

HERVEX 2014



Index Conference details Call for Papers Costs/Payments Organizers Committees
Exhibition/Participants Contest Registration Contact Previous editions Links

Reason for Organization of this Scientific Event

- This event is a good opportunity for presenting the results obtained in the field of fluid power after the completion of projects under H2020, Innovation Programmes and from assessing European funds.
- Bringing knowledge about the achievements and the stage of development in the field of the event.
- Integration of research and innovation activities in the framework of the event, as well as assessing the validity of its contribution to the international scientific community.
- Increasing innovation and transfer of knowledge in the field of Fluid Power.
- Bringing innovation and transfer of knowledge in the field of Fluid Power.
- Refining innovation and increasing awareness of the scientific environment regarding the importance of implementing the results of scientific research and technological development.

Venue

HERVEX 2014 takes place in the Hotel Resort Cetatea de Castel, Calimanesti - Train Street, Position: Lat: 45°42'29", Lon: 24°02'05"

Conference proceedings is indexed in:



Index Conference details Call for Papers Costs/Payments Organizers Committees
Exhibition/Participants Contest Registration Contact Previous editions Links

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Reason for Organization of this Scientific Event

- This event is a good opportunity for presenting the results obtained in the field of fluid power after the completion of projects under H2020, Innovation Programmes and from assessing European funds.

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

Objective of the Scientific Event

- Establishing and developing research in pneumatics and hydraulics in GIGS
- Promoting hydraulics, mechatronics, tribology, green energy and technology transfer as leading areas, while addressing various research projects in the light of these concepts
- Identifying projects in the field of the conference together with EU companies.
- Presenting the concern of Research Institutes and Research Center within Technical Institutes in front of various production units in Romania in order to identify topics that can be addressed jointly
- Making contacts and contracts between Romanian professionals in hydraulics and pneumatics and experts of foreign companies and universities, in order to develop international projects
- Getting knowledge about the technical innovations of international companies in the field

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Index Conference details Call for Papers Costs/Payments Organizers Committees
Exhibition/Participants Contest Registration Contact Previous editions Links

Reason for Organization of this Scientific Event

- | | |
|--|----------------|
| Registration fee (compulsory for exhibitors and participants) after the completion of project under H2020, Innovation Programmes and from assessing European funds | 20 euro |
| - attendance to all Conferences sessions | |
| - attendance to exhibition | |
| - welcome drink | |
| - coffee break | |
| - oil processing | |
| Conference Proceedings (hard copy at request) | 25 euro |
| Full board accommodation - Coste Hotel**** | single 70 euro |
| Meals booking | 20 euro/m. |
| Cafe Dinner | 20 euro/person |
| Trip to Ocnele Mari salt mine | 15 euro/person |
| Trip to Valea Monasteries | 20 euro/person |

Please do not include VAT (24% for Romania)

The Bank Transfer Information:

Account holder: Valcea Chamber of Commerce and Industry
Bank accounts are:

a) Currency: LEI
ISAN: RO 19 RNCS 0283 0389 1595 0001

b) Currency: EURO
ISAN: RO 51 RNCS 0283 0389 1595 0007
SWIFT: RNCS RD SU
BIC: RNCS

(Please indicate HERVEX 2014 – as reason for payment)

[Download participation contract](#)



Index Conference details Call for Papers Costs/Payments Organizers Committees
Exhibition/Participants Contest Registration Contact Previous editions Links

Reason for Organization of this Scientific Event

- This event is a good opportunity for presenting to partners users the results obtained by the fluid power system in the field of fluid power after the completion of project under H2020, Innovation Programmes and from assessing European funds.
- Bringing knowledge about the achievements and the stage of development in the field of the event.
- Integration of the Romanian scientific community, as well as the international scientific community, in the framework of the event.
- Increasing the visibility of the activities of the Romanian scientific and technical community in the activities of international scientific community, as well as increasing the validity of its contribution to the international scientific heritage and for an important regional role.
- Encouraging Romanian participation in EU programmes and integration of the Romanian Research Area in the European Research Area.
- Fostering international cooperation and exchange of the scientific environment regarding the importance of implementing the results of scientific research and technological development.

