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
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 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) 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 to find out more about our plenary speakers and their presentations.

**Agenda**

Note: the programme may be subject to alteration

**Monday 30 November 2020**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>11:30–12:30</td>
<td>Registration</td>
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<tr>
<td>12:30–14:30</td>
<td>Workshops*</td>
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<td>Understanding Global and Local Bowties</td>
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<td>ISC Case Study: Tank Farm–Simulating Operational Decisions</td>
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<td>Incident Investigation, Human Factors &amp; Cause Tree Analysis</td>
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<td>Cyber Security and the Process Industries</td>
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<td>15:00–17:00</td>
<td>Workshops</td>
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<td>Risk-Based Decision Modelling</td>
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<td>ISC Case Study: Underground Pipeline–Managing Business Risk</td>
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<td>Introducing and Embedding Process Safety</td>
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<td>Human Factors in the Process Industries</td>
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<td>Pre-Start-Up Safety Review</td>
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<td>17:30–19:30</td>
<td>Plenary session</td>
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<td><strong>Trevor Kletz Hazards lecture</strong></td>
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<td><strong>Piper Alpha – an Accident or a Predictable Surprise?</strong></td>
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<td>Steve Rae, Step Change in Safety, UK</td>
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<td>Introduction to the poster presentations</td>
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<td>19:30–21:00</td>
<td>Welcome drinks with poster and exhibition viewing</td>
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* Visit www.icheme.org/hazards30 to find out more about the workshops
Tuesday 1 December 2020

09:00-09:45
Plenary presentations

09:45-10:20
Learning Session: Safety for Today, Tomorrow

10:20-10:50
Refreshment break with poster and exhibition viewing

10:50-11:20
Human Factors

11:20-11:55
Learning from Accidents: the Fourth Human Failure

11:55-12:30
Enhancing the Performance of Safety Critical Systems: the Myth of the Perfect Product and Medical Care

12:30-13:50
Lunch break with poster and exhibition viewing

13:50-14:25
Natural Hazards

14:25-14:50
Dust Hazards

14:50-15:15
Natural Hazards

15:15-15:40
Natural Hazards

15:40-16:05
Natural Hazards

16:05-16:30
Natural Hazards

16:30-16:55
Emergency Planning

16:55-17:20
Emergency Planning

17:20-17:45
Risk Management

17:45-18:10
Chemical Hazards

18:10-18:35
Chemical Hazards

18:35-19:00
Social event

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Wednesday 2 December 2020

09:00-09:40 Plenary presentation
Reflections on the Lessons from Longford and its Legacy
Margaret Dunan, IChemE Safety Centre, Australia

09:40-10:20 Panel discussion
 Wie 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.

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10:55-11:20 Safety Culture I
Session chair: Helen Tollem
Panel members: TBC

Protecting the Mental Health of Employees: How House from Chile & TV Industry
Stefan Goodwin, TV Industry Safety Britain

Self-Reflection of Process Plant – Learnings from HSE’s Regulation of the UK Oil & Gas Industry
Aldley Hyns & Scott Templeton, HSE, UK

How Strong is Your Safety Culture?
Andy Hynes, IChemE Safety Centre, Australia

11:25-11:55 Safety Culture II
Session chair: Amanda Woods
Panel members: TBC

The Impact of Safety Culture on Safety Outcomes
Andrew Ward & Eain O’Connor, University of Strathclyde, UK

Improving the safety of Risk Engineering & Drift Energy Insurance
Sean Lena, Arden & Rose Consulting, UK

Assuring Reliability of Driver-Computer Interactions in Process Control
Neil Henry, UK

11:55-12:20 Panel discussion
Moderators: Tim Jenkins, RPS Group, UK
Seth Adie, Runway Safety, Australia

12:25-12:50 Lunch break with poster and exhibition viewing

12:50-13:20 PM
Session chair: James Birch
Session chair: Andrew Laird & Esther Ventura-Medina

Session chair: Paul Coleman
Session chair: Craig Williams

Challenges in Promoting Process Safety
John Butcher, DEKRA, UK & Arturo Trujillo, DEKRA, Spain

How Issues from Film & TV Industry Survey Can Influence Process Safety
Doug Anderson, ERM, UK & Richard Rowe, ERM, UK

13:55-14:20 Safety Culture II
Session chair: Felicia Tan
Session chair: Ken Rivers

Protecting the Mental Health of Employees: How House from Chile & TV Industry
Stefan Goodwin, TV Industry Safety Britain

Declining Safety Performance: How Do You Learn from the Mistakes of Others Before You Make Your Own?
John Evans, Marc Lahdenperä, Mohammad Alzaharna, Andrew Nairn & Richard Blackford, AIG, UK

14:20-14:50 Panel discussion
Moderators: Tim Jenkins, RPS Group, UK
Seth Adie, Runway Safety, Australia

14:55-15:25 Fire and Gas Detection
Session chair: Paul Coleman
Session chair: Craig Williams

Strengthening Regulatory Oversight of Explosion Relief Panels for Hazard Reduction
Robert Brewerton & Christopher Norris, UK

Liquefied Gas Terminals – Designed with Safety at Heart
Lee, TGE Gas Engineering, UK

15:25-16:00 Panel 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 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

How to register
Register online at www.icheme.org/hazards30

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

Conference fees

<table>
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<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>IChemE Member</td>
<td>£975 + VAT</td>
</tr>
<tr>
<td>Non-member</td>
<td>£1150 + VAT</td>
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<tr>
<td>Presenting author</td>
<td>£600 + VAT</td>
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<tr>
<td>Student</td>
<td>£275 + VAT</td>
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<tr>
<td>Social event</td>
<td>£65 + VAT</td>
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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 to find out more and to see who’s already on board.
Thank you to our exhibitors:

Correct at the time of printing