

NUCLEAR VENTILATION 2019

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Institution of
**MECHANICAL
ENGINEERS**

26-27 November 2019
Old Trafford, Manchester

Nuclear Power Committee, Power Industries
Division
Conference

KEY SPEAKERS INCLUDE:

Sean Emery, Building Services Engineering Group Leader
and Engineering Plant Manager
UKAEA

Tomasz Staruzyk, Mechanical HVAC Engineer, Balance of
Nuclear Island Design Authority Hinkley Point C, Nuclear
New Build
EDF Energy Ltd

Mike Golden, Senior Mechanical Engineer
Sellafield Ltd.

Tom Stanley, HVAC Engineer T31S01&2 SOEP
EDF Energy Ltd.

Stephen Hingston, Principal Ventilation Engineer
AWE

Andrew Hamilton, Project Engineer
Dounreay Site Restoration Limited



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NUCLEAR VENTILATION 2019

26-27 November 2019, Old Trafford, Manchester

DON'T MISS THE 9TH EDITION OF THE NUCLEAR VENTILATION CONFERENCE ON 26-27 NOVEMBER 2019. THIS IS THE ONLY EVENT OF ITS KIND IN THE UK AND PROVIDES A UNIQUE OPPORTUNITY TO STAY ABREAST OF THE LATEST DEVELOPMENTS AND PROJECTS IN NUCLEAR VENTILATION.

Learn from **regulators, site owners** and **contractors** including the Office for Nuclear Regulation (ONR), Dounreay Site Restoration Limited (DSRL), National Nuclear Laboratory (NNL), Magnox, Sellafield, EDF Energy and other thought leaders in the nuclear industry. Find out about standards and solutions to challenges in key areas such as operational plants, decommissioning and containment.

Ventilation experts and related nuclear engineers will greatly benefit from **technical insights, best practice** and **engineering case studies** discussed at this two-day conference. The programme is designed as a journey, progressively moving towards more and more challenging aspects of nuclear ventilation projects and thus offering great **learning opportunities suitable for different experience levels.**

Join the conversation about current issues in the industry during panel sessions and contribute to shaping the future of nuclear ventilation. **The Ventilation Dinner and Drinks Reception** are an additional occasion to forge valuable relationships for yourself and your company.

ORGANISING COMMITTEE:

Power Industries Division
Institution of Mechanical Engineers.

MEMBER CREDITS:

Gordon Tait, Senior Project Manager
Dounreay Site Restoration Limited

Roger May, Magnox
Retired

Bernard Swinnerton
Nuclear Ventilation Centre of Expertise Lead,
Sellafield

ATTEND THIS CONFERENCE TO:

- Take away invaluable lessons about nuclear ventilation from key organisations including **ONR, NNL, Sellafield Ltd., Magnox, EDF Energy Ltd.** and **DSRL**
- **Network** with site owners, contractors, regulators and solutions providers
- **Join the conversation** during question and answer sessions and panel discussions
- **Learn about crucial challenges, developments and projects** in nuclear ventilation in order to keep your strategy and systems up-to-date
- **Access valuable networking opportunities** by taking part in the dinner and drinks reception
- **Establish new business contacts** and reconnect with established peers

KEY PROGRAMME HIGHLIGHTS:

- Gain unique insights on regulatory expectations relating to ventilation systems and decommissioning from **Office for Nuclear Regulation**
- **EDF Energy Ltd.** and **Magnox** discuss the ventilation systems for their on-site waste storage facilities
- Learn from **Sellafield Ltd.** about the recent testing and specification of vortex amplifiers for depression control of glove boxes on nuclear sites
- **AWE** discuss ageing HEPA filters and complex ventilation systems and their impact on operability
- Hear about dealing with the particulate and fume challenge from laser cutting for nuclear decommissioning from **National Nuclear Laboratory**
- Enhance your understanding of nuclear grade HEPA filter media from **Lydall**
- Listen to **Dounreay Site Restoration Limited** discuss their temporary ventilation protocols and their approach to address ventilation challenges on legacy plants

[WWW.IMECHE.ORG/
NUCLEARVENTILATION](http://WWW.IMECHE.ORG/NUCLEARVENTILATION)

