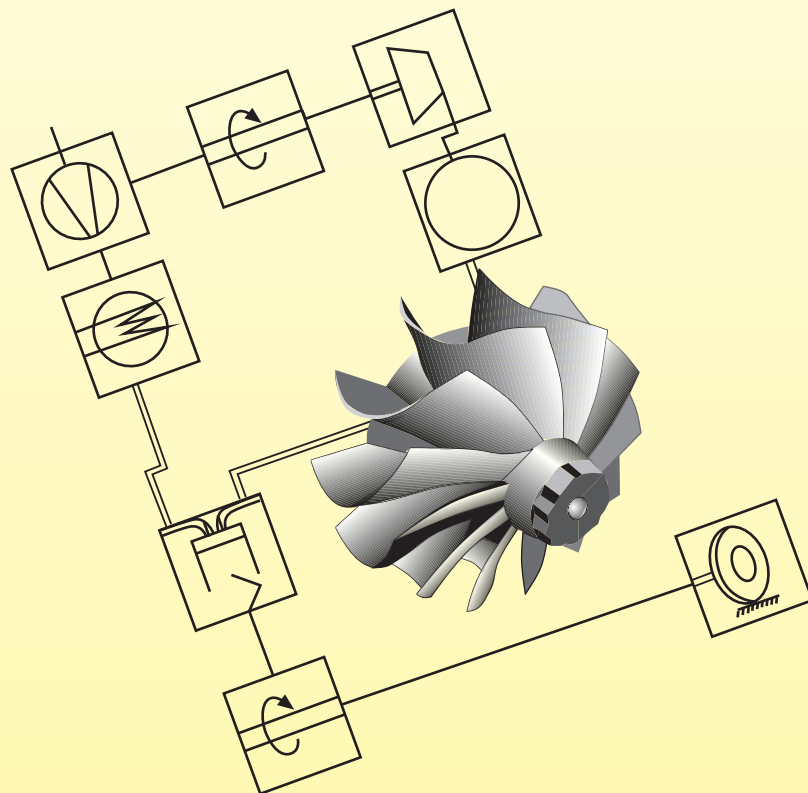


# INFORMATION FOR EXHIBITORS

## 27<sup>th</sup> SUPERCHARGING CONFERENCE

26<sup>th</sup> / 27<sup>th</sup> SEPTEMBER 2023 IN DRESDEN



# FOCUS OF THE CONFERENCE

The 27<sup>th</sup> SUPERCHARGING CONFERENCE on September 26<sup>th</sup> / 27<sup>th</sup>, 2022 in Dresden provides a forum to experts from all over the world. The latest developments in supercharger techniques will be presented by OEMs and suppliers. The conference will be held in German and English supported by simultaneous translation. The conference will be held as a hybrid event: interested parties can participate in the face-to-face event or virtually via live stream.

The aim of the supercharging is the increase of the brake mean effective pressure. The engine power increase had to prove a significant reduction of the specific fuel consumption. In order to improve the delayed boost pressure while the high load demand increases, new solutions have been developed. Especially with regard to vehicle engines, nowadays downsizing (less cylinder, lower total displacement) makes a high demand on the dynamic behavior. Solutions are: smaller exhaust gas turbochargers, the variable turbine geometry or sequential turbocharging as well as multi-stage charging. In addition to these thermodynamic systems, other sources of energy have been used in order to make boost pressure temporarily available: kinetic energy with the help of a mechanical charge or electrical energy with the help of an additional electric charge. The exhaust gas recirculation provides an important contribution to reduce the NO<sub>x</sub>-emission. In addition to the recirculated exhaust gas the engine needs to be supplied with enough fresh air. Thus, a significant increase of the boost pressure is required. Studies on Real Driving Emission (RDE) show that high dynamic load demands increase the NO<sub>x</sub> and particle emission, supercharging can reduce them.

New requirements are posed by hydrogen engines with increased boost pressure demand in lean-burn operation, as well as by the fuel cell.

The optimization of the supercharging for internal combustion engines requires a precise knowledge of the whole system behavior. Simulation models help to predict the operational behavior very well. The 3D calculation is an important tool for the optimization of air and exhaust path. Nowadays the control of these systems is also done by real-time models. At the high dynamic engine test bench the whole system is tested and the model-based control is optimized by additional structures.

The 27<sup>th</sup> SUPERCHARGING CONFERENCE on September 26<sup>th</sup> / 27<sup>th</sup> 2022 in Dresden focuses on recent results and development methods. Speakers will be engine developing engineers, manufacturers of supercharging systems and of other important components. The engines that will be discussed at the conference offer a wide range, from car engines up to the slow-speed two-stroke marine engine.

This conference offers an excellent exchange of knowledge and experience for everyone working on the development of supercharged powertrains.

