

2018 EUROPEAN CONFERENCE ON PROCESS SAFETY & BIG DATA



November 14, 2018	
8:30 AM – 8:50 AM	WELCOME ADDRESS – Shakeel Kadri and Hans Schwarz
8:50 AM – 10:00 AM Keynotes session chair: Shakeel Kadri	KEYNOTE 1: “How AI and IOT Transform Worker Safety”, Jodie Fisher , IBM & Asaf Adi , IBM Research
	KEYNOTE 2: “Use of Big Data in French Gendarmerie”, Colonel Michael Fumery , French Gendarmerie
	KEYNOTE 3: “Diagnostic Data in Functional Safety - Needs and Prospects”, Alexander Horch , HIMA Group
10:00 AM – 10:45 AM Panel session chair: Richard Pawulski	PANEL DISCUSSION – Challenges to the Process Industry Operators for Leveraging Big Data for Process Safety Moderator: Richard Pawulski , Air Liquide Panelists: <ul style="list-style-type: none"> • Dow: Erik Jan van den Heuvel • TOTAL: Pol Hoorelbeke • DSM: Achim Hupperts • Shell: Marijn Bezuijen
10:45 AM – 11:10 AM	Coffee Break
11:10 AM – 12:40 PM	SESSION 1: Data Lakes and Intelligent KPI’s Dashboards
Session chair: Tijs Koerts	“Lessons Learned from Connecting Process Safety to Frontline Operations through Digitalization”, Simon Jones , Petrotechnics Ltd.
	“Digitalization in the Process Industry: Guardian Portal as an Example for Plant and Fleet Management”, Sven Lohmann , Emerson
	“Development of a Health and Safety Risk Knowledge Library to Support Health and Safety Decision-Making on Construction Projects”, Steven Naylor , The Health and Safety Executive
	“A Digital Approach to Answer the 3 Key Process Safety Questions”, Karl Watson , ABB
12:40 PM – 1:00 PM	SESSION 2: Rapid Fire Session
Session chair: Tijs Koerts	“How to get better Insight into Human Error using the Bowtie Methodology as a Proactive Risk Assessment Tool”, Emma Verschoor , CGE Risk Management Solutions
	“Never Miss a Critical Step: A Case Study in Designing Software for Workforce Performance Optimization and Human Error Reduction”, Mark Stam & Chase van Noordwijk , Rider International
1:00 PM – 1:50 PM	Lunch
1:50 PM – 3:45 PM	SESSION 3: Big Data Analytics Tools and Methods
Session chair: Arthur Groot	“Detection of Plant Incident Patterns by using Document Classification Technique”, Toru Nakata , Artificial Intelligence Research Center
	“Improving Fire Protection Equipment Inspection, Testing, and Maintenance Processes using Industry Data: Results Delivered and Lessons Learned”, Mike Snyder , DEKRA Process Safety; Presenting for NFPA Standards Council
	“A cost-effective Virtual Reality Tool for Improving Process Safety”, Hervé Vaudrey , DEKRA
	“How to Develop, Design and Deploy an Industry 4.0 Strategy”, Jim Petrusich , Northwest Analytics
3:45 PM – 4:10 PM	Coffee Break
4:10 PM – 6:00 PM	SESSION 4: Augmented Reality
Session chair: Hans Schwarz	“Augmented Reality - Application in Process Safety Risk Management & Operational Execution”, Terrance Sookdeo , Baker Hughes
	“Using a Virtual Plant to Reduce Risk Throughout the Chemical Plant Lifecycle”, Yuris Fuentes , DuPont
	“Mixed Reality for Boosting Efficiency and Safety at High Hazard Sites”, Gus Carroll , Centrica Plc.
	“Learning Laboratory Safety, From VR or Mobile Games?”, Nisha Dholakiya , University of Pardubice
6:00 PM	RECEPTION

November 15, 2018	
8:30 AM – 8:45 AM	WELCOME ADDRESS – Willi Meier and Pol Hoorelbeke
8:45 AM – 10:00 AM Keynotes session chair: Pol Hoorelbeke	KEYNOTE 4: “Digital Innovation is Transforming the Way Businesses Operate”, Gloria Vendrell , TOTAL
	KEYNOTE 5: “Digital Readiness for Process Safety Big Data”, Mei-Li Lin , DEKRA
	KEYNOTE 6: “Major Trends: Ad-hoc Analytics and using AI for daily Decisions”, Michael Ehrmantraut , Executive IT Architect, IBM
10:00 AM – 10:45 AM Panel session chair: Abdul Aldeeb	PANEL DISCUSSION – Automation and Digitalization for Process Safety Improvements Moderator: Abdul Aldeeb , Siemens Panelists: <ul style="list-style-type: none"> • BakerHughes: Terrance Sookdeo • Honeywell: Sebastian Loeb • IBM: Michael Ehrmantraut • HIMA: Alexander Horch
10:45 AM – 11:10 AM	Coffee Break
11:10 AM – 12:45 PM	SESSION 5: Predictive Maintenance
Session chair: Tony Downes	“Technology Supported Predictive Maintenance Drives Towards ‘No Surprises’”, Jos Van der Aelst , DSM
	“Early Detection Tool”, Fabrice Leclercq , TOTAL
	“The Process Safety Algorithm”, Erik Broere , Bilfinger
	“Drones in the Maintenance”, Mario Finkbeiner , German Railways
12:45 PM – 1:35 PM	Lunch
1:35 PM – 3:25 PM	SESSION 6: Practical Examples and Case Studies
Session chair: Willi Meier	“Use of Big-Data in Quantitative Risk Assessment”, Glenn Pettitt , Environmental Resources Management
	“TOTAL Industry Mobility [TIM] Program”, Dave Mackinnon , TOTAL
	“Combining Risk Analysis Data Sets with Historical Data to identify Real Time Risk Gaps”, Mike Scott , aeSolutions & Tony Downes Honeywell
	“Rocky Relationship between Safety and Security”, Luis M. Duran , ABB
	“Robotics for Leak-Detection”, Berry Mulder , Shell Projects & Technology
3:25 PM – 3:50 PM	Coffee Break
3:50 PM – 5:30 PM	SESSION 7: Plant Improvements
Session chair: Mike Snyder	“Predicting Flooding in a Distillation Column: A Data-driven Modeling Approach”, Natalie BEHARA & Sébastien GOURVENEC , TOTAL
	“Process Optimization through Smart Analytics”, Lars Hofmann , IDA Analytics
	“Application of Data Mining for Process Optimization and Safety”, Hendrik Mende , Fraunhofer Institute for Production Technology
	“Development of an Interactive Simulation Model for Plant Safety Training of a Desulfurization Process”, Wonjie Lee , Yullin Technologies
	“Search & Connect Your Safety Critical ‘Big Data’”, Joep Coenen , Versatec Energy B.V.
5:30 PM	Vote of Thanks & Plan for 2019