

# 2018 EUROPEAN CONFERENCE ON PROCESS SAFETY & BIG DATA



November 14, 2018	
9:00 AM – 9:20 AM	WELCOME ADDRESS – <b>Shakeel Kadri</b> and <b>Hans Schwarz</b>
9:20 AM – 10:30 AM Keynotes session chair: <b>Shakeel Kadri</b>	KEYNOTE 1: “Smarter Cities & Workplaces Watson IoT Workplace Insights”, <b>Ms. Jodie Fisher</b> , Global Executive, IBM
	KEYNOTE 2: “Use of Big Data in French Gendarmerie”, <b>Colonel Michael Fumery</b> , French Gendarmerie
	KEYNOTE 3: “Diagnostic data in functional safety - e- needs and prospects”, <b>Alexander Horch</b> , HIMA Group
10:30 AM – 11:15 AM Panel session chair: <b>Richard Pawulski</b>	<b>PANEL DISCUSSION – Challenges to the Process Industry Operators for leveraging Big Data for Process Safety</b> <b>Moderator: Richard Pawulski, Air Liquide</b> <b>Panelists:</b> <ul style="list-style-type: none"> <li>• Dow: <b>Erik Jan van den Heuvel</b></li> <li>• TOTAL: <b>Pol Hoorelbeke</b></li> <li>• DSM: <b>Achim Hupperts</b></li> <li>• Shell: <b>Marijn Bezuijen</b></li> </ul>
11:15 AM – 11:30 AM	Coffee Break
11:30 AM – 1:00 PM <b>SESSION: Data Lakes and Intelligent KPI’s Dashboards</b>	
Session chair: <b>Tijs Koerts</b>	“Lessons learned from connecting process safety to frontline operations through digitalization”, <b>Simon Jones</b> , Petrotechnics Ltd.
	“Digitalization in the process industry: Guardian Portal as an example for plant and fleet management”, <b>Sven Lohmann</b> , Emerson.
	“Development of a health and safety risk knowledge library to support health and safety decision-making on construction projects”, <b>Steven Naylor</b> , The Health and Safety Executive
	“A digital approach to answer the 3 key process safety questions”, <b>Karl Watson</b> , ABB.
1:00 PM to 1:20 PM <b>Rapid Fire Session [10 min each]</b>	
Session chair: <b>Tijs Koerts</b>	“How to get better insight into human error using the bowtie methodology as a proactive risk assessment tool”, <b>Emma Verschoor</b> , CGE risk management solutions
	“Never miss a critical step: A case study in designing software for workforce performance optimization and human error reduction”, <b>Edi Gittenberger &amp; Chase van Noordwijk</b> , Rider International
1:20 PM – 2:00 PM <b>Lunch</b>	
2:00 PM to 3:55 PM <b>SESSION: Big Data Analytics Tools and Methods</b>	
Session chair: <b>Arthur Groot</b>	“Detection of plant incident patterns by using document classification technique”, <b>Toru Nakata</b> , Artificial Intelligence Research Center.
	“Combining plant data with big data to improve process safety and SIL performance measurement and control”, <b>Bert Knegtering</b> , Honeywell.
	“Improving fire protection equipment inspection, testing, and maintenance processes using industry data: results delivered and lessons learned”, <b>Mike Snyder</b> , DEKRA Process Safety; Presenting for NFPA Standards Council
	“A cost-effective virtual reality tool for improving process safety”, <b>Hervé Vaudrey</b> , DEKRA.
	“How to develop, design and deploy an Industry 4.0 strategy”, <b>Jim Petrusich</b> , Northwest Analytics.
3:55 PM – 4:10 PM <b>Coffee Break</b>	
4:10 PM to 6:25 PM <b>SESSION: Augmented Reality</b>	
Session chair: <b>Hans Schwarz</b>	“Augmented Reality - Application in Process Safety Risk Management & Operational Execution”, <b>Terrance Sookdeo</b> , Baker Hughes.
	“Using a Virtual Plant to Reduce Risk Throughout the Chemical Plant Lifecycle”, <b>Yuris Fuentes</b> , DuPont
	“Mixed Reality for Boosting Efficiency and Safety at High Hazard Sites”, <b>Andrea Ferdinands</b> , Centrica Plc.
	“Advantages of Big Data and Digitization on Production and Safety”, <b>Rene Akkermans</b> , Rockwell Automation
	“Learning Laboratory Safety, From VR or Mobile games?”, <b>Nisha Dholakiya</b> , University of Pardubice
“Data fusion – Possibilities and challenges in the process and plant safety”, <b>Johannes Biernath</b> , Center of Safety Excellence	
6:00 PM <b>RECEPTION</b>	

