



INSTITUTE OF TURBOMACHINERY
Lodz University of Technology



SZEWALSKI INSTITUTE
OF FLUID-FLOW MACHINERY
Polish Academy of Sciences



13th INTERNATIONAL SYMPOSIUM ON COMPRESSOR & TURBINE FLOW SYSTEMS – THEORY & APPLICATION AREAS

SYMKOM 2018 IMP²



Lodz, 18 – 20.10.2018

Honorary Patronage



The National Centre
for Research and Development



POLISH ACADEMY OF SCIENCES
PANA WILKOWSKA 51, 01-224 WARSZAWA



Lodz University of Technology
Rector
Professor Slawomir Wiak Ph.D., D.Sc.



MAYOR OF THE CITY OF LODZ
HANNA ZDANOWSKA

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KEY DATES

- 15.04.2018 Abstract submission
 - 30.04.2018 Notification of acceptance
 - 31.05.2018 Manuscript submission
 - 30.06.2018 Manuscript review
 - 20.08.2018 **Final paper submission**
 - 30.09.2018 Publication of the conference programme
- All papers and presentations should be written in English. Instructions for authors will be published on the **SYMKOM 2018 IMP²** website.

REGISTRATION FEE

The registration fee covers:

- participation in plenary sessions
- symposium proceedings
- meals, refreshments
- social programme

Registration fee (before 31.08.2018)

Regular	380 EUR	1600 PLN
PhD Student	275 EUR	1150 PLN

Registration fee (after 01.09.2018)

Regular	430 EUR	1800 PLN
PhD Student	325 EUR	1350 PLN

Workshop fee

	30 EUR	125 PLN
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The registration fee should be paid to:

Bank PEKAO S.A. II /O, Lodz
Account No.: PL 36 1240 3028 1111 0010 3741 7984
SWIFT: PKOPPLPW
with the annotation **"SYMKOM 2018"**

ADDRESS OF THE ORGANIZING COMMITTEE

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NIP/VAT/TAX number: PL 7270021895

symkom2018@info.p.lodz.pl

VENUE



The symposium will be held in TUL "Sports Bay" – a newly built sports and conference centre, located at the Lodz University of Technology – campus B, 10 Politechniki Avenue.

RECOMMENDED HOTELS



Please find a list of hotels recommended by the symposium organizers. You should be offered a special discount rate if you quote **"SYMKOM 2018"** while booking a room.

- **Qubus Hotel Łódź** [e-mail](#)
tel.: +48 42 275 51 00 [website](#)
- **Ibis Łódź** [e-mail](#)
tel.: +48 42 638 67 00 [website](#)
- **Boutique Hotel's Łódź** [e-mail](#)
tel.: +48 42 681 22 22 [website](#)
- **Boutique Hostel** [e-mail](#)
tel.: +48 512 22 10 22 [website](#)
- **Novotel Łódź Centrum** [e-mail](#)
tel.: +48 42 254 39 00 [website](#)

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INVITATION

We have the pleasure to invite you to participate in the **13th International Symposium SYMKOM 2018 IMP²** that follows the tradition of meetings of people who conduct scientific research and development activities in the field of turbomachinery: turbines, compressors and pumps, as well as in the areas of modern power engineering technologies, energy storage, wind energy and flow modelling. The conference is organized by two scientific centres: **Institute of Turbomachinery, Lodz University of Technology** and **Szewalski Institute of Fluid-Flow Machinery, Polish Academy of Sciences** in Gdańsk.

The symposium programme includes plenary sessions introduced by keynote speeches delivered by distinguished specialists recognized in various fields of fluid mechanics and representing the world of science and industry. A special session will be devoted to PhD students with a competition for the best presentation delivered by a young researcher. Moreover, an exchange of ideas among users, manufacturers and researchers will be possible within a separate panel session. Researchers wishing to extend their skills in communicating science and conference presentations can benefit from special workshops conducted by Olle Bergman, a communication specialist.

The selected symposium contributions will be published in two scientific journals indexed in SCOPUS: "Mechanics and Mechanical Engineering" (Open Access) and "Open Engineering" (Open Access). All abstracts and papers not accepted by the above mentioned journals will be published in symposium proceedings.

For the symposium venue, we have chosen the TUL Sports and Education Centre "Sports Bay". Within the assorted agenda of social events, this year you will visit the Centre for Science and Technology in the former [EC1 Lodz Power Plant Complex](#). The revitalised and expanded EC1 combines architectural trends from 20th century and post-industrial features. We look forward to seeing you in Lodz.

On behalf of the Scientific Committee



Krzysztof JÓŻWIK

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SCOPE

The scope of **SYMKOM 2018 IMP²** covers the following topics:

- design and manufacturing of turbomachinery components (rotor dynamics, performance prediction, optimization, revamp and retrofit);
- turbomachinery maintenance and diagnostics;
- problems of flow unsteadiness (rotor - stator interaction, surge and stall, aero-acoustics, noise reduction);
- numerical flow simulations and their experimental validation (new computational models; turbulent, transitional, multiphase flow simulations, etc.);
- experimental investigations and measurement techniques;
- new energy and heat generating cycles (thermodynamics of turbomachines);
- designs for special applications (medicine, biotechnology, etc.);
- wind turbines, special devices and technology for 'green energy' generation;
- microdevices and microflows;
- educational issues;
- AOB (Any Other Business).

INVITED SPEAKERS

SYMKOM 2018 IMP² will have the pleasure to host notable scientists, scholars and specialists in their fields of knowledge. They will deliver their perspective on crucial topics, defining the scope of the conference:

- **Jan KICIŃSKI** - Szewalski Institute of Fluid-Flow Machinery, Polish Academy of Sciences, Gdańsk, Poland
- **Jan Tommy GRAVDAHL** - Norwegian University of Science and Technology, Trondheim, Norway
- **Andrew HEYES** - University of Strathclyde, Glasgow, Scotland
- **David JAPIKSE** - Concepts NREC, White River Junction, USA
- **Fawaz MASSOUH** - Arts et Métiers ParisTech, Paris, France
- **Heinrich SCHIMA** - Medical University of Vienna, Austria
- **Tom VERSTRAETE** - Von Karman Institute for Fluid Dynamics, Sint-Genesius-Rode, Belgium

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