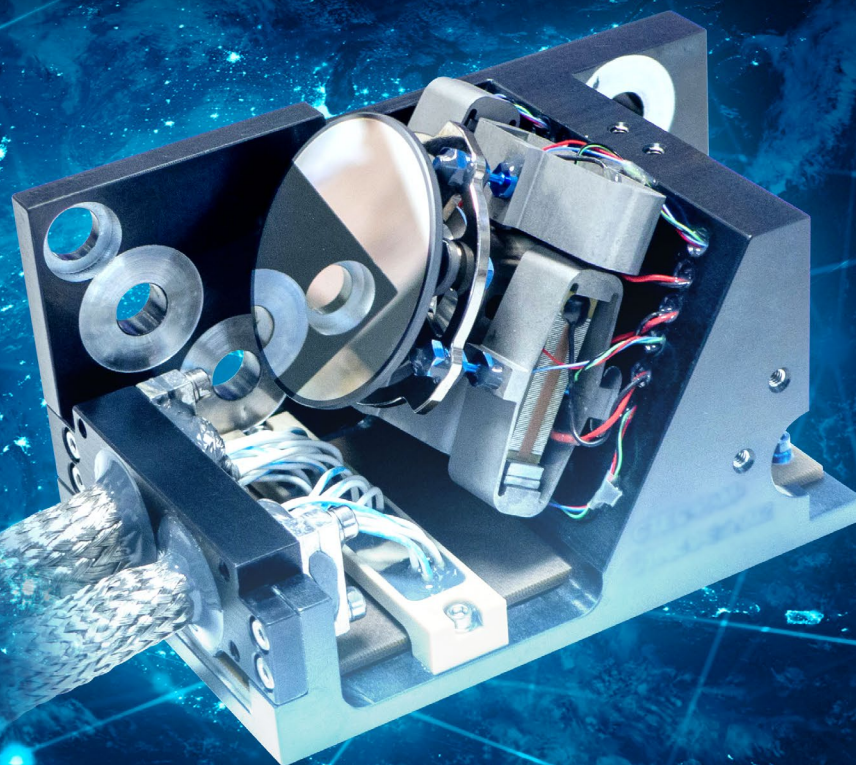


Call for Papers and Exhibition



# ACTUATOR 26

International Conference and Exhibition on  
New Actuator Systems and Applications

**Kurhaus Wiesbaden**  
**Wiesbaden, Germany**  
**June 29 – July 01, 2026**

[www.actuator.de](http://www.actuator.de)

*Organized by:*

Society of Microelectronics,  
Microsystems and Precision  
Engineering (VDE/VDI GMM)

**VDE** **VDI**<sup>↑</sup> **GMM**

## Announcement

**ACTUATOR 2026, the 20<sup>th</sup> International Conference on New Actuator Systems and Applications**, will take place in Wiesbaden, Germany, on June 29 – July 01, 2026.

ACTUATOR is a major biennial event bringing together leading experts, suppliers and users in the field of new actuators and low-power electromagnetic drives from all over the world. The invitation to attend ACTUATOR is aimed at executives and researchers from industrial companies as well as institutes, colleges and universities who are interested in the transfer of R&D results into innovative actuator applications and drive technologies.

## The Conference

With about 200 participants from more than 20 countries, the **20<sup>th</sup> International Conference on New Actuator Systems and Applications** has been the most important place to meet leading international specialists, to share their expertise and to start business co-operations in the field of new actuator technologies.

ACTUATOR has been the key forum for actuators based on smart materials and micro technologies as well as their applications in all areas of engineering for thirty years now. Over the years, a huge variety of excellent ideas and results have been reported. A lot of them have been raised from vision to mass product. Among the success stories you will find quite a number of established applications of new actuators, in particular their well-known use in fuel injection, adaptive shock absorbers, nanopositioning, precision engineering like camera lenses and other applications of miniaturized drives.

In this way, ACTUATOR has launched the realization of new product generations with outstanding compactness and high performance properties which so far have not been achieved in conventional technologies. A tremendous success story, culminating in the conquest of new markets!

## Event Language

The official conference language is English; there will be no simultaneous translation.

## Conference Focus

### Technological Topics

- Electromagnetic actuators
- Piezoelectric actuators / piezoelectric motors
- Thermal / magnetic shape memory actuators
- Magnetostrictive actuators
- Magnetolectric actuators
- Micro / nano actuators
- Actuators based on ER / MR fluids
- Polymer actuators
- Electroactive polymer devices
- Cooperative / multistable actuators
- Emerging principles / tensegrity / robogami
- Actuator control and electronics
- Pneumatics / hydraulics
- Photonic actuators
- Bio actuators
- AI-based actuator design

## Application-oriented Topics

- Active vibration / active noise control
- Aerospace / aviation
- Automation
- Robotics / micro robotics / soft robotics
- Automotive
- Haptic / tactile devices
- Medical devices / medical engineering
- Microfluidic handling
- Micro / nano manipulation and positioning
- Microscopy / scanning probe microscopy
- Information technology
- Manufacturing / micro assembly
- Process engineering
- Biotechnology
- Optics / laser
- Precision engineering
- AI-supported actuator applications

## Call for Papers

Experts from industry and research institutes wishing to present results of their recent research are cordially invited to submit a paper. Accepted papers will be presented in either oral or poster sessions. Authors are requested to specify the preferred kind of presentation, oral (20 min. incl. discussion) or poster.

