

All times are Greenwich Mean Time (GMT)

09:30-09:45	Welcome from the conference chair				
09:45-10:40	Plenary speaker	<i>A Reflection of How the Downstream Oil Sector Responded to the Outbreak of COVID-19 and How that Response Mapped to Process Safety Management During the Ensuing Pandemic</i> Simon Wood, UK Petroleum Industries Association (UKPIA)			
	Lessons Learned from the COVID-19 Response I	Assurance	Safety Culture I	Modelling I	
	Session chair: Trish Kerin	Session chair: Eamon Chandler	Session chair: James Birch	Session chair: Felicia Tan	
10:45-11:10	<i>Lessons Learned from the COVID-19 Pandemic</i> Keith Plumb, Integral Pharma Services, UK	<i>Process Safety Key Performance Indicators (API-754 Guidelines)</i> Ameer Hamza & Syed Salwat Hosain Rizvi, Engro Polymer & Chemicals, Pakistan	<i>Process Safety Site Visit to Improve PSM Culture</i> Ipek Isteben & Seçkin Gökçe, Tupras, Turkey	<i>Applying Standards and Transient Simulations to Find Root Cause of Fire Incident</i> Mira Ezora Zainal Abidin, Siti Fauzuna Othman & Zalina Harun, Petronas, Malaysia	
11:15-11:40	<i>Case Study – Design and Build of New Plant for Production of a Key Ingredient for a COVID-19 Vaccine</i> Carolyn Nicholls, RAS, UK	<i>Learning from Major Incidents Related to Process Safety Audits</i> Zsuzsanna Gyenes, IChemE Safety Centre, UK	<i>Influencing Improvements in Safety Culture Using Qualitative Research Methods: a Regulatory Perspective</i> Nick Shaw, Office for Nuclear Regulation, UK	<i>Advanced Methodology of Structural Redundancy Analysis for Optimising Passive Fire/Cryogenic Spill Protection</i> Hiroki Takahashi & Yoshinori Hiroya, JGC Corporation, Japan	
11:45-12:10	<i>Experiences and Lessons During COVID-19</i> Ellen Daniels, British Compressed Gases Association (BCGA), UK	<i>Integrated PHA approach for an Auditable Barrier Management Regime</i> Khama Matiti, Monaco Engineering Solutions, UK & Majid Siddiqui, North Caspian Operating Company, Kazakhstan	<i>Process Safety Cards "A Good Deal Safer"</i> David Hatch, Process Safety Integrity, UK	<i>Comparisons of the Predictions of the Dispersion Model DRIFT Against Data for Hydrogen, Ammonia and Carbon Dioxide</i> Graham Tickle, ESR Technology, UK	
12:15-12:40	Facilitated discussion	Facilitated discussion	Facilitated discussion	Facilitated discussion	
12:40-13:15					
13:15-14:15	Break				
14:15-15:10	Plenary speaker	<i>Cross Sector Learning – What the Chemical and Process Industries Can Learn from the Building Sector</i> Peter Baker, Health and Safety Executive, UK			
	Cross-sector Learning	Analysis of Losses	Risk Assessment	Modelling II	Process Safety Competencies
	Session chair: Ken Rivers	Session chair: Paul Coleman	Session chair: James Fairburn	Session chair: Diego Lisbona	Session chair: Azzam Younes
15:15-15:40	<i>What the Processing Industry Must Learn from the Boeing 737 MAX Crashes</i> Richard Carter, ACM Facility Safety, Canada	<i>Trends in Offshore Process Equipment Leak Frequencies</i> Brian Bain, DNV, UK	<i>Cumulative Risk Model of Safety Barriers – Case Study</i> Yasser Fathy, Rashid Petroleum, Egypt	<i>Is Your Tank Inert? A Study into the Challenges of Ensuring Inert Atmospheres</i> Alan Collier & Stephen Puttick, Syngenta, UK	<i>Understanding Your Process Safety Competency</i> Trish Kerin, IChemE Safety Centre, Australia & Ken Gray, The Keil Centre, UK
15:45-16:10	<i>Thinking Outside the Box: Lessons and Experience that the Major Hazard and Nuclear Sectors Can Learn from Each Other</i> Ian Phillips, Office for Nuclear Regulation (ONR), UK	<i>Analysis of Accidents and Good Inspection Practices for the Management of Ageing of Industrial Plants</i> Romualdo Marrazzo & Fabrizio Vazzana, Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA), Italy	<i>Use of Live Barrier Models to Manage Risk</i> Rae Ann Joseph, Atlantic LNG, Trinidad & Tobago	<i>Addressing the Unique Challenges of Hydrogen Gas Detection in 3D Fire and Gas Mapping</i> Khama Maiti, Chris Dysart, Alex Lebas, Lloyd Samaniego, Hasanah Shamsuri, Ahmad Muzammil & Filippo Derosa, Monaco Engineering Solutions, UK	<i>Practical Experience of Rolling out Process Safety Competency Assessments Across a Large Multinational Company</i> Graeme Ellis, Matthey, UK
