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<th>Time</th>
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<tr>
<td>13:30-13:45</td>
<td><strong>Opening session</strong></td>
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| 13:45-14:30 | **Plenary presentation**  Professor Rhona Flin  
Developments in Human Factors and Behavioural Safety  
Professor Rhona Flin, Emeritus Professor, University of Aberdeen and Professor of Industrial Psychology, Robert Gordon University, UK |
| 14:30-15:00 | **Learning from Incidents**                                               |
| 15:00-15:15 | **Catastrophic Incidents – Prevention and Failure**                     |
|            | Trevor Hughes. Hughes Consultancy and Research, UK                       |
| 15:15-15:45 | **Assessment Techniques for Supporting ALARP**                           |
|            | Richard Tiffin. ESR Technology, UK                                        |
| 15:45-15:55 | **Guidance for UK Hydrogen Safety Case Development**                    |
|            | Sean Baker and Nadia Hardy, ERM, UK                                      |
| 15:55-16:15 | **Performing a Technical Audit With Some of the Findings**              |
|            | Robert Caraway. Norwegro, UK                                             |
| 16:15-16:45 | **Lessons Learned from Past Incidents/Near-misses – WestJet Flight 2652** |
|            | Abbie Harvey. UK Civil Aviation Authority, UK                           |
| 16:45-17:15 | **Hydrogen as a Fuel for Industry: Technical and Safety Challenges**     |
|            | Luke Butcher. ESR Technology, Accrom, UK                                 |
| 17:15-17:30 | **Identifying and Managing Weak Signals – The Platypus Philosophy**       |
|            | Trish Kearn. IChemE Safety Centre, Australia                             |
| 17:30-18:15 | **Hazards Lecture**                                                      |
|            | Amir Gerges. New Energy and Sustainable Technology, USA                  |
| 18:15-18:30 | **IChemE update**                                                       |
| 18:30-20:00 | **Welcome reception**                                                    |
Wednesday 8 November 2023

Developments in Hydrogen Infrastructure and Strategy
Dr Stuart Hawksworth, Head of Centre for Energy and Major Hazards, Health and Safety Executive, UK

Safety Culture - Leadership

10:30-11:00
It Starts at the Top – The Effect of Human Factors and Leadership on Safety
Yorgos Kastanis
Lessons Learned from Experimental Tests Concerning Liquid Hydrogen Releases
Federica Toninari, Federica Ustini and Nicola Paternò, Norwegian University of Science and Technology, Norway, Emre Sabuncu, Valerio Cozzi, University of Bologna, Italy

Hydrogen Experimental Results

11:00-11:30
Engaging Leadership: Getting Better Insights from Incident Investigation
Stuart King, Energy Institute; Tony Gower-Jones, Stichting Toppled Foundation; Ibrar Khan, Energy Institute, UK

Fresh imaging technologies for the estimation of the heat flow involving a liquid hydrogen tank exposed to a fire
Allor Schaner, Norwegian University of Science and Technology, Norway; Gianluca Salerno, University of Bologna, Italy; Christian Mota, Università Politecnica De Catalunya, Spain; Valerio Cozzi, University of Bologna, Italy; and Federica Ustini, NTNU, Norway

Digitalisation

11:30-12:00
Process Safety Leadership Site Visit Toolkit
Ashley Hynd, UK

Quantification of Liquid Hydrogen Jet Fires from Large Scale Experiments
Steven Bevan, Shell, UK

Driving Process Safety Performance Through adopting a Digital Approach
Sai Vijaya Krishna Malluri, HML, India

Guidelines for Managing Abnormal Situations
Roger Stokes, Baker Risk, UK

12:00-12:30
The Difference That Makes the Difference – Identifying and Applying Criteria for Safety Leadership Excellence
Rachael Cowin, Legitimate Leadership, UK

Effect of Hydrogen Depressurisation on Steel Pipe in Case of Purge Leakage: Experimental Results and Analysis
Vincent Blachetiere, Giffage, Guillaume Leroy, INERIS; Jérôme Vincent Blachetière, GRTgaz; and Magali Poli, Giffage, France

How Much Chronic Unease is Enabling Process Safety Fundamentals in the Framework used At
Houst Energy (UK) Limited, UK

Preparing an External Risk Assessment: Good Practice for the Control of Major Accident Risk
Tom Downie, INEOS FPL, UK

Presented by Wolters Kluwer

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

Safety Culture - Operator's Experience

13:30-14:00
Enhancing Process Safety
Caroline Myers and Simon Magfurd, EssenceHIF, UK

Rationalising Ignition Probability Models for QRA of Hydrogen Supply Chain Facilities
Sunny Raghunath, Shell, India and Andrew Creasey, Shell Global Solutions, UK

Developing the Skills for our World Class Process Safety Workforce
Nial Smith and Justine Fors, Cognit Skills, UK

How to Carry Out Human Factors Assessments of Critical Tasks – CERP Guidance
Pippa Brookings, HF Expertise; Lorraine Braken; Lorraine Braken Consulting; and Jamie Henderson, Human Reliability Associates, UK

14:00-14:30
Safety Culture in an Operating Environment
Ron Ramhout, Safety Management Solutions, UK

To Encourage or Not to Encourage? An Investigation into the Influence of Ventilation Arrangements on Hydrogen Explosion Hazards in Compressors
Kama Almadje LR and Chris Gold, Gecon, UK