BOOK YOUR PLACE TODAY

TERMS AND
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PROGRAMME

TUESDAY 26 NOVEMBER 2019

- 08:30 REGISTRATION AND REFRESHMENTS
- 09:00 **CHAIR'S OPENING REMARKS**
- 09:10 **KEYNOTE: REGULATORY EXPECTATIONS RELATING TO VENTILATION SYSTEMS AND DECOMMISSIONING**
Ian Davies, Mechanical Engineering Specialist Inspector – Nuclear Safety, Office for Nuclear Regulation
- 09:40 **QUESTION AND ANSWER SESSION**
- SPECIFICATION AND PERFORMANCE OF VENTILATION PLANT**
- 09:45 **UPDATE ON UK NUCLEAR INDUSTRY VENTILATION ENGINEERING GUIDES AND STANDARDS**
Bernard Swinnerton, Senior Mechanical Engineer, Sellafield Ltd
- 10:10 **VORTEX AMPLIFIERS (VXA) TESTING AND SPECIFICATION**
Michael Golden, Senior Ventilation & Building Services Engineer, Sellafield
- 10:35 **QUESTION AND ANSWER SESSION**
- 10:45 NETWORKING REFRESHMENT BREAK
- 11:15 **ABATEMENT HEPA FILTER EFFICIENCY MEASUREMENT AUDITING**
Grant Hall, Senior Design Engineer, AWE
- VENTILATION FOR DECOMMISSIONING AND TEMPORARY CONTAINMENTS**
- 11:40 **LASER CUTTING FOR NUCLEAR DECOMMISSIONING: PARTICULATE AND FUME CHALLENGE**
Jonathan Dodds, Technical Manager, National Nuclear Laboratory
- 12:05 **TEMPORARY VENTILATION PROTOCOLS AT DOUNREAY**
Gordon Tait, Senior Project Manager, Dounreay Site Restoration Ltd.
- 12:30 **QUESTION AND ANSWER SESSION**
- 12:45 NETWORKING LUNCH
- 13:45 **KEYNOTE: APPLICATION OF AIRTIGHTNESS TO HEALTHCARE BUILDINGS**
Blanca Beato-Arribas, Microclimate Team Leader, BSRIA
- 14:10 **QUESTION AND ANSWER SESSION**
- INNOVATION IN FILTRATION**
- 14:15 **WHAT SHOULD YOU EXPECT FROM A NUCLEAR HEPA FILTER MEDIA?**
Christian Desquilles, Applications Manager Europe, Lydall
- 14:35 **HIGH STRENGTH GLASS FIBRE HEPA FILTERS FOR THE UK MARKET**
Alun Williams, Senior Engineer, Energy, Porvair Filtration Group
Kevin Ward, Business Manager, Nuclear Services, Porvair Filtration Group
- 14:55 **QUESTION AND ANSWER SESSION**
- 15:05 **PANEL DISCUSSION: IMPROVING FILTER PERFORMANCE**
Chair: Bernard Swinnerton, Sellafield
Panellists: Grant Hall, Senior Design Engineer, AWE, Alun Williams, Senior Engineer, Energy, Porvair, Mike Vinson, Technical Support Manager, Camfil Air Filtration and Tom Stanley, HVAC Engineer T31S01&2 SOEP, EDF-Energy
- Overview of current 'general use' glass fibre HEPA filters in UK nuclear market
 - Practicalities of introducing high strength glass fibre media into HEPA filters
 - Other options for improved performance/lifetime of HEPA filters for nuclear
- 15:35 NETWORKING REFRESHMENT BREAK
- REACTOR VENTILATION**
- 16:05 **SOLUTIONS FOR FILTERED PRESSURE RELIEF IN JAPAN**
Felix Sassen, Acting Director Engineering CoE Germany, Westinghouse Electric
- 16:30 **HVAC SYSTEMS AND NUCLEAR SAFETY OF EPR**
Tomasz Staruzyk, Mechanical HVAC Engineer, EDF Energy
- 16:55 **INTRODUCTION OF HVAC SYSTEMS FOR NUCLEAR ISLAND IN UK HPR1000**
Eddy Liu, HVAC Engineer, China General Nuclear Power Corporation
- 17:20 **QUESTION AND ANSWER SESSION**
- 17:30 **CHAIR'S CLOSING REMARKS**
- 17:35 END OF DAY ONE
- 17:45 DRINKS RECEPTION
- 19:00 DINNER – REGISTRATION REQUIRED

