

<b>Sunday, 16 June 2019</b>	
	Room: Aula (Entrance Hall)
16:30 - 18:30	<b>REGISTRATION</b>
	Room: De Porceleyne Fles, Royal Delft, Delft
18:30 - 20:30	<b>WELCOME RECEPTION</b>
<b>Monday, 17 June 2019</b>	
	Room: Aula (Entrance Hall)
8:30	<b>REGISTRATION</b>
	Room: Aula (Auditorium)
9:00	<b>Opening Ceremony</b>
9:15	PLENARY KEYNOTE Risk, surprises and black swans: What is the appropriate management approach? <b>Prof. Terje Aven</b> (University of Stavanger, Norway)
10:00	PLENARY KEYNOTE Process Safety: the journey is never complete <b>Ir. Jos van Winsen</b> (Shell, the Netherlands )
10:45	COFFEE BREAK, POSTER AND EXHIBITION
	<b>SESSION I</b>
	Room: Aula (Auditorium)
	Risk Assessment and Safety Management
	Chair: Valerio Cozzani
11:15	CEQAT-DGHS Interlaboratory test programme for chemical safety - need of test methods validation Peter Lüth, Kirstin Frost, Lutz Kurth, Marcus Malow, Heike Michael-Schulz, <b>Martin Schmidt</b> , Petra Schulte, Steffen Uhlig, Sabine Zakel
11:45	Can judgements by different experts of risk of a hazard event be reconciled? An on first sight exotic, yet practical solution <b>Hans Pasman</b> , Yizhi Hong , William Rogers
12:15	Layout - A Cost Effective and Powerful Design Step in Risk Management <b>Sreeraj R Nair</b> , Jim Salter

12:30	Hydrogen infrastructure - efficient risk assessment and design optimization approach <b>Olav Roald Hansen</b>
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:50	PLENARY KEYNOTE HUMANIFICATION – Go digital, stay human <b>Anton van Beek</b> (DOW Chemical, Benelux)
	Room: Aula (Auditorium)
	Chair: Luc Vijgen
14:30	The use of probit functions for toxic substances in Quantitative Risk Analysis <b>Karola Imbrechts</b>
15:00	Managing industrial safety through a cost-benefit approach: a case study <b>Chiara Vianello</b> , Maria Francesca Milazzo, Giuseppe Maschio
15:30	Semiquantitative Risk Analysis - An EPSC Working Group Hans Schwarz, Tijs Koerts, <b>Ulrich Hörcher</b>
15:45	Benefits of time dependent ignition probability models within the framework of Quantitative Risk Analysis <b>Olivier Iddir</b>
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Thierry Meyer
16:30	Developing leading safety indicators for occupational safety based on the bow-tie method <b>Karolien van Nunen</b> , Paul Swuste, Genserik Reniers, Peter Schmitz
17:00	Exploring loading and unloading operations in relation to domino effects in chemical industrial parks <b>Chao Chen</b> , Genserik Reniers, Nima Khakzad
17:30	Managing risks when using nanomaterials in research Amela Groso, Anna Maria Novello, Elina Buitrago, Thierry Meyer, <b>Damien Stricker</b>
18:00 - 18:15	Revalidation of Safety Concepts: How it can be done efficiently - An Industry Approach <b>Volker Stellmacher</b>
	<b>SESSION II</b>
	Risk Assessment and Safety Management
	Room: Aula (Collegezaal A)
	Chair: Geert Boogaerts
11:15	Process Safety Leading Indicators in Oil Storage and Pipelines: building a panel of indicators <b>Luana Santos</b> , Isaac Luquetti dos Santos, Assed Haddad
11:45	Fire Risk Index Assessment as an Evaluation Method for Fire Strategies in the Process Industry <b>Dorota Brzezinska</b> , Paul Bryant, Adam S. Markowski
12:15	Process safety indicators, how solid is the concept?

	<b>Paul Swuste</b> , Karolien van Nunen, Peter Schmitz, Genserik Reniers
12:30	Fragility Curves of Storage Tanks Impacted by Strong Winds Oscar J. Ramírez Olivar, <b>Adriana Mesa Gomez</b> , Santiago Zuluaga Mayorga, Felipe Muñoz Giraldo, Mauricio Sánchez-Silva, Ernesto Salzano
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:50	PLENARY KEYNOTE HUMANIFICATION – Go digital, stay human <b>Anton van Beek</b> (DOW Chemical, Benelux)
	Room: Aula (Collegezaal A)
	Chair: Nicola Paltrinieri
14:30	Mechanical integrity of process installations: an assessment based on bow-ties <b>Peter Schmitz</b> , Paul Swuste, Genserik Reniers, Karolien van Nunen
15:00	A Guideline for the Dynamic Barrier Management Framework Based on System Thinking <b>Behnaz Hosseinnia</b> , Cecilia Haskins, Genserik Reniers, Nicola Paltrinieri
	Process Safety Engineering and Technological Innovations
15:15	Safety of old centrifuges in ATEX environment, how can you insure safe working conditions? <b>Serge Forestier</b>
15:30	Going Full Life Cycle with Process Safety Data <b>Iwan Van Beurden</b> , Kate Hildenbrandt
15:45	COFFEE BREAK, POSTER AND EXHIBITION
	Fires, Explosions, and Toxic Releases
	Chair: Luc Vijgen
16:30	Metal Dusts Explosion Hazards and Protection Jerome Taveau, <b>Saul Lemkowitz</b> , Simone Hochgreb, Dirk Roekaerts
16:45	The influence of strong ignition sources on the explosion and decomposition limits of gases <b>Enis Askar</b> , Volkmar Schröder
17:00	Mechanical sparks as an ignition source of gas and dust explosions <b>Kees Van Wingerden</b>
17:15	Thermal degradation and combustion behavior of antifungal pesticides: triadimenol and tebuconazole <b>Monika Borucka</b> , Maciej Celinski
17:30	Prediction of the Reduced Explosion Pressure During Vented Gas Explosions Using a One-Dimensional Combustion Model in Combination with the Efflux Function <b>Vera Hoferichter</b> , Hans-Peter Schildberg
17:45	Identifying hazardous conditions for compression heat ignition of the chemically unstable gas Tetrafluoroethylene at an industrial scale <b>Christian Liebner</b> , Martyn Shenton
18:00	Investigation of the deflagration velocity in a 200 mL-Autoclave - Are the experimental results applicable regarding the process conditions?

