

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	
	Presentation summaries >>	Presentation summaries >>	Presentation summaries >>	Presentation summaries >>	
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>A Case Study for Natural Gas Explosion in a Confined Space</i> Md Easir Arafat Khan, Easir A Khan, Iftekhar Hassan & Sayedil Morsalin, Bangladesh University of Engineering and Technology, Bangladesh	
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 & Robert Hanson, Croda Europe, UK	<i>Analysis of Quantitative Risk Assessment Methodology and Worldwide Comparison on Risk Acceptability Criteria</i> Ravi Kumar Sharma, Indian Institute of Technology, India	<i>Influencing Improvements in Safety Culture Using Qualitative Research Methods: a Regulatory Perspective</i> Nick Shaw, Office for Nuclear Regulation, UK	<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	
11:45-12:10	<i>Title to be confirmed</i> Ellen Rivers, British Compressed Gases Association (BCGA), UK	<i>Learning from Major Incidents Related to Process Safety Audits</i> Zsuzsanna Gyenes, IChemE Safety Centre, UK	<i>Process Safety Cards “A Good Deal Safer”</i> David Hatch, PS Integrity, UK	<i>Advanced Methodology of Structural Redundancy Analysis for Optimising Passive Fire/Cryogenic Spill Protection</i> Hiroki Takahashi & Yoshinori Hiroya, JGC Corporation, Japan	
12:15-12:40	<i>LOPA Versus Covid – Return to Sustainable Living</i> Pablo Garcia-Trinanes & Ali Mokhber, University of Greenwich, UK; Christopher Ross, UK	<i>Recommendations and the Broken KPI – Optimising PHA Recommendation Implementation</i> Ronjit Mukherjee, RiskAlive Analytics, Canada	Facilitated discussion	<i>Comparisons of the Predictions of the Dispersion Model DRIFT Against Data for Hydrogen, Ammonia and Carbon Dioxide</i> Graham Tickle, ESR Technology, UK	
12:40-13:15	Facilitated discussion	Facilitated discussion		Facilitated discussion	
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
	Presentation summaries >>	Presentation summaries >>	Presentation summaries >>	Presentation summaries >>	Presentation summaries >>
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>Strengthening Regulators' Competence in Learning from Operational Safety Performance</i> Fidel Ilizastigui, Todus Advisors, Cuba
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>Monte Carlo CFD Simulations for Quantifying Uncertainty Associated with Vapour Cloud Explosions</i> Christopher Stirling, Viper Blast, UK & Jordi Dunjó, Bright Calcs LLC, USA	<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	<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>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	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 Presentation summaries >>>	Environment Presentation summaries >>>	Human Factors Presentation summaries >>>	Process Safety Management Presentation summaries >>>	Pressure Relief Presentation summaries >>>
10:30–10:55	<i>Managing Process Safety by Digitalisation During the Pandemic</i> Ahmet Kemal Ozoral, Seckin Gokce & Eda Akkus, Tupras, Turkey	<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>Risk Based Prioritisation of Maintenance Backlog Items</i> Chetan Birajdar, Ricardo Bandini & Khama Matiti, MES International, 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> Rocio Salado, RPA Ltd, UK	<i>Human Factors Issues in Turnarounds (TARs)</i> Jamie Henderson & Richard Marshall, Human Reliability, UK	<i>Hazard Management in NOVA Sclairtech Technology Polyethylene Plant</i> Amit Kanchan, Nova Chemicals, India	<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	<i>Lessons Learned and the Pros & Cons of Virtual HAZOP</i> Azzam Younes, AyEnergi Consulting, UK	<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 Hull, RAS, 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>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	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 Presentation summaries >>>	Clean Technologies – Hydrogen I Presentation summaries >>>	DSEAR Presentation summaries >>>	Process Hazard Analysis Presentation summaries >>>	
14:30–14:55	<i>The Message from Losses – What You Need to Know and Learn From to Prevent Major Accidents</i> Paul Clarke & Scott McNeil, Marsh, UK	<i>Hydrogen Projects – Business as Usual?</i> Clare Dunkerley, Otto Simon, UK	<i>Comparison of Hazardous Area Classification</i> David Watts, Pablo Giacopinelli & Gary Pilkington, Gexcon, UK	<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>Application of Functional Safety to a Burner Management System – How to Avoid Common Pitfalls</i> Michael Scott, aeShield, USA	<i>Process Hazard Analysis for Smaller Changes: Tips and Tools for Avoiding Misses and Improving Quality</i> Jody Olsen, Consultant, 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	<i>The Role of an Innovative Approach to DSEAR in Accelerated Early Career Development</i> Rebecca Phillip & Adriana Reyes Cordoba, Atkins Global, UK	<i>Minimising Human Error in PHA Documentation</i> Carol Li & Ronjit Mukherjee, Risk Alive Analytics, Canada	
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	Facilitated discussion	Facilitated discussion	
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	
Presentation summaries >>		Presentation summaries >>		Presentation summaries >>	
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 Safety, Quality and Productivity</i> Urbain Bruyere, Consultant, 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>Title to be confirmed (Climate Change and Decarbonisation Technologies)</i> To be confirmed			
Digitalisation II	Clean Technologies – Hydrogen II	Fire and Explosion Hazards	Case Histories		
Presentation summaries >>		Presentation summaries >>		Presentation summaries >>	
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	Facilitated discussion	<i>The Use of CFD for the Design of Hydrogen Bulk Storage Areas</i> Michael Bristow, Pablo Giacobinelli, Graham Morrison & Gary Pilkington, Gexcon, UK	Facilitated discussion	Facilitated discussion	
16:25–17:00		Facilitated discussion			

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