

## Committee

- ▶ **W. Amrhein**, Johannes Kepler Universität Linz, Austria
- ▶ **J.-M. Breguet**, CSEM SA, Neuchâtel, Switzerland
- ▶ **F. Butera**, SAES Getters S.P.A., Lainate, Italy
- ▶ **J. D. Carlson**, Lord Corporation, Cary, NC, USA
- ▶ **F. Carpi**, University of Pisa, Italy
- ▶ **F. Claeysen**, Cedrat Technologies S.A., Meylan, France
- ▶ **A. Codourey**, Asyrl SA, Villaz-St-Pierre, Switzerland
- ▶ **T. Geßner**, Fraunhofer-ENAS, Chemnitz, Germany
- ▶ **P. Jänker**, EADS Innovation Work, Munich, Germany
- ▶ **H.-J. Karkosch**, Contitech Vibration Control GmbH, Hanover, Germany
- ▶ **H. E. Kiil**, Danfoss PolyPower A/S, Nordborg, Denmark
- ▶ **G. Kullik.**, Drägerwerk AG & Co. KGaA, Lübeck, Germany
- ▶ **T. Lüth**, Technische Universität München, Germany
- ▶ **S. Miyazaki**, University of Tsukuba, Japan
- ▶ **M. Nienhaus**, Mymotors & Actuators GmbH, Wendelsheim, Germany
- ▶ **A. Preumont**, Université Libre de Bruxelles, Belgium
- ▶ **E. Quandt**, Christian-Albrechts-Universität, Kiel, Germany
- ▶ **H. Schmidt**, Eugen Seitz AG, Wetzikon, Switzerland
- ▶ **C. Schuh**, Siemens AG, München, Germany
- ▶ **P. Sheng**, The Hong Kong University of Science, Hong Kong
- ▶ **K. Spanner**, Physik Instrumente (PI) GmbH & Co. KG, Karlsruhe, Germany
- ▶ **S. Thalhammer**, GSF Forschungszentrum für Umwelt und Gesundheit, Neuherberg, Germany
- ▶ **K. Uchino**, The Pennsylvania State University, PA, USA
- ▶ **R. Zengerle**, Albert-Ludwigs-Universität, Freiburg, Germany

## Conference Fee

- For registration until 31 March 2010** EUR 650 plus 19% VAT
- For registration from 1 April 2010** EUR 750 plus 19% VAT
- One-day ticket** EUR 375 plus 19% VAT
- Reduced fee for students and one author of a paper or poster** EUR 375 plus 19% VAT

The conference fee includes lunches, coffee breaks, entrance to exhibition, welcome reception, and conference proceedings on CD-ROM.

A **printed version of the proceedings** may be **separately ordered** by conference delegates at a subscription price of EUR 40 plus 7% VAT. This offer is only valid if order is received **together with a conference registration** by 30 April 2009. Afterwards, it is only guaranteed as long as stocks last. There will be different conditions for non-participants.

## Call for Papers

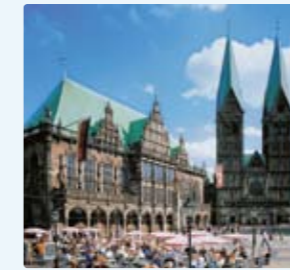
We invite contributions to the **12th International Conference on New Actuators** from engineers, scientists and other experts from institutes and companies working in the field of new actuators, low-power electromagnetic drives and their applications. For oral presentation (20 mins incl. discussion), preference will be given to contributions expressing a comprehensive view of the chosen subject. Please note that detailed theoretical contributions and papers of a very specialised nature are more suitable for the poster exhibition.

The **conference contributions** will be compiled after the evaluation of the abstracts received in response to this Call for Papers. For this purpose, we expect high-quality abstracts of 400 to 600 words in English language, clearly describing the suggested content. They must quote the caption, the name(s) of author(s) and institution(s). The name of the author appointed for presentation should be underlined and the preferred kind of presentation (oral or poster) should be specified on the abstract. Abstracts not rateable will be rejected. Additionally, we would like to publish a short abstract (10 lines/ 500 characters) of each contribution on our event homepage. Both abstracts need to be received by the organiser by e-mail (preferably as PDF-file) not later than **30 November 2009**. All abstracts will be submitted for review to the members of the committee, who will then decide on the acceptance as well as on the assignment to topics and sessions.

Authors appointed for presentation will be informed by 31 January 2010 as to whether their paper has been accepted for oral presentation or poster session. They will receive detailed instructions on suitable data formats and the layout of text and pictures for the final version of their manuscript. The final scripts have to be submitted to the organiser by 31 March 2010.

Proceedings of the conference containing the manuscripts of oral presentations as well as the poster contributions will be issued in English. A CD-ROM Version will be distributed to the conference participants at the check-in desk of the conference. A printed version is also available.

Exhibitors and other parties interested in contributing to the **Exhibition Forum** are asked to send a short English abstract of about 200 words by **15 January 2010** marked with the keyword "Exhibition Forum". These contributions should be related to the exhibition topics and will not be published in the conference proceedings. Non-exhibitors will be charged a separate fee of EUR 60 (plus VAT).



## Conference/Exhibition Site

The BREMEN CONVENTION CENTER offers up to 40,000 m<sup>2</sup> of exhibition space with integrated first-class congress facilities, just a three minutes' walk away from the main railway station. The centre meets the highest demands, providing ideal conditions for innovative and eventful fairs and congresses. The Bürgerpark and the Old Town are within view, inviting you to go for a relaxing walk in between. A visit to the historical market square and a tour through the picturesque alleys of the Schnoor district are just two examples of the varied cultural attractions Bremen has to offer.

