

| November 14, 2018 | |
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| 8:30 AM – 8:50 AM | WELCOME ADDRESS – Shakeel Kadri and Hans Schwarz |
| 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 |
| | Coffee Break |
| | SESSION 1: Data Lakes and Intelligent KPI's Dashboards |
| | <p>Session chair: Tijs Koerts</p> <p>“Lessons Learned from Connecting Process Safety to Frontline Operations through Digitalization”, Simon Jones, Petrotechnics Ltd.</p> <p>“Digitalization in the Process Industry: Guardian Portal as an Example for Plant and Fleet Management”, Sven Lohmann, Emerson</p> <p>“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</p> <p>“A Digital Approach to Answer the 3 Key Process Safety Questions”, Karl Watson, ABB</p> |
| 12:40 PM – 1:00 PM | |
| Session chair: Tijs Koerts | SESSION 2: Rapid Fire Session |
| | <p>“How to get better Insight into Human Error using the Bowtie Methodology as a Proactive Risk Assessment Tool”, Emma Verschoor, CGE Risk Management Solutions</p> <p>“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</p> |
| 1:00 PM – 1:50 PM | |
| Lunch | |
| 1:50 PM – 3:45 PM | |
| Session chair: Arthur Groot | SESSION 3: Big Data Analytics Tools and Methods |
| | <p>“Detection of Plant Incident Patterns by using Document Classification Technique”, Toru Nakata, Artificial Intelligence Research Center</p> <p>“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</p> <p>“A cost-effective Virtual Reality Tool for Improving Process Safety”, Hervé Vaudrey, DEKRA</p> <p>“How to Develop, Design and Deploy an Industry 4.0 Strategy”, Jim Petrusich, Northwest Analytics</p> |
| | Coffee Break |
| | SESSION 4: Augmented Reality |
| | <p>Session chair: Hans Schwarz</p> <p>“Augmented Reality – Application in Process Safety Risk Management & Operational Execution”, Terrance Sookdeo, Baker Hughes</p> <p>“Using a Virtual Plant to Reduce Risk Throughout the Chemical Plant Lifecycle”, Yuris Fuentes, DuPont</p> <p>“Mixed Reality for Boosting Efficiency and Safety at High Hazard Sites”, Gus Carroll, Centrica Plc.</p> <p>“Learning Laboratory Safety, From VR or Mobile Games?”, Nisha Dholakiya, University of Pardubice</p> <p>“Data Fusion – Possibilities and Challenges in the Process and Plant Safety”, Johannes Biernath, Center of Safety Excellence</p> |
| 6:00 PM | RECEPTION |

| November 15, 2018 | |
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| 8:30 AM – 8:45 AM | WELCOME ADDRESS – Willi Meier and Pol Hoorelbeke |
| 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">Baker Hughes: Terrance SookdeoHoneywell: Sebastian LoebIBM: Michael EhrmantrautHIMA: Alexander Horch |
| 10:45 AM – 11:10 AM | Coffee Break |
| 11:10 AM – 12:45 PM | SESSION 5: Predictive Maintenance Session chair: Tony Downes <ul style="list-style-type: none">“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 <ul style="list-style-type: none">“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 <ul style="list-style-type: none">“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 |