16:15-16:40	<i>A Case Study of The Halo and Safety Culture in Motorsport</i> Andrew Laird & Dr Esther Ventura-Medina, University of Strathclyde, UK	Facilitated discussion	<i>Evaluation, Visualisation and Monitoring of Cumulative Risk Exposure Resulting from Safety Critical Hardware and Human Barriers Deviation</i> Tayo Olunsanya, Olu Adeyemi & Seyi Olusanya, Melios Ltd, UK	Facilitated discussion	<i>Linking Critical Competencies with Major Accident Hazards</i> Chris Proud, Andrew Lawson & Luke Butcher, ESR Technology, UK; Andy Brazier, AB Risk, UK
16:40-17:15	Facilitated discussion		Facilitated discussion		Facilitated discussion

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09:30–10:25	Plenary speaker	<i>Keeping Risk in Perspective: Learning to Manage Black Swan Risks</i> Professor Atula Abeysekera, Imperial College London			
	Lessons Learned from the COVID-19 Response II Session chair: Ken Rivers	Environment Session chair: Tony Clayton	Human Factors Session chair: James Birch	Process Safety Management Session chair: Laurence Cusco	Pressure Relief Session chair: Caroline Ladlow
10:30–10:55	<i>LOPA Versus Covid – Return to Sustainable Living</i> Ali Mokhber, Shivani Aggarwal & Pablo Garcia-Trinanes, University of Greenwich, UK	<i>Flood Risk Management – Are You Prepared?</i> Brad Eccles & Steve Fitzgibbon, ABS Consulting, UK	<i>The Impact of Cognitive Bias in Safety</i> Trish Kerin, IChemE Safety Centre, Australia	<i>Effective Field Engagement and Management of Higher Consequence Scenarios</i> Martin R Ovenden, ExxonMobil, UK	<i>Assessment of Operators' Response Time on Safe Operation of Distillation Columns: a Process Dynamic Analysis</i> Zalina Harun & Zulfan Adi Putra, Petronas, Malaysia; Nik Abdul Hadi Md Nordin, Universiti Teknologi PETRONAS, Malaysia; Darmawan Ahmad Mukharror, PT Keselamatan Proses, Indonesia
11:00–11:25	<i>Lessons Learned and the Pros & Cons of Virtual HAZOP</i> Azzam Younes, AyEnergi Consulting, UK	<i>Guidance to Provide an Economic Value (or Series of Values) Which Can Be Applied When Undertaking a CBA Under Major Hazard Establishments for Environmental Purposes</i> Amaia O'Reilly, Energy Institute, UK	<i>Human Factors Issues in Turnarounds (TARs)</i> Jamie Henderson & Richard Marshall, Human Reliability, UK	<i>Applying Process Safety Experiences and Lessons Learnt to Achieve Improvements in Plant Up-Time and Stability of Production</i> Anees Iqbal Ansari & Mohammad Moonis, Pleiades Global, UK	<i>Mechanical Response of Shells to Tube Rupture in Shell-and-Tube Heat Exchangers</i> Colin Deddis, Greymore Engineering Services, UK; Mark Scanlon, Energy Institute, UK; Alan Clayton, Consultant, UK; Rob Kulka, TWI, UK
11:30–11:55	Facilitated discussion	<i>The Application of Satellite Data for Detection and Monitoring of Methane Emissions and the Integration Opportunities with Weather and Plant Sensor Data</i> Darren Steele, Stiperstone Analytics, UK & Dr Ian Spence, GHGSat, UK	<i>Managing Operator Fatigue – It's About More Than Just Sleep. Incorporating Lessons Learned from Offshore Wind into Process Safety in Onshore Major Hazard Facilities</i> Stefi McMaster, University of Hull, UK & Jenny Hill, RAS, UK	Facilitated discussion	<i>Detailed Analysis of Temperature and Pressure Behaviour During Reaction Runaway for Vent Sizing</i> Yuto Mizuta Turo, Motohiko Sumino, Hiroaki Nakata, Yuichiro Izato & Atsumi Miyake, Mitsubishi Chemical Corporation, Japan
11:55–12:30		Facilitated discussion	Facilitated discussion		Facilitated discussion
12:30–13:30	Break				
13:30–14:25	Plenary speaker	<i>Dropped in the Deep End – a Personal Senior HSE Management Journey</i> Terry Cooper, Offshore Petroleum Regulator for Environment and Decommissioning (OPRED), UK			
