

# Hazards30

In association with the Mary Kay O'Connor Process Safety Center

30 November–2 December 2020,  
Manchester, UK

**Process safety conference**

Find out what's going on



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# Hazards 30

30 November–2 December 2020, Manchester, UK

## Europe's largest annual process safety conference

*Hazards 30* is an industry-focused event, exploring every major aspect of process safety and helping you to learn from the experience of others.

Join us to stay up to date with process safety good practice, discover new techniques and approaches, explore lessons learned from past incidents and near-misses, and network with the international process safety community.

2020 marks 60 years since the first *Hazards* conference was held, also in Manchester. Since then *Hazards* has grown in size and influence, continuing to be at the forefront of sharing new knowledge and disseminating good process safety practice across the process industries and beyond.

## Key features

- 100+ oral presentations and posters from industry practitioners, researchers and regulators
- Inspirational plenary speakers
- Panel discussion
- Workshops exploring key topics in more depth
- Trade exhibition of process safety products and services
- Social events and networking opportunities

## Who should attend?

If you are active in process safety and risk management for chemical process facilities, or other facilities dealing with hazardous materials, *Hazards 30* is the ideal event for you.

Process safety professionals working at all levels and across all industry sectors will benefit from attending.

Typical delegates include:

- Process safety practitioners in industry
- Process safety consultants and safety specialists
- Senior industry leaders accountable for process safety without day-to-day responsibility
- Academic researchers
- Regulators and representatives from industry bodies

**“ If you want your business to stay safe, to avoid catastrophe, to improve its safety record, you need to learn what is good practice, and there's no better place for doing that than at Hazards. ”**

Laurence Cusco, Health and Safety Executive  
& Chair of the *Hazards 30* technical committee

# Why attend Hazards 30?

## Learn from experts

Over 100 specialists and industry peers working in all industry sectors will share their process safety knowledge and experience including lessons learned and latest research.

## Review good practice in process safety

Presentations and posters will share lessons learned from what's worked well (and not so well) so that you can apply good practice to your own operations.

## Get comprehensive technical insight

The programme will cover all the functional areas that are key to managing and reducing process risk effectively, including engineering and design, systems and procedures, knowledge and competence, human factors, assurance, culture, and environmental protection.

## Get industry insights and benchmark your company

Hear presentations and view posters from industry practitioners, regulators and researchers. We're pleased to include contributions from [Atkins](#), [Health and Safety Executive](#), [Office for Nuclear Regulation](#), [Sellafield Ltd](#), [Shell](#), [Sygenta](#), [Total](#), [Wood](#) and many, many more.

## Have your say

As well as Q&A at the end of every presentation, you'll have the chance to put questions to industry experts during a panel discussion on 2 December. Discussion will focus on how to learn effective lessons from the past.

## Network with your peers and make new contacts

There will be plenty of opportunity to network with delegates, presenters, exhibitors and speakers during the event, including a free welcome drinks reception on 30 November and an informal social event on 1 December.

## Find out what's new in process safety

Process safety is constantly developing and *Hazards 30* is a great opportunity to discover the latest research and developments in the field.

## Discover new products and services

Make new contacts and discover products and services to support you in improving process safety performance at our extensive exhibition running alongside the conference. Visit [www.icheme.org/hazards30](http://www.icheme.org/hazards30) to see who's exhibiting.

## Meet Continuous Professional Development (CPD) requirements

Attending *Hazards 30* is a great way to demonstrate commitment to your personal and professional development. What's more, if you have the Professional Process Safety Engineer registration ([www.icheme.org/ppse](http://www.icheme.org/ppse)) in your sights, then you'll be able to attend a free information session to find out more about it and how to start or progress your application.

## Reflect on the process safety journey

The 60th anniversary of *Hazards* is a fitting time to reflect on the past, present and future of process safety. We'll be reflecting on the key milestones so far on the process safety journey, what's been achieved already, and the challenges that lie ahead.

# Plenary speakers



## *Piper Alpha – an Accident or a Predictable Surprise?*

Steve Rae, Step Change in Safety

Steve was one of only 61 survivors of the 1988 Piper Alpha disaster in which 167 perished. He will draw on his experience of the disaster to demonstrate why he feels it was no accident, rather a 'predictable surprise', and why many major accidents, near misses and incidents should be defined in the same way.



## *Hazards Management in a Climate Emergency: We're All in It Together!*

Jo Nettleton, Environment Agency

Jo will discuss the challenges posed to existing major hazards industries from more extreme weather events, and the impact of adapting to a net zero economy.



