POWER GENERATION
GAS TURBINE USER
GROUP 2016
LATEST DEVELOPMENTS
IN GAS TURBINE
TECHNOLOGY

6–7 December 2016
Thinktank Science Museum, Birmingham
Power Industries Division
Conference

More details available at
www.imeche.org/GTUG2016

KEY SPEAKERS INCLUDE:
John Booth
Maintenance Section Head
RWE Staythorpe Power Station
Charles Crossley
Campaign Delivery Engineer
National Grid
Robert Aspley
Station Manager
Marchwood Power Station
Ian Webb
Head of IGT Product Support
Siemens Industrial Turbomachinery Ltd
Siavash Pahlavanyali
Senior Turbine Consultant
Edif ERA

SUPPORTING ORGANISATIONS:

EXHIBITORS:

Event Partners:

Books early and save up to 15%
Offer ends 21 October 2016
Terms and conditions apply

Save up to 15% Offer Ends 21 October 2016
WHY ATTEND
THE GAS TURBINES USER GROUP 2016
6–7 DECEMBER 2016
THINKTANK SCIENCE MUSEUM, BIRMINGHAM

THE POWER GENERATION GAS TURBINE USER GROUP IS A WELL-ESTABLISHED CONFERENCE CATERING FOR THOSE INVOLVED IN THE DESIGN, MANAGEMENT, OPERATION AND MAINTENANCE OF GAS TURBINES.

This is an unrivalled opportunity to engage with gas turbine experts and end users to exchange ideas, identify solutions to operational challenges and learn about new developments.

The Institution’s long-standing User Groups are peer reviewed by a committee of key industry thought leaders, ensuring high quality presentations, unique networking opportunities and the chance to share experiences among the gas turbine community.

KEY PROGRAMME HIGHLIGHTS:

• Hear about gas turbine preservation techniques being utilised by the National Grid
• Insights into how to remain compliant with the industrial emissions directive from Uniper Technologies
• Understand how custom modernization has effectively raised Marchwood Power Station’s output with insights from Marchwood Power Station and Siemens PLC
• Gain knowledge on plant mothballing and plant preservation from SSE
• Understand how to improve cycle expectation, reparability, life extension and reducing the cost of ownership from Sulzer Gas Turbine Services

WHY ATTEND:

• Gain an understanding of existing and emerging technologies being used by gas turbine operators
• Learn how to maximise gas turbine output whilst minimising the cost of operations and maintenance
• Enhance your knowledge about the options on the market for maintenance and repair services available to gas turbine operators from OEM and third party contractors
• Engage in focused round table discussion groups and find solutions to key technical issues by engaging with other industry experts
• Network with key decision makers and budget holders within the gas turbine user community

ORGANISING COMMITTEE
Power Industries Division
The Institution of Mechanical Engineers

MEMBERS CREDITS:
Keith Watson
Corelia Solutions Limited
Adrian Rolfe
Mott MacDonald
Martyn Adams
Uniper Technologies Limited
Terry Raddings
GE Power
Gareth Newcombe
Saudi Electricity Company
Ronnie Glen
SSE
Clifford Smith
CSGT Consultancy
Andrew Robson
Siemens plc
John Furness
AAF Ltd

