



Society of Advancement for Fluid  
Power Technology Inc., Aachen



Fluid Power Section of the German  
Engineering Federation (VDMA), Frankfurt/Main

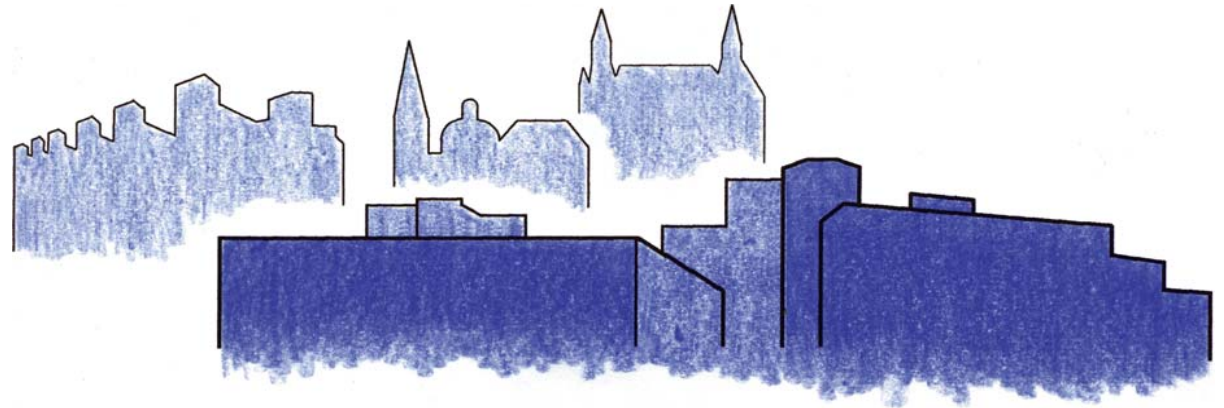
# 5<sup>th</sup> International Fluid Power Conference Aachen, Germany

## "Customer Benefits of Fluid Power"

### Further Information:

[www.ifk2006.de](http://www.ifk2006.de)

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**5<sup>th</sup> International**

**Fluid Power Conference**

**March 20 – 22, 2006**

**Aachen, Eurogress**

## General information

The 5<sup>th</sup> International Fluid Power Conference (IFK) will take place in March 2006 in Aachen, Germany. As one of the world's biggest scientific conferences in the field of fluid power it serves as ideal platform for the international exchange of users, manufacturers and scientists in the domains of hydraulics and pneumatics.

A workshop on the first day provides a basis for fundamentals and interactive demonstrations.

The two following conference days cover a wide variety of application-oriented topics in two parallel sessions at a time.

An excursion during the two remaining days of the week to the companies Bosch Rexroth AG und Hydac International GmbH permits insight into everyday's business life of two international suppliers of fluid power.

## Call for Papers

In case of interest in a contribution to the conference, we invite the submission of **abstracts** in either English or German until **30<sup>th</sup> of May 2005** as **pdf** to the following e-mail address:

[papers@ifk2006.de](mailto:papers@ifk2006.de)

The following information should be submitted together with the abstract:

- Preliminary title of the contribution, if possible with assignment to a conference topic
- Name, address, e-mail, phone and fax as well as the employer of the author

Please bear in mind the following indications:

- The technical innovation must be clearly outlined in the abstract.
- The length of the abstract should not exceed two A4 format pages.
- The papers for the proceedings have to be written in English. Presentations can be held in either English or in German with simultaneous interpretation (please indicate presentation language with the abstract). The presentation has to be prepared in English, bilingual slides in English and German are also welcome.

In case of interest in a contribution to the parallel **exhibition** in form of exhibits or posters, the exhibition guidelines can be requested from the overleaf address.

## Conference topics

The conference topics are meant to be guidelines for the areas of interest. Unconventional contributions are expressly welcome!

The programme committee will choose the final conference programme in a formal review of the abstracts handed in. Notice of **acceptance** will be given by **15<sup>th</sup> of August 2005**. The full **paper** for the proceedings in English is to be handed in until **19<sup>th</sup> of December 2005**.

### Pneumatics

- Automation
- System integration
- Innovative components
- Servo pneumatics
- Miniaturisation
- Valve actuation
- Medical applications
- ...

### Innovative industrial hydraulics

- Automation
- Injection moulding machines
- Presses
- Wind energy systems
- Machine tools
- ...

### Materials and fluids

- Sealing technology
- Coating technology
- Alternative or smart materials (ceramics, plastic polymer materials, light metals)
- Pressure transmission (media)
- Maintenance and analysis of fluids
- ...

### Simulation

- New application areas (actuators, hoses, cavitation, structured surfaces, materials, durability)
- Coupling (structure, fluid, system)
- Software (CAx etc.)
- ...

### Energy efficient systems for automotive engineering

- Steering systems
- Injection systems
- Centralised hydraulics
- Chassis frame systems (active, adaptive)
- Noise, vibration and harshness
- ...

### Mobile hydraulics

- New drive train concepts
- Drive train management
- Open-loop and closed-loop control
- Energy management and efficiency
- Reduction of noise and vibration
- ...

### Functional integration

- Condition monitoring
- Functional safety
- Information and signal processing (network, interface, control)
- Fault-tolerant hydraulics
- New sensor and actuator principles
- Analytic redundancy
- Modularisation strategies/modular design
- ...

### Fundamentals & demonstration

- Theoretic considerations
- Development of components (valves, displacement units etc.)
- Real-time simulation
- Interactive contributions
- ...

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