

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

**SAVE
UP TO 15%
OFFER ENDS
21 OCTOBER 2016**

Institution of
**MECHANICAL
ENGINEERS**

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:



ETN



Society of
Operations
Engineers

EVENT PARTNERS:

topEngineer

EXHIBITORS:



SULZER

DURAG GROUP

HYTORC
Since 1947

OLYMPUS

Your Vision, Our Future

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

**TERMS AND
CONDITIONS
APPLY**

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

PROGRAMME

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

For the most up-to-date and detailed programme for the event, please visit:
www.imeche.org/GTUG2016

- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.

PROGRAMME

08:40 REGISTRATION AND REFRESHMENTS

09:10 CHAIR'S WELCOME AND OPENING REMARKS

Keith Watson, Consultant, Corelia

STRATEGIC MAINTENANCE AND COMPLIANCE

09:20 COMPLIANCE WITH THE INDUSTRIAL EMISSIONS DIRECTIVE AND THE MEDIUM COMBUSTION PLANT DIRECTIVE

David Graham, Technical Consultant, Uniper Technologies

09:45 LUBRICATING OIL: AN ENGINEERS PERSPECTIVE

Ian Webb, Head of IGT Product Support, Siemens Industrial Turbomachinery Ltd

10:10 NEW TECHNOLOGIES FOR REDUCING PLANT DOWN TIME, PROLONGING MAINTANCE SCHEDULES AND GENERATING COST BENEFITS

Karel Van Wijk, Director, Advanced Valve Solutions UK Limited

10:35 QUESTION AND ANSWER SESSION

10:50 NETWORKING REFRESHMENT BREAK

11:20 EXHAUST CASING INSULATION REPAIR SOLUTIONS

Jake Waterhouse, Director, DEKOMTE

11:45 ENHANCING OEM DESIGNS OF HOT GAS PATH COMPONENTS FOR IMPROVED CYCLE EXPECTATION, REPARABILITY, LIFE EXTENSION AND REDUCING THE COST OF OWNERSHIP

Rene Vijgen, Managing Director, Sulzer Gas Turbine Services

12:10 TITLE TO BE ANNOUNCED

Speaker to be announced

12:25 QUESTION AND ANSWER SESSION

12:40 NETWORKING LUNCH

GAS TURBINE AUXILIARY SYSTEMS

13:40 OTC VALVES: TWO SHIFT OPERATION POWER PLANTS

Karel Van Wijk, Director, Advanced Valve Solutions UK Limited

14:05 GAS TURBINE INLET COOLING OPTIONS TO MAXIMISE POWER OUTPUT IN RESPONSE TO THE NEW OPERATING DYNAMICS IN EUROPE

Speaker to be announced, AAF GB

14:30 QUESTION AND ANSWER SESSION

14:40 NETWORKING REFRESHMENT BREAK

15:10 ROUNDTABLE DISCUSSIONS: ADDRESSING KEY TECHNICAL ENGINEERING CHALLENGES

- What is the impact of the changing market conditions in Europe on engineers, and how can these challenges be addressed?
- How can engineers successfully manage and minimise plant risks?
- What are the most effective and cost-efficient methods for component lifetime assessment?
- How can efficiency and reliability of power plants be improved most resourcefully?

16:10 ROUNDTABLE FEEDBACK

16:30 CHAIR'S CLOSING REMARKS

16:40 END OF DAY TWO

WHO SHOULD ATTEND?

POWER SECTOR	OEMS, SUPPLIERS AND SUPPORT COMPANIES	OIL AND GAS, PROCESS
<ul style="list-style-type: none">• Power Stations Managers• Operations Managers• Engineering Managers• Maintenance Engineers• Technical Engineers• Power Plant Development Engineers	<ul style="list-style-type: none">• Contract Managers• Product Development Engineers• Field Service Engineers	<ul style="list-style-type: none">• 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.

Fees and charges	Early Bird Rate until 21 October 2016	Standard Rate
Member, IMechE/supporting organisation	£448 + VAT	£525 + VAT
Non-member	£540 + VAT	£635 + VAT
Student/Retired	£162 + VAT	£175 + VAT

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. The Institution is not

responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For the purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. The Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event's webpage as soon as possible.

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 7XG

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

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

PE DOWNLOAD THE PE APP

Access
the latest
engineering
news

www.imeche.org/peapp



Institution of MECHANICAL ENGINEERS

The Institution of Mechanical Engineers is a registered charity (no 206882)
VAT No GB29930493.

1 Birdcage Walk
Westminster
London
SW1H 9JJ

T +44 (0)20 7222 7899

www.imeche.org



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

The Institution of Mechanical Engineers organise over 120 events a year, including free-to-attend lectures as well as conferences, seminars, annual luncheons and dinners. Please visit www.imeche.org/events for the complete list of events.

Follow us on Twitter

twitter.com/imechevents