BOOK EARLY AND SAVE UP TO 15% OFFER ENDS 21 OCTOBER 2016

TERMS AND CONDITIONS APPLY
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:40</td>
<td>REGISTRATION AND REFRESHMENTS</td>
</tr>
<tr>
<td>09:10</td>
<td>CHAIR’S WELCOME AND OPENING REMARKS</td>
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<tr>
<td></td>
<td>Keith Watson, Consultant, Corelia</td>
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<tr>
<td>09:20</td>
<td>A GLOBAL OUTLOOK ON IMPROVING THE MARKET CONDITIONS FOR THE GAS TURBINE USER COMMUNITY</td>
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<td></td>
<td>Christer Björkqvist, Managing Director, ETN Gas Turbine</td>
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<tr>
<td>09:45</td>
<td>CASE STUDY FROM THE NATIONAL GRID: GAS TURBINE PRESERVATION</td>
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<td>Charles Crossley, Campaign Delivery Engineer, National Grid</td>
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<td>10:10</td>
<td>VOLATILE GRID REQUIREMENTS AND SIEMENS’ ANSWERS FOR FLEXIBLE AND DYNAMIC OPERATION OF LARGE POWER PLANTS</td>
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<td>Speaker to be announced, Siemens PLC</td>
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<tr>
<td>10:35</td>
<td>QUESTION AND ANSWER SESSION</td>
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<tr>
<td>10:50</td>
<td>NETWORKING REFRESHMENT BREAK</td>
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<tr>
<td>11:20</td>
<td>STAYTHORPE 1750MW CCGT, GT26 MXL2 UPGRADE LATEST EXPERIENCES AND TRANSITION FROM OEM LED TO RWE INTERNAL LED MAJOR TURBINE OVERHAULS</td>
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<td>John Booth, Maintenance Section Head, RWE Staythorpe Power Station</td>
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<tr>
<td>11:45</td>
<td>TMF, COMPONENT DAMAGE AND REPAIR ASSESSMENT</td>
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<td>Siavash Pahlavanyali, Senior Turbine Consultant, Edif ERA</td>
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<tr>
<td>12:10</td>
<td>TO RE-POWER OR REFURBISH A GAS TURBINE: A DISCUSSION ON MAKING A BUSINESS CASE</td>
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<td></td>
<td>Clifford Smith, Independent Engineering Consultant, CSGT Consultancy</td>
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<tr>
<td>12:35</td>
<td>QUESTION AND ANSWER SESSION</td>
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<tr>
<td>12:50</td>
<td>NETWORKING LUNCH</td>
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<tr>
<td>13:50</td>
<td>PLANT MOTHBALLING AND PRESERVATION: CHALLENGES &amp; LESSONS LEARNED</td>
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<td>Ronnie Glen, Process Engineer, Engineering Centre, SSE</td>
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<td>14:15</td>
<td>CUSTOM MODERNISATION RAISES MARCHWOOD’S OUTPUT</td>
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<td></td>
<td>Robert Aspley, Station Manager, Marchwood Power Station</td>
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<tr>
<td>14:40</td>
<td>THE ECONOMIC BENEFITS OF EPA GRADE FILTRATION FOR GAS TURBINE OPERATION IN THE POWER GENERATION INDUSTRY</td>
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<td></td>
<td>Speaker to be announced, AAF GB</td>
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<tr>
<td>15:05</td>
<td>QUESTION AND ANSWER SESSION</td>
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<tr>
<td>15:20</td>
<td>NETWORKING REFRESHMENT BREAK</td>
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<tr>
<td>15:50</td>
<td>HOW TO INSURE A POWER PLANT WITH GAS TURBINES</td>
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<td>Alan Fitzpatrick, Risk Engineer, CNA Hardy</td>
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<tr>
<td>16:15</td>
<td>TURBOPHASE PRODUCT ON F-CLASS GAS TURBINES IN A HIGH AMBIENT DESERT ENVIRONMENT</td>
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<td>Brian Foley, Director of Sales, PowerPHASE</td>
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<tr>
<td>16:40</td>
<td>QUESTION AND ANSWER SESSION</td>
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<td>16:50</td>
<td>CHAIR’S CLOSING REMARKS</td>
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<tr>
<td>17:00</td>
<td>END OF DAY ONE</td>
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For the most up-to-date and detailed programme for the event, please visit: [www.imeche.org/GTUG2016](http://www.imeche.org/GTUG2016)