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Index Conference details Call for Papers Costs/Payments Organizers Committees
Exhibition/Participants Contest Registration Contact Previous editions Links

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Reason for Organization of this Scientific Event

- This event is a good opportunity for presenting to partners users the results obtained by the fluid power system in the field of fluid power after the completion of project under H2020, Innovation Programmes and from assessing European funds.

The objective of the conference is to provide an opportunity to exchange high quality recent information and trends on the future development in the field of Fluid Power among participants from design and research in the field of hydraulics and pneumatics.

The conference aims to bring engineers from industry together with researchers and dealers from fluid power activity, in order to present news from research and interesting industrial applications of the fluid power system.

We cordially invite all valuable visitors who collaborate in the field of Fluid Power and are interested in contributing with a paper to the conference, first to forward an abstract and then a full paper to the email address: hervex@ctis.ro, fluid@ctis.ro.

It is a pleasure to indicate the topics you consider that the proposed article fits within.

The main topics of the conference are:

1. **Fluid Power Systems in Industrial and Domestic Hydraulics**
 - New solutions for working hydraulic systems
 - Variable-speed drives
 - Gear pumps, gear pump recovery and storage
 - Hybrid drive solutions
 - Reduction of emissions, noise and vibrations
 - Application of innovative control concepts
 - Design of interfaces and computer aided commissioning

2. Hydraulic Components*

- Valves
- High Speed Rotary Orbits
- High Pressure Hydraulics
- Hydraulic cylinders
- Other Technology
- Noise Reduction of Hydraulic Equipment
- Development in hydraulic elements: pump, valves, valves

3. Pneumatics*

- Pneumatic Drives
- Pneumatic Motors
- Efficient System Design
- Vacuum Technology
- Miniature Pneumatics
- Low-Volume Pneumatics
- Pneumatic components and their applications
- Pneumatic components and their innovation

4. Electronics, Mechatronics and new Ideas in Fluid Power*

- Sensors in Fluid Power systems
- Mechatronics
- Application of artificial intelligence in fluid power systems
- Sensors, actuators and microsystems
- Digital solutions
- Drive hydraulics and pneumatics
- Simulation and Validation

5. Fundamentals, Advanced Materials and Technologies*

- Effect of Environmentally Friendly Fluids on Efficiency
- Oil Maintenance and Future Problems
- Fluids in Hydraulics
- Lubricants and Lubricants
- Green Tribology
- Contact mechanics of rough surfaces (including friction between rigid rough surfaces and elastomers)
- Method of Reduction of Dimensionality in contact mechanics
- Water and surface tribology
- Nanotechnology, Nanomaterials and Nanoceramics
- Hand and Micro Tribology

6. Environment and Fluid Power*

- Decrease of greenhouse gases
- Recycling and drainage
- Monitoring of high pollution areas
- Fluid Power in production of renewable energy
- High pressure recycling and waste recycling
- Wind Energy Converter
- Wind Energy Plants
- Energy Storage

7. Education and Training in Fluid Power*

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

*The conference topics are suggestions for the papers.

Conference languages:

Abstract and papers should be written in English.

Copyright agreement:

Pear Review Process

Important dates for the papers:

In response to the requests from several participants, due to the summer holiday season, the deadline for manuscript submission has been extended.

> October 15, 2014	= Deadline for final paper manuscript submission
	= Start of paper review process
> November 5, 6, 7, 2014	= Presentation of papers in International Conference HERVEX-2014

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Index **Conference details** **Call for Papers** **Costs/Payments** **Organizers** **Committees**
Exhibition/Participants **Contest** **Registration** **Contact** **Previous editions** **Links**

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- This event is a good opportunity for presenting the potential users the results obtained by the R&D units after the completion of projects under H2020, Horizon 2020, and the results of the scientific research in the field of hydraulics and pneumatics.
- Bringing knowledge about the achievements and the stage of development in the field of the event.
- Integration of the Romanian scientific community in the activities of international scientific conferences and for an international recognition of Romanian research.
- Bringing innovation and increasing awareness of the scientific and technical environment regarding the importance of implementing the results of scientific research and technological development.

