CONVENTIONAL POWER BOILER USER GROUP 2016 THE LATEST DEVELOPMENTS IN FIRED BOILERS USED FOR POWER GENERATION



8-9 November 2016 The Nottingham Belfry, Nottingham

More details available at **www.imeche.org/ powerboilerusergroup2016**

KEY SPEAKERS INCLUDE:

Peter Spinney Director, Markets and Technology NeuCo **GE Power Solutions**

Mike Colechin Partnership Manager **Energy Technologies Institute**

William Hird Combustion System Engineer **WH Power Ltd**

Moore Holmes Technical Specialist – Pressure **British Engineering Services**

Power Industries Division **Conference**



EXHIBITORS:





EVENT PARTNERS:





BOOK YOUR PLACE TODAY **WWW.IMECHE.ORG/POWERBOILERUSERGROUP2016**

CONVENTIONAL POWER BOILER USER GROUP 2016 THE LATEST DEVELOPMENTS IN FIRED BOILERS USED FOR POWER GENERATION

8-9 November 2016 The Nottingham Belfry, Nottingham

THE POWER INDUSTRY IS CHANGING RAPIDLY, WITH THE UK GOVERNMENT ON A CLEAR CLOSURE PATH FOR COAL GENERATION PLANTS. TO MAINTAIN ELECTRICAL SUPPLY FOR THE UK, THE POWER INDUSTRY MUST REFLECT THIS CHANGE. THIS IS BY CONTINUING TO SAFELY AND RELIABLY OPERATE EXISTING COAL FIRED PLANTS TO END OF LIFE AND BY BUILDING NEW OR CONVERTING EXISTING BOILERS TO RUN ON OTHER FORMS OF FUEL.

The Conventional Power Boiler User Group is a must-attend event to gain insights into all the key issues relating to the design, operation and maintenance of conventional (i.e. non HRSG) boilers used for power generation.

Attendees will take away key knowledge from leading operators, equipment suppliers and experts. Explore the potential future of energy in the UK, the use of waste and biomass fuels, maintaining and improving plant reliability, ensuring performance and managing risk.

KEY TOPICS INCLUDE:

- Hear the latest strategies from the Energy Technologies Institute for transitions to a low carbon energy system
- Understand neural network and model predictive controllers for optimised plant performance from **GE Power Solutions**
- Learn from **FCC Environment** about the design and operation of a modern 170kt Energy From Waste (EFW) plant
- Benefit from unique insights from **Uniper Technologies Ltd** into the changing boiler integrity issues over the past 60 years and current challenges
- Understand the challenges in power plant conversion from coal burning to biomass from **Doosan Babcock**
- **Hitachi Zosen Inova** highlight and share repair techniques that will enable an ageing power plant to continue to operate

ATTEND THE USER GROUP TO:

- Benefit from outstanding peer reviewed presentations from those at the cutting edge of industry
- Ensure compliance with regulatory legislation through better understanding and best practice
- Learn about the different approaches to modification, conversion, upgrading and retrofitting of power plant technologies
- Network with industry thought leaders and budget holders involved with the design, construction, operation and maintenance of power plant technologies
- Gain insights into the technologies and techniques being implemented

ORGANISING COMMITTEE

Power Industries Division The Institution of Mechanical Engineers

MEMBER CREDITS:

Stuart Simpson **Uniper Technologies**

Alan Fitzpatrick

CNA Europe

David Waldron **GE Power**

Matthew Lee **RWE Npower**

Bill Hird

SKM

Mark Upton **Doosan**

Richard Walton **SSE**

Steve Brown British Engineering Services

Tom Speirs **Atkins**

PROGRAMME

DAY 1		
08:30	REGISTRATION AND REFRESHMENTS	
09:00	CHAIR'S WELCOME AND OPENING REMARKS	
	ENVIRONMENTAL COMPLIANCE AND EMISSIONS	
09:10	KEYNOTE ADDRESS: TRANSITIONS TO A LOW CARBON ENERGY SYSTEM M Colechin, Energy Technologies Institute	
	DESIGN, OPERATION AND MAINTENANCE	
09:50	AN INTRODUCTION TO HOUSEHOLD WASTE BOILER DESIGN W Hird, WH Power Ltd	
10:15	LINCOLNSHIRE EFW: DESIGN AND OPERATION OF A MODERN 170KT ENERGY FROM WASTE PLANT J Schaper, FCC Environment	
10:40	QUESTION AND ANSWER SESSION	
10:55	NETWORKING REFRESHMENT BREAK	
11:25	EXPLOSIVE CLEANING FOR MAINTENANCE AND EFFICIENCY GAINS IN HIGH FOULING FUEL BOILER ENVIRONMENTS R Vogel, KRR Prostream	
11:50	IMPROVED FIELD WELDING TECHNOLOGY FOR ADVANCED HIGH ENERGY PIPING MATERIALS P Amador, AZZ Inc.	
12:15	QUESTION AND ANSWER SESSION	
12:30	NETWORKING LUNCH	
	SAFETY AND RELIABILITY	
13:30	FUELLING INTEGRITY CONCERNS IN MODERN BOILER PLANT CJ Davis, PJ James and DJ Marks, Uniper Technologies Limited	
13:55	INCREASING LIFE AND RELIABILITY OF EXPANSION JOINTS IN AGING CONVENTIONAL BOILER PLANTS J Waterhouse, DEKOMTE	
14:20	INVESTIGATION AND MITIGATION OF THE ROOT CAUSE OF MAIN STEAM PIPE COMPONENT FAILURES J Horton, Frazer-Nash Consultancy	
14:45	QUESTION AND ANSWER SESSION	
14:55	NETWORKING REFRESHMENT BREAK	
15:25	UMBRELLA SNCR DEVELOPMENT M Re, GE Power	
	PERFORMANCE AND EFFICIENCY	
15:50	NEURAL NETWORK AND MODEL PREDICTIVE CONTROLLERS FOR OPTIMISED PLANT PERFORMANCE P Spinney, GE Power Solutions	
16:15	QUESTION AND ANSWER SESSION	
16:25 PANEL DISCUSSION	COST EFFICIENT SOLUTIONS FOR ENSURING HIGH PERFORMANCE AND EFFICIENCY	
16:55	CHAIR'S CLOSING REMARKS	
17:00	CLOSE OF DAY ONE	
19:30	NETWORKING DINNER AND DRINKS RECEPTION	

For the most up-to-date and detailed programme for the event, please visit: www.imeche.org/powerboilerusergroup2016

• This programme is subject to change.

• The Institution is not responsible for the views or opinions expressed by individual speakers.

PROGRAMME

DAY 2		
08:30	REGISTRATION AND REFRESHMENTS	
09:00	CHAIR'S WELCOME AND OPENING REMARKS	
	STATUTORY COMPLIANCE	
09:10	KEYNOTE ADDRESS: POSTPONEMENT OF EXAMINATION UNDER THE PRESSURE SYSTEMS SAFETY REGULATIONS (PSSR) M Holmes, British Engineering Services	
09:50	SKILLS AND DOCUMENTATION FOR PRESSURE SYSTEMS INTERVENTIONS J A Brown, Stainsby Brown Associates	
10:15	QUESTION AND ANSWER SESSION	
	MODIFICATION, UPGRADE AND REPLACEMENT	
10:30	LIFE EXTENSION BY BIOMASS CONVERSION G Welford and I Graham, Doosan Babcock	
10:55	NETWORKING REFRESHMENT BREAK	
11:25	PLASMA IGNITOR DEVELOPMENT G Heinz, GE Power Solutions	
11:50	YEONGDONG – AN INNOVATIVE BIOMASS CONVERSION SOLUTION M Kaliyaperumal, Doosan Babcock and R Panesar, Doosan Babcock	
12:15	ENERGY FROM WASTE PLANT'S SECOND LIFE R M Suesstrunk, Hitachi Zosen Inova	
12:40	QUESTION AND ANSWER SESSION	
12:55	NETWORKING LUNCH	
	INSURANCE	
13:55	GETTING ENERGY FROM WASTE PLANTS INSURED J Douglas, Chubb	
14:20	DO YOU NEED INSURANCE? A Fitzpatrick, CNA Hardy	
14:45	QUESTION AND ANSWER SESSION	
14:55	NETWORKING REFRESHMENT BREAK	
15:25 PANEL DISCUSSION	CONVERSION TO BIOMASS: STRATEGIES FOR FUTURE FUELS	
15:55	CHAIR'S CLOSING REMARKS	
16:00	END OF CONFERENCE	

