ABOUT CONFERENCE

The 1st CPOTE conference, held in 1998, was dedicated to the 50th Jubilee of Prof. Szargut's scientific activity. The 2nd one (2004), was connected with the celebration of centenary tradition of the Institute of Thermal Technology, reaching back to the Technical Universitiy of Lviv. The 3rd CPOTE conference (2012) was connected with the jubilee of Professor Andrzej Ziębik's 50 years academic activity. The 4th CPOTE conference (2016) was devoted to the topic Sustainable Energy Systems for our Common Future and it gathered over 100 participants from all around the globe. The 5th International Coference CPOTE 2018 will be held in Gliwice, the city where Professor Szargut was working for more than 70 years. The city integrates rich industrial traditions of Upper Silesia with modern economic zones and technoparks for business development.

CONFERENCE TOPICS

- Advanced System Energy and Exergy Analysis
- Theoretical and Applied Thermodynamics
- Heat and Mass Transfer
- Thermo-Economic and Thermo-Ecological Analysis
- Improvement and Optimization of Energy Systems
- Simulation, Diagnostics and Control of Power Technologies
- Life Cycle Analysis and Sustainability of Energy Systems
- Carbon Capture and Sequestration
- Renewable Energy Conversion
- Use of Water Resources
- Cogeneration, District Heating and Refrigeration
- Air Conditioning and Heat Pumps
- Internal Combustion Engines

For more informations please visit
www.cpote2018.eu

PROFESSOR JAN SZARGUT

Professor Jan Szargut (09 Sep 1923 Lwów – 21 Nov 2017 Gliwice) was one of the World's most valued experts on thermodynamics, energy management and, in particular, exergy analysis. He began his studies at the Mechanical Faculty of Lwów University of Technology, which was functioning during the German occupation as Technische Fachkurse.



Prof. Jan Szargut

Following WW2, Lwów was incorporated to the USSR and the majority of habitants were resettled to the former German territories incorporated to Poland. A poet Adam Zagajewski wrote: *Millions of people pushed the covers of their suitcases with their knees, it happened so in line with the wish of three elderly gentlemen who had met in Yalta*.

Once arrived to Gliwice, Jan Szargut continued his studies in the newly founded Silesian University of Technology. Graduated cum lauda, he then started working as research assistant in the Institute of Thermal Machines Theory. In 1955, he defended his PhD dissertation entitled Balance equations following the 1st and the 2nd Law of Thermodynamics. He gained the extraordinary and the full professor titles in 1962 and 1969, respectively. He was head of the Institute of Thermal Technology since 1971 until his retirement in 1993. Ultimately, he remained an active scientist, publishing and co-operating with his team until the very last days of his life.

More information on his activity can be found at www.itc.polsl.pl/szargut and www.exergoecology.com

PROFESSOR JAN SZARGUT

The scientific heritage of professor Jan Szargut is immense and it covers multiple areas:

- Irreversibility of thermal processes
- Measurement data reconciliation for energy flows
- New formulation of the exergy flow diagram
- Theory of chemical exergy calculation: approximate method of calculation, normal chemical exergy
- Concept of reference substances most common in the natural environment: Earth's crust and seawater
- Cumulative exergy consumption (CExC)
- Ecological cost (later thermo-ecological cost)
- Partial exergy losses
- Pro-ecological tax

Since 1976 he was a member of the Polish Academy of Sciences. He was author and co-author of 327 scientific articles, 24 books and 12 handbooks. 28 PhD theses were prepared under his guidance; 15 of his PhD students are now professors. He was a Honorary Editor of the International Journal of Thermodynamics and Associate Editor of the ENERGY Journal. Although he received many golden / 1st degree awards, he remained an example of modesty and nonmaterialistic approach to work, usually using a bicycle to get to the University at early morning hours. We shall always remember him as a personification of high-quality working style and outstanding scientific competitions.



Prof. Jan Szargut at CPOTE Conference, 2012, Gliwice, Poland

More information on his activity can be found at www.itc.polsl.pl/szargut and www.exergoecology.com

CONFERENCE FEE

Regular participants
Conference fee: 500 EUR (including tax)
Including: lectures and workshops, conference materials, welcome reception, galla dinner, lunches, coffee breaks, up to 2 conference papers per participant

Accompanying persons
Conference fee: 300 EUR (including tax)
Including: welcome reception, galla dinner, lunches, coffee breaks

Reduced conference fee
Up to 20 reduced conference fees (300 EUR) will be granted to the BSc, MSc and PhD students (with adequate documentation presented proving the student status) based on submitted abstracts and the evaluation of the Scientific Committee.

IMPORTANT DATES

- **Registration** **up to 15 February 2018**
- **Abstract submission** **up to 15 February 2018**
- Notification of acceptance up to 30 February 2018
- Full manuscript submission up to 31 May 2018

CPOTE 2018 ORGANISATION OFFICE

The 5th International Conference CPOTE 2018 is organised by Institute of Thermal Technology (itc.polsl.pl). You can contact us via office e-mail: info@cpote2018.eu

- **Wojciech Stanek** Chair of the Conference
- **Tatiana Morosuk** Co-chair of the Conference
- **Wojciech Kostowski** Co-chair of the Conference
- **George Tsatsaronis** Chair of the Scientific Committee

Members of the Organizing Committee: Lucyna Czarnowska, Paweł Gładysz, Krzysztof Pajączek, Karolina Petela

For more informations please visit
www.cpote2018.eu

SPECIAL ISSUES

Selected papers after the conference will be published in Special Issue or Special Sections in the following International Journals:

- ASME Journal of Energy Resources Technology
- ELSEVIER Energy – The International Journal
- ELSEVIER Energy Conversion and Management
- ELSEVIER Renewable Energy
- ELSEVIER Fuel
- Archives of Thermodynamics.
- Journal of Power Technologies

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2018 CPOTE



5th International Conference

Contemporary Problems of Thermal Engineering

Energy Systems in the Near Future: Energy, Exergy, Ecology and Economics

Dedicated to the Memory of Professor Jan Szargut

Gliwice, Poland
18 - 21 September 2018

Organized by
Institute of Thermal Technology,
Silesian University of Technology