Venue
HERVEX 2014 takes place in the Hotel Resort Coste from Călărași.
Address: Calea Călărași 245000, 704 Calea Ialoveni, Sector 4, Bucharest, Romania
Lat: 44.914434, Long: 26.051674

Wednesday, November 5

09th-11th EXPOSITION OF PARTICIPANTS CONCLUDING SETTLEMENT OF EXHIBITION

PRELIMINARY PROGRAMME

WEDNESDAY, NOVEMBER 5

04th-11th REGISTRATION OF PARTICIPANTS CONCLUDING SETTLEMENT OF EXHIBITION

11th-12th OFFICIAL OPENING

- Welcome speech
- Registration of companies - NEW PRODUCTS
- New companies at HERVEX
- New products of companies in Hydraulics & Pneumatics

12th-14th PANEL 1 – ELEMENTS OF STRATEGY AND INNOVATIVE POLICIES IN THE FIELD, IN THE FRAMEWORK OF THE EUROPEAN PROGRAMME HORIZON 2020

14th-15th LUNCH

15th-16th VISIT OF STANDS AND FUNCTIONAL DEMONSTRATION

16th-17th

- Half 1 – WORKSHOP 1 – ENVIRONMENT, ECOLOGY AND GREEN ENERGY**
- Half 2 – WORKSHOP 2 – INVENTION – SOURCE OF PROGRESS**

- Presentation of several inventions
- Inventors Club

18th-19th DINNER

20th-21st EXPOSITION

THURSDAY, NOVEMBER 6

09th-11th CONFERENCE 1 – MOBILE HYDRAULICS & TRIBOLOGY

11th-12th COFFEE BREAK

11th-14th PANEL 2 – MODERN TRENDS IN SPECIALIZED RESEARCH RESULTED FROM INTERNATIONAL CONFERENCE

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16th-17th HALF 1 – CONFERENCE 2

- SCIENTIFIC PAPERS PRESENTED BY STUDENTS, MSc. STUDENTS, PHD. STUDENTS
- CONTEST OF HYDRAULICS AND PNEUMATICS FOR STUDENTS AND YOUNG ENGINEERS

17th-18th HALF 2 – WORKSHOP 3 TECHNOLOGICAL TRANSFER FROM RESEARCH

18th-19th FESTIVE DINNER

20th-21st EXPOSITION

FRIDAY, NOVEMBER 7

09th-11th CONFERENCE 3 – INDUSTRIAL HYDRAULICS & MECHATRONICS

11th-12th COFFEE BREAK

11th-12th PANEL 3 – EDUCATION AND QUALIFICATION IN FLUID POWER

- Presenting the PODER Project - Improvement of the workers qualification from mechanical and hydraulic field
- CETOP Guidance Recommendations to provide competence based training in Romania

14th-15th LUNCH

16th-19th TRIP TO OUGLÉ HORNZEL Gold Mine

19th-21st DINNER

20th-21st EXPOSITION

SATURDAY, NOVEMBER 8

10th-13th EXCURSION TO VALOCA Monasteries

12th-13th LUNCH (at one of the monasteries)

17th-18th CONCLUSION

Conference proceedings is indexed in:
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International Conference and Exhibition of Hydraulics, Pneumatics,
Sealing Elements, Fine Mechanics, Tools,
Specific Electronic Equipment & Mechatronics
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Index **Conference details** **Call for Papers** **Costs/Payments** **Organizers** **Committees**
Exhibition/Participants **Contest** **Registration** **Contact** **Previous editions** **Links**

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International Conference and Exhibition of Hydraulics and Pneumatics – HERVEX 2014 – is carried on the following structure:

- 3 scientific conferences
- 3 thematic workshops
- 2 panels

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PRELIMINARY PROGRAMME

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Index **Conference details** **Call for Papers** **Costs/Payments** **Organizers** **Committees**
Exhibition/Participants **Contest** **Registration** **Contact** **Previous editions** **Links**

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