

# STEAM TURBINE AND GENERATOR USER GROUP 2015

Institution of  
**MECHANICAL  
ENGINEERS**

25-26 March 2015  
Warwick Conferences, The University of Warwick, Coventry  
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# STEAM TURBINE AND GENERATOR USER GROUP 2015

25-26 March 2015

Warwick Conferences, The University of Warwick, Coventry



## THE TWO-DAY STEAM TURBINE AND GENERATOR USER GROUP 2015 IS THE NEXT IN THIS POPULAR SERIES OF THE INSTITUTION'S POWER GENERATION USER GROUPS.

This event will enable those involved in the management, operation and maintenance of steam turbines and generators to discuss common problems and issues, exchange ideas, identify potential solutions and learn about new developments.

The Institution's User Groups encourage open debate and problem solving, using informal presentations and discussion forums to promote networking and sharing experiences among the steam turbine generator community.

### BENEFITS OF ATTENDANCE:

- **Learn** from real-life case studies illustrating project experience and best practice
- **Improve** the performance of your plant
- **Discover** updates on the latest industry developments and technologies
- **Hear** advice from leading specialists on a wide number of issues
- **Understand** how to manage and minimise plant risks

### KEY TOPICS COVERED INCLUDE:

- Plant operation and ownership
- Turbine and generator failures, case studies and repair methods
- Steam turbine technologies
- Generator technologies
- Turbine and generator auxiliary systems and condensers
- Turbine overhauls and life extension
- Generator overhauls and life extension
- Plant condition monitoring and control
- Industrial/CHP/renewables turbine generators
- Steam turbine and generator projects
- Steam turbine last stage blading

## SPONSORSHIP AND EXHIBITION OPPORTUNITIES

### GET INVOLVED

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# PROGRAMME

DAY 1

WEDNESDAY 25 MARCH 2015

08:30 REGISTRATION AND REFRESHMENTS

09:00 CHAIR'S WELCOME AND INTRODUCTION

## SESSION 1 - PLANT OPERATION AND OWNERSHIP

09:10 **KEYNOTE: HIGH LEVEL POWER INDUSTRY INSURANCE**  
Don Schubert, Senior Vice President, Marsh Energy Practice

09:30 **POWER PLANT PERFORMANCE ASSESSMENT PROCESS**  
Tim Eastwood, Business Development Director, Alstom

09:50 **BLACKBURN MEADOWS RENEWABLE ENERGY PLANT - CHALLENGES DURING CONSTRUCTION AND COMMISSIONING OF THE STEAM TURBINE AND GENERATOR SYSTEMS**  
Paul Housley, Steam Turbine Engineer, ETG, EON

10:10 Q&A SESSION

10:30 **NETWORKING REFRESHMENT BREAK**

## SESSION 2 - PARALLEL SESSIONS

### 2A STEAM TURBINE TECHNOLOGIES

11:00 **RECENT ADVANCES IN COMBINED CYCLE STEAM TURBINE TECHNOLOGY**  
Rainer Quinkertz, Product Manager, Siemens

11:20 **FORCED MISTUNING APPLIED TO FREE-STANDING LAST STAGE BLADES OF THE CP2-1300 MW LOW PRESSURE STEAM TURBINES**  
Sébastien Roques, Senior Engineer, EDF

11:40 **LAST STAGE STEAM TURBINE BLADE VIBRATION ASSESSMENT AND DESIGN MODIFICATIONS TO ELIMINATE THE CRITICAL WHEEL RESONANCE**  
Mehran Zanjani, Structural Analysis Engineer, ETG, EON

12:00 **STEAM TURBINE LOW PRESSURE LAST-STAGE BLADE ROOT NON-DESTRUCTIVE TESTING INSPECTIONS - PRACTICAL EXPERIENCE**  
Paul Crowther, Group Head - Inspection Management, RWE npower

### 2B GENERATOR TECHNOLOGIES

**LATEST GENERATOR TECHNICAL DEVELOPMENTS**  
Andrew Crosby, Section Head, Generator Engineering  
Scott Robinson, Generator Frame Owner, Siemens

**SHAFT-LINE MODELS AND TORSIONAL NATURAL FREQUENCIES FOR A GRID SUB-SYNCHRONOUS RESONANCE STUDY**  
Nik Zelenovic, Principal Engineer, Alstom

**A CASE STUDY OF RETAINING RING CRACKS FROM GRID TRANSIENTS**  
Neil Kilpatrick, Principal Expert Engineer, Siemens

**CONVERSION OF ROTATING EXCITATION SYSTEMS TO STATIC**  
Doug Cope, Electrical Engineer, Excitation and Engineering Services

