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

With kind support of:

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
Phone: +49 211 6214-435
Email: schroeder@vdi.de

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

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www.vdi-wissensforum.de/en/piae
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
Team Leader Exhibition & Sponsorship
Phone: +49 (0) 211 6214-385
Email: slominski@vdi.de
Please register for (Price per Person plus VAT):

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<th>Early Bird until September 30, 2021</th>
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☐ 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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