

HEAT RECOVERY STEAM GENERATOR USER GROUP 2017

SAVE 10%
OFFER ENDS
6 OCTOBER 2017

Institution of
**MECHANICAL
ENGINEERS**

Power Industries Division
Conference

21-22 November 2017
Nottingham Belfry Hotel, Nottingham

KEY SPEAKERS INCLUDE:

Stephen Kimpton, Mechanical Engineer
Centrica

Chris Ward, Lead Inspection Management Engineer
(Compliance)
RWE Generation Ltd.

Bob Anderson, Consultant
Competitive Power Resources Corporation

Syed Nabeel Jamali, Plant Performance Engineer
VPI Immingham

Mario Farrugia, Senior Lecturer,
Mechanical Engineering Department
University of Malta

SPONSORS:



SUPPORTING ORGANISATIONS:



EVENT PARTNER:



Save 10% before 6 October 2017

www.imeche.org/hrsg



HEAT RECOVERY STEAM GENERATOR USER GROUP 2017

21-22 NOVEMBER 2017, Nottingham Belfry Hotel, Nottingham

ENJOY PEER-REVIEWED TECHNICAL PRESENTATIONS AND LEARNING OPPORTUNITIES AT THIS YEAR'S HRSG USER GROUP.

Join the Heat Recovery Steam Generator User Group to understand how to keep your technology up-to-date and remain competitive in the energy market.

Find out how to enhance the efficiency and effectiveness of your heat recovery steam generation system through presentations from experts in the field. Discover how to better manage technical issues including problems with corrosion, inspection, design and maintenance.

This unique event provides a perfect forum to meet like-minded professionals, including boiler and heat recovery experts, plant engineers and HRSG development engineers. Attend this user group and join the conversation, share your experience and learn from industry thought-leaders.

KEY PROGRAMME HIGHLIGHTS:

- Gain insights into the management of fabricated T pieces operating in the creep range from **Centrica**
- Hear from **VPI Immingham** about HRSG operational performance optimisation using thermoflex model
- **Competitive Power Resources Corporation** share key causes of thermally induced HRSG tube failures
- Hear about the use of phased array ultrasonic testing of welds in small bore tubing from **RWE Generation Ltd** and **Uniper UK Ltd.**
- Learn about managing flexible operation of HRSGs from **Uniper Technologies**

ATTEND THIS EVENT TO:

- Take away valuable **lessons** about Heat Recovery Steam Generation from key organisations including **Uniper Technologies, Centrica, RWE Generation Ltd** and **VPI Immingham**
- **Join the conversation** and share your experience during interactive question and answer sessions and panel discussions
- Learn the latest **testing and inspection strategies** to take back to your organisation
- Gain unique insights into how to better **maintain and perform repairs** to your heat recovery steam generators
- **Network** with a diverse audience including energy providers, contractors and thought-leaders

NAME OF COMMITTEE:

Power Industries Division
Institution of Mechanical Engineers

ORGANISING COMMITTEE:

Chris Dometakis, Head of Engineering
Centrica Energy

Joanne Kehoe, Mechanical Engineering Consultant – Boiler Engineering
Uniper Technologies Limited

Dave Bogert, Senior Boiler Engineer
RWE Generation UK

Graham Sorbie, Engineer – Pressure Systems
SSE

Toby Lant, Pressure Systems Technical Authority
Centrica Distributed Energy and Power