	Identifying & Embedding Good Practice in Process Safety Session chair: Paul Kenny	Clean Technologies – Hydrogen I Session chair: Ashley Hynds	DSEAR Session chair: Andy Mackiewicz	Process Hazard Analysis Session chair: Diego Lisbona	
14:30–14:55	<i>The Message from Losses – What You Need to Know and Learn From to Prevent Major Accidents</i> Phil Hewer & Scott McNeil, Marsh, UK	<i>Hydrogen Projects – Business as Usual?</i> Clare Dunkerley, Otto Simon, UK	<i>Application of Functional Safety to a Burner Management System – How to Avoid Common Pitfalls</i> Michael Scott, aeShield, USA	<i>Latest HAZOP Practice</i> James Fairburn, Chevron, UK	
15:00–15:25	<i>Why Did They Do That? How To Conduct A Human Factors Incident Investigation</i> Steve Cutchen, retired Incident Investigator, Chemical Safety Board (CSB), USA	<i>Ammonia, Methane, Hydrogen Oh My! Understanding Hazards from Alternative Power to Gas Options</i> Darren Malik & Kelly Thomas, BakerRisk, USA	<i>The Role of an Innovative Approach to DSEAR in Accelerated Early Career Development</i> Rebecca Phillip & Adriana Reyes Cordoba, Atkins Global, UK	<i>Hazard Identification and Risk Assessment for Smaller Changes: Tips and Tools for Avoiding Misses and Improving Quality</i> Jody Olsen, JE Olsen Consulting LLC, USA	
15:30–15:55	<i>Embedding the Lessons of Hard Knocks – Trying Not to Repeat Our Mistakes Time and Time Again</i> Ken Patterson, Consultant, UK & Gillian Wigham, Synthomer, UK	<i>Developments and Uncertainties in Hydrogen Fuels Risk Assessment</i> Michael Moosemiller, Baker Engineering & Risk Consultants, USA & Rob Magraw, BakerRisk Europe, UK	Facilitated discussion	Facilitated discussion	
16:00–16:25	<i>Identifying and Embedding Good Practice in Process Safety – Safety Culture/Leadership</i> Peter Culbert, Exida, Ireland	<i>Quantification of the Risks Associated with a Hydrogen Gas Distribution Network</i> Andrew Phillips, Mike Acton & Ann Halford, DNV, UK; R Oxley & D Evans, Northern Gas Networks, UK			
16:25–17:00	Facilitated discussion	Facilitated discussion			

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09:30–10:25	Plenary speaker		<i>Managing Cyber Security Risks: a Regulator's Perspective</i> Sarabjit Purewal, Health and Safety Executive, UK		
	Digitalisation I	Clean Technologies – Other	Safety Culture II	Mist Hazards	Risk Analysis
	Session chair: Matt Clay	Session chair: Rob Magraw	Session chair: Trish Kerin	Session chair: Diego Lisbona	Session chair: Andy Crerand
10:30–10:55	<i>Best Practices to Optimise Management of Change System and Manage the MOC Digital Transition</i> Hussain Alabduljabbar, Saudi Aramco, Saudi Arabia	<i>Managing the Major Accident Potential of Carbon Capture and Storage CO₂</i> Hamish Holt & Michael Simms, DNV, UK	<i>The Safety Culture of the Regulator</i> Marc McBride, Office for Nuclear Regulation, UK	<i>Demystifying Mist Explosion Hazards</i> Stephanie El-Zahlanieh, Idalba Souza Dos Santos, Hugo Tostain & Olivier Dufaud, University of Lorraine, France; Alexis Vignes, INERIS, France; Simon Gant, Health and Safety Executive, UK	<i>Preliminary Hazard Analysis and Mitigation for the Prevention of Catalyst Regeneration Vessel's Catastrophic Rupture</i> Manesha Thiyaga Rajan, Noor Arnida Abdul Talip & Hasnor Hassaruddin Hashim, Petronas, Malaysia
11:00–11:25	<i>Improving Loss Prevention in High Hazard Industries Through the Evaluation of Safety Culture and Error Traps from Structured and Unstructured Data Using Machine Learning</i> Gus Carroll & Dr Nyala Noe, Empirisys, UK; Dr Mike Orley, Centrica Storage, UK	<i>Smoke, Sparks, Flames or Explosions? An Experimental Study into How Lithium-ion Cell Failure Varies in Open Field</i> Katie Abbott, Jonathan Buston & Jason Gill, Health & Safety Executive, UK	<i>Leadership Matters – Real World Examples of Process Safety Leadership Good Practice</i> Ashley Hynds & Colin Chambers, WSP, UK	<i>Ignitability of Diesel Fuel Mists over a Vertical Distance</i> Louise O'Sullivan & Dr Richard Bettis, Health & Safety Executive, UK; Dr Anthony Giles, Cardiff University, UK	<i>New International Failure Frequency Database for High Pressure Gas Installations</i> Mike Acton, C Humphreys & Z Wattis, DNV, UK; H Olafsen, Energinet, Denmark