# MAIN SUBJECTS & ORGANIZATION

## MAIN FOCUS SUBJECTS

- New supercharged diesel-, gasoline- and gas engines
- **New: Hydrogen engines**
- **New: Methanol and Ammonia engine**
- Innovative (electric) supercharging conceptions and components
- **New: Charging systems for fuel cells**
- Numerical simulation methods
- Charging to reduce exhaust emissions
- Complete system performance; control strategies
- Development methods and tools for components and for complete engines

## EXHIBITION

An associated exhibition runs alongside the conference, where interested companies will have the opportunity to present their products, processes and services on the topic and to explain them through personal consultation. More information can be provided by us.

## CONFERENCE CHAIRMAN / EXHIBITION

Prof. Dr.-Ing. H. Zellbeck  
Technische Universität Dresden

Phone: +49 351 31 46 651  
Fax: +49 351 31 46 650  
Homepage: <https://www.aufladetechnische-konferenz.de>

## CONFERENCE LOCATION:

**Hilton Dresden**  
An der Frauenkirche 5, 01067 Dresden, Germany

## HOTEL RESERVATION:

Please check the conference website for information on reserved rooms, which are now available at the conference hotel under the keyword »ATK 2023«.

## CALL FOR PAPER

You are welcome to submit a paper on the above topics **by March 7, 2023**. You will find additional information on the conference website: <https://www.aufladetechnische-konferenz.de>.

# OFFERS FOR EXHIBITORS AND SPONSORS

## ASSOCIATED EXHIBITION

Interested companies are welcome to present their products, methods and other related services in an as-associated exhibition, which runs alongside the conference.

Place of exhibition : **Hilton Dresden**

An der Frauenkirche 5, 01067 Dresden, Germany

Foyer next to the conference room

The coffee breaks will take place in the exhibition area.

Time for set-up  
/ dismantling

Set-up can take place from 4pm on 25 September 2023.

Dismantling is possible on 27 September 2023 after the last session.

Detailed information on delivery, assembly and dismantling will be provided.

**Exhibition price: € 430,- per m<sup>2</sup> exhibition space**

**Minimum of space: 6 m<sup>2</sup>**

Please specify on the registration form what electricity requirements you have and, if necessary, additional requests regarding the furniture. You will receive a separate offer for this.

**Conference fee: 700,- €**

Special fee for one person per exhibitor.

Please indicate the name of the supervisor of the exhibition on the registration form.

The conference fees include: participation in the lecture programme, the evening event and the proceedings.

Additional participants are to be registered at the regular conference fee.

As an exhibitor, we offer you free of charge the **presentation of your company logo** on the conference website as well as the **company profile** in the conference documents.

## SPONSORING

We offer you:

- **Advertisement at the proceedings** 1.500,- €

- **Extra material in the conference bags** 500,- €

All prices are valid plus 19 % VAT.

**All payment transactions are handled by our service partner S-GET, EVENT & SERVICE GmbH.**

# SUPERCARGING CONFERENCE

## 26<sup>th</sup> / 27<sup>th</sup> SEPTEMBER 2023

### REGISTRATION FOR THE EXHIBITION

S-GET  
EVENT & SERVICE GmbH  
Sachsenallee 28  
01723 Kesselsdorf, Germany

KONTAKT  
Telefon: +49 35204-793030  
Telefax: +49 35204-793029  
E-Mail: service@s-get.de

Please return the **registration form (this page) by 7<sup>th</sup> of March, 2023** to S-GET, EVENT & SERVICE GmbH by fax or e-mail, each with VAT, stamp and signature.

Yes, we would like to participate in the exhibition:

We book the following exhibition space: \_\_\_\_\_ m<sup>2</sup> per 430,- € = \_\_\_\_\_ (minimum 6 m<sup>2</sup>)  
Included for you: 1 table, 2 chairs

Additional equipment (chairs / high cocktail chairs / tables / high cocktail tables \* : \_\_\_\_\_

Electrical connection: \_\_\_\_\_

Company/Street/Country,  
Zip-Code, City: \_\_\_\_\_

Name, first name of the person covering the booth, registration fee 700,- €:

\_\_\_\_\_

Mobile phone / E-Mail: \_\_\_\_\_

Company VAT identification number: \_\_\_\_\_

The placing of exhibition will be done by the CONFERENCE CHAIRMAN.  
Special requests and additional equipment will be taken into account as far as possible.

We order:

- Advertisement at the proceedings 1.500,- €  
 - Extra material in the conference bags 500,- €

Cancellation deadlines:

- by 30<sup>th</sup> of April, 2023 free of charge possible
- by 30<sup>th</sup> of June, 2023, 50 % of the total order has to be paid
- after that the full price has to be paid.

All prices are valid plus 19 % VAT.

\* This may result in additional costs.

Place, Date

Signature, Stamp

# We are here for you!

CONFERENCE CHAIRMAN / EXHIBITION

Prof. Dr.-Ing. H. Zellbeck  
Technische Universität Dresden

Phone: +49 351 31 46 651  
Fax: +49 351 31 46 650  
E-Mail: [info@aufladetechnische-konferenz.de](mailto:info@aufladetechnische-konferenz.de)