Matthew Lee, Boiler, Aux and Structure Group Head
RWE

Thomas Speirs, Chief Engineer
Atkins

Alan Fitzpatrick, Risk Engineer
CNA Hardy Insurance Company

BOOK BY FRIDAY 6 OCTOBER 2017 AND SAVE 10%

WWW.IMECHE.ORG/HRSG

TERMS AND
CONDITIONS
APPLY

PROGRAMME

21 NOVEMBER 2017

08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS Bob Anderson, Consultant, Competitive Power Resources Corporation
REPAIRING AND MAINTAINING HRSG SYSTEMS	
09:15	ESB CASE STUDY: FAILURE OF HEADER ANTLERS ON THE HP SUPERHEATER AND IP ECONOMISER James Tobin, Boiler Specialist, ESB International
09:45	CUTTING THE COST OF MAINTENANCE BUT NOT THE QUALITY Stephen Kendrick, Director Service and Sales, Spiral Weld Limited
10:10	PENETRATION SEALS AND CASING HOT SPOT REPAIR Jake Waterhouse, UK Director, Dekomte De Temple Kompensator-Technik (UK) Ltd.
10:35	NETWORKING REFRESHMENT BREAK
NON-DESTRUCTIVE TESTING AND INSPECTION	
11:05	PHASED ARRAY ULTRASONIC TESTING OF WELDS IN SMALL BORE TUBING IN-LIEU OF RADIOGRAPHY Colin R. Brett, Inspection Management, Technical Head, Uniper UK Ltd. Chris Ward, Lead Inspection Management Engineer (Compliance), RWE Generation Ltd.
11:30	OBSERVATIONS ON HRSG TUBE MODULE WELD QUALITY Mark Taylor, Principal Engineer, Tetra Engineering (Europe)
11:55	QUESTION AND ANSWER SESSION FOR THE MORNING PRESENTATIONS
12:25	NETWORKING LUNCH
LATEST HRSG DESIGNS	
13:25	HRSG DESIGN FOR LARGE GAS TURBINES CLASS H Jean-François Galopin, Director of Technology VP, CMI Energy
13:50	THE STEAM GENERATOR FOR CCPP DK6: MORE THAN JUST A HRSG Detlef Simon, Head of Marketing and Sales, Standardkessel Baumgarte GmbH
14:15	HEAT RECOVERY STEAM GENERATION USING HEAT PIPES Joe Rosagro, Solutions Development Engineer, Spirax-Sarco Limited
14:40	HRSG DESIGN CONSIDERATIONS FOR MODERN HIGH STEAM TEMPERATURE CYCLE CCGT PLANT Steve Mould, Chief Engineer in Power Generation, WSP Parsons Brinckerhoff
15:05	NETWORKING REFRESHMENT BREAK
DEALING WITH CORROSION	
15:35	WHY DOES FLOW-ACCELERATED CORROSION REMAIN AS NUMBER ONE HRSG PROBLEM WORLDWIDE? Barry Dooley, Senior Associate, Structural Integrity Associates, Inc.
16:15	QUESTION AND ANSWER SESSION FOR THE AFTERNOON PRESENTATIONS
16:35	CHAIR'S CLOSING REMARKS
16:45	END OF DAY ONE
19:00	NETWORKING DINNER

REMEMBER TO BOOK YOUR PLACE FOR THE NETWORKING DINNER

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

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

PROGRAMME

22 NOVEMBER 2017

08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS Bob Anderson, Consultant, Competitive Power Resources Corporation
	CHEMISTRY: GUIDANCE, DAMAGE AND FAILURE
09:05	HRSG CYCLE CHEMISTRY UPDATE Barry Dooley, Senior Associate, Structural Integrity Associates, Inc.
09:45	DEW POINT CORROSION PREVENTION Imran Naqvi, Corrosion Engineer, Lake Corrosion Engineering
	CASE STUDIES ABOUT THE USER EXPERIENCE WITH HRSG
10:10	MANAGING FLEXIBLE OPERATION OF HRSGS: RECENT FINDINGS AND MITIGATIONS Stuart Simpson, Technical Head, Boiler Engineering, Uniper Technologies Simon Fenton, Technical Head, Pressure Systems Compliance, Uniper Technologies
10:35	MANAGEMENT OF FABRICATED T PIECES OPERATING IN THE CREEP RANGE Stephen Kimpton, Mechanical Engineer, Centrica
11:00	NETWORKING REFRESHMENT BREAK
11:30	ABERRANT GRADE 91 PIPEWORK: IMPLICATIONS FOR CREEP LIFE IN SERVICE Steve Brett, Consultant, Steve Brett Consultancy Limited
11:55	WHAT WILL METALLURGICAL ANALYSIS OF BOILER TUBES GIVE YOU? Alexandra Simmonds, Metallurgist, RINA Consulting
12:20	KEY CAUSES OF THERMALLY INDUCED HRSG TUBE FAILURES Bob Anderson, Consultant, Competitive Power Resources Corporation
13:00	QUESTION AND ANSWER FOR THE MORNING PRESENTATIONS
13:35	NETWORKING LUNCH
	IMPROVING PLANT PERFORMANCE
14:35	COMBINED CYCLE CALCULATIONS Mario Farrugia, Senior Lecturer, Mechanical Engineering Department, University of Malta
15:00	HRSG OPERATIONAL PERFORMANCE OPTIMISATION USING THERMOFLEX MODEL ON A RECENTLY UPGRADED AGP UNIT Syed Nabeel Jamali, Plant Performance Engineer, VPI Immingham
15:25	NETWORKING REFRESHMENT BREAK
15:55	QUESTION AND ANSWER FOR THE AFTERNOON PRESENTATIONS
16:10	THE FUTURE OF HRSG What is the future of HRSG and how is the technology expected to change? Panel Discussion <ul style="list-style-type: none">• How are other innovations in the energy industry affecting HRSG?• What will be the challenges with HRSG in the coming years and how can the energy industry face them?
16:50	CHAIR'S CLOSING REMARKS
16:55	END OF CONFERENCE

