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# HERVEX 2017 23<sup>RD</sup> INTERNATIONAL CONFERENCE on Hydraulics, Pneumatics, Sealing Elements, Fine Mechanics, Tools, Specific Electronic Equipment & Mechatronics



Conference Organizers

Hydraulics and Pneumatics Research Institute INOE 2000-IHP, Bucharest, Romania  
Chamber of Commerce and Industry Valcea -CCIVL, Romania



Hydraulics  
Pneumatics



*November 8-10, 2017 | Baile Govora, Romania*

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HERVEX 2017



**23RD INTERNATIONAL CONFERENCE on  
Hydraulics, Pneumatics,  
Sealing Elements, Fine Mechanics,  
Tools, Specific Electronic Equipment  
& Mechatronics**



## MAIN CONFERENCE TOPICS

\*they are not restrictive

### FLUID POWER SYSTEMS IN INDUSTRIAL AND MOBILE HYDRAULICS

- New solutions for working hydraulics systems
- Variable-speed drives
- Energy saving, energy recovery and storage
- Hybrid drive solutions
- Reduction of emission, noise and vibrations
- Application of innovative control concepts
- Simple user interfaces and computer aided commissioning
- Maintenance

### PNEUMATICS

- Pneumatic Drives
- New Drive Concepts
- Efficient System Design
- Vacuum Technology
- Miniature Pneumatics
- Low-Emission Pneumatics
- Pneumatic systems and their applications
- Pneumatic components and their innovation

### FUNDAMENTALS, ADVANCED MATERIALS AND TRIBOLOGY

- Effect of Environmentally Friendly Fluids on Efficiency
- Oil Maintenance and Mixture Problems
- Plastics in Hydraulics
- Lubrication and Lubricants
- Green Tribology
- Contact mechanics of rough surfaces (including adhesion)
- Friction between rigid rough surfaces and elastomers
- Method of Reduction of Dimensionality in contact mechanics and friction
- Wear and surface technology
- Nanotechnology, Nanomaterials and Nanoelectronics
- Nano and Micro Tribology

### HYDRAULIC COMPONENTS

- Valves
- High Speed Rotary Drives
- High Pressure Hydraulics
- Actuators
- Filter Technology
- Noise Reduction in Hydraulic Equipment
- Development in hydraulic parts: pumps, valves

### ELECTRONICS, MECHATRONICS AND NEW IDEAS IN FLUID POWER

- Electronics in Fluid Power systems
- Mechatronics
- Application of artificial intelligence in fluid power systems
- Sensors, actuators and Microsystems
- Digital Hydraulics
- Servo hydraulics and pneumatics
- Simulation and Validation

### ENVIRONMENT AND RENEWABLE ENERGY

- Renewable Energy Sources and Clean Technologies
- Solar, Wind, Geothermal, Biomass energy
- Wave Energy Converter
- Wind Energy Plants
- Monitoring of high pollution areas and waste recycling
- Fluid Power in production of renewable energy
- De-pollution of wastewater
- Irrigation and drainage
- Energy Storage

### EDUCATION AND TRAINING IN FLUID POWER

- University and professional education in Fluid Power systems branch
- Industrial training in Fluid Power and Lubrication systems

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## INVITATION TO ATTEND

**The 23rd International Conference on Hydraulics and Pneumatics HERVEX 2017** will be held in **Baile Govora**, Valcea County, Romania, on **November 8-10, 2017**.

It is the most significant international scientific reunion in the field of Fluid Power in Romania and offers a common platform for presentation and discussion of innovation trends in FLUID POWER, to manufacturers, dealers, users and scientists.

Valcea Chamber of Commerce and Industry and Hydraulics & Pneumatics Research Institute in Bucharest organize this event since 1993.

Scientific lectures and novelties presented in the framework of this event regarding equipment and integrated systems will represent a basis for a new impulse towards development and innovation in Fluid Power, activity field which provides high productivity means for better energy efficiency of industrial and mobile equipment.

*It is a great pleasure and honour for us to invite you to take part in HERVEX-2017.*

*We would appreciate your contribution with interesting papers and an active position in debates.*

HERVEX-2017 team is looking forward to your participation and to welcome you at Baile Govora in November!



## IMPORTANT DUE DATES

- SEPTEMBER 1** – **Deadline for ABSTRACT SUBMISSION**
  - Start of abstract review process
- SEPTEMBER 8** – **Notification of abstract acceptance**
- OCTOBER 6** – **Deadline for FULL-LENGTH PAPER SUBMISSION**
- OCTOBER 16** – **Notification of paper acceptance**

## PARTICIPANT REGISTRATION

- OCTOBER 20** Submission of **REGISTRATION FORM/ PARTICIPATION CONTRACT** to CCIVL --> e-mail: ccivl@ccivl.ro

under honorary aegis of

European Fluid Power Committee – **CETOP**



with support of

Romanian National Authority for

Scientific Research and Innovation – **ANCSI**

National Professional Association of

Hydraulics and Pneumatics in Romania – **FLUIDAS**

in partnership with



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Technical University of Cluj-Napoca, ROMANIA |  
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Agriculture and Food Industry – INMA Bucharest, ROMANIA |  
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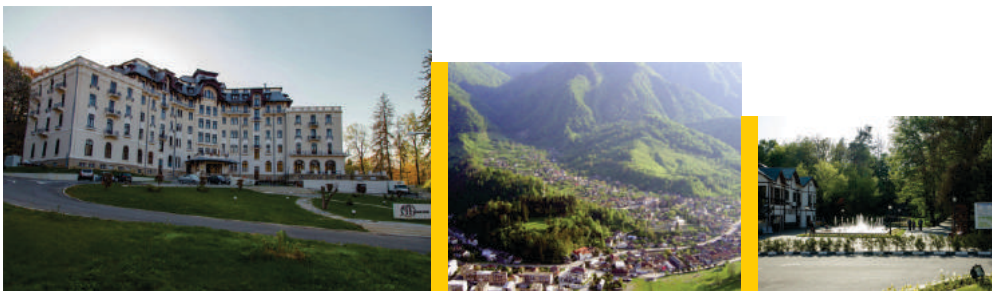
## ADDITIONAL INFORMATION

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**Conference Venue**  
**Palace Hotel\*\*\*\*** – 1 Parcului St.,  
245200, Baile Govora

**Coordinates**  
Lat: 45°4'48"N  
Lon: 24°10'47"E

