INDUSTRIAL FLOODING: PROTECTING CRITICAL INFRASTRUCTURE

Institution of MECHANICAL ENGINEERS

18 March 2020 One Birdcage Walk, London

Seminar

KEY SPEAKERS INCLUDE:

Chris Stark, Chief Executive Committee on Climate Change

Cantor Mocke, London Flood Risk Manager **Environment Agency**

Ben Gouldby, Chief Technical Director, Flood and Water Management Group **HR Wallingford**

Jonathan Glerum, Regional Flood Risk Manager **Anglian Water**

Craig Atkin, Site Manager, Blackburn Meadows **E.ON**

Jonathan Jones, Design Authority - Safety Case Branch Manager **EDF Energy**

Lee Pitcher, Head of Resilience **Yorkshire Water**

SUPPORTING ORGANISATIONS:













EVENT PARTNERS:



New Civil Engineer

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INDUSTRIAL FLOODING: PROTECTING CRITICAL INFRASTRUCTURE

18 March 2020, One Birdcage Walk, London

FLOODING EVENTS ACROSS THE **UK DUE TO CLIMATE CHANGE** HAVE UNDERSCORED THE **IMPORTANCE OF ENSURING CRITICAL INFRASTRUCUTURE IS PROTECTED. THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE (IPCC)** PREDICTS THAT BY 2100 SEA LEVELS COULD RISE BY TWO **METERS, WHILE A RECENT REPORT COMPILED BY THE INSTITUTION OF MECHANICAL** ENGINEERS URGES ENGINEERS TO **CONSIDER PREPARING FOR A RISE OF THREE METERS.**

TECHNICAL ADVISORY BOARD:

Tim Fox, Chair, Process Industries Division, Institution of Mechanical Engineers

Simon Whatley, Director, **mech2oengineering Ltd**

Richard Tiplady, Chair, Oil, Gas and Chemical Committee, **Institution of Mechanical Engineers**

The Industrial Flooding seminar will outline the impact of the increase in flooding on the engineering community and identify best practice to protect your infrastructure effectively both now and into the future. This unique event brings together cross-sector lessons learned from flooding incidents from sectors including nuclear, biomass and water. Learn how best to retrofit your assets and implement future infrastructure design specifications for greater protection.

As well as the one day seminar, do not miss the pre-event half day workshop **'BS EN ISO 14090 Adaptation to climate change – Principles, requirements and guidelines'**, hosted by Climate Sense and BSI which will outline the requirements of the new standard and what this means for your organisation.

John Chappell, Director of Asset Management and Continuous Improvement,

Nuclear Decommissioning Authority

Carola Koenig, Senior Lecturer in the College of Engineering, Design and Physical Sciences, **Brunel University London**

PRE-SEMINAR WORKSHOP PROGRAMME

TUESDAY, 17 MARCH 2020

13:30	REGISTRATION AND REFRESHMENTS		
14:00	INTRODUCTION AND SCOPE OF THE WORKSHOP Lesley Wilson, Lead Programme Manager, BSI John Dora, Director, Technical Lead, Climate Sense		
14:10	THE IMPORTANCE AND IMPACT OF NEW BS EN ISO 14090 ADAPTATION TO CLIMATE CHANGE ON YOUR ORGANISATION Doogie Black, Founding Director, Climate Sense		
14:30	QUESTION AND ANSWER SESSION		
14:40	UNDERSTANDING THE CLIMATE RISKS IN YOUR OWN COMPANY John Dora, Director, Technical Lead, Climate Sense		
15:00	NETWORKING REFRESHMENT BREAK		
15:30	 SETTING UP AN ADAPTATION PLAN FOR YOUR COMPANY BREAK-OUT GROUPS Doogie Black, Founding Director, Climate Sense Opportunity to bring your own company examples to the session and discuss potential solutions. Steps in assembling an Adaptation Plan Implementing the Adaptation Plan Indicators, monitoring and evaluation 		
16:15	FEEDBACK SESSION		
16:30	INTERACTIVE PANEL DISCUSSION: ASK YOUR QUESTIONS TO THE EXPERTS Doogie Black, Founding Director, Climate Sense		
16:50	FINAL REMARKS Lesley Wilson, Lead Programme Manager, BSI John Dora, Director, Technical Lead, Climate Sense		

17:00 END OF WORKSHOP

WWW.IMECHE.ORG/INDUSTRIALFLOODING BOOK YOUR PLACE TODAY TERMS AND CONDITIONS APPLY

WEDNESDAY, 18 MARCH 2020

- 08:30 REGISTRATION AND REFRESHMENTS
- 08:55 CHAIR'S OPENING REMARKS Richard Tiplady, Chair, Oil, Gas and Chemical Committee, Institution of Mechanical Engineers

IS OUR INFRASTRUCTURE PREPARED FOR A CHANGING CLIMATE?

PREDICTED SEA LEVELS RISE AND IMPACT ON ENGINEERING INFRASTRUCTURE

09:00 MORNING KEYNOTE

> 09:30 THE ENGINEERING CHALLENGE OF 21ST CENTURY SEA LEVEL RISE Tim Fox, Chair, Process Industries Division, Institution of Mechanical of Engineers

Chris Stark, Chief Executive, Committee on Climate Change

- 09:45 WORKING TOGETHER FOR GREATER STORM RESILIENCE IN NUCLEAR Tim Allmark, Superintending Inspector - Nuclear Safety Professional Lead for Civil Engineering and External Hazards, Office for Nuclear Regulation
- 10:15 NUCLEAR CASE STUDY: EXTERNAL FLOODING IN NEW NUCLEAR BUILD AT HINKLEY POINT C AND SIZEWELL Jonathan Jones, Design Authority - Safety Case Branch Manager, EDF Energy
- 10:45 NETWORKING REFRESHMENT BREAK

ASSESSING RISK AND PROTECTION STRATEGIES FOR CRITICAL INFRASTRUCTURE

11:15 UNDERSTANDING EXTREME FLOOD EVENTS: RISKS, FREQUENCY AND IMPACTS AT AWE

David Ashworth, Lead Water and Wastewater Engineer, AWE

- 11:45 BLACKBURN MEADOWS: DEALING WITH FLOODING, FROM DESIGN ASSESSMENT THROUGH TO BUILD AND OPERATION Craig Atkin, Site Manager, Blackburn Meadows, E.ON
- 12:15 DELIVERING FLOOD RESILIENCE MEASURES FOR ANGLIAN WATER'S ASSET BASE Jonathan Glerum, Regional Flood Risk Manager, Anglian Water
- 12:45 NETWORKING LUNCH

RETROFITTING AND DESIGNING NEW ASSETS TO WITHSTAND CHANGING CONDITIONS

13:45 RISING SEA LEVELS IN LONDON AND THE THAMES ESTUARY: PLANNING FOR AFTERNOON FUTURE FLOOD RISK TODAY

KEYNOTE Cantor Mocke, London Flood Risk Manager, Environment Agency

- 14:15 COASTAL FLOOD RISK FOR CRITICAL INFRASTRUCTURE Ben Gouldby, Chief Technical Director, Flood and Water Management Group, HR Wallingford
- 14:45 NETWORKING REFRESHMENT BREAK

ADAPTING INFRASTRUCTURE FULLY TO NEW CONDITIONS

15:15 LIVING WITH WATER: A COLLABORATIVE APPROACH TO RESILIENCE IN HULL Lee Pitcher, Head of Resilience, Yorkshire Water

15:45 PANEL DISCUSSION

- 5 PREPARING FOR FLOODING ACROSS THE ENGINEERING SECTOR
 David Ashworth, Lead Water and Wastewater Engineer, AWE
- ON Carola Koenig, Senior Lecturer in the College of Engineering, Design and Physical Sciences, Brunel University London
 - How do we move towards joined-up cross-sector flooding strategies?
 - How could the engineering community prepare better for the increase of number and severity of weather events?
 - How can we ensure that impact of flooding protection strategy on one site takes into consideration other nearby infrastructure?

16:20 CHAIR'S CLOSING REMARKS

16:30 END OF SEMINAR

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

• This programme is subject to change.

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

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 31 January 2020

STANDARD RATE

	Olith Of Balladiy 2020	
Member, Institution of Mechanical Engineers / Supporting Organisation – Seminar only	£240 + VAT = £288	£295 + VAT = £354
Non-member – Seminar only	£275 + VAT = £330	£325 + VAT = £390
Full-time Student/Retired – Seminar only	£100 + VAT = £120	$\pm 100 + VAT = \pm 120$
Member, Institution of Mechanical Engineers / Supporting Organisation – Workshop and Seminar	£340 + VAT = £408	£395 + VAT = £474
Non-member – Workshop and Seminar	£385 + VAT = £462	£435 + VAT = £522
Full-time Student/Retired – Workshop and Seminar	£150 + VAT = £180	£150 + VAT = £180

THREE WAYS TO BOOK

1 online:

www.imeche.org/industrialflooding 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.

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Institution of MECHANICAL ENGINEERS

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OTHER EVENTS TO LOOK FOR

ESSENTIAL MANAGEMENT SKILLS 2020

1-3 April 2020, Coventry

This three-day conference will equip you with the skills required for success within line and project management roles. Attend this event to improve your ability to manage yourself, projects and teams. You can also take the opportunity to gain a Level 3 Award in Principles of Management and Leadership, awarded by the Chartered Management Institute (CMI).

www.imeche.org/ems



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This event is part of a popular series of power industry user groups that enable those involved in the management, operation and maintenance of wind turbines to discuss common problems and issues. Join us to exchange ideas, identify potential solutions and learn about new developments at our technical conference offering peer reviewed and high-level content.

www.imeche.org/windturbines

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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