Hazards32
18–20 October 2022, Harrogate, UK

Process safety conference
Reconnect with the major hazards community
Hazards 32
18–20 October 2022, Harrogate, UK

Hazards 32 will bring the major hazards community together to reconnect and rebuild networks in person again after two years of virtual knowledge-sharing.

This industry-focused event will share good practice, current thinking and lessons learned in process safety and hazard management, helping to advance the understanding and application of managing major hazards for the benefit of society.

Hazards 32 in summary

- 80+ technical presentations from industry practitioners, researchers and regulators
- Facilitated discussion time and Q&A
- Inspirational plenary speakers
- Trevor Kletz Hazards Lecture
- Exhibition hall
- Social and networking opportunities

Who should attend?

Hazards 32 is an ideal event for anyone who is active in process safety and risk management for chemical process facilities or other facilities dealing with hazardous materials. Process safety and loss prevention professionals working at all levels and across all industry sectors will benefit from attending.

Networking

Hazards was last held in-person in May 2019. Our virtual conferences have continued to facilitate knowledge-transfer and learning since, but they couldn't replicate the valuable networking opportunities available at a face-to-face event.

There will be plenty of time in the Hazards 32 programme for networking with fellow professionals, including a welcome drinks reception in the exhibition hall and an informal social event, helping you to rebuild networks and make new contacts.

We’ve also built plenty of time into the programme for facilitated discussion on our session themes. This will help to continue the conversations, identify the common issues facing practitioners and encourage networking.

www.icheme.org/hazards32
Programme

Presentations from industry practitioners, researchers and regulators will share examples of good practice, new approaches and valuable lessons learned that you can apply to your own operations, and will also explore some of the challenges and opportunities in process safety today.

Session themes:

- Asset Integrity
- Assurance
- ATEX/DSEAR
- Clean Energy
- Consequence Assessment & Modelling
- Digitalisation
- Education
- Environment
- Fire & Explosion Hazards
- Human Factors
- Hydrogen Hazards
- Hydrogen Network
- Lessons Learned
- Process Safety Competencies
- Process Safety Management
- Risk Assessment
- Safer Plant
- Safety Instrumented Functions (SIFs)
- Safety Leadership

Speakers

Dame Judith Hackitt
Trevor Kletz Hazards Lecture

Jasper Clark
Marsh Energy & Power
Plenary Speaker
Embedding Good Practice

Jane Lassey
Health and Safety Executive
Plenary Speaker
New Technologies

Peter Davidson
Tank Storage Association
Plenary Speaker
Leadership

Michelle Roberson
Shell Group
Plenary Speaker
Energy Transition

Steve Elliott
Chemical Industries Association
Plenary Speaker
Cross-Sector Learning

Watch on-demand

Conference attendees will be able to watch video recordings of the presentations after the event, to catch up on ones they missed or revisit content that interested them most.

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## Tuesday 18 October 2022

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:30-12:30</td>
<td>Workshop <strong>Bowties Making Sense of Safety</strong> <em>(prior registration required)</em></td>
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<tr>
<td>13:00-13:15</td>
<td>Opening session <strong>Welcome – Ken Rivers, Chair, Hazards 32 Technical Committee</strong></td>
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<td>13:15-14:00</td>
<td>Plenary speaker <strong>Michelle Roberson</strong> The Energy Transition Journey from a Process Safety Perspective, Michelle Roberson, General Manager, Process Safety, Shell Group, USA</td>
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| 14:10-14:35 | **Consequence Assessment & Modelling I**  
CDMAH in the Hydrogen Economy  
Jack Davy, Wood, UK |
| 14:40-15:05 | **Asset Integrity**  
Assessment of Vent Pipework Structural Support Response to Internal Explosion  
Andrew Benton, ESR Technology, UK |
| 15:10-15:35 | **Lessons Learned I**  
Can We Simplify Explosion Assessment at the Project Concept Stage? A Comparison Between Simplistic Models and CFD Simulations  
Pablo Giacopinelli, Karina Almeida Leñero & Graham Morrison, Gexcon, UK |
| 14:10-16:00 | Refreshment break in the exhibitor area |
| 16:00-16:25 | **Hydrogen Hazards II**  
Validation of Hydrogen Jet Fire Model in FRED  
Steven Betteridge & Pratap Sathiah, Shell, UK |
| 16:30-16:55 | Progress in CFD Simulation of Deflagration Using PDRFOAM  
Siram Raghunath, Pratap Sathiah & Pradeep Kumar Pavalavanni, Shell, India |
| 17:00-17:25 | **Fire & Explosion Hazards**  
DSEAR and RCP in a Novel Nuclear Application  
Keith Johnson, Matthew Webber, Jeff Tattersall & Garrett Davies, Sellafield Ltd, UK |
| 17:30-18:00 | Facilitated discussion |
| 18:00-18:15 | **Updates and welcome**  
Steven Flynn, Deputy Chair, IChemE Major Hazards Committee  
Axiom Engineering Associates, Welcome Reception Sponsor |
| 18:15-19:45 | Welcome reception in the exhibitor area |