The Next Level in Process Safety with Intr-in-Int and Organisational Learning
André de Rooij, Coen van Driel and Chris Williams, New Technology, Netherlands

Unique insights from Safety Critical Task Analysis to Support Rapid Identification of Human Factors Issues Related to Control Room Tasks
Dominic Furniss, and Jamie Henderson, Human Reliability Associates and Karen Singh Bhinder, Johnson Matthey, UK

14:30-15:00
Transition of Engine Facilities from Compliance-based to Risk-based HSE Management System (Process Safety) – Case Study of UK Drilling
Dawar Hussain Syed and Murtun Multia, Engine Facilities Limited, Pakistan

Hazard Assessment of Energy Storage Systems with a Focus on Hydrogen and Hydrogen Derivatives
John Evans, Thornton Tomasetti, UK

Facilitated discussion

How to Carry Out Human Factors Reviews of Safety Critical Tasks: Safety Critical Task Analysis
Tanya Carrer and Simon Layton, IES International, UK

16:15-16:30
Workshops

Safety Culture

15:45-16:15
How Much Chronic Limbache is Enough?
Jan Splinter and Mohammad Sharif, Sandoz Consumer, Netherlands

Lessons Learned from Hydrogen System Integration
Graham Minns and Karina Allemand, Gecon, UK

Development of a Safety Culture Model and Measure for Great Britain’s Nuclear Industry
Nick Shaw, Office for Nuclear Regulation, UK

Integration of Qualitative Human Factors Critical Safety Task Analyses with Wider Engineering Risk Assessments
James Heming and Donna Furniss, Human Reliability Associates, UK

16:15-16:30
OHAZOP

Presented by IChemE

16:15-16:30
Leak Testing When Reinstating Plant – It’s More Complicated Than You Think
Michelle Cormack, Perenco UK and Andy Brazier, AB Risk, UK

Responding to Climate Change: Improving Resilience to Changing Natural and External Hazards at a Nuclear Fuel Facility
David Threlfall, Rebecca Bettison and Jamie Henderson, Human Reliability Associates, UK

16:45-17:15
Kick Starting Process Safety in the Pulp and Paper Industry in Western Canada
John Robertson, Ionoxy, Apatite, Suncor Energy Inc, Canada

Lessons Learned from Incident: Criticality of Major Maintenance Operations
Gus Collin, Allokha Subedi, Alejandro Campos, Bing Singh Thapa, and Nicole Pabst, Norwegian University of Science and Technology, Norway

Responding to Climate Change: Improving Resilience to Changing Natural and External Hazards at a Nuclear Fuel Facility
David Threlfall, Rebecca Bettison and Maryyn Hayos, Rola-Royce, UK

Facilitated discussion

17:15-17:45
Facilitated discussion

19:00-22:00
Social event (ticket only)

This is a draft programme and is subject to change.

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<td>09:00-09:45</td>
<td>Opening Remarks</td>
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<tr>
<td>10:00-10:45</td>
<td>Human Factors: Human Factors Check - An Approach to Assessing Compliance with the Human Factors Operational Delivery Guide Julie Bell and Poppy Broccolino, Human Factors Expertise, UK</td>
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<td>10:45-11:15</td>
<td>Human Factors Issues and Solutions When Undertaking Major Projects on Operational Sites Andy Braier, AB Risk and Nick Wise, SSE Thermal, UK</td>
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<td>11:15-11:45</td>
<td>Making Safe Decisions – Our Brains Are Our Worst Enemy Daryl Wade, ODEKA, UK</td>
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<td>11:45-12:15</td>
<td>Data Analysis of Behavior Patterns – How do We Read Them? Anshul Kumar Taneja and Shikhar Kamble, NIMEL, India</td>
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<td>12:15-13:15</td>
<td>Lunch Break and Poster Viewing</td>
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<td>Situation Awareness as a Factor in Accidents and Incidents Graeme Dick and Mike Pollard, Andy Brazier, AB Risk, UK</td>
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<td>14:15-14:45</td>
<td>Using Data Science to Identify Human Factors Affecting Process Safety Andrea Ross and Nadya Nore, Ener, UK and Natalia Flores Quiroz, Heynes and Allen Miller, Insight Proconics, South Africa; and Peter McDonald, Stellenbosch University, South Africa</td>
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<td>14:45-15:00</td>
<td>Practical Process Safety Decision-Making in Decarbonisation and New Technology Plant Design Peter Ferrell and Stuart Hunter, Petrofac, UK</td>
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<td>15:00-15:15</td>
<td>Performing a Quantitative Risk Assessment for Utility-scale LiFePO4 Battery Energy Storage Systems: A Case Study for Energy Storage in South Africa Lisa Smit and Adrian van Wyk, Proccor, South Africa; Oliver Prensies and Alan Miller, Insight Numeros, USA; Richard Walls and Natasha Fene Quinze, Stellenbosch University, South Africa; and Peter McDonald, Chen Stryling and Andrew Nichol, Viper Applied Sciences, UK</td>
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<td>15:15-15:30</td>
<td>Mitigation Strategies for Lithium Ion Battery Energy Storage Systems Denise Beach, FM Global, USA</td>
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<td>15:30-16:15</td>
<td>A Practical Application of Radio Frequency Interference Assessment Steve Sherwen, RPS Consulting, UK and Ireland, UK</td>
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<td>16:15</td>
<td>Closing remarks</td>
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