November 15, 2018	
9:00 AM – 9:15 AM	WELCOME ADDRESS – <b>Willi Meier</b> and <b>Pol Hoorelbeke</b>
9:15 AM – 10:30 AM <b>Keynotes session chair:</b> <b>Pol Hoorelbeke</b>	<b>KEYNOTE 4:</b> “Digital innovation is transforming the way businesses operate”, <b>Gloria Vendrell</b> , TOTAL <b>KEYNOTE 5:</b> “Digital Readiness for Process Safety Big Data”, <b>Mei-Li Lin</b> , DEKRA <b>KEYNOTE 6:</b> “Major trends: Ad-hoc Analytics and using AI for daily decisions”, <b>Michael Ehrmantraut</b> , Executive IT Architect, IBM
10:30 AM – 11:15 AM  <b>Panel session chair:</b> <b>Abdul Aldeeb</b>	<b>PANEL DISCUSSION</b> – Automation and Digitalization for Process Safety Improvements <b>Moderator:</b> <b>Abdul Aldeeb</b> , Siemens <b>Panelists:</b> <ul style="list-style-type: none"> <li>• BakerHughes: <b>Terrance Sookdeo</b></li> <li>• Honeywell: <b>Mannheim Movilizer</b></li> <li>• Siemens: <b>TBC</b></li> <li>• IBM: <b>Michael Ehrmantraut</b></li> <li>• HIMA: <b>Alexander Horch</b></li> </ul>
11:15 AM – 11:40 AM	<b>Coffee Break</b>
<b>11:40 AM to 1:15 PM                      SESSION: Predictive Maintenance</b>	
Session chair: <b>Tony Downes</b>	“Technology supported Predictive Maintenance drives towards ‘No Surprises’”, <b>Jos Van der Aelst</b> , DSM. “Early detection tool”, <b>Fabrice Leclercq</b> , TOTAL. “The process safety algorithm”, <b>Erik Broere</b> , Bilfinger “Drone in the Maintenance”, <b>Mario Finkbeiner</b> , Deutsche Bahn
1:15 PM – 2:00 PM	<b>Lunch</b>
<b>2:00 PM to 3:50 PM                      SESSION: Practical Examples and Case Studies</b>	
Session chair: <b>Willi Meier</b>	“Use of Big-Data in Quantitative Risk Assessment”, <b>Glenn Pettitt</b> , Environmental Resources Management. “TOTAL Industry Mobility [TIM] Program”, <b>Dave Mackinno</b> , TOTAL “Combining Risk Analysis Data Sets with Historian Data to Identify Real Time Risk Gaps”, <b>Mike Scott</b> (aeSolutions) and <b>Tony Downes</b> (Honeywell). “Rocky Relationship between Safety and Security”, <b>Luis M. Duran</b> , ABB “Robotics for Leak-Detection”, <b>Berry Mulder</b> , Shell Projects & Technology
3:50 PM – 4:10 PM	<b>Coffee Break</b>
<b>4:10 PM to 5:50 PM                      SESSION: Plant Improvements</b>	
Session chair: <b>Mike Snyder</b>	“Predicting Flooding in a Distillation Column: A data-driven Modeling Approach”, <b>Natalie BEHARA &amp; Sébastien GOURVENEK</b> , TOTAL “Process optimization through smart analytics”, <b>Lars Hofmann</b> , IDA Analytics “Application of Data Mining for Process Optimization and Safety”, <b>Hendrik Mende</b> , Fraunhofer Institute for Production Technology. „Development of an Interactive Simulation Model for Plant Safety Training of a Desulfurization Process“, <b>Wonjie Lee</b> , Yullin Technologies. “Search & Connect Your Safety Critical ‘Big Data’”, <b>Joep Coenen</b> , Versatec Energy B.V.
5:50 PM	<b>Vote of Thanks &amp; Plan for 2019</b>