This is a draft programme and is subject to change.

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Wednesday 19 October 2022

08:30-09:15 Plenary speaker
Jane Lassey
Regulatory and Business Strategies in a Rapidly Changing World
Jane Lassey, Director, Chemicals, Explosives and Microbiological Hazards Division, Health and Safety Executive, UK

09:15-10:00 Plenary speaker
Peter Davidson
The Mechanics of Process Safety Leadership: What Have We Learnt?
Peter Davidson, Executive Director, Tank Storage Association, UK

10:00-10:30 Refreshment break in the exhibitor area

10:30-10:55 Investigating a Complex Energetic Decomposition Incident Using Kinetic Modelling to Establish Safe Manufacturing Conditions
Stephen Rowe & Keith Middle, DEKRA, UK

10:55-11:00 The Risk Assessment Matrix – Fit for Purpose?
Adrian Wright, TCE Gas Engineering, UK

11:00-11:25 Steel Fracture Due to Emergency Depressurisation to Protect Gas Compressor: Experiment and Modelling
Vincent Blanchetière, Kevin Gault, Yanzhu Wang & Maxime Charrier, GRTgaz, France

11:25-11:40 LOPA – What’s the Target?
Carolyn Nichols & Jordan Smith, RAS, UK

11:40-11:55 Developing a Solid-Flame Model for Assessing Consequences of Rectangular Pool Fires and Trench Fires
Yongfu Xu, David Worthington & Adeyemi Oke, DNIV, UK

11:55-12:10 Bridging the Gaps in Industrial Risk Assessment and Emergency Response Planning
Andre Peseval, Shamrock HSE, Trinidad & Tobago; Mark Baldeo, Arkulus Solutions, Trinidad & Tobago

12:10-12:25 Risk Based Prioritisation of Maintenance Backlog
Chuan Birajdar & Mark Jefferson, Koch Technology Solutions, UK

12:25-12:40 Developing a Resilience Model for the Analysis of Process Systems at the Early Design Stage
Freya Vesey & Joan Cordiner, University of Sheffield, UK

12:40-12:55 Facilitated discussion

12:55-13:00 Lunch break in the exhibitor area

13:00-14:00 Agenda

14:00-14:15 Safe Plant Reinstatement Following Intrusive Work: New Energy Institute Guidance
Peter Webb, BeyondRisk, UK

14:15-14:30 Pay it Forward...or Backwards!
The Importance of Mentorship and Knowledge Sharing
Kayley Clusker, Atkins, UK

14:30-14:45 Big Data and Cyber Security: What Our Systems Are Telling Us and Why We Need to Listen
David Allen, ABB, UK

14:45-14:55 From Theory to Practice: a Training Course to Spread the Safety Rules and Knowledge
Romain Jambut, Vincent Blanchetière & Gilles Chatelet, GRTgaz, France; Christopher Hensch, CNPP, France; Anne Leprince, Storengy, France; Claire Saint-Macary, Tegnra, France

14:55-15:10 Effective Management of Change (RISC) Digitalisation
Liew KuoFung & YeeKiong Thien, PETRONAS, Malaysia

15:10-15:25 The Importance of Mentorship and Knowledge Sharing
David Allen, ABB, UK

15:25-15:40 Final Element Failure Alarms: Are They More Complicated Than You Think
Andy Brazier, AB Risk, UK

15:40-15:55 Determining the Right Time to Digitise the HAZOP
Paul Seccombe & Bert Eldor, Kairos Technology Solutions