Please submit a PDF formatted abstract in English with a length of two pages (400 – 600 words) including figures, tables & references showing summary, motivation, approach and results. The paper should be headed by title, authors' names and affiliations.

Please register your paper at [www.actuator.de](http://www.actuator.de).

Abstracts not clearly indicating results will not be accepted.

## Paper Review

The Technical Program Committee will review the abstracts and decide upon the acceptance. After acceptance, the authors are asked to submit the final paper with a length of 2 pages, up to 6 pages for publication.

The proceedings will be published by VDE Verlag GmbH; all presented papers will in addition be available on IEEE Xplore®. By submitting your full paper, we assume that you have accepted the copyright-statement: [www.vde.com/typing-instructions](http://www.vde.com/typing-instructions)

## The Exhibition

The **Exhibition** will present components, system approaches and applications of smart actuators and low-power electromagnetic drives based on conventional (electromagnetic) and innovative working principles (new actuators), and associated subjects.

The range of topics also includes measurement techniques, control concepts and circuits, driver components and units, system integration, layout and simulation tools etc.

Within the exhibition area, we will have application-oriented presentations on a product level, besides the in-depth conference programme. This Exhibition Forum provides additional information about the exhibition topics on the product level especially to visitors of the exhibition. Exhibition conditions and more detailed information on the Exhibition Forum may be obtained from the organizer or can be downloaded from the event homepage [www.actuator.de](http://www.actuator.de).

## Committee Members

We appreciate the support of the following experts:

### Conference Chair

**Kohl, Manfred** | Karlsruher Institut für Technologie, Germany

### Steering Committee Members

**Maas, Jürgen** | Technische Universität Berlin, Germany

**Panè i Vidal, Salvador** | Swiss Federal Institute of Technology (ETH) Zurich, Switzerland

**Vander Poorten, Emmanuel** | Katholieke Universiteit Leuven, Heverlee, Belgium

**Wallrabe, Ulrike** | University of Freiburg, Department of Microsystems Engineering – IMTEK, Germany

**Yamanishi, Yoko** | Kyushu University, Japan

### Program Committee Members

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**Kanda, Takefumi** | Okayama University, Japan

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**Manfredi, Luigi** | University of Dundee, Great Britain

**Mariénfeld, Peter** | Contitech Vibration Control GmbH, Hannover, Germany

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**Milana, Edoardo** | University of Freiburg, Department of Microsystems Engineering (IMTEK)

**Monner, Hans Peter** | German Aerospace Center (DLR), Braunschweig, Germany

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**Morita, Takeshi** | The University of Tokyo, Japan

**Müller, Bert** | University of Basel, Switzerland

**Nienhaus, Matthias** | Universität des Saarlandes, Saarbrücken, Germany

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**Price, Aaron** | The University of Western Ontario, Canada

**Renaud, Pierre** | Institut National des Sciences Appliquées Strasbourg INSA, Strasbourg, France

**Schubert, Franz** | PI Ceramic GmbH, Lederhose, Germany

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**Spomer, Waldemar** | Physik Instrumente (PI) GmbH & Co. KG, Karlsruhe, Germany

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**Uchino, Kenji** | The Pennsylvania State University, USA

**Ugurlu, Barkan** | Ozyegin University, Çekmeköy - Istanbul, Turkey

**Vander Poorten, Emmanuel** | Katholieke Universiteit Leuven, Heverlee, Belgium

**Vergani, Giorgio** | SAES Getters S.p.A., Lainate, Italy

**Vorrath, Markus** | Technische Universität Dresden, Germany

**Wallrabe, Ulrike** | University of Freiburg, Department of Microsystems Engineering – IMTEK, Germany

**Wapler, Matthias** | Otto-von-Guericke University Magdeburg, Germany

## Important Dates

07 November 2025 . . submission of abstracts

09 December 2025 . . notification of acceptance

08 May 2026 . . . . . submission of papers

## Organizer

VDE/VDI Society Microelectronics, Microsystems and Precision Engineering  
Merianstraße 28, 63069 Offenbach am Main, Germany  
[www.vde.com/gmm](http://www.vde.com/gmm)  
gmm@vde.com

## Conference Fee

Registration until 27 May 2026	950 €
Registration from 27 May 2026	1040 €
Speakers	630 €
Students	150 €
One day pass	450 €

No additional VAT will be charged.

## Conference Venue

### Kurhaus Wiesbaden

Kurhausplatz 1  
65189 Wiesbaden, Germany  
Phone: +49 611 1729 100

## Contact

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