	<b>Jan-Niklaas Zuber</b> , Jürgen Franke, Simon Seitz
18:15	First order safety insights on furanic platform chemicals and their side streams <b>Anitha Muralidhara</b> , Gerard van Klink, Christophe Len, Guy Marlair
18:30 - 18:45	Flammability limits of methane/alkene mixtures in air <b>Gianmaria Pio</b> , Antonio Ricca, Vincenzo Palma, Ernesto Salzano
	<b>SESSION III</b>
	Fires, Explosions, and Toxic Releases
	Room: Aula (Collegezaal D)
	Chair: Sam Bader
11:15	On the occurrence of flame instabilities during dust explosions <b>Kees Van Wingerden</b> , Brian Wilkins, Matthijs van Wingerden, Morten Holme, Peter Schepp, Rob Lade
11:45	Comparison of Test Results from Typical Explosive Properties Screenings, such as the Closed Pressure Vessel Test (CPVT) and the Glass Cylinder Deflagration Test Christian Aeby, <b>Delphine Berset</b> , Christian Kubainsky, Mischa Schwaninger
12:15	Minimum ignition temperature of hybrid mixtures <b>Dieter Gabel</b> , Ulrich Krause
12:30	Self-ignition behavior of metal hyperaccumulator plants: influence of the metal content on their thermal stability Stéphanie Pacault, Bianca Laird, Léa Sigot, Baptiste Laubie, <b>Agnès Janes</b> , Marie-Odile Simonnot, Olivier Dufaud
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:50	PLENARY KEYNOTE HUMANIFICATION – Go digital, stay human <b>Anton van Beek</b> (DOW Chemical, Benelux)
	Room: Aula (Collegezaal D)
	Chair: Hans-Erich Gasche
14:30	Reviewing the risk acceptance criteria in ATEX <b>Alexis Pey</b>
15:00	An experimental study of water BLEVE <b>Frederic Heymes</b> , Pierre Lauret, Pol Hoorelbeke
15:30	Fire hazard posed by sugar alcohols <b>Maciej Celinski</b> , Monika Borucka
15:45	Masonry failure and debris throw characteristics under dynamic blast loads <b>Johannes M. Schneider</b> , Malte von Ramin, Alexander Stottmeister, Alexander Stolz
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Mischa Schwaninger

16:30	Explosivity and flammability of nanopowders: new challenges Hervé Breulet, <b>Tiéoura Sinaba</b>
17:00	Protection systems for tanks containing hazardous materials exposed to fire <b>Roberto Bubbico</b> , Paolo Biggi , Barbara Mazzarotta
17:30	Some key considerations when evaluating explosion severity of nanopowders Audrey Santandrea, <b>Alexis Vignes</b> , Arne Krietsch, Laurent Perrin, André Laurent, Olivier Dufaud
18:00	Stronger together? Influence of the agglomeration on nanopowders explosion <b>Audrey Santandrea</b> , Stéphanie Pacault, Sébastien Bau, Alexis Vignes, Laurent Perrin, Olivier Dufaud
18:15 - 18:30	Suppression of Flame Propagation in a Long Duct by Segregation with Inert Gases <b>Hui-Ning Yang</b> , Yu-Jhen Lin, Chien-Ho Liu, Mo-Geng Chin, Cheng-Chieh Wang, Hsiao-Yun Tsai, Jenq-Renn Chen
<b>SESSION IV</b>	
Human and Organisational Factors of Risk and Safety	
Room: Aula (Senaatszaal)	
Chair: Tijds Koerts	
11:15	Measuring the safety climate of academic laboratories to improve safety behaviours <b>Damien Stricker</b> , Nadia Gerweck, Thierry Meyer
11:45	Developing and implementing a Human Reliability improvement program for a multinational chemicals company <b>Ronald W. Mcleod</b> , Douglas Tavares De Araujo, Antonio Emilio Meireles, Timothy F. Thompson
12:15	Developments in safety culture in the Rotterdam-area <b>Post Sjoerd</b>
12:45	LUNCH, POSTER AND EXHIBITION
Room: Aula (Auditorium)	
13:50	PLENARY KEYNOTE HUMANIFICATION – Go digital, stay human <b>Anton van Beek</b> (DOW Chemical, Benelux)
Room: Aula (Senaatszaal)	
Chair: Remko Harbers	
14:30	Measuring (un)safety. A broad understanding and definition of safety, allowing for instant measuring of unsafety <b>Peter Blokland</b> , Genserik Reniers
15:00	No Good Data Goes Unpunished Nicole Murchison, <b>Susan Adams</b>
15:30	Human Factors and Safety Management: a Field Study on Safety Performance in the Process Industry

