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, Syngenta, 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 18 May 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.

Agenda
Note: the programme may be subject to alteration

Monday 30 November 2020

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

* Visit www.icheme.org/hazards30 to find out more about the workshops
**Tuesday 1 December 2020**

**Plenary presentations**

Hazard Management in a Crisis — Work — is All in Together

[Highlighted, Environment Agency, UK]

**Morning Session**

**Session Chair:** Caroline Sadler

10:15–11:20

**Human Factors**

- **10:15–10:40**
  - **Human Performance and the Fourth Industrial Revolution**
    - Roger Soler, Babcock & Wilcox, Europe, UK
  - **Virtual Duct Hazard Analysis — Understanding Threats and Making Contrasts**
    - David Hinch, Process Safety Integrity UK, & Mike Moore, USA
  - **A Toolbox to Help Frontline Personnel Learn from Sources**
    - Sarah Kings, Energy Institute, UK

11:10–12:20

**Resourcing Teams Based on Key Skills**

– **11:10–11:35**
  - **Making Sure Investigations Get It Right — Human Factors Considerations for Gas Explosions**
    - James Bird, The Rail Centre, UK
  - **Can the Wrong Form of Contract Be a Problem and Marginal Gains**
    - Graeme Dick & Mike Pollard, Reflekt AS, Norway

11:55–12:20

**Enhancing the Performance of Safety Critical Systems**

– **11:55–12:20**
  - **Self-Healing Safety**
    - Stephen Peace, Sunthorn, UK
  - **Design to Keep Us Safe — Five Core Lessons from the Prevention of Major Incidents**
    - Fadi Haddad, Sidobre, Switzerland

12:20–12:50

**Ongoing Education & Awareness Training**

– **12:20–12:45**
  - **Can the Wrong Form of Contract Be a Problem and Marginal Gains**
    - Graeme Dick & Mike Pollard, Reflekt AS, Norway
  - **Making Sure Investigations Get It Right — Human Factors Considerations for Gas Explosions**
    - James Bird, The Rail Centre, UK

**Lunch break with poster and exhibition viewing**

13:15–14:20

**Natural Hazards**

– **13:15–13:40**
  - **Assessment and Recognition of Response to T EMPORARY Events**
    - Joe Quin, Atkins, UK & Matt Keys, Atkins, Australia
  - **How Do You Carry Out A DSEAR Risk Assessment After a Major Event**
    - Alison McKay & Peter Hodgson, ABB, UK

14:25–15:40

**DSEAR/ATEX**

– **14:25–14:50**
  - **Hydraulic Mist Hazards — a Discussion of the Practical Implications for a Future Project**
    - Hydraulics BGI, Israel & Trinity Hazard, Holyhead Consultancy, UK, Anthony Bros, Holyhead Consultancy, UK
  - **Quantification of the Risks Associated with a Hydrogen Gas Distribution System**
    - S Guha, Scottish Widows, UK & Michelle Murphy, Mica, USA

14:45–15:10

**Risk Management**

– **14:45–15:10**
  - **A Toolbox to Help Frontline Personnel Learn from Sources**
    - Sarah Kings, Energy Institute, UK
  - **How Do You Carry Out A DSEAR Risk Assessment After a Major Event**
    - Alison McKay & Peter Hodgson, ABB, UK

15:10–16:20

**Management of Project Risks**

– **15:10–15:35**
  - **Risk Management of Industrial Installations in Europe?**
    - Hannes Kern, Industrial Safety Solutions, Austria & Ingrid Struck, Montanuniversitaet Leoben, Austria
  - **Using LOPA to Estimate the Probability of a Venting Event in the UK**
    - Andrew Harrison, Robert Ritchie & Carolyn Nicholls, UK

15:35–16:40

**Safety Leadership**

– **15:35–15:55**
  - **An Integrated Approach to Establishing a Framework**
    - Caroline Sadler, Babcock & Wilcox, UK
  - **How Do You Carry Out A DSEAR Risk Assessment After a Major Event**
    - Alison McKay & Peter Hodgson, ABB, UK

16:05–17:20

**Environmental Emergency**

– **16:05–16:30**
  - **On the 10-4 /Yr Criterion for Blast Overpressure — an Alternative Computational Approach for Safety Design**
    - Ian Howard & Fergus Moore, Australia
  - **Using LOPA to Estimate the Probability of a Venting Event in the UK**
    - Andrew Harrison, Robert Ritchie & Carolyn Nicholls, UK

16:45–17:00

**Chemical Hazards**

– **16:45–17:00**
  - **Managing Overhead and Underground Risks When Switching from Natural Gas to Hydrogen in the UK**
    - John Hare, Health and Safety Executive, UK
  - **An Analytical Based Framework for Estimating the Potential Dispersion of a Flammable Gas**
    - Jianhui Yi & Haroun Mahgerefteh, University College London, UK

17:15–18:30

**Systematic Risk Assessment and Probability of Consequence**

– **17:15–17:40**
  - **The Ins and Outs of ABB’s DSEAR/ATEX Experts’ Pipeline Decompression Model**
    - Jamie Rowan, Robert Ritchie & Carolyn Nicholls, UK
  - **How Do You Carry Out A DSEAR Risk Assessment After a Major Event**
    - Alison McKay & Peter Hodgson, ABB, UK

18:00–19:15

**Social event**