## Further Information

A detailed brochure including the conference programme, the related programme will be mailed in March 2010. To order this brochure or the detailed conditions of exhibition, please fill in the preregistration form on our homepage [www.actuator.de](http://www.actuator.de).

## Organiser



Wirtschaftsförderung Bremen GmbH  
Division Messe Bremen  
Hubert Borgmann  
Findorffstraße 101 | 28215 Bremen/Germany  
Tel. + 49 (0) 421 35 05-464 | Fax + 49 (0) 421 35 05-340  
[actuator@messe-bremen.de](mailto:actuator@messe-bremen.de) | [www.actuator.de](http://www.actuator.de)



## Correct Address?

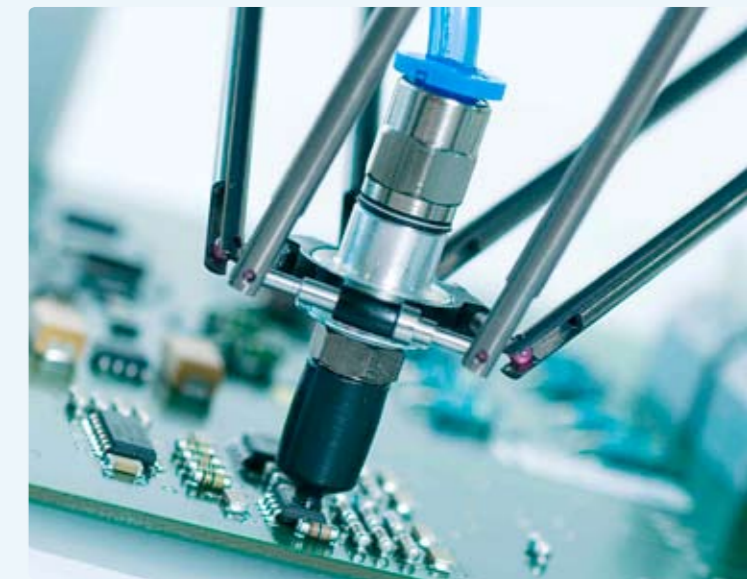
We are steadily improving our mailing list. Please check the address on the envelope. We appreciate your corrections/new entries/cancellations by e-mail to [actuator@messe-bremen.de](mailto:actuator@messe-bremen.de). Thank you for your support!

# ACTUATOR 10

International Conference and Exhibition  
on New Actuators and Drive Systems

**Bremen, Germany**  
**14 – 16 June 2010**

**Announcement,  
Call for Papers and  
Invitation for Exhibitors**



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





## Announcement

**ACTUATOR 2010**, the **12th International Conference on New Actuators** and the **6th International Exhibition on Smart Actuators and Drive Systems**, will take place in Bremen, Germany, on 14–16 June 2010.

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 directed 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

In attracting about 500 participants from more than 30 countries the **12th International Conference on New Actuators** is the most important market 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 promoting actuators based on smart materials and micro technologies as well as their applications in all areas of engineering for more than twenty 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, nan positioning, precision engineering like cameras lenses and other applications of miniaturised drives.

In this way, ACTUATOR has launched the realisation of new product generations whose compactness and performance had not been able in conventional technologies. Small wonder that based on this ignition, new actuators are now rapidly opening up new markets.

## Conference Focus

### Technological Topics

- ▶ Actuators based on ER/MR fluids
- ▶ Low-power electromagnetic actuators
- ▶ Magnetostrictive/magnetic shape memory actuators
- ▶ Micro actuators/nano actuators
- ▶ Piezoelectric actuators
- ▶ Polymer actuators
- ▶ Shape memory actuators
- ▶ Emerging actuation principles

### Application-oriented Topics

- ▶ Actuator control
- ▶ Active vibration control/vibroacoustic control
- ▶ Aerospace applications
- ▶ Automation/robotics
- ▶ Automotive applications
- ▶ Micro manipulation
- ▶ Medical/biomedical applications
- ▶ Micro fluidics
- ▶ Micro robotics/micro handling
- ▶ Nanopositioning
- ▶ Piezomotors

## The Exhibition

The **6th International Exhibition on Smart Actuators and Drive Systems** 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 again 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. Exhibitors and other parties are therefore invited to bring contributions and demonstrations that are aimed at potential clients.



Exhibition conditions and further details on the Exhibition Forum may be obtained from the organiser or can be downloaded from the event homepage ([www.actuator.de](http://www.actuator.de)).

## Exhibition Topics

Components, system approaches and applications of smart actuators and low-power electromagnetic drives and related topics dedicated to:

### Applications in

- ▶ Acoustics/ultrasonics
- ▶ Analysis/measuring technique
- ▶ Fine-/precise-/nano-positioning, micro manipulation
- ▶ Fluid handling
- ▶ Micro fluidics
- ▶ Noise and vibration control

### Related to Areas Such as

- ▶ Adaptronics
- ▶ Automation/robotics
- ▶ Computer periphery
- ▶ Manufacturing technique/micro assembly
- ▶ Medicine/biomedicine
- ▶ Motor vehicles/aviation
- ▶ Optics/laser
- ▶ Precision engineering

## Event Language

The official conference language is English; there will be no simultaneous translation. Presentations in the Exhibition Forum may be given in English or German.