	Bruno Fabiano, <b>Margherita Pettinato</b> , Andrea Reverberi, Fabio Currò
15:45	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Hans Pasman
16:30	Influencing the human and organisational factors in process safety risk assessments <b>Arthur Groot</b>
17:00	Minimizing Audit Findings by increasing Operational Discipline and Process Safety Culture Gemma Dunjo, John Cronin, Christian Sarno, <b>Neil Prophet</b>
17:30	The evolution of organizational safety culture: A theoretical study <b>Bing Wang</b> , Chao Wu
18:00 - 18:30	The effectiveness of 48 safety interventions according to safety professionals <b>Jakko Van Kampen</b> , Marre Lammers, Wouter Steijn, Frank Guldenmund, Jop Groeneweg
	<b>SESSION V</b>
	Simulation and Modelling for Safer Processes
	Room: Aula (Frans Van Hasselt Zaal)
	Chair: Ludovit Jelemensky
11:15	Dynamic Resilience Modelling of Process Systems <b>Mohammed Taleb-Berrouane</b> , Faisal Khan
11:45	Assessment of Electrostatic Ignition Hazard in Plastic Silos by Combining Computer Modelling of Electric Fields with Experimental Measurements Ian Pavey, Luc De Broissia, <b>Andrew Rotchell</b>
12:15	Investigation of ammonium nitrate contaminants based on computational chemistry approaches <b>Eleonora Menicacci</b> , Patricia Rotureau , Guillaume Fayet, Carlo Adamo
12:30	Hazard analysis of Carbon Sequestration pipelines. The effect of impurities and insulation specs on the release evolution <b>Paolo Mocellin</b> , Chiara Vianello, Giuseppe Maschio
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:50	PLENARY KEYNOTE HUMANIFICATION – Go digital, stay human <b>Anton van Beek</b> (DOW Chemical, Benelux)
	Room: Aula (Frans Van Hasselt Zaal)
	Chair: Joachim Sommer
14:30	Predictive methods for determining the thermal decomposition properties of hazardous substances <b>Guillaume Fayet</b> , Klaus-Dieter Wehrstedt, Annett Knorr, Patricia Rotureau
15:00	«Adiabatic» Temperature Rise in Systems with Gas Release <b>Ludwig Hub</b> , Georg Suter, Mischa Schwaninger
15:30	Development of a software tool for hazard identification based on process simulation

	<b>Jan Janosovsky</b> , Matej Danko, Juraj Labovský, Ľudovít Jelemenský
15:45	Uncertainties in Sour Natural Gas Dispersion Modelling <b>SreeRaj Rajappan Nair</b> , Jennifer Wen
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Bruno Fabiano
16:30	Implementation of Dynamic Simulation to Study the Deviation Consequences Along a Complex Process Carlos Murillo, Nelly Olivier-Maget, <b>Nadine Gabas</b>
17:00	RESPONSE: Adequate information on chemical accident threads <b>Hans Boot</b>
17:30	Jet fires and reaction runaway interaction: a multiscale approach <b>Federico Florit</b> , Simone Favrin, Renato Rota, Marco Derudi
18:00	CFD Study of the Fire Response of Vessels Containing Liquefied Gases Giordano Emrys Scarponi, Gabriele Landucci, A. Michael Birk, <b>Valerio Cozzani</b>
18:15 - 18:30	The choice among competing technologies in process plants: risk based approach Gabriele Baldissoni, <b>Micaela Demichela</b> , Davide Fissore
	<b>SESSION VI</b>
	Learning from Accidents and Process Safety Education
	Room: Aula (Commissiekamer 2)
	Chair: Eva-Maria Felix
11:15	Application of case study material in undergraduate learning <b>Trish Kerin</b> , Michaela Pollock
11:45	Implementing Critical Control Management in a Mature Processing Plant <b>Peter Murphy</b> , Peter Wilkinson
12:15	Improve process safety in undergraduate education <b>Zsuzsanna Gyenes</b>
12:30	Presenting RIVM's publically available database of Dutch Major Hazard Chemical Accidents: Storybuilder-MHCA <b>Eelke Kooi</b> , Linda Bellamy, Henk Jan Manuel
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:50	PLENARY KEYNOTE HUMANIFICATION – Go digital, stay human <b>Anton van Beek</b> (DOW Chemical, Benelux)
	Room: Aula (Commissiekamer 2)
	Chair: Adam Markowski
14:30	Continuous Improvement in Process Safety Education <b>Paul Amyotte</b> , Faisal Khan, Yene Irvine

15:00	Ageing (- Seveso installations) in the Netherlands <b>Kyra Kieskamp</b> , Patrick Heezen, Edward Geus
15:30	Near misses from the Seveso inspections: use of knowledge based methods for safety improvement <b>Silvia Maria Ansaldi</b> , Annalisa Pirone, Maria Rosaria Vallerotonda, Patrizia Agnello, Paolo Bragatto
15:45	Good Engineering Practice in Protecting Low Pressure Tanks during Cleaning in Place and Sterilization <b>Davide Moncalvo</b> , Roman Weber, Reinhard Scholz, Michael Davies
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Anders Jacobsson
16:30	Learning from Reactive Chemicals Incidents at Dow <b>Klaas Gelder</b>
17:00	Complexity and Uncertainty Management in Process Safety education <b>Jaime Cadena</b> , Felipe Muñoz
17:30	Process Safety Indicators - the Swedish experience Johan Ingvarson, <b>Anders Jacobsson</b>
18:00 - 18:30	Common Failures in Management of Change <b>Ian Clarke</b>
	<b>FLASH PRESENTATION SESSION</b>
	Room: Aula (Commissiekamer 3)
	Risk Assessment and Safety Management
	Chair: Thierry Meyer
14:30	Activities around upper-tier SEVESO sites: How to protect against technological risk? <b>Agnès Vallee</b> , Benjamin Le-Roux, Damien Fabre, Sylvain Chaumette, Stéphane Duplantier
14:35	Overcoming risk assessment limitations for potential fires in a multi-occupancy building <b>Jaime E. Cadena</b> , Juan P. Hidalgo, Cristian Maluk, Jose L. Torero, Andres Osorio
14:40	A Novel Approach for Risk Management Kristin Boogaerts, Dieter Vermeiren, Fritz Hagen, Ann Algoet, <b>Wiem Abichou</b>
14:45	Risk Assessment for Process Accident Prevention Using Screening Questionnaire <b>Yukiyasu Shimada</b> , Yoshihiko Sato, Haruhiko Itagaki, Tetsuo Fuchino
	Fires, Explosions, and Toxic Releases
14:50	The Influence of Sieving on the Dust Explosion Characteristics of a Lignite Coal <b>Tom Segers</b> , Frederik Norman, Reyhane Youssefi, Jörg Maier, Filip Verplaetsen
	Human and Organisational Factors of Risk and Safety
14:55	Assessing Human Factors Maturity(R) <b>Janette Edmonds</b> , Ken Gray
15:00	Human Behaviour and Emergency Planning <b>Marcelo Tubis Ludovico</b>
	Leadership, Risk Governance, and Regulatory Issues