12:20 Q&A SESSION

12:40 **NETWORKING LUNCH**

**SESSION 3 - TURBINE DEGRADATION, FAILURES AND CASE STUDIES**

- 13:40**    **STRATEGIC SPARES INVESTMENT**  
Joe Eckersley, Strategic Spares Manager, EDF Energy
- 14:00**    **UNDERSTANDING VARNISH BUILD-UP MECHANISMS ON STEAM TURBINE AND GENERATOR LUBRICANTS**  
Jo Ameye, European Sales and Marketing Manager, Fluitec
- 14:20**    **IMPORTANT ASPECTS OF LP TURBINE OPERATION**  
John Gilroy, Senior Design Engineer, Siemens
- 14:40**    **IRONBRIDGE LP TURBINE LAST ROW BLADE FAILURE**  
Ben Morrell, Rotating Plant Engineer, ETG, EON
- 15:00**    **Q&A SESSION**
- 15:20**    **NETWORKING REFRESHMENT BREAK**

**SESSION 4 - GENERATOR DEGRADATION, FAILURES AND CASE STUDIES**

- 15:50**    **TOP TEN GENERATOR FAILURES AND WHAT YOU CAN DO TO PREVENT THEM**  
Bill Moore, Director, National Electric Coil
- 16:10**    **IMPACT OF NEW FLEXIBLE LOAD OPERATION AND GRID CODES ON TURBINE GENERATORS FOCUSING ON STATOR END WINDINGS**  
Thorsten Krol, Generator Business Development and Marketing, Siemens
- 16:30**    **GENERATOR FAULTS AND FAILURES - UTILITY/INSURERS' PERSPECTIVE**  
Don Shubert, Senior Vice President, Marsh Energy Practice
- 16:50**    **Q&A SESSION**
- 17:10**    **CHAIR'S CLOSING REMARKS**
- 17:20**    **CLOSE OF DAY ONE**
- 19:00**    **NETWORKING DINNER**

**DAY 2****THURSDAY 26 MARCH 2015**

- 08:30**    **REGISTRATION AND REFRESHMENTS**
- 09:00**    **CHAIR'S OPENING REMARKS**

**SESSION 5 - MATERIALS AND INTEGRITY ANALYSIS**

- 09:10**    **MATERIALS FOR LARGE STEAM TURBINES**  
Geoff Horseman, Chief Turbine Engineer, Torsten-Ulf Kern, Principal Engineer Materials, Siemens  
Doug Gass, Section Manager Materials and Performance Testing, Siemens
- 09:30**    **APPLICATION OF A NEW FRACTURE - MECHANICS BASED CREEP - FATIGUE PROCEDURE FOR STEAM TURBINE ROTORS**  
Henning Almstedt, Principal Expert, Siemens  
Shilun Sheng, Advisory Expert, Siemens
- 09:50**    **THE INTERACTION BETWEEN SHOT PEENING AND EROSION NOTCHES ON LAST STAGE BLADE AEROFOIL SECTIONS: STRESS DISTRIBUTIONS AND FATIGUE RESISTANCE**  
Katherine Soady, Structural Analysis Engineer, ETG, EON
- 10:10**    **Q&A SESSION**
- 10:20**    **NETWORKING REFRESHMENT BREAK**

## SESSION 6 - TURBINE GENERATOR AUXILIARY SYSTEMS

- 11:00** **BASIC INTRODUCTION TO STEAM TURBINE GOVERNING REQUIREMENTS**  
Stuart Rowe, Manager Controls and Auxiliaries, Alstom
- 11:20** **HYDRAULIC CONTROLS AND PROTECTION UPGRADES FOR GEC-ALSTOM STEAM TURBINES**  
Wolfgang Warmuth, Technical Sales Manager, Siemens
- 11:40** **MAIN BOILER FEED PUMP TURBINE PIPEWORK REPLACEMENT**  
Bob Thomson, Project Manager, EDF
- 12:00** **Q&A SESSION**
- 12:20** **NETWORKING LUNCH**

## SESSION 7 - PARALLEL SESSION

### 7A TURBINE OVERHAULS AND LIFE EXTENSION

- 13:20** **EVENT RECOVERY – MANAGING AN UNPLANNED SHUTDOWN**  
August Pandey, Turbine and Ancillaries Plant Manager, EDF
- 13:40** **DRAX IP RETROFIT - IDEA CONCEPT TO PROJECT INSTALLATION**  
Richard Armstrong, Site Manager, Siemens  
Mark Simmonds, Turbine Engineering, Drax Power
- 14:00** **OLKILUOTO LP TURBINE EXHAUST PERFORMANCE ENHANCEMENT PROGRAMME**  
Phil Hemsley, Engineering Technology Manager, Alstom

### 7B GENERATOR INTEGRITY MANAGEMENT

- THE INFLUENCE OF AUXILIARY SYSTEMS ON MAIN GENERATOR AVAILABILITY AND RELIABILITY**  
David Thompson, Plant Check-Up Manager, Alstom
- OFF-LINE PARTIAL DISCHARGE MEASUREMENTS ON LARGE GENERATION PLANT**  
Chris Burtle, Senior Electrical Diagnostics Engineer, Siemens
- ABNORMAL OPERATION OF GENERATORS**  
Steve Mitchell, Lead Electrical Machines Engineer, RWE Generation UK

