 10.4. New trials
- 10.5. "New requirements due to new mobility concepts"
- 10.6. Emissions and odor

Exhibition & sponsorship

Before, during and after the event we offer you a wide range of opportunities for 'flying the flag' around the congress and getting into conversation with your potential clients. For information about exhibition opportunities and individual sponsorship possibilities, please contact:



Martina Slominski

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You need help?
Please contact us!

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✓ Please register for (Price per Person plus VAT):

PIAE 2022 March 30 – 31, 2022, Mannheim (01TA701022)		
<input type="checkbox"/> Early Bird until September 30, 2021	<input type="checkbox"/> Early Bird until November 30, 2021	<input type="checkbox"/> Regular participation fee
EUR 1.220,-	EUR 1.320,-	EUR 1.420,-

www

- I will be attending the **PIAE Afterparty** on March 30, 2022 without extra cost
- I am interested in **exhibition and sponsorship opportunities**

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Venues: Congress Center Rosengarten, Rosengartenplatz 2, 68161 Mannheim, www.mcon-mannheim.de
PIAE Afterparty: Festhalle Baumhain (in the Luisenpark), Gartenschauweg 12, 68165 Mannheim
Room booking: A limited number of rooms are available to you at the Dorint Kongresshotel in Mannheim (Phone: +49 (0) 621/1251-0, Email: info.mannheim@dorint.com) under the keyword "VDI 2022". Please book your room early.

More Hotels close to the congress venue may be found via our HRS service
www.vdi-wissensforum.de/hrs



Services: The scope of services includes digital event documentation, break refreshments, lunch and the evening event on the first day of congress. The event documentation is available online. Access data will be delivered electronically to participants prior to the event. You can find further information in our general terms and conditions.

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