15:05	Interregional industrial disaster abatement in the Netherlands: the need for public private partnership <b>Nils Rosmuller</b> , Philip Stohr, Kees Kappetijn, Regis Flohr
	Learning from Accidents and Process Safety Education
15:10	Influence of Culture on Hazard Identification in Undergraduate Chemical Engineering <b>Wasana Kowhakul</b> , Masatoshi Todaka, Anchaleeporn Waritswat Lothongkum
	Process Safety Engineering and Technological Innovations
15:15	Simplified Method to Define the Cryogenic Spill Hazard in LNG Liquefaction Facility <b>Yoshinori Hiroya</b> , Masayuki Tanabe, Shunji Kataoka, Yoshinori Yamada, Tomonori Miyashita
15:20	How Reactive Hazard Assessment and new reactor internals improve safety at the Shell Rhineland Refinery <b>Pubudini Kalika Wagner-Gillen</b>
	Communication of Risk and Process Safety Information
15:25	Research on accident from the perspective of safety information cognitive <b>Tongyuan Luo</b> , Chao Wu
15:30	COFFEE BREAK, POSTER AND EXHIBITION
17:30 - 18:30	<p style="text-align: center;"><b>Roundtable on Chemical Security</b> Room: Aula (Commissiekamer 3)</p> <p style="text-align: center;"><b>Moderator:</b> Genserik Reniers (TU Delft, the Netherlands)</p> <p style="text-align: center;"><b>Panelists:</b> Paul Baybutt (Primatech, USA) Gabriele Landucci (University of Pisa, Italy) Ernesto Salzano (University of Bologna, Italy) Jos Weijers (Chemelot, the Netherlands)</p>

<b>Tuesday, 18 June 2019</b>	
	Room: Aula (Entrance Hall)
8:30	REGISTRATION
	Room: Aula (Auditorium)
9:15	PLENARY KEYNOTE Dynamic Risk Management of Hazardous Operations <b>Prof. Faisal Khan</b> (University of Newfoundland, Canada)
10:00	PLENARY KEYNOTE Process Safety and the 4th Industrial Revolution <b>Prof. Pol Hoorelbeke</b> (Total SA, France)
10:45	EFCE Excellence Award in Process Safety
10:55	COFFEE BREAK, POSTER AND EXHIBITION
	<b>SESSION I</b>
	Risk Assessment and Safety Management
	Room: Aula (Auditorium)
	Chair: Luc Vijgen
11:15	Integrated explosion risk assessment for the workplace in a process plant <b>Adam Markowski</b> , Pwel Wasowicz, Bruno Fabiano
11:45	Risk-based vulnerability analysis of chemical facilities affected by flooding Alessio Misuri, Gabriele Landucci, Simone Vivarelli, Sarah Bonvicini, <b>Valerio Cozzani</b>
12:15	Waste risk assessment in SEVESO establishment – “case study” Katerina Sikorova, <b>Ales Bernatik</b> , Hana Veznikova
12:30	Safety of cryogenic storage facilities of flammable gases Tommaso Iannaccone, Federica Ovidi, Giordano Emrys Scarponi, <b>Gabriele Landucci</b> , Valerio Cozzani
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:40	PLENARY KEYNOTE Safety Delta, the Netherlands <b>Ir. Roald Lapperre</b> (Ministry of Infrastructure and Water Management, the Netherlands)
14:10	EPSC Award
	Room: Aula (Auditorium)
	Chair: Ales Bernatik
14:30	Effective KPI Setting to Process Safety Management System in Design Phase for Oil and Gas Plant Projects <b>Masayuki Tanabe</b> , Atsumi Miyake
15:00	Multi-risk assessment: a sensitivity test for a local-scale semiquantitative

	Methodology <b>Eleonora Pilone</b> , Micaela Demichela, Gabriele Baldissone
15:30	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Ales Bernatik
16:30	Framework of Japanese Management System <b>Masaki Nakagawa</b>
17:00	Improvement in reliability quantification to support BS EN 61511 failure probability analysis <b>Mahesh Kodoth</b> , Tadahiro Shibutani
17:30	Containment of spills on LNG fuelling stations – a critical evaluation <b>Luc Vandebroek</b> , Filip Van den Schoor, Philip Marynissen, Diane Huybrechts
18:00	Domino effect analysis in industrial sites <b>Louise Sandoval</b> , Agnès Vallée, Benjamin Le-Roux, Gaëtan Prod'Homme, Franck Prats
18:15	Preparedness of emergency evacuation for the leakage of toxic substances <b>Yuto Mizuta</b>
18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft
	<b>SESSION II</b>
	Process Safety Engineering and Technological Innovations
	Room: Aula (Collegezaal A)
	Chair: André Laurent
11:15	Bursting test of a silicon carbide micro reactor Roland GUIDAT, Olivier LOBEL, <b>Claire VILLEMEUR</b> , Jérôme Daubech, Patricia VICOT
11:45	Flammability limits of methane (LNG) and hydrogen (LH2) at extreme conditions <b>Gianmaria Pio</b> , Ernesto Salzano
12:15	Inherent safety application in a hydrocarbon unit in the FEED phase of a project <b>Julia Di Domenico Pinto</b>
12:30	Extension of the Applicability of MIKE 3 to Determine the Minimum Ignition Energy of Powders under “Non-Atmospheric” Conditions Christoph Cesana, <b>Thomas Gmeinwieser</b> , Loris Maman, Mischa Schwaninger
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:40	PLENARY KEYNOTE Safety Delta, the Netherlands <b>Ir. Roald Lapperre</b> (Ministry of Infrastructure and Water Management, the Netherlands)
14:10	EPSC Award
	Room: Aula (Collegezaal A)
	Chair: Sam Bader
14:30	Risk Assessment of Buried Natural Gas Pipelines. Critical Aspects of Event Tree Analysis

