

October 24, 2023	
8:30 AM – 8:40 AM	<b>WELCOME ADDRESS: Pol Hoorelbeke, TotalEnergies Fellow Process Safety &amp; EPSC Board Member</b>
8:40 AM – 9:40 AM Keynotes Session Chair: Shakeel Kadri	<b>KEYNOTE 1: Future operation of an industrial system</b> Juergen Mielke, Head of Product Portfolio Management – Automation and Digital, Siemens Energy
	<b>KEYNOTE 2: Covestro's digitalization journey in manufacturing</b> Martin Wolf, Head of Digital Process Technology & Knowledge Management, Covestro
9:40 AM – 10:40 AM  Panel Session Chair: Daniel Mottaghi	<b>PANEL DISCUSSION: Operationalising Big Data to Improve Process Safety Performance</b> <b>Panelists:</b> <ul style="list-style-type: none"> <li>• <b>Abdulrahman Alamer</b>, Saudi Aramco</li> <li>• <b>Dirk Roosendans</b>, TotalEnergies</li> <li>• <b>Martin Wolf</b>, Covestro</li> </ul>
10:40 AM – 11:00 AM	<b>Coffee Break</b>
11:00 AM – 12:40 PM	<b>SESSION 1: Big Data Analytics for Process Safety</b>
Chair: Tijs Koerts Co-Chair: Willi Meier	Geometric Process Control Models for Abnormal Process Event Detection and Warning <b>Alan Mahoney</b> , PPCL
	Big Data Analytics Potential in Unifying Digital Safety Solutions <b>Lama Aldosary</b> , Saudi Aramco
	Contribution of Data Collection to Prevent Dust Explosion on Chemical and Pharmaceutical Industry <b>Elsa Gonçalves</b> , Hovione
	Development of an AI-Based Safety Stethoscope for Identification of Unsafe Situations at Industrial Plants <b>Sadegh Shahmohammadi</b> , TNO
12:40 PM – 1:30 PM	<b>Lunch</b>
1:30 PM – 2:45 PM	<b>SESSION 2: Business Cases and Standards &amp; Methods for Digitalisation</b>
Chair: Arthur Groot Co-Chair: Daniel Mottaghi	Transforming Gas Business Through Data Contextualisation Capability <b>Mohd Safwan Muhamad Diah</b> , Petronas
	Dynamic Risk Registers: a new era in using PHA risk information <b>Arturo Trujillo</b> , Dekra
	A Modest Proposal for Linkages to Enable Process Safety Digitalization <b>Tony Downes</b> , Downes Process Safety LLC
2:45 PM – 3:05 PM	<b>Coffee Break</b>
3:05 PM – 3:20 PM	<b>The Impacts of Artificial Intelligence and Machine Learning on Cybersecurity and Process Safety, AcuTech Consulting Group Inc. Sponsored Technologies Talk</b>
3:20 PM – 4:10 PM	<b>SESSION 3: Maintenance Optimization and Robotic Support of Safety</b>
Chair: Anthony Downes Co-Chair: Abdul Aldeeb	Implementing Risk Assessment Tools and Safety Regulations Into a Framework for Maintenance Optimization <b>Martha Scattergood, Louis Allen</b> , University of Sheffield
	Robots Can Minimize Confined Space Entries of Pressurized Vessels / Reactors <b>Marcel Swalen</b> , Covestro
4:10 PM – 5:50 PM	<b>SESSION 4: Practical Examples and Case Studies</b>
Chair: Michael Snyder Co-Chair: Abdulrahman Alamer	A Data-Led Approach to Improving Manufacturing Performance <b>Paul Kenny</b> , ExxonMobil
	Application of Large Language Models for Optimising Insight from HSE Observations <b>Morgan Walter</b> , Empirisys
	Data Migration to Cloud for Quality/Consistent PHA <b>Edward Marszal</b> , Kenexis
5:50 PM	<b>RECEPTION &amp; POSTER SESSION</b>

Note: Posters will be displayed during all breaks, Lunches, and at Reception

October 25, 2023	
8:30 AM – 8:40 AM	<b>WELCOME ADDRESS:</b> Shakeel Kadri, Executive Director & CEO, CCPS
8:40 AM – 9:15 AM Keynote Session Chair: Pol Hoorelbeke	<b>KEYNOTE 3: The role of process safety leadership is digital transformation</b> Gus Carroll, CEO and co-founder, Empirisys, Chair – UK Major Accident Hazards Strategic Forum
9:15 AM – 10:30 AM  Panel Session Chair: Abdul Aldeeb	<b>PANEL DISCUSSION:</b> Current Technology Developments for Digital Solutions in Process Safety Applications <b>Panelists:</b> <ul style="list-style-type: none"> <li>Benjamin Lee, Siemens Energy</li> <li>Gus Carroll, Empirisys</li> <li>Arturo Trujillo, Dekra</li> </ul>
10:30 AM – 10:50 AM	<b>Coffee Break</b>
10:50 AM – 10:55 AM	<b>Wolters Kluwer Enablon Sponsored Technologies Talk</b>
10:55 AM – 12:35 PM	<b>SESSION 5: Predictive Models and Tools for Maintenance and Asset Integrity</b>
Chair: Tony Downes Co-Chair: Kiran Krishna	Exploratory Approach to Develop a Mathematical Model Using Neural Nets (Artificial Intelligence) to estimate potential damages after process safety events in oil and gas facilities <b>Oscar Mauricio Barajas Pinzon</b> , Saudi Aramco
	Leveraging Ex-Equipment Inspections and Data Analysis for Sustainable Process Safety <b>Yusuf Mert Sonmez</b> , Proscion
	How Enhanced Reality Technology Reduces Human Errors Through Increased Operator Competency <b>Susanna Voges</b> , Voovio
	Spatiotemporal Fault Detection and Diagnosis to Enhance Process Safety <b>Louis Allen</b> , University of Sheffield
12:35 PM – 1:25 PM	<b>Lunch</b>
1:25 PM – 2:35 PM  Panel Session Chair: Christian Demski	<b>PANEL DISCUSSION: Health monitoring of safety systems or protection layers</b> <b>Panelists:</b> <ul style="list-style-type: none"> <li>Fred Stay, HIMA</li> <li>Arthur Groot, Covestro</li> <li>Martijn Kramer, Yokogawa</li> <li>Paul Tours, Wolters Kluwer Enablon</li> <li>Franz Handermann, Siemens AG</li> </ul>
2:35 PM – 3:50 PM	<b>SESSION 6: Barrier Health Monitoring/Dynamic Risk</b>
Chair: Abdulrahman Alamer  Co-Chair: Willi Meier	Advanced Barrier Health Monitoring with the BowTie Method <b>Jerson Wattie</b> , The National Gas Company of Trinidad & Tobago
	Harnessing the Power of Digitalization to Better Manage Process Safety Health <b>Andy Bartlett</b> , Sphera
	Knowledge Graph and Language Models for Incident Analysis <b>Giorgio De Paola</b> , Repsol
3:50 PM – 4:10 PM	<b>Coffee Break</b>
4:10 PM – 5:00 PM	<b>SESSION 7: Tools to Avoid Human Errors</b>
Chair: Kiran Krishna Co-Chair: Arthur Groot	Embedding Human Factors into Digital Process Safety Management Systems <b>Chukwuemeka Ihesiulo</b> , Saudi Aramco
	Attack operator performance issues from all directions <b>David Strobhar</b> , Beville/Center for Operator Performance
5:00 PM	<b>Close of Conference &amp; Plan for 2024 - Tijs Koerts &amp; Willi Meier</b>

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