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.
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<td>STRATEGIC MAINTENANCE AND COMPLIANCE</td>
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<td>09:20</td>
<td>COMPLIANCE WITH THE INDUSTRIAL EMISSIONS DIRECTIVE AND THE MEDIUM COMBUSTION</td>
<td>David Graham, Technical Consultant, Uniper Technologies</td>
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<tr>
<td>09:45</td>
<td>LUBRICATING OIL: AN ENGINEER'S PERSPECTIVE</td>
<td>Ian Webb, Head of IGT Product Support, Siemens Industrial Turbomachinery Ltd</td>
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<tr>
<td>10:10</td>
<td>NEW TECHNOLOGIES FOR REDUCING PLANT DOWN TIME, PROLONGING MAINTENANCE</td>
<td>Karel Van Wijk, Director, Advanced Valve Solutions UK Limited</td>
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<tr>
<td>10:35</td>
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<tr>
<td>11:20</td>
<td>EXHAUST CASING INSULATION REPAIR SOLUTIONS</td>
<td>Jake Waterhouse, Director, DEKOMTE</td>
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<td>11:45</td>
<td>ENHANCING OEM DESIGNS OF HOT GAS PATH COMPONENTS FOR IMPROVED CYCLE</td>
<td>Rene Vijgen, Managing Director, Sulzer Gas Turbine Services</td>
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<td>EXPECTATION, REPAIRABILITY, LIFE EXTENSION AND REDUCING THE COST OF OWNERSHIP</td>
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<td>TITLE TO BE ANNOUNCED</td>
<td>Speaker to be announced</td>
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<tr>
<td>12:40</td>
<td>NETWORKING LUNCH</td>
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<tr>
<td>13:40</td>
<td>GAS TURBINE AUXILIARY SYSTEMS</td>
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<tr>
<td>14:05</td>
<td>OTC VALVES: TWO SHIFT OPERATION POWER PLANTS</td>
<td>Karel Van Wijk, Director, Advanced Valve Solutions UK Limited</td>
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<tr>
<td>14:30</td>
<td>GAS TURBINE INLET COOLING OPTIONS TO MAXIMISE POWER OUTPUT IN RESPONSE</td>
<td>Speaker to be announced, AAF GB</td>
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<td>TO THE NEW OPERATING DYNAMICS IN EUROPE</td>
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<td>15:10</td>
<td>ROUNDTABLE DISCUSSIONS: ADDRESSING KEY TECHNICAL ENGINEERING CHALLENGES</td>
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<td></td>
<td>• What is the impact of the changing market conditions in Europe on engineers,</td>
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<td>and how can these challenges be addressed?</td>
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<td></td>
<td>• How can engineers successfully manage and minimise plant risks?</td>
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<td>• What are the most effective and cost-efficient methods for component lifetime assessment?</td>
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<td></td>
<td>• How can efficiency and reliability of power plants be improved most resourcefully?</td>
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<tr>
<td>16:10</td>
<td>ROUNDTABLE FEEDBACK</td>
<td></td>
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<tr>
<td>16:30</td>
<td>CHAIR'S CLOSING REMARKS</td>
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<td>16:40</td>
<td>END OF DAY TWO</td>
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WHO SHOULD ATTEND?

POWER SECTOR
• Power Stations Managers
• Operations Managers
• Engineering Managers
• Maintenance Engineers
• Technical Engineers
• Power Plant Development Engineers

OEMS, SUPPLIERS AND SUPPORT COMPANIES
• Contract Managers
• Product Development Engineers
• Field Service Engineers

OIL AND GAS, PROCESS
• Plant Managers/Operations Managers
• Engineering Managers and Facilities
• Utilities Engineers

FEEDBACK FROM PREVIOUS GAS TURBINES USER GROUP

“"A great opportunity to hear about key issues affecting the gas turbine industry and network with peers
Rotating Plant Engineer, SSE

""Excellent forum for understanding current market and future strategies. Brilliant networking opportunities
Head of Function Post Design Services, Assystem UK

""Excellent opportunity to share experiences, learn and build network
Operations & Maintenance Manager, GDF SUEZ