## *Learning Lessons Today for Safety Tomorrow*

Maureen Heraty Wood, Major Accident Hazards Bureau

Maureen will explain how we can use what we already know about chemical accident risk to help shape a strategy for chemical risk management in an unknown future.



## *Reflections on the Lessons from Longford and its Legacy*

Margaret Donnan, IChemE Safety Centre

Margaret will explore the main lessons from the Longford gas plant explosion in 1998 and how they shaped a new major hazard regulatory regime in Australia.

Visit [www.icheme.org/hazards30](http://www.icheme.org/hazards30) to find out more about our plenary speakers and their presentations.

# Agenda

Note: the programme may be subject to alteration

## Monday 30 November 2020

11:30–12:30	Registration	
12:30–14:30	Workshops*	Understanding Global and Local Bowties
		ISC Case Study: Tank Farm–Simulating Operational Decisions
		Incident Investigation, Human Factors & Cause Tree Analysis
		Cyber Security and the Process Industries
15:00–17:00	Workshops	Risk-Based Decision Modelling
		ISC Case Study: Underground Pipeline–Managing Business Risk
		Introducing and Embedding Process Safety
		Human Factors in the Process Industries
17:30–19:30	Plenary session	Trevor Kletz Hazards lecture <i>Piper Alpha – an Accident or a Predictable Surprise?</i> Steve Rae, Step Change in Safety, UK
		Introduction to the poster presentations
19:30–21:00	Welcome drinks with poster and exhibition viewing	

\* Visit [www.icheme.org/hazards30](http://www.icheme.org/hazards30) to find out more about the workshops





Wednesday 2 December 2020

09:00–09:40	Plenary presentation	Reflections on the Lessons from Longford and its Legacy		Margaret Donnan, IChemE Safety Centre, Australia				
09:40–10:20	Panel discussion	How Do You Learn from the Mistakes of Others Before You Make Your Own?		Panel members TBC				
10:20–10:50	Refreshment break with poster and exhibition viewing							
AM	Safety Culture I		Risk Management II		Human Factors II	Fire and Gas Detection		
	Session chair: James Birch		Session chair: Paul Coleman		Session chair: Craig Williams		Session chair: Felicia Tan	
10:55–11:20	Protecting the Mental Health of Employees: How Issues from Film & TV Industry Survey Correlate with Similar Factors in Other Industries	Matt Longley, Finch Consulting, UK	Safe Reinstatement of Process Plant – Learnings from HSE’s Regulation of the UK Offshore Oil and Gas Industry	Ashley Hynds & Scott Templeton, Health & Safety Executive, UK	How Stressed Is Your Facility?	Trish Kerin, IChemE Safety Centre, Australia	How Do We Define Good Practice for Fire and Gas Detector Mapping?	Tim Jones, RPS Group, UK
11:25–11:50	The Impact of Safety Culture on Safe Operations	Andrew Laird & Esther Ventura-Medina, University of Strathclyde, UK	Improving the Value of Risk Engineering in Onshore Energy Insurance	Nigel Cairns, Aon Global Risk Consulting, UK	Assuring Reliability of Human-Computer Interactions in Process Control	Ned Hickling, UK	Guidance on Fire, Combustible Gas and Toxic Gas Detection System Philosophy	Jonathan Wiseman, Risktec Solutions, UK
11:55–12:20	Challenges in Promoting Process Safety Culture – Bridging the Power Distance	James Yii, Petronas, Malaysia	Addressing the Challenges of Quantifying Fire and Explosion Loss in Insurance	John Evans, Marc Lehmann, Mohammad Javanbarg, Jainendra Agarwal, Saurabh Prabhu & Ashish Singhal, AIG, UK	Making Permit to Work Work for Process Safety	Ken Patterson & Gillian Wigham, UK	BS60080:2020 – Guidance on the Placement of Permanently Installed Detection Devices Using Software Tools and Other Techniques. What is the Scope and Intention of the New Standard?	James McNay, Micropack (Engineering), UK
12:25–12:50	Abraham Lincoln as CEO of a Major Hazard Facility? How a Wider Understanding of Leadership Can Enhance Process Safety Leadership	Peter Webb, Beyond Risk, UK	Strengthening Regulatory Oversight of Declining Safety Performance	PF Ilizastigui, Todus Advisors, Cuba	Safe Staffing Levels: Latest Energy Institute Guidance	Michael Wright, Greenstreet Berman, UK & Stuart King, Energy Institute, UK	A Revised Method for Dropped Object Risk Analysis	AG Rushton & JM White, ESR Technology, UK
12:50–13:50	Lunch break with poster and exhibition viewing							
PM	Safety Culture II		Inherent Safety		Regulation		Asset Integrity	
	Session chair: James Birch		Session chair: Andy Mackiewicz		Session chair: Rob Magraw		Session chair: Arvinder Saimbi	
13:55–14:20	The Importance of Process Safety Management in Post-Merger Integration	Glenn Pettitt, Guy Roberts, Rob Jeffries, Doug Anderson & Richard Rowe, ERM, UK	Incorporating Inherently Safer Technology into a Corporate Risk Management Programme	Tony Downes, David Prior, Pascal Bolomey & Noel Misa, Honeywell (Performance Materials & Technologies), USA	Regulation of UK Nuclear Legacy Facilities	Anthony McFadden, Office for Nuclear Regulation, UK	Selection and Deployment of Non-Destructive Testing for Through-Life Integrity Assurance of Composite-Repaired Pipes	Adam Bannister, Aneta Nemcova, David Johnson & Matthew Blackburn, Health and Safety Executive, UK
14:25–14:50	The Chernobyl Incident: a Case Study for Organisational Process Safety	John Butcher, DEKRA, UK & Arturo Trujillo, DEKRA, Spain	Liquefied Gas Terminals – Designed with Safety at Heart	Karina Almeida Leñero & Sarah Fiedler, TGE Gas Engineering, Germany; Richard Collitt & Yet Th ng Lee, TGE Gas Engineering, UK	How China is Establishing a New COMAH System	Pat Swords, PM Group, Ireland & Robert Liang, PM Group, China	Can Damage Mechanism Assessment Improve Both Efficiency and Safety?	Brad Eccles, ABS Consulting, UK; Randal Montgomery, David Whittle & Sayed Termah, ABSG Consulting, USA
14:55–15:20	Brain-Centred Performance: the Final Frontier in Workplace Safety	Sebastian Blair, DEKRA, UK	Explosion Relief Panels for Hazard Reduction in Gas Compressor Buildings and Hydrogen Refuelling Stations	Robert Brewerton & Christopher Norris, UK	A Three-Decade Review of Risk Management Efforts in Hong Kong	Ying Yin Hung & Eddie Lee, Environmental Protection Department of HKSAR, Hong Kong	Use of Consequence Modelling for Meticulous Risk Based Inspection Calculations of Offshore Topsides Static Mechanical Equipment	Chetan Birajdar, Monaco Engineering Solutions, UK; Bahram Fada, Monaco Engineering Solutions, Oman; Shreya Kochar, Monaco Engineering Solutions, UAE
15:25–15:40	Plenary session	Closing session to include the poster prize presentation						

As well as oral presentations, there will be wealth of process safety knowledge and experience shared in poster form, available to view throughout the conference. Poster titles will be published on the conference website as authors confirm their attendance.

# Practical information

## Venue

**Manchester Central**  
Petersfield, Manchester M2 3GX, UK

## Location

Manchester Central is located in the heart of Manchester and is easily accessible by rail, road or air. Visit [www.icheme.org/hazards30-venue](http://www.icheme.org/hazards30-venue) for more travel information.

## Accommodation

Accommodation is not included in the conference fee and you will need to make your own arrangements. If you need any help finding a hotel in Manchester, follow the link provided at [www.icheme.org/hazards30](http://www.icheme.org/hazards30)

## How to register

Register online at [www.icheme.org/hazards30](http://www.icheme.org/hazards30)

## Contact us

Contact us on +44 (0)1788 534496 or email [hazards@icheme.org](mailto:hazards@icheme.org)

## Conference fees

**IChemE Member** – £975 + VAT

**Non-member** – £1150 + VAT

**Presenting author** – £600 + VAT

**Student** – £275 + VAT

**Social event** – £65 + VAT

### What's included:

- workshop attendance on 30 November
- plenary sessions
- technical presentations and information sessions
- access to the exhibition area on 30 November–2 December
- welcome drinks on 30 November
- lunches and refreshment breaks on 1–2 December

Attendance at the social event is optional, at an additional fee.

## Interested in sponsoring or exhibiting at Hazards 30?

We have sponsorship and exhibition packages to suit all budgets, all providing excellent opportunities to:

- highlight your brand
- present your products and services
- network and make new contacts
- expand your process safety knowledge
- understand the issues and concerns in the industry

Visit [www.icheme.org/hazards30](http://www.icheme.org/hazards30) to find out more and to see who's already on board.



Thank you to our exhibitors:



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