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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
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- Deliver high-profile and relevant brand exposure

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- 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

WHO SHOULD ATTEND?

ALL ENGINEERS INVOLVED IN THE DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE (INCLUDING USERS, EQUIPMENT SUPPLIERS AND CONSULTANTS) OF CONVENTIONAL (NON-HRSG) BOILERS USED FOR POWER GENERATION WILL STRONGLY BENEFIT FROM THIS CONFERENCE. MANAGERS AND ENGINEERS WHO ARE INVOLVED IN THE FOLLOWING AREAS ARE STRONGLY RECOMMENDED TO ATTEND AND BENEFIT FROM THE USER GROUP:

- Pressure Systems
- Combustion/Fuel Systems
- Boiler Auxiliary Plant
- Flue Gas Cleaning
- Integrity
- Quality
- Asset Risk
- Materials
- Development and Technology

FEEDBACK FROM LAST USER GROUP

OVER **90%** OF ATTENDEES

WOULD RECOMMEND A COLLEAGUE OR PEER TO JOIN THE CONVENTIONAL POWER BOILER USER GROUP

6677

A good opportunity to meet and learn from peers within the industry

Project Engineer, Doosan Babcock

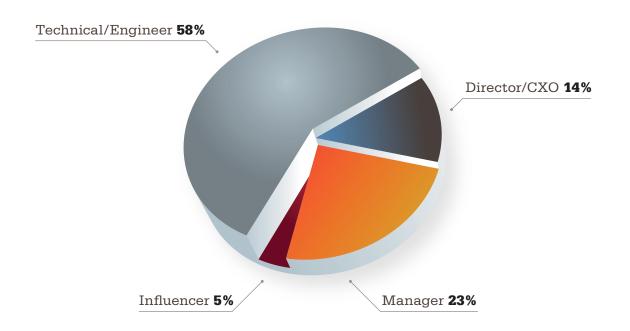
6677

An excellent opportunity to meet & share problems with those who also share responsibility for addressing them Head of Engineering-Technical Services, RWE

6677

Good blend of technical, commercial and legislative presentations Technical Manager, Diamond Power

WHO YOU CAN MEET



BOOK YOUR PLACE TODAY www.imeche.org/powerboilerusergroup2016

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.

Delegate Type	Standard Rate
Member, IMechE/supporting organisation	£489 + VAT
Non-member	£589 + VAT
Student/Retired	£159 + VAT

Group booking discounts are available. Contact us for more information.

THREE WAYS TO BOOK

1 Online

www.imeche.org/ powerboilerusergroup2016

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

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 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 advertised 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 Mellor's Way Nottingham NG8 6PY

SPONSORSHIP & EXHIBITION OPPORTUNITIES

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BENEFITS OF SPONSORING

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- Raise awareness of your operation
- Improve perception of your brand
- Influence other organisations' spending plans

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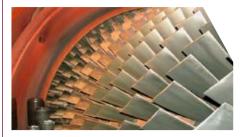
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FORWAR THINKIN

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



OWER GENERATION GAS 'URBINE USER GROUP 2016

6-7 December 2016 The Thinktank, Birmingham

Aimed at all users of Gas Turbines, this event will enable discussion of common problems and issues, exchange ideas, identify potential solutions and learn about new developments.

www.imeche.org/GTUG2016



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 with keynote address from The Rt Hon Patrick McLoughlin

www.imeche.org/annualdinner2016

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



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