15:55-16:10 Digitalising for Value Generation – How, When and Where to Use Big Data Analytics for Remote Monitoring and Inspection of Operating Assets
Will Leonard, ABB Energy Industries, UK

16:10-16:25 Taking a Leap from a Compliance-Based Approach to a Risk-Based Process Safety Approach
Syed Salwatt Hosain Rizvi & Ameer Hamza, Engro Polymers & Chemicals, Pakistan

16:25-16:40 How I Became A Better Safety Engineer
Keith Miller, Safety & Reliability Group, IMechE, UK

16:40-16:55 Is It the Time Right to Digitise the HAZOP?
Paul Seccombe & Bert Eldor, Kairos Technology Solutions

16:55-17:10 E-Hazop: a Fresh Approach to Reviewing Electrical Systems
Rob Fogg, ABB, UK

17:10-17:25 Saturation waste: The mechanics of a major HAZOP
Steven Fyln, Institution of Chemical Engineers (IChemE), UK

17:25-17:40 Process Safety: Keeping the Peace in a Post War Age
Angus Kiddie, Process Safety Matters, UK

17:40-17:55 Discussion: IChemE’s Role in Teaching Undergraduates
Peter Davidson, Executive Director, Tank Storage Association, UK

17:55-18:05 Facilitated discussion

19:00-22:00 Social event at the Double Tree by Hilton Harrogate Majestic Hotel & Spa (ticket only)

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Thursday 20 October 2022

08:30-09:15  Plenary speaker
Steve Elliott
Building a Safer Future
Steve Elliott, Chief Executive, Chemical Industry Association (CIA), UK

09:15-10:00  Trevor Kletz
Hazards Lecture
Dame Judith Hackitt
Learning Lessons – Why Is It So Difficult and Why Ethics Are So Important in Engineering
Dame Judith Hackitt, Chair, Enginuity, UK

10:00-10:30  Panel discussion
Meeting the Major Process Safety Challenges in Industry

10:30-11:00  Refreshment break in the exhibitor area

11:00-11:25  ATEX/DSEAR I
Battery Warehouses – the Major Accident Challenge
Pat Swords, PM Group, Ireland
Major Common Issues Arising from Process Safety Management Audits
Rod Prior, SHExcellence, South Africa

Adam Connell & Matthew Price, INEOS, UK

12:00-12:25  ATEX & UKEX – We Don’t Know What We Don’t Know
Scott Harding, Woodcock & Wilson, UK

12:35–13:20  Plenary speaker
Jasper Clark
Turning Good Practice into Common Practice
Jasper Clark, Risk Engineering Hub Leader, Marsh Energy & Power, UK

13:20–14:15  Lunch break in the exhibitor area

14:15–14:40  CLP and DSEAR Conundrums – the Practical Implications and the Contribution to COMAH
Keith Johnson, Sellafield Ltd, UK
Recommendations for the Selection of Equation of State During Design and Operation of Impure CO2 Transport
Craig McKay, Wood, UK

14:45–15:10  Hazardous Area Classification of a Multipurpose Chemical Plant
Praphanth Shivakumar, PSK Pharma Solutions, UK
Modelling CO2 Pipeline Ruptures Using Computational Fluid Dynamics – a Review of Model Setup Parameters Which Affect CO2 Plume Behaviour and Demonstration of Findings
Peter Johnson, Feargus Schofield & Saffron Wyse, Thornton Tomasetti, UK

15:15–15:40  Facilitated discussion

15:45–16:15  Facilitated discussion

16:15–16:30  Closing session

This is a draft programme and is subject to change.
Venue

Harrogate Convention Centre
King’s Road
Harrogate HG1 5LA

www.harrogateconventioncentre.co.uk

Fees and registration

Visit www.iche.me.org/hazards32 to see the conference fees and to register.

Sponsorship and exhibition packages

Sponsoring or exhibiting at Hazards 32 is an excellent opportunity to raise your profile within the international major hazards community before and during the event. We have packages to suit all budgets, allowing you to showcase your products and services, engage with attendees, and generate new leads.

To discuss how your company can get involved, please contact our colleagues at Media-Shed on +44 (0)20 7183 1815 or at ichemeevents@media-shed.co.uk.

Contact us

Contact us at hazards@iche.me.org

“Come and be curious, come and learn something, come and meet some great people who are really passionate about this subject and can help you.”

Ken Rivers
Chair of the Hazards 32 technical committee