PROGRAMME

WEDNESDAY 27 NOVEMBER 2019

08:30	REGISTRATION AND REFRESHMENTS
09:00	CHAIR'S OPENING REMARKS
	VENTILATION FOR WASTE STORAGE FACILITIES
09:10	KEYNOTE: 'PROTECTING THE INVESTMENT': THE INTERIM STORAGE OF RADIOACTIVE WASTE PACKAGES IN THE UK Chris Naish, Waste Management Specialist, Radioactive Waste Management, Nuclear Decommissioning Authority Richard Hardy, Engineering Manager, Radioactive Waste Management, Nuclear Decommissioning Authority
09:40	QUESTION AND ANSWER SESSION
09:45	VENTILATION OF INTERIM STORAGE FACILITIES Gordon Cheung, Mechanical Engineer Process & Environment, Magnox Ltd.
10:10	SIZEWELL B DRY FUEL STORAGE PROCESS VENTILATION Tom Stanley, HVAC Engineer T31S01&2 SQEP, EDF Energy
10:35	QUESTION AND ANSWER SESSION
10:45	NETWORKING REFRESHMENT BREAK
	AGEING SYSTEM MANAGEMENT
11:15	LIVING WITH AN AGEING AND COMPLEX VENTILATION SYSTEM Jon Verrill, Engineering Sites and Assets, AWE John Goodhead, Facility Engineer/Task Manager, AWE
11:40	AGEING HEPA FILTERS WITHIN THE NUCLEAR INDUSTRY Stephen Hingston, Principal Ventilation Engineer, AWE
12:05	A NEW APPROACH TO RECTIFY CELL FILTRATION DEFICIENCIES Andrew Hamilton, Project Engineer, Dounreay Site Restoration Ltd.
12:30	QUESTION AND ANSWER SESSION
12:45	NETWORKING LUNCH
	DESIGN & QUALIFICATION OF PLANT FOR NUCLEAR HVAC
13:45	EQUIPMENT QUALIFICATION OF HVAC PLANT FOR THE NUCLEAR INDUSTRY Andy Coleman, Design Engineer, Atkins
14:10	COMPLYING WITH BS EN CODES FOR NUCLEAR FIRE DAMPER INSTALLATIONS Matt McDermott, Senior Ventilation Engineer, Sellafeld Ltd
14:35	GLOVEBOX FILTRATION: NEW STANDARDS FOR ALPHA PARTICLE CONTAINMENT Mike Vinson, Technical Support Manager, Camfil M.C. Air Filtration
15:00	QUESTION AND ANSWER SESSION
15:15	NETWORKING REFRESHMENT BREAK
	THE WAY FORWARD
15:45	F-GASES AND GLOBAL WARMING – REFRIGERANTS FOR NUCLEAR HVAC SYSTEMS Chris Tuthill, Chief Engineer, Atkins
16:10	REALISING NUCLEAR FUSION, AMONG OTHER THINGS Sean Emery, Building Services Engineering Group Leader and Engineering Plant Manager, UKAEA
16:35	QUESTION AND ANSWER SESSION
16:45	CHAIR'S CLOSING REMARKS
16:55	END OF CONFERENCE

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

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

JOIN US AT THE FOREFRONT OF MECHANICAL ENGINEERING.

Institution of
**MECHANICAL
ENGINEERS**

Featured Events

21/11



21 November 2019
Science and Industry Museum,
Manchester

INSTITUTION OF MECHANICAL ENGINEERS ANNUAL DINNER 2019

Home to a cornucopia of engineering heritage – including Whitworth's planing machine, one of the world's largest collections of working steam mill engines and one of the first ever rechargeable batteries – the Science and Industry Museum will provide an inspirational backdrop to the evening's festivities.

Why not take this perfect opportunity to entertain clients, network with colleagues and reward employees in the company of the most influential engineers and industry leaders?

There are many ways to participate, ranging from individual tickets to event sponsorship. Capacity is strictly limited, and tables and individual tickets are offered on a first-come, first-served basis, so ensure you take advantage of the early booking discount and register today to avoid disappointment.

www.imeche.org/annualdinner

4–5/12



4–5 December 2019
Nottingham Belfry Hotel, Nottingham

HEAT RECOVERY STEAM GENERATOR USER GROUP 2019

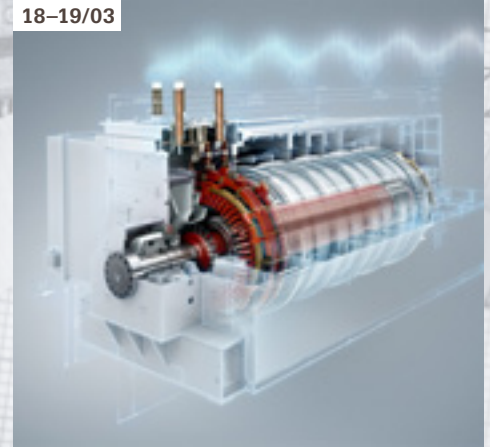
Enjoy peer-reviewed technical presentations and learning opportunities at this year's HRSG User Group. Attend to understand how to keep your technology up to date, enhance its operational lifespan and remain competitive in the market.

