2017 EUROPEAN CONFERENCE ON PROCESS SAFETY AND BIG DATA

CCPS · EPSC

November 14, 2017	
9:00 AM – 9:15 AM	CCPS WELCOME ADDRESS – SHAKEEL KADRI, CCPS
9:15 AM – 9:45 AM	KEYNOTE 1: Big Data Analytics applied in TOTAL Security, Speaker TBA
9:45 AM – 10:15 AM	KEYNOTE 2: "Improving Process Safety Using Real-Time Analytic Monitoring", Jim Petrusich, Northwest Analytics
10:15 AM – 11:00 AM	PANEL DISCUSSION – Standardization Aspect of Big Data Analytics Moderator: Dr. Hans Schwarz (BASF) Thomas Froese, atlan-tec Sebastian Schmitz, I40 Maturity Center Anne Bernardy, FIR-RWTH Aachen
11:00 AM – 11:30 AM	**Coffee Break**
SESSION 1: Alarm / Data Analytics Management, SESSION CHAIR: Mike Snyder (DEKRA)	
11:30 AM – 11:50 AM	"Pipeline Inspection Analytics: Learning from Weak Signals to Predict the Degradation Risk Level", Laurent Querella, TOTAL
11:50 AM – 12:10 PM	"Improving Performance of DCS Alarm System by Implementing Effective Alarm Management Philosophy", Chirag Parikh, Kuwait Oil Company
12:10 PM– 12:30 PM	"Advanced Data Analytics for Improved Process and Plant Safety", Volker Hirsch, Siemens AG
12:30 PM to 12:50 PM	"Big Data Reconciliation for Safe Operation of Partial Oxidation Plants and Determination of Accurate Key Performance Indicators", Sofien Cavagnol, Air Liquide
12:50 PM – 1:00 PM	Q & As on Session 1
1:00 PM – 2:00 PM	**Lunch**
SESSION 2: DCS Data Analytics, SESSION CHAIR: Abdul Aldeeb (Siemens)	
2:00 PM – 2:20 PM	"How Honeywell is Using Data Analytics to Assure Process Safety Risk Management", Tony Downes, Honeywell
2:20 PM – 2:40 PM	"Early Detection of Abnormal Situation & Monitoring Its Propagation with Advanced Machine Learning Techniques", Tim-Oeter Henrichs, Yokogawa Deutschland GmbH
2:40 PM – 3:00 PM	"Real Time, Integrated Digital Decision Making for Plant Operational Risk Management", Ian Nicol, Origin Energy
3:00 PM – 3:20 PM	"Leveraging Process Data for Improved Productivity in the Process Industry", Sven Lohmann, Emerson Process Management
3:20 PM – 3:30 PM	Q &As on Session 2
3:30 PM – 4:00 PM	**Coffee Break**
SESSION 3: Inspection and equipment monitoring, SESSION CHAIR: Pol Hoorelbeke (TOTAL)	
4:00 PM – 4:20 PM	"Digitalization of Analyzer Systems to Reduce Costs and Optimize Efficiency at Downstream Oil and Gas Facilities", Andreas Udvardi-Lakos, Siemens
4:20 PM – 4:40 PM	"Artificially Assisted and Augmented Management of Piping and Valves Standards and Specifications", Esteban Montero, Chevron
4:40 PM – 5:00 PM	"Case study in TOTAL: Use of Data Science analytics to Improve Efficiency of an Inspection Program in a Refinery", Juliette Spinnato, TOTAL
5:00 PM – 5:20 PM	"VIPro: Predictive Maintenance for Existing Plants in Process Manufacturing", Andreas Lehwald, Fraunhofer-Institut für Fabrikbetrieb und -automatisierung (IFF),
5:20 PM – 5:30 PM	Q&As on Session 3
5:30 PM	**RECEPTION**

November 15, 2017	
9:00 AM – 9:15 AM	**EPSC Welcome – Hans Schwarz, BASF & Pol Hoorelbeke, Total**
9:15 AM – 9:45 AM	**KEYNOTE 3: "Proactive Technical Monitoring – Directing the Attention Towards Parameters that Matter", Christian Schacht, Shell**
9:45 AM – 10:15 AM	**KEYNOTE 4: "Using Operations Intelligence Platforms to Improve Decision-Making in Upstream Oil and Gas", Faisal Qadir Khan, Siemens**
10:15 AM – 11:00 AM	**PANEL DISCUSSION –Big Data Analytics applied in Operating Companies** **Moderator: Dr. Willi Meier, DECHEMA** **Carroll Gus, Centrica** **Juliett Spinnato, Total** **Esteban Montero, Chevron** **Christian Schacht, Shell**
11:00 AM – 11:30 AM	**Coffee Break**
Session 4: Incident prediction from operational data, Session Chair: Hans Schwarz (BASF)	
11:30 AM – 11:50 AM	"Properly Analyzed Big Data for Critical Turbomachinery Protective Systems Could Save the Day (& Personnel)", Curtis Miller, SIS SILverstone LLC
11:50 AM – 12:10 PM	"Asset Integrity, Process & Occupational Safety and Data Analytics as an Integrated Approach", Robert Kauer, TUEV,
12:10 PM – 12:30 PM	"Adopting a Simplification Agenda – The Correlation Between Big Data, Its Management and Process Safety in Major Hazard Organizations" Martyn Ramsden, ERM
12:30 PM – 12:50 PM	"Feed-Forward Neural Network and Recurrent Neural Network for Source Tracking of Chemical Leaks using Fence Monitoring Data", Kim Hyunseung , Myongji University
12:50 PM – 1:00 PM	Q & As on Session 4
1:00 PM – 2:00 PM	**Lunch**
Session 5: Learning from other Industries, Session Chair: Thomas Froese (atlan-tec Systems)	
2:00 PM – 2:20 PM	"Increasing the Safety and YET Optimization of a Hydro Cracker by using Big Data Advanced Analytics", Andreas Krueger, atlan-tec Systems,
2:20 PM – 2:40 PM	"How can Process Safety Learn From Other Areas Already Using Big Data Analytics, Machine Learning & AI?" Gus Carroll, Centrica
2:40 PM – 3:00 PM	"Safety through Big Data, AI, IoT and Predictive Analytics - An Overview of the NFPA Data Analytics Sandbox", Nathaniel Lin, NFPA
3:00 PM – 3:20 PM	"A New Way in Process and Plant Safety – How Big Data can Help to Achieve a Better Process Safety", Fabian Goerlich, Center of Safety Excellence
3:20 PM – 3:30 PM	Q & As on Session 5
3:30 PM – 4:00 PM	**Coffee Break**
SESSION 6: Session Title: Lessons Learned, Session Chair: Tijs Koerts (EPSC)	
4:00 PM – 4:20 PM	"From a PSM Perspective, Why Is so Much Oil & Gas APM Software...so Lacking?" Michael Marshall, An Oil & Gas industry consultant
4:20 PM – 4:40 PM	"How to Convert Unstructured Big Data into Structured Data?", Emma Verschoor, CGE Risk Management Solutions
4:40 PM – 5:00 PM	"Industrie 4.0 Maturity Index, How to Manage the Digital Transformation Successfully", Sebastian Schmitz, I40 Maturity Center
5:00 PM – 5:20 PM	"Optimizing the Environmental Safety and Steam Usage of a Waste Water Steam Column by using Advanced Analytics", Thomas Froese, atlan-tec-Systems
5:20 PM – 5:30 PM	Q & As on Session 6
5:30 PM	**Vote of Thanks from CCPS and EPSC**