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Institution of
**MECHANICAL
ENGINEERS**

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REFRIGERATION AIR CONDITIONING HEAT PUMPS



11th International Conference on **Compressors and their Systems**

9th – 11th September 2019
City, University of London



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The 11th International Conference on Compressors and their System provides a forum where developments in air, gas and refrigeration compressors, vacuum pumps, expanders, related systems and components will be discussed. In addition to the traditional keynote addresses, research and technical papers, podium papers and discussions, the programme will include a full Industry Day dedicated exclusively to topics of high importance to Industry. Please contact us with your proposals for Industry Day presentations.

Conference scope

Papers are invited on a wide range of topics on compressors, expanders, pumps and their systems including, but not limited to:

- Technology Development
- Operation, Maintenance and Reliability
- Safety and Environmental Impact
- Energy Efficiency and Carbon Footprint
- Novel applications
- System Integration and Behaviour
- Upgrades and Refurbishment
- Design and Manufacture
- Education and Professional Development.

Who should attend

Designers and manufacturers of compressors, expanders and systems, control systems, suppliers, end users and research organisations.

Call for papers

All papers will be written and presented in English and will not have been presented or published at previous events. Authors are required to attend the conference to present their work.

30th November 2018 – Abstract submission deadline of not more than 250 words.

17th February 2019 – Selected authors to submit draft paper of up to 4,000 words.

19th May 2019 – Draft paper refereed and final paper submitted.

Authors are invited to submit their abstracts and papers using CONFTOOL via the Conference website **www.city.ac.uk/compressorsconference**

Conference chairman

Ahmed Kovacevic, City, University of London

4th forum/short course: Computational Fluid Dynamics in Rotary Positive Displacement Machines 7th – 8th September 2019

Following the success of three previous forums/short courses on Computational Fluid Dynamics (CFD) in Positive Displacement Machines (PDM), in which there was strong participation from the compressor industry, CFD software providers and academia, this fourth event is dedicated to advanced topics in the application of CFD in PDM for industrial and research use.

The main topics of the 4th short course and forum will be:

- Advances in grid generation, CFD tools and new techniques for PD machine analysis
- Modelling leakage flows and conjugate heat transfer
- Prediction of clearance gap sizes during operation and application of modern FSI computations
- Stability and accuracy of Multiphase flow calculations in PD machines.

Participants from industry and academia are invited to present results of their research and analysis in the forum. City, University of London will provide test results of a dry air twin screw compressor to aid the studies.

The forum/short course will bring benefits to engineers, engineering managers and specialists from industry, students, researchers and educators from academia and anyone who is interested in the modelling and design of rotary positive displacement machines. The short course will be presented by leading scientists and researchers from industry and academia and will give an insight into new technologies and state-of-the-art modelling of PDM.

The forum/short course is organised by the Centre for Compressor Technology and will be held at the Northampton Square site of City, University of London on 7th and 8th September 2019.



Find out more, visit
[www.city.ac.uk/
compressorsconference](http://www.city.ac.uk/compressorsconference)



Telephone enquiries
+44 (0) 20 7040 8037



Email for conference
and forum/short course
compressors@city.ac.uk



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and payment
events@city.ac.uk