BOOK EARLY AND SAVE UP TO 10%
OFFER ENDS 6 OCTOBER 2017

**TERMS AND
CONDITIONS
APPLY**

WHO SHOULD ATTEND?

All Directors, Managers and Engineers who are involved in the following areas are strongly recommended to attend and benefit from this user group:

- Plant Engineering
- Asset Integrity

- Maintenance
- Inspections
- Safety and Risk Management
- Boiler Operation
- Engineering Development
- Performance and Efficiency

FEEDBACK FROM PREVIOUS EVENT:

“WELL ORGANISED AND INFORMATIVE CONFERENCE”

Project Engineer, Doosan Babcock

“INTERESTING AND RELEVANT REAL LIFE/REAL TIME EXPERIENCES SHARED, BOTH PROBLEMS AND SOLUTIONS FOR ALL TO SHARE AND BENEFIT”

Sales Manager, GE Power Services

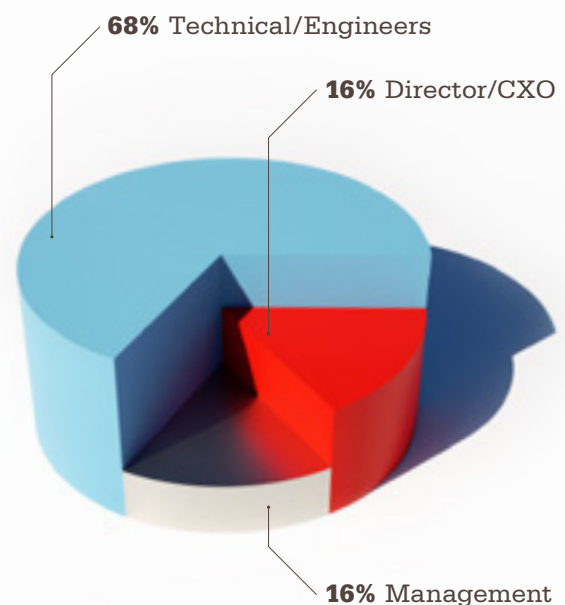
“GREAT OPPORTUNITY TO SHARE INFORMATION & EXPERIENCE & KEEP ABREAST OF DEVELOPMENTS”

Integrity Engineer, E.ON Technologies

“A GREAT CHANCE TO EXCHANGE EXPERIENCES WITH OTHER PEOPLE WORKING IN THE INDUSTRY”

Pressure Systems Engineer, Centrica Energy

SENIORITY OF ATTENDEES



SPONSORSHIP AND EXHIBITION 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 1309

E: sponsorship@imeche.org

BOOK BY FRIDAY 6 OCTOBER 2017 AND SAVE 10%
WWW.IMECHE.ORG/HRSG

TERMS AND
CONDITIONS
APPLY

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 Rates until 6 October 2017	Standard Rates
Member, IMechE/supporting organisation	£395 + VAT	£480 + VAT
Non-member	£470 + VAT	£569 + VAT
Student/Retired	£165 + VAT	£200 + VAT
Networking Dinner	£35 + VAT	£35 + VAT

THREE WAYS TO BOOK

- 1 Online:
www.imeche.org/hrsg
- 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 the booking form or email eventenquiries@imeche.org

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

Nottingham Belfry Hotel
Nottingham
NG8 6PY

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 1309
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

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



ANNUAL DINNER 2017

23 November 2017, London

The Institution of Mechanical Engineers Annual Dinner will take place at the Science Museum in London to celebrate the engineering profession.

www.imeche.org/annualdinner



NUCLEAR VENTILATION 2017

28-29 November 2017, Manchester

The only event of its kind that enables power industry professionals and engineering practitioners from all sectors of the nuclear community to stay abreast of developments in nuclear ventilation within the UK.

www.imeche.org/nuclearventilation2017

The Institution of Mechanical Engineers organises 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/imecheevents