2018 EUROPEAN CONFERENCE ON PROCESS SAFETY & BIG DATA

CCPS EPSC

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:** • 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
	"Data fusion – Possibilities and Challenges in the Process and Plant Safety", **Johannes Biernath**, Center of Safety Excellence
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:** • 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**