OVER 90% OF ATTENDEES WOULD RECOMMEND A COLLEAGUE OR PEER TO JOIN THE POWER GENERATION GAS TURBINE USER GROUP

OVER 40 ORGANISATIONS WERE INVOLVED IN LAST USER GROUP, INCLUDING:
• Mott Macdonald Ltd
• E.ON Technologies
• Corby Power Station
• ENI
• Siemens Industrial Turbomachinery
• GDF Suez
• Shell Lubricants UK
• Centrica Energy
• RWE Generation
• ALSTOM Power Service UK
• General Electric International Inc

SPONSORSHIP OPPORTUNITIES
CREATE A BESPOKE STRATEGY THAT PLACES YOUR COMPANY IN FRONT OF SENIOR DECISION MAKERS

• Engage face to face with your target market of senior engineers
• Extensive networking opportunities to help you forge strong long-term business relationships with leading industry players
• Firmly establish thought leadership credentials within your specialist field
• Use high-profile sponsored speaking platforms or focused technical workshops to effectively demonstrate your skills and expertise within a chosen sector
• Deliver high-profile and relevant brand exposure

• Promote your products and services as market leaders in front of our influential audiences
• Generate new business leads
• Capture contact data from our highly qualified delegates to fuel your sales teams

CONTACT THE SPONSORSHIP TEAM ON:
T: +44 (0)20 7973 1249
E: sponsorship@imeche.org
HOW TO BOOK YOUR PLACE

FEES AND CHARGES

Registration fees include entry to the sessions, refreshments and a copy of the conference proceedings.

<table>
<thead>
<tr>
<th>Fees and charges</th>
<th>Early Bird Rate until 21 October 2016</th>
<th>Standard Rate</th>
</tr>
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<tbody>
<tr>
<td>Member, IMechE/supporting organisation</td>
<td>£448 + VAT</td>
<td>£525 + VAT</td>
</tr>
<tr>
<td>Non-member</td>
<td>£543 + VAT</td>
<td>£635 + VAT</td>
</tr>
<tr>
<td>Student/Retired</td>
<td>£162 + VAT</td>
<td>£175 + VAT</td>
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THREE WAYS TO BOOK

1. Online: www.imeche.org/GTUG2016
2. Email: eventenquiries@imeche.org
3. Phone: +44 (0)20 7973 1251

Please read the information listed below as each booking is subject to the Institution’s standard terms and conditions.

CONDITIONS OF BOOKING
Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation with them on the day, to ensure the fastest possible entry.

SPECIAL REQUIREMENTS
Please inform us of any special requirements, ie dietary or access, on the relevant section of this form.

Cancellation
For a refund (minus £25+VAT admin charge), cancellations must be received at least 30 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full refund of the fee paid.

LIABILITY
The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

CONFERENCE VENUE
Thinktank Science Museum, Birmingham
Millennium Point, Curzon St, Birmingham B4 7X3

SPONSORSHIP & EXHIBITION OPPORTUNITIES
GET INVOLVED
Attending this event as either an exhibitor or sponsor will give you the opportunity to display your solutions, services and products to the right people at the right time.

Benefits of sponsoring
• Showcase new products
• Raise awareness of your operation
• Improve perception of your brand
• Influence other organisations’ spending plans

This is an excellent way to enhance your company profile and communicate effectively to your target audience.

For more information please call +44(0)20 7973 1249 or email sponsorship@imeche.org

FORWARD THINKING

We are the market leader among professional engineering bodies. We’ve been supporting engineers since 1847 and have 113,000 members in over 140 countries, working in the world’s most dynamic and important industries. Our comprehensive events programme brings you the latest research and best practice from industry and academia.

OTHER EVENTS TO LOOK FOR

17 NOVEMBER 2016
THE DORCHESTER, LONDON
The Institution of Mechanical Engineers’ Annual Dinner
The Institution’s Annual Dinner will be returning to London’s Dorchester hotel Thursday 17 November 2016, to celebrate the engineering profession.
www.imeche.org/annualdinner2016

22 - 23 MARCH 2017
WEST MIDLANDS
The Steam Turbine and Generator User Group
The latest in the series of popular Steam Turbine and Generator user group events for end users to discuss common issues and learn about new developments.
www.imeche.org/STUG2017