KEY SPEAKERS INCLUDE:

- Alexander Duncan, Integrity Engineer, Uniper Technologies
- Matthew Surry, Energy Trader, SSE plc
- David Bogert, Senior Boiler Engineer, RWE Generation UK PLC
- Moore Holmes, Technical Specialist, British Engineering Services
- Peter van Manen, Service Development Consultant, Frazer-Nash Consultancy

www.imeche.org/hrsg

18–19/03



18–19 March 2020
Manchester United Football Ground,
Manchester

STEAM TURBINE AND GENERATOR USER GROUP 2020

Returning in 2020, the next event in this popular series of power industry user groups will enable those involved in the management, operation and maintenance of steam turbines and generators to discuss common problems and issues. Join us to exchange ideas, identify potential solutions and learn about new developments at our leading technical event offering peer reviewed and high level content.

Join us to hear directly from OEMs, service providers and end users of steam turbines, generators and large motors about the latest technologies available. Learn from case studies in plant operations and best practice in turbine and generator service.

Whether you are involved in the design, manufacture, operation, management and maintenance of steam turbine and generator assets, this is THE event to stay up to date and benefit from the shared experience of the turbine engineering community.

www.imeche.org/stug

VIEW THE FULL LIST OF MARKET LEADING EVENTS:

WWW.IMECHE.ORG/EVENTS

Online:
www.imeche.org/events

Email:
eventenquiries@imeche.org

Phone:
+44 (0)20 7973 1251

WHO SHOULD ATTEND?

All engineers, OEMs, tier one suppliers and researchers involved with ventilation systems in the nuclear industry will benefit from the content, knowledge sharing and networking opportunities, particularly:

- Technical Nuclear Ventilation Specialists
- Nuclear HVAC Engineers
- Nuclear Ventilation Engineers
- Senior Nuclear HVAC Design Engineers
- Safety and Risk Managers
- Safety Inspectors
- Nuclear Regulators
- Principle Fire Engineers
- Senior Ventilation Engineers
- Senior Technical Engineers
- Environment Officers

FEEDBACK FROM PREVIOUS EVENTS:

“WHEN IS THE NEXT NUCLEAR VENTILATION CONFERENCE SO THAT I CAN BOOK SOME OF MY WORK COLLEAGUES TO ATTEND?”

Pre-Ops Mechanical Engineer, Sellafield

“THE MOST USEFUL GATHERING OF KNOWLEDGE & EXPERIENCE FOR THE NUCLEAR VENTILATION INDUSTRY”

Design Engineer, Babcock

“INTERESTING & INTERACTIVE NETWORKING SEMINAR”

Compliance Engineer, AWE

“HIGHLY RECOMMENDED TO ANYBODY INVOLVED WITH NUCLEAR VENTILATION”

Mechanical Engineer, Cavendish Nuclear

“EXCELLENT EVENT VERY VARIED SPEAKERS/SUBJECTS”

Commissioning Manager, AWE

“A UNIQUE BI-ANNUAL OPPORTUNITY TO SHARE LEARNING AND EDUCATIONAL MATERIAL IN A NICHE SUBJECT AREA”

Principal Asset Engineer, AWE

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INSTITUTION OF MECHANICAL ENGINEERS ANNUAL DINNER 2019

Institution of
**MECHANICAL
ENGINEERS**

21 November 2019

Science and Industry Museum, Manchester



SPONSOR:



Book your tickets at: www.imeche.org/annualdinner

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	EARLY BIRD RATE Until 4 October 2019	STANDARD RATE
Member, Institution of Mechanical Engineers / Supporting Organisation	£495 + VAT = £594	£585 + VAT = £702
Non-member	£580 + VAT = £696	£680 + VAT = £816
Full-time Student/Retired	£195 + VAT = £234	£255 + VAT = £306
Networking Dinner	£40 + VAT = £48	£40 + VAT = £48

THREE WAYS TO BOOK

- 1 online:
www.imeche.org/nuclearventilation
- 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

Manchester United Football Club
Sir Matt Busby Way
Old Trafford
Manchester
M16 0RA

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We are the market leader among professional engineering bodies. We've been supporting engineers since 1847 and have 120,000 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



INSTITUTION OF MECHANICAL ENGINEERS ANNUAL DINNER 2019

21 November 2019, Manchester

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www.imeche.org/annualdinner



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Returning in 2020, the next event in this popular series of power industry user groups will enable those involved in the management, operation and maintenance of steam turbines and generators to discuss common problems and issues.

www.imeche.org/stug

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.

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