

CALL FOR PAPERS

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HERVEX 2020 26TH INTERNATIONAL CONFERENCE on Hydraulics, Pneumatics, Sealing Elements, Precision 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 4-6, 2020 | Calimanesti-Caciulata, Romania

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HERVEX 2020



**26TH INTERNATIONAL CONFERENCE on
Hydraulics, Pneumatics,
Sealing Elements, Precision Mechanics,
Tools, Specific Electronic Equipment
& Mechatronics**



MAIN CONFERENCE TOPICS

*they are not restrictive



FLUID POWER SYSTEMS IN INDUSTRIAL AND MOBILE HYDRAULICS

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

HYDRAULIC COMPONENTS

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

MODERN TRENDS IN FLUID POWER DEVELOPMENT

- n CIRCULAR ECONOMY
- n INDUSTRY 4.0

PNEUMATICS

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

ELECTRONICS, MECHATRONICS AND NEW IDEAS IN FLUID POWER

- n Electronics in Fluid Power systems
- n Mechatronics
- n Application of artificial intelligence in fluid power systems
- n Sensors, actuators and Microsystems
- n Digital Hydraulics
- n Servo hydraulics and pneumatics
- n Simulation and Validation
- n Digitalization of Hydraulic Systems
- n Modeling & Simulation of Equipment and Systems

FUNDAMENTALS, ADVANCED MATERIALS AND TRIBOLOGY

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

ADDITIVE MANUFACTURING (AM)

- n + SLA (Stereolithography)
- n + FDM (Fused Deposition Modeling) / + FFF (Fused Filament Fabrication)
- n + MJM (Multi-Jet Modeling)
- n +3DP (3D Printing)
- n + SLS (Selective Laser Sintering)

ENVIRONMENT AND RENEWABLE ENERGY

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

EDUCATION AND TRAINING IN FLUID POWER

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

INVITATION TO ATTEND

The 26th International Conference on Hydraulics and Pneumatics HERVEX 2020 will be held in **Calimanesti-Caciulata**, Valcea County, Romania, on **November 4-6, 2020**.

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

Valcea Chamber of Commerce and Industry and Hydraulics & Pneumatics Research Institute in Bucharest have been organizing 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-2020.

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

HERVEX-2020 team is looking forward to your participation and to welcome you at Calimanesti-Caciulata in November!



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IMPORTANT DUE DATES

SEPTEMBER 11 – **Deadline for ABSTRACT SUBMISSION**
– Start of abstract review process

SEPTEMBER 18 – **Notification of abstract acceptance**

OCTOBER 9 – **Deadline for FULL-LENGTH PAPER SUBMISSION**
– Start of paper review process

OCTOBER 16 – **Notification of paper acceptance**

PARTICIPANT REGISTRATION

OCTOBER 16 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 Ministry of Education and Research – MEC**

■ **National Professional Association of Hydraulics and Pneumatics in Romania – FLUIDAS**

in partnership with



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Technical University of Moldova in Chisinau, REPUBLIC OF MOLDOVA |
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Politehnica University of Timisoara, ROMANIA |
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Agriculture and Food Industry – INMA Bucharest, ROMANIA |
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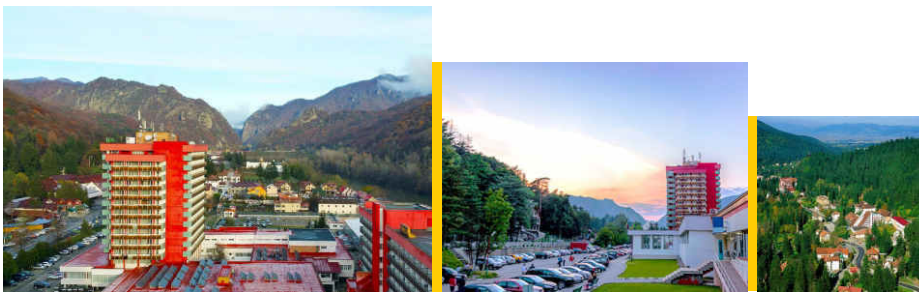
ADDITIONAL INFORMATION

Hydraulics and Pneumatics Research Institute INOE 2000 – IHP in Bucharest

Phone: +4021/3363991, Fax: +4021/3373040,
e-mail: fluidas@fluidas.ro / hervex@fluidas.ro

Chamber of Commerce and Industry in Vâlcea

Phone: +40250/734200, Fax: +40250/732836,
e-mail: ccivl@ccivl.ro



Conference Venue
Cozia-Caciulata-Oltul Hotel Complex,
Calimanesti-Caciulata, Valcea County,
Romania

Coordinates
Lat: 45°15'0"N
Lon: 24°20'0"E

