



International Conference
on the Transformation Process in Fluid
and Energy Systems in Cars and Trucks

tank.tech

May 7 – 8, 2024
Fürstenfeldbruck near Munich, Germany

Call
for Papers



About the Conference

Under the headline **“tank.tech in transition”**, the next conference in May 2024 will discuss the transformation process in the field of fluid and energy systems.

How will the technologies, materials and manufacturing processes for fuel tanks be used and further developed in the future? How are the supplier and manufacturer industries adapting to the new situation?

A new conference concept plans a joint presentation block as well as topic-specific parallel sessions. This is intended to take account of the variety of new topics without losing focus on the common aspects. The accompanying trade exhibition will be another connecting element.

We will focus on the following areas:

Classic tank.tech areas

- Tank systems for e- and biofuels as well as fossil fuels for applications in internal combustion engines and in hybrid vehicles; SCR systems
- Tank systems for hydrogen (gaseous and liquid)

New tank.tech areas

- Battery enclosures / energy storage cases for electrified vehicles and their thermal management systems (without battery cell)
- Active cleaning systems (camera and sensor cleaning systems e.g. for autonomous driving)

Areas

1. Tank systems for e-fuels and biofuels as well as fossil fuels for applications in combustion engines and hybrid vehicles; SCR systems
2. Tank systems for hydrogen (gaseous and liquid)
3. Battery enclosures / energy storage enclosures for electrified vehicles and their thermal management systems (without battery cell)
4. Active cleaning systems (camera and sensor cleaning systems e.g. for autonomous driving)

Exhibition

Interested companies have the opportunity to present their products and services at the exhibition which will be held in parallel with the conference.

For more details about costs and availability, please contact Susanne Zecher (susanne.zecher@tuvsud.com, Phone +49 5791 2414).

Topics

Future Trends in the Automotive Industry and Expectations

- Political framework conditions and mobility trends
- Legal and normative framework worldwide; regulations and standards
- Requirements of the markets
- Sustainability of materials, products and processes
- Life cycle assessment (LCA), recycling management
- Availability of materials in the supply chain
- Digitalization of products, processes and logistics

Integration and Product Solutions

- Modular integration of energy storage systems / cleaning systems / thermal management systems
- Energy storage concepts for passenger cars and commercial vehicle applications
- Innovative system concepts (e.g. cleaning without water; hydrogen storage in the battery assembly area)
- Interfaces to the charging infrastructure (incl. hydrogen), charging interface
- New filling options for cleaning products

Architecture and Functionalities of Mechatronic Components

- Sensors and actuators
- Pumps
- Heating systems
- Valves
- Filters
- Control and diagnostic systems
- etc. ...

Development and Manufacturing Methods, Processing and Application Examples, Testing

- Development methodology from simulation to testing
- Digitalization of manufacturing
- Materials
- Challenges in the supply chain
- Prototyping (e.g. additive manufacturing)

Infrastructure for Storage and Distribution

- Global trends and local availability
- Refuelling and charging facilities
- Thermal management for fast charging

The Conferences is intended for

- OEMs and supplier industries
- Component manufacturers and developers
- Consulting and engineering companies
- Mineral oil industry
- Universities and research institutes
- Authorities and associations

Call for Papers

If you are interested in giving a presentation on the key topics, please submit an abstract **by October 25, 2023** to:

TÜV SÜD Akademie GmbH

Ute Alius, ute.alius@tuvsud.com

Submission guidelines can be found on the conference website:

www.tuvsud.com/akademie/tanktech

Deadlines

- Abstracts submission deadline: **October 25, 2023**
- Notification of authors: by the **end of November 2023**
- The final conference program will be published in **January 2024**

Conference languages

The conference languages are German and English. A simultaneous translation into English will be provided for presentations given in German.

Program Committee

Masaki Akagi, FTS CO. ,LTD (JP)

Dirk Eulitz, Kautex Textron GmbH & Co. KG (DE)

Dr. Klaas Kunze, BMW Group (DE)

Joël Op de Beeck, Plastic Omnium (BE)

Martin Stickel, TI Fluid Systems (DE)

Timo Wiedel, Mercedes-Benz AG (DE)

Chair:

Walter Geier, TÜV SÜD Product Service GmbH (DE)

Conference Fee

€ 1.090,00 plus VAT (if applicable)

The conference registration fee includes digital conference documentation, lunch, snacks and beverages during breaks as well as the evening event.

Conference Venue



Veranstaltungsforum Fürstenfeld

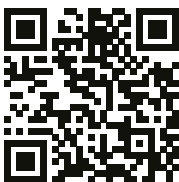
Fürstenfeld 12

82256 Fürstenfeldbruck (Munich), Germany

Registration & Information

Scan QR code or visit

www.tuvsud.com/akademie/tanktech



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In cooperation with

TÜV SÜD Product Service GmbH