11:30–11:55	<i>Cyber Attacks on Process Plants and Understanding What is Needed</i> Clive de Salis, Dekra, UK	<i>Experimental Understanding of Displacement and Forces Generated Due to Swelling During Lithium-ion Pouch Cell Failure</i> Gemma Howard, Jason Gill & Jonathan Buston, Health & Safety Executive, UK	<i>From Zero Accidents to Safe Sustainable Production</i> Urbain Bruyere, Environmental Resources Management (ERM), UK	<i>Flammability Testing for Heavy Oil Mists</i> Hannes Engel, Gexcon, UK	<i>Assessing the Risks When Expanding Process Plants or Building New Units on Compact Sites</i> Robert Canaway, Suregrove, UK
11:55–12:30	Facilitated discussion	Facilitated discussion	Facilitated discussion	Facilitated discussion	Facilitated discussion
12:30–13:30	Break				
13:30–14:25	Plenary speaker		<i>Engineering X Safer Complex Systems – Learning Through Case Studies</i> Professor Brian Collins CB, UCL, UK & Dr Steve Gwynne, Lund University, Sweden		
	Digitalisation II	Clean Technologies – Hydrogen II	Fire and Explosion Hazards	Case Histories	
	Session chair: David Hatch	Session chair: Andy Crerand	Session chair: Chris Tighe	Session chair: Zsuzsanna Gyenes	
14:30–14:55	<i>Treating Data as an Asset – Experiences of the Early Adopters</i> Brad Eccles, ABS Consulting, UK; Henrique Paula, Steve Arendt & Matt Mowrer, ABS Group, USA	<i>Review of the Current Understanding of Hydrogen Jet Fires and the Potential Effect on PFP Performance</i> Michael Johnson & Robert Crewe, DNV, UK; Graham Boaler & John Evans, Thornton Tomasetti, UK	<i>Fight or Flight: What's your Fire Response?</i> Kristen Graham & Karen Vilas, Baker Engineering & Risk Consultants, USA	<i>Human-Factors and Automation-Related Accidents in the Railway Industry</i> Mona Ahmadi Rad, Lianne M Lefsrud, Michael Hendry & Daniel Blais, University of Alberta, Canada	
15:00–15:25	<i>Using Artificial Intelligence and Machine Learning Techniques to Analyse Incident Reports</i> Fereshteh Sattari, Daniel Kurian, Renato Macciotta & Lianne Lefsrud, University of Alberta, Canada	<i>Maximum Overpressure and Flame Velocity of Methane/Hydrogen Layers Vented Deflagrations in a Large-Scale Enclosure</i> David Eduardo Torrado Beltran, James Fletcher, Andrew Tooke & Philip Hooker, Health & Safety Executive, UK; Thomas Isaac, Progressive Energy, UK; Dave Lander, Consultant, UK	<i>SafePool</i> Seckin Gokce, Ahmet Can Serfidan, Eyup Azizoglu & Gokhan Gedik, Tupras, Turkey	<i>Investigating Unusual Powder Decomposition Incidents</i> Stephen Rowe, Clive de Salis, Simon Gakhar & Andrew Jennings, Dekra Organisational & Process Safety, UK	
15:30–15:55	<i>Practical Guidance for Applying Data Science Techniques in Health & Safety</i> Scott Kimbleton & Graziella Caputo, IBM, USA	<i>Assessment of Enclosure Ventilation Safety for Hydrogen Fuelled Gas Turbines</i> Tristan Vye & Aidan Wimshurst, Frazer Nash Consultancy, UK	<i>The Use of Ester Based Transformer Liquids for Reduced Fire Risk and Lower Costs</i> James Reid, M&I Materials, UK	<i>Investigation into a Microbiologically Induced Corrosion (MIC) Failure of an Onshore Pipeline</i> Keith Birkitt, Aneta Nemcova & Ian Chapman, Health & Safety Executive, UK	
16:00–16:25	<i>How is Cybersecurity Changing Process Safety?</i> Patrick O'Brien, exida, USA 	<i>The Use of CFD for the Design of Hydrogen Bulk Storage Areas</i> Pablo Giacomini, Michael Bristow, Graham Morrison & Gary Pilkington, Gexcon, UK	Facilitated discussion	Facilitated discussion	
16:25–17:00	Facilitated discussion	Facilitated discussion			

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