**14:20** **Q&A SESSION**

**14:40** **NETWORKING REFRESHMENT BREAK**

## SESSION 8 - INSPECTION AND MONITORING

- 15:10** **SMARTSIGNAL TECHNOLOGY: OVERVIEW AND USE BY SSE MONITORING CENTRE**  
John Twiddle, Equipment Performance Centre Manager, SSE  
Mark Bate, Solution Consultant, Smart Signal
- 15:30** **VIBRATION MEASUREMENTS OF TURBOGENERATOR STATOR END-WINDINGS**  
Peter Arend, Principal Engineer, Alstom
- 15:50** **EXPERIENCE WITH ADVANCED NDT METHODS IN TURBINE FIELD SERVICE**  
Hans Rauchenbach, Head of NDT Laboratory, Siemens  
Michael Opheys, NDT Engineer, Siemens
- 16:10** **Q&A SESSION**
- 16:30** **CLOSING REMARKS**
- 16:40** **CLOSE OF USER GROUP**

Find out more about our speakers at [www.imeche.org/events/C6170](http://www.imeche.org/events/C6170)

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

### Organising committee:

- Ben Adams, GDF Suez
- Nigel Carter, GDF Suez
- Paul Cooper, Alstom Power
- Alain Foote, Alstom Power
- Geoff Horseman, Siemens
- Andrew Laycock, Centrica Energy
- Richard Martin, Turbine Engineering Consultants Ltd
- Matthew Patch, SSE Engineering Centre
- Ian Rowntree, E.ON New Build and Technology Limited
- Richard Stewart, EDF Energy
- Dave Wallis, Rendcomb Consultancy Limited



## **SPEAKERS AND CONTRIBUTORS A-Z**

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FLUITEC

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**RICHARD ARMSTRONG**  
SITE MANAGER, SIEMENS

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# BOOKING FORM

EVENT CODE: C6170AB

**EARLY BIRD ENDS 23 JANUARY 2015**

## STEAM TURBINE AND GENERATOR USER GROUP 2015

25-26 March 2015  
Warwick Conferences,  
The University of Warwick,  
Coventry CV4 7AL

**REGISTRATION** Please complete in capitals.

Family Name	Title (Mr, Mrs, Miss)
First Name	Job Title
Membership No	Institution
Name of Organisation (for name badge)	
Address for correspondence	
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Postcode	
Contact Telephone	
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Do you have any special requirements?	

How did you hear about this event?  Direct mail  Website  Colleague  Other

We would like to keep you informed of relevant services that may be of benefit to you. Please tick the boxes below to let us know what you're interested in:

- Events and training opportunities  
 News and updates from the Institution  
 Services and offers from our preferred partners

**FEES AND CHARGES** Please complete the appropriate box.

Registration fees include entry to the sessions, refreshments and lunch.

**All prices include accommodation for the night of 25 March at the University of Warwick. If you require additional accommodation please contact us at [eventenquiries@imeche.org](mailto:eventenquiries@imeche.org)**

	<b>EARLY BIRD RATE</b> Before 23 January 2015	<b>STANDARD RATE</b>	<b>TOTAL</b>
Member, Institution of Mechanical Engineers	£489.50+VAT	£575.00+VAT	£
Member, supporting organisation	£489.50+VAT	£575.00+VAT	£
Non-member	£609.50+VAT	£717.00+VAT	£
Student/retired	£168.30+VAT	£198.00+VAT	£

- Please tick if you would like to attend the complimentary User Group Dinner. 25 March 2015 at 19:00, University of Warwick.

Please indicate any dietary requirements.

### PAYMENT DETAILS

**Payment must accompany this registration form. Registration will be confirmed only on receipt of full payment.**

#### PLEASE INDICATE METHOD OF PAYMENT:

- Cheque** Cheques should be made payable to IMechE and crossed. Please note international delegates may pay only by credit card, BACS or banker's draft. A copy of the draft must accompany this form. It is the delegate's responsibility to pay any bank charges.
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Card type:  Visa  MasterCard (please note we cannot accept American Express, Diners Club or Maestro)  
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Please inform us of any special requirements, ie. dietary or access, on the relevant section of this form.

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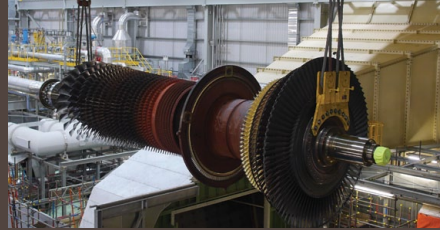


19 March 2015  
Edinburgh

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[www.imeche.org/events/S6181](http://www.imeche.org/events/S6181)



20-21 May 2015  
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Share operational experiences and best practice in the operation and maintenance of Gas Turbines across all OEMs.

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