

# THE FUTURE OF GAS TURBINE TECHNOLOGY

9<sup>TH</sup> INTERNATIONAL GAS TURBINE CONFERENCE

10-11 October 2018, Brussels, Belgium

## CALL FOR PAPERS

The IGTC-18 Conference Advisory Board welcomes submission of Papers in the following gas turbine research areas and application fields:

- **Review Papers** giving a comprehensive technology overview of the past 2 years
- **Case Study Papers** describing recent experiences
- **Technical Papers** describing technology advances and innovative solutions

Submitted research papers and application oriented papers should demonstrate a high importance and interest to the gas turbine user community and be related to one of the four categories below. The highlighted topics of each category include, but are not limited to:

<b>Operations &amp; Maintenance</b> <ul style="list-style-type: none"><li>➤ Power Generation/Oil &amp; Gas Operator Priorities</li><li>➤ Optimising Power Generation/Oil &amp; Gas Operations</li><li>➤ Adapting to a Changing Energy Market</li><li>➤ Enhancing Flexible Operation &amp; Fuel Flexibility</li><li>➤ Cost Reduction &amp; Revenue Improvement</li><li>➤ Extension of Service Intervals and Total Engine Life</li><li>➤ Emission Reduction on Existing Gas Turbines</li><li>➤ Predictive Health Monitoring</li><li>➤ .....</li></ul>	<b>Manufacturing &amp; Repair</b> <ul style="list-style-type: none"><li>➤ New Advanced Manufacturing and Repair Techniques</li><li>➤ Novel and Advanced Materials in Gas Turbines</li><li>➤ New Coating Materials and Application Developments</li><li>➤ .....</li></ul>	
<b>New Component Developments</b> <ul style="list-style-type: none"><li>➤ Turbomachinery for Improved Efficiency and Life</li><li>➤ Combustion Systems for Low Emissions and Enhanced Fuel Flexibility</li><li>➤ Auxiliary Equipment</li><li>➤ .....</li></ul>	<b>Next Generation Technologies</b> <ul style="list-style-type: none"><li>➤ Plant &amp; System Integration</li><li>➤ Distributed Generation in Smart Networks</li><li>➤ Innovative Concepts for Low Carbon Cycles</li><li>➤ Digital Engine Modelling</li><li>➤ Novel Control Strategies</li><li>➤ Smart &amp;(Cyber)secure Remote Maintenance Solutions</li><li>➤ Industrial Internet of Things (IIoT)</li><li>➤ Digitalisation</li><li>➤ Alternative fuels</li><li>➤ .....</li></ul>	
<b>Conference Advisory Board IGTC-18:</b> <ul style="list-style-type: none"><li>• Rob Bastiaans, TUE</li><li>• Pablo Bellocq, Total</li><li>• Roger Brandwood, Uniper</li><li>• Fausto Carlevaro, BHGE</li><li>• Catherine Goy, Uniper</li><li>• Peter Kutne, DLR</li><li>• Richard Marsh, Cardiff University</li><li>• Jean-Louis Meyer, EDF</li><li>• John Oakey, Cranfield University</li><li>• Nicola Rossi, Enel</li><li>• David Sánchez, University of Seville</li><li>• Jan Slagter, VBR Turbine Partners</li></ul>	<b>DEADLINES</b>	
	<b>Submission of abstract</b>	<b>4 December 2017</b>
	<b>Notification of abstract acceptance</b>	1 February 2018
	<b>Submission of final papers</b>	29 April 2018
	<b>Notification of paper acceptance</b>	17 June 2018

## Who will be present

- GT Users (Utilities and Oil & Gas)
- OEMs - Original Equipment Manufacturers
- Equipment and Service Providers
- Universities and R&D Institutes
- Consultancies
- Policy makers

## Submission of Abstract

An abstract of maximum 400 words should be submitted in a Word document by e-mail with the title “**Abstract**” to **[nk@etn-gasturbine.eu](mailto:nk@etn-gasturbine.eu)** before **4 December 2017**. When your abstract is submitted correctly, you will receive a confirmation email.

## The abstracts must contain:

- Title of the paper;
- Names, affiliations, and full addresses of all authors;
- Up to five keywords in descending order of importance;
- Language: All abstracts must be written in high quality English and authors of selected papers must be able to present their topics in English.

The Conference Advisory Board will only select abstracts of promising high quality papers. Writers of the accepted abstracts will be invited to submit a final paper.

## Final Acceptance:

The final acceptance of the paper is based on a positive review by the Conference Advisory Board. The Conference Advisory Board may also give comments to improve a paper, which must be implemented before final submission of the paper.

Accepted papers will appear in the conference proceedings available in electronic format at the conference. Authors of the accepted papers must present their paper in respective technical sessions, and will be expected to submit their PowerPoint presentation 1 month before the conference.

A reduced fee will be given to presenters of the accepted papers.

## About the Conference

The International Gas Turbine Conference is a well-established and renowned biennial conference. Its objective is to raise the awareness of gas turbine (GT) technology development needs – from oil & gas, power generation and industrial operators’ perspectives – and to explore and exchange ideas with GT experts from the whole value chain attending from all continents. It also provides the opportunity to meet and discuss with policy makers the role of gas turbines in future energy scenarios. The conference will highlight the energy market outlook in Europe and in key markets globally, as well as to present and disseminate recent R&D activities for flexible, efficient and environmentally sound gas turbines.

The **keynote sessions and panel discussions** will address critical issues related to climate change mitigation in the context of the different and fast changing markets. Special attention will be given to increased operational flexibility, fuel flexibility, retaining reliability and lower emissions for both single cycle and combined cycle operation. Energy policies that set boundary conditions and initiatives for GT technology development in Europe and globally will be presented, followed by panel discussions with distinguished experts and high level policy makers.

In parallel **technical sessions**, critical research and development activities necessary for the advancement of GT technology, from operational, environmental and cost perspectives will be addressed. Recent GT technology and new, innovative solutions will be presented. The technical sessions will combine research initiatives, case studies and reports of real case applications, with the aim to give a balanced view of current developments and future needs for research in GT applications.

### Organiser

European Turbine Network  
Chaussée de Charleroi 146-148/20  
1060 Brussels, Belgium  
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For conference updates and further details:  
<http://www.etn-gasturbine.eu/igtc18/>

### Conference Management and Call for Papers

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**We very much look forward to  
welcoming you at the IGTC-18!**