

Call for Papers

International Congress

PIAE 2023

Submit your paper now!

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**

Be a speaker!

Submissions deadline:
November 30, 2022

+ **Exhibition**

+ **Auto show**

Congress Chairman

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

With kind support of:



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

Phone: +49 211 6214-435

Email: schroeder@vdi.de

Congress Chairman

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

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Submit your
paper now!

Call for Papers

Please submit an abstract by **November 30, 2022** 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: **November 30, 2022**

Notification of authors: **middle of January 2023**

Submission of manuscripts: **beginning of April 2023**

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:



Sandra Schreiner

Project Consultant Exhibition & Sponsorship

Phone: +49 (0) 211 6214-188

Email: schreiner@vdi.de

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You need help?
Please contact us!

VDI Wissensforum GmbH

P.O. Box 10 11 39
40002 Düsseldorf, Germany
Phone: +49 211 6214-201
Fax: +49 211 6214-154
Email: wissensforum@vdi.de

www.vdi-wissensforum.de/en/piae



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PIAE 2023 June 21 – 22, 2023, Mannheim (01TA701023)
<input type="checkbox"/> Regular participation fee
EUR 1.490,-

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Congress Venue & Venue of the PIAE Afterparty:
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Please book your accommodation early.

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