	Marco Pontiggia, <b>Tomaso Vairo</b> , Bruno Fabiano
15:00	Managing Process Safety in the Age of Digital Transformation <b>Simon Jones</b>
15:30	Integration of Automation Lifecycles: Leveraging Functional Safety, Cybersecurity, and Alarm Management Work Processes <b>Kate Hildenbrandt</b> , Iwan Van Beurden
15:45	Pressure Cell for DSC with Diamond-Like-Carbon Coating Manfred Eiche, Petra Meier, <b>Sven Wagner</b> , Mischa Schwaninger, Martin Bächler, Lucas Van der Merwe
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Leadership, Risk Governance, and Regulatory Issues
	Chair: Agnieszka Gajek
16:30	UNECE Lecture: The UNECE strategy for prevention of transboundary water pollution by industrial accident <b>Gerhard Winkelmann-oei</b>
17:00	Is there a statistical value of a life? <b>Ben Ale</b> , Des Hartford, David Slater
17:30	New Manual for Risk Calculations in Flanders as the result of the Project Unification <b>Karola Imbrechts</b>
18:00 - 18:15	Leadership – overlooked piece of the Process Safety Management puzzle? <b>David Levovnik</b> , Marko Gerbec, Vlado Dimovski
18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft
	<b>SESSION III</b>
	Fires, Explosions, and Toxic Releases
	Room: Aula (Collegezaal D)
	Chair: Mischa Schwaninger
11:15	Combustion behaviour of dusts in quasi- stationary state <b>Alexey Leksin</b> , Uli Bartha
11:45	Experimental Determination of the Static Equivalent Pressures of Detonative Explosions of Cyclohexane/O <sub>2</sub> /N <sub>2</sub> -Mixtures in Long and Short Pipes <b>Hans-Peter Schildberg</b> , Julia Eble
12:15	Influence of the particle size distribution on dust explosion: how to choose the right metrics? <b>Audrey Santandrea</b> , Florine Bonamis, Stéphanie Pacault, Alexis Vignes, Laurent Perrin, Olivier Dufaud
12:30	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:40	PLENARY KEYNOTE

	Safety Delta, the Netherlands <b>Ir. Roald Lapperre</b> (Ministry of Infrastructure and Water Management, the Netherlands)
14:10	EPSC Award
	Room: Aula (Collegezaal D)
	Chair: Valerio Cozzani
14:30	Explosion parameters of aluminium dust in different volumes: the limits of the cube law <b>Klaus-Werner Stahmer</b>
15:00	Application of laboratory-scale determined KSt-values of metal dust to industrial scale processes <b>Kees Van Wingerden</b>
15:30	Vented hydrogen deflagrations in weak enclosures: experimental results and implications for industrial practice <b>Trygve Skjold</b>
15:45	Issues of “standard” explosion tests for non-spherical dusts Valeria Di Sarli, <b>Enrico Danzi</b> , Luca Marmo, Roberto Sanchirico, Almerinda Di Benedetto
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Nicola Paltrinieri
16:30	Fire protection systems for above-ground storage tanks <b>Christian Sklorz</b> , Christian Balke, Frank Otremba
17:00	Vapour Cloud Explosions – The Evidence for Deflagration to Detonation Transition <b>Michael Johnson</b> , Andrzej Pekalski, Vincent Tam, Bassam Burgan, Pol Hoorelbeke, Chris Savvides
17:30	Modelling the consequences from water explosions in molten metal <b>Olav Roald Hansen</b> , Ane Kristiansen
18:00	A study of the Influential Factors Regarding the Thermal Stability of Polymeric Materials <b>Shinichiro Goto</b>
18:15	Experimental investigation on plume enlargement and fountain effect due to gas blowout in seawater <b>Laurent Aprin</b> , Pierre Lauret, Frederic Heymes, Christian Lopez, Stephane Le Floch, John A. Smith
18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft
	<b>SESSION IV</b>
	Human and Organisational Factors of Risk and Safety
	Room: Aula (Senaatszaal)
	Chair: Remko Harbers
11:15	Qualitative and Quantitative Analysis on Human Factor under Emergency State <b>Yi Liu</b> , Ping Yang, Yanchun Wang, Dongfeng Zhao, Faisal Khan
11:45	Making a Control of Work System Simpler and Less Error Prone Ronny Lardner, <b>Janette Edmonds</b>

12:15	Modern ICT to support the Operator controlling Complex Systems <b>Bettina Lafrenz</b> , Eva Heinold
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:40	PLENARY KEYNOTE Safety Delta, the Netherlands <b>Ir. Roald Lapperre</b> (Ministry of Infrastructure and Water Management, the Netherlands)
14:10	EPSC Award
	Room: Aula (Senaatszaal)
	Chair: Bruno Fabiano
14:30	Developing Data-based Bayesian Network for Human Operation Analysis during Hot Work <b>Yanchun Wang</b> , Yi Liu, Wei Wang, Jian Chen, Hanhai Dong, Dongfeng Zhao, Faisal Khan
15:00	COFFEE BREAK, POSTER AND EXHIBITION
	Process Safety Engineering and Technological Innovations
	Chair: Alexis Pey
16:30	Inherently Safer Design of Carbon-Neutral Methanol Production <b>Anna Crivellari</b> , Valeria Casson Moreno, Alessandro Tugnoli, Ernesto Salzano, Sarah Bonvicini, Valerio Cozzani
17:00	Hybrid Risk-based LCA: An Innovative Holistic Approach to Improve the Acid Gas to Syngas (AG2S) process <b>Chiara Vianello</b> , Flavio Manenti, Carlo Pirola, Bruno Fabiano, Simone Colombo, Giuseppe Maschio
17:30	How Big Data & Analytics can improve process and plant safety and become an indispensable tool for risk management Pankaj Goel, <b>Hans Pasman</b> , Aniruddha Datta
18:00	Latest Technology to Manage the Complete Process Safety Lifecycle <b>Enrico Lammers</b>
18:15	Achieving World Class Performance in Oil and Gas Industry Using Inherently Safer Design <b>Sreeraj R Nair</b> , Karel Schnebele, Hari Attal, Noma O Ogbeifun
18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft
	<b>SESSION V</b>
	Simulation and Modelling for Safer Processes
	Room: Aula (Frans Van Hasselt Zaal)
	Chair: Ludovit Jelemensky
11:15	Assessment of electrostatic discharges in insulating venting lines <b>Serge Forestier</b>
11:45	Assessing the flammability of liquid mixtures by predictive approach as a complement to

	experimental measurements <b>Guillaume Fayet</b> , Patricia Rotureau, Benoit Tribouilloy
12:15	Prediction of Safe Distance Between Fuel Storage Tanks under Fire using One Dimensional Model <b>Angan Sengupta</b>
12:30	Quantitative risk analysis using dynamic simulation: deviation propagation along propylene glycol process Nelly Olivier-Maget, Fatine Berdouzi, Carlos Murillo, <b>Nadine Gabas</b>
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:40	PLENARY KEYNOTE Safety Delta, the Netherlands <b>Ir. Roald Lapperre</b> (Ministry of Infrastructure and Water Management, the Netherlands)
14:10	EPSC Award
	Room: Aula (Frans Van Hasselt Zaal)
	Chair: Eddy De Rademaeker
14:30	Application of a gaussian model to simulate contaminants dispersion in industrial accidents Sabrina Copelli, <b>Marco Barozzi</b> , Anna Fumagalli, Marco Derudi
15:00	Use of LOPA and HAZOP concepts for complex automated hazard identification <b>Matej Danko</b> , Ján Janošovský, Juraj Labovský, Zuzana Labovská, Ľudovít Jelemenský
15:30	Obstacle Influence on High-Pressure Jets based on Computational Fluid Dynamics Simulations <b>Cristian Colombini</b> , Valentina Busini
15:45	A simplified model for improving thermal stability of Lithium-ion batteries <b>Roberto Bubbico</b> , Francesco D'Annibale, Barbara Mazzarotta, Carla Menale
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Faisal Khan
16:30	Spatial and temporal corrosion degradation modelling with a Lévy process based on ILI (In-Line) Inspections <b>Rafael Amaya-Gómez</b> , Mauricio Sánchez-Silva, Emilio Bastidas-Arteaga, Franck Schoefs, Felipe Muñoz
16:45	A Dynamic Approach to Fault Tree Analysis based on Bayesian Beliefs Networks <b>Tomaso Vairo</b> , Maria F. Milazzo, Paolo Bragatto, Bruno Fabiano
17:00 -17:15	Dynamic “What-If” Modeling Simulation <b>Eric Moyer</b>
18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft
	<b>SESSION VI</b>
	Learning from Accidents and Process Safety Education

	Room: Aula (Commissiekamer 3)
	Chair: Agnieszka Gajek
11:15	An Analysis of Severe Vapour Cloud Explosions and Detonations in the Process Industries Elaine Oran, Geoff Chamberlain, <b>Andrzej Pekalski</b>
11:45	Safety Training System using Plant Simulator for Distance Cooperative Work in Chemical Plants <b>Atsuko Nakai</b> , Kazuhiko Suzuki
12:15	CFD simulation of multiple dust explosion occurred in a flour mill <b>Paola Russo</b> , Achraf Tabib, Michele Mazzaro, Enrico Danzi, Luca Marmo
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
13:40	PLENARY KEYNOTE Safety Delta, the Netherlands <b>Ir. Roald Lapperre</b> (Ministry of Infrastructure and Water Management, the Netherlands)
14:10	EPSC Award
	Room: Aula (Commissiekamer 3)
	Communication of Risk and Process Safety Information
	Chair: Joachim Sommer
14:30	Safety in research institutions: how to better communicate the risks using numerical simulations <b>Riccardo Iannarelli</b> , Anna Maria Novello, Damien Stricker, Marco Cisterino, Federico Gallizion, Haysam Telib, Thierry Meyer
15:00	Safety stories resulting from research to practise: how to communicate occupational safety data? <b>Viola van Guldener</b> , Monique Chambon
16:00	COFFEE BREAK, POSTER AND EXHIBITION
	Chair: Genserik Reniers
	Physical Security and Cyber Security in Process Plants
16:30	Physical security barriers and protection distances for Seveso sites Alessandro Tugnoli, Matteo Iaiani, Gabriele Oliva, Ernesto Salzano, <b>Roberto Setola</b> , Valerio Cozzani
17:00	Investigating Cyber Threats in a Nuclear Power Plant <b>Susan Adams</b>
17:30	The impact of training sessions on security awareness: measuring the security knowledge, attitude and behaviour of employees <b>Marlies Sas</b> , Genserik Reniers, Wim Hardyns, Koen Ponnet
17:45	Plant Security – Public Awareness and Mitigation of Third Party Attacks as a new Layer of Protection in the Safety Concept <b>Jürgen Schmidt</b>
18:00	An overview of Cyber Attack to Industrial Control System <b>Roberto Setola</b> , Luca Faramondi, Ernesto Salzano, Valerio Cozzani
18:15	How should cyber-security risk assessment be performed? <b>Paul Baybutt</b>

18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft
	<b>SPECIAL SESSION “SUPER-LNG”</b>
	Sustainability PERFORMANCE of LNG-based maritime mobility
	Room: Aula (Commissiekamer 2)
	Chair: Olga Aneziris
16:30	Gap analysis and knowledge mapping on safety and security for LNG in ports
16:50	Harmonization of LNG safety guidelines and best practices for LNG in ports
17:10	Training and educational structure for LNG safety and security
17:30	Future plans for the use of LNG in ports in the Adriatic seas
17:50	Round table/discussion
	<b>Roundtable on Process Safety Education</b>
	Room: Pulse-Hall 4 (Landbergstraat 19) (NOT in the Aula!)
	<b>Moderator:</b>
	Thierry Meyer (École polytechnique fédérale de Lausanne, Switzerland)
17:30	
-	
18:30	<b>Panelists:</b>
	Valerio Cozzani (University of Bologna, Italy)
	Tijs Koerts (EPSC, UK)
	Paolo Bragatto (Inail, Italy)
18:30	Historic walk from Aula to city centre of Delft and conference dinner
19:00	Conference dinner at Prinsenhof, Delft

<b>Wednesday, 19 June 2019</b>	
	Room: Aula (Entrance Hall)
8:30	<b>REGISTRATION</b>
	Room: Aula (Auditorium)
9:15	PLENARY KEYNOTE A Personal Perspective on the History & Future of Process Safety <b>Prof. Paul Amyotte</b> (Dalhousie University, Canada)
10:00	PLENARY KEYNOTE The Man Who Lived and Breathed Process Safety: Professor Sam Mannan A Tribute <b>Prof. Nazmul Karim</b> (Texas A&M University, USA)
10:45	Sam Mannan Memorial Lecture Award
10:55	COFFEE BREAK, POSTER AND EXHIBITION
	<b>SESSION I</b>
	Risk Assessment and Safety Management
	Room: Aula (Collegezaal A)
	Chair: Hans Pasman
11:15	Interfacing the Probabilistic Bowtie Analysis with the Regulatory Risk Matrix Uilian Berghahn Crija, Nelly Olivier-Maget, Florent Bourgeois, <b>Nadine Gabas</b> , Olivier Iddir
11:45	Aging Facilities prognostic & health management: data collection, analysis and use <b>Micaela Demichela</b> , Valerio Cozzani, Alessandro Marzani, Gabriele Baldissoni, Marco Messina
12:15	Risk-Based Approach - Facility Siting Addressing Fires Impacting Process Plant Permanent and Portable Buildings: Combining Exceedance Curves and Human Vulnerability Criteria <b>Neil Prophet</b> , Marcel Amorós-Martí, Gene Gorski, Jordi Dunjó
12:30	Domino Effect by Jet Fire Impingement in Pipelines <b>Vahid Foroughi</b> , Alessia Cavini, Adriana Palacios, Kim Albó, Alba Águeda, Elsa Pastor, Joaquim Casal
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)
14:00	PLENARY KEYNOTE Then, and now: Delft 1974 versus 2019, more than four decades and 16 Loss Prevention symposia further <b>Prof. Hans Pasman</b> (Texas A&M University, USA)
14:30	Loss Prevention Symposium Award
14:40	Closing Ceremony incl. Best Poster Award

SESSION II	
Leadership, Risk Governance, and Regulatory Issues	
Room: Aula (Collegezaal D)	
Chair: Adam Markowski	
11:15	A quick scan method to evaluate the impact of off-site developments on the societal risk of a Seveso establishment <b>Filip Van den Schoor</b> , Luc Vandebroek, Griet Goossens, Lina Grooten
11:45	Safety distances due to domino effects <b>Gerald Laheij</b> , Margreet Spoelstra, Soedesh Mahesh
12:15	A safety-walk for ageing control at major-hazard establishments <b>Maria Francesca Milazzo</b> , Paolo Angelo Bragatto, Giuseppe Sciontia, Maria Grazia Gnoni
12:30	LUNCH, POSTER AND EXHIBITION
Room: Aula (Auditorium)	
14:00	PLENARY KEYNOTE Then, and now: Delft 1974 versus 2019, more than four decades and 16 Loss Prevention symposia further <b>Prof. Hans Pasman</b> (Texas A&M University, USA)
14:30	Loss Prevention Symposium Award
14:40	Closing Ceremony incl. Best Poster Award
SESSION III	
Fires, Explosions, and Toxic Releases	
Room: Aula (Senaatszaal)	
Chair: Dirk Roosendans	
11:15	Experimental investigation on the pollutant dispersion driven by a condensed-phase explosion in an urban environment <b>Charline Fouchier</b> , Delphine Laboureur, Emmanuel Lapébie, Sébastien Courtiaud, Jean-Marie Buchlin
11:45	A Model Structuring Dust, Mist, Gas/Vapour and Hybrid Explosion Behavior: The Chemical-Engineering Model <b>Saul Lemkowitz</b> , Jérôme Taveau
12:15	Explosion mitigation using aqueous solution of water and flame inhibitors <b>Kees Van Wingerden</b> , Morten Holme, Matthijs van Wingerden, Dirk Roosendans, Pol Hoorelbeke
12:30	LUNCH, POSTER AND EXHIBITION
Room: Aula (Auditorium)	
14:00	PLENARY KEYNOTE Then, and now: Delft 1974 versus 2019, more than four decades and 16 Loss Prevention symposia further <b>Prof. Hans Pasman</b> (Texas A&M University, USA)

14:30	Loss Prevention Symposium Award
14:40	Closing Ceremony incl. Best Poster Award
	<b>SESSION IV</b>
	Process Safety Engineering and Technological Innovations
	Room: Aula (Frans Van Hasselt Zaal)
	Chair: André Laurent
11:15	Process Safety Improvement of an Olefins Plant – from the Hazard Analysis to Implementation and Start-Up <b>Ron Stockfleth</b> , Pubudini Kalika Wagner-Gillen
11:45	Industrial System for Chemical Inhibition of Vapor Cloud Explosions <b>Dirk Roosendans</b> , Pol Hoorelbeke
12:15	Quality Management in the Determination of Safety Characteristics <b>Mischa Schwaninger</b> , Manfred Eiche, Mischa Schwaninger
12:30	Ageing processes in the chemical industry <b>Leo Nulkes</b>
12:45	LUNCH, POSTER AND EXHIBITION
	Room: Aula (Auditorium)

14:00	PLENARY KEYNOTE Then, and now: Delft 1974 versus 2019, more than four decades and 16 Loss Prevention symposia further <b>Prof. Hans Pasman</b> (Texas A&M University, USA)
14:30	Loss Prevention Symposium Award
14:40	Closing Ceremony incl. Best Poster Award

## Poster Exhibition, 17-19 June 2019

Risk Assessment and Safety Management	
P <sub>1</sub>	A procedure for emergency planning for SMEs under Seveso III directive in the ISO 31000 framework Giacomo Antonioni, Valeria Casson (University of Bologna, Italy)
P <sub>2</sub>	A semi-quantitative risk assessment method in process plants: confined spaces Salvina Murè <sup>1</sup> , Gianfranco Camunoli <sup>1</sup> , Micaela Demichela <sup>2</sup> ( <sup>1</sup> Aria s.r.l., Italy; <sup>2</sup> Politecnico di Torino, Italy)
P <sub>3</sub>	Multivariable based decision-making for the maintenance strategy of process equipment Gabriele Baldissone <sup>1</sup> , Micaela Demichela <sup>1</sup> , Chiara Leva <sup>2</sup> ( <sup>1</sup> Politecnico di Torino, Italy; <sup>2</sup> Dublin Institute of Technology, Ireland)
P <sub>4</sub>	A Novel Approach for Risk Management Kristin Boogaerts <sup>1</sup> , Dieter Vermeiren <sup>1</sup> , Fritz Hagen <sup>2</sup> , Ann Algoet <sup>1</sup> ( <sup>1</sup> Worley, Belgium; <sup>2</sup> Worley, the Netherlands)
P <sub>5</sub>	Overcoming risk assessment limitations for potential fires in a multi-occupancy building Jaime E. Cadena <sup>1</sup> , Juan P. Hidalgo <sup>1</sup> , Cristian Maluk <sup>1</sup> , Jose L. Torero <sup>2</sup> , Andres Osorio <sup>1</sup> ( <sup>1</sup> The University of Queensland, Australia; <sup>2</sup> The University of Maryland, USA)
P <sub>6</sub>	Safety science research: Global research trends and China's recent theoretical progress Chao Wu, Bing Wang (Central South University, China PR)
P <sub>7</sub>	Occupational Accidents analysis in Food and Drink industry, a contribution to Safety and Risk Management Lorenzo Comberti, Micaela Demichela, Gabriele Baldissone (Politecnico di Torino, Italy)
P <sub>8</sub>	Safety assessment of process systems using fuzzy extended Bow tie (FEBT) model Mohammad Yazdi <sup>1</sup> , Nima Khakzad <sup>2</sup> , Genserik Reniers <sup>3</sup> , Esmail Zarei <sup>4</sup> ( <sup>1</sup> Universidade de Lisboa, Portugal; <sup>2</sup> Delft University of Technology, the Netherlands; <sup>3</sup> University of Antwerp, Belgium; <sup>4</sup> Mashhad University of Medical Sciences, Iran)
P <sub>9</sub>	OpenRisk: A risk management toolbox for prevention and response of pollution from maritime activities Floris Goerlandt <sup>1</sup> , Valtteri Laine <sup>2</sup> , Raza Mehdi <sup>3</sup> , Michael Baldauf <sup>3</sup> , Yvonne Koldenhof <sup>4</sup> ( <sup>1</sup> Dalhousie University, Canada; <sup>2</sup> Baltic Marine Environment Protection Commission, Finland; <sup>3</sup> World Maritime University, Sweden; <sup>4</sup> Marine Research Institute, the Netherlands)
P <sub>10</sub>	Transport of dangerous goods in Flanders Karola Imbrechts <sup>1</sup> ; Bob Gorrens <sup>2</sup> , Philip Van Driessche <sup>3</sup> ( <sup>1</sup> Government of Flanders, Belgium; <sup>2</sup> SGS Belgium, Belgium; <sup>3</sup> DNV GL, Belgium)
P <sub>11</sub>	The benefits of different risk assessment methods used for Power Plants Sari Kojo, Ville Manninen (Wärtsilä Finland Oy, Finland)
P <sub>12</sub>	Unknown risk: The safety engineer's best and final offer? Paul Lindhout (Delft university of Technology, the Netherlands)
P <sub>13</sub>	The inclusion of natural hazards in QRA: the seismic event Paolo Mocellin <sup>1</sup> , Chiara Vianello <sup>1</sup> , Ernesto Salzano <sup>2</sup> , Giuseppe Maschio <sup>1</sup> ( <sup>1</sup> University of Padova,

	Italy; <sup>2</sup> University of Bologna, Italy)
P <sub>14</sub>	An Integrated Approach to Support the Dynamic Risk Assessment of Complex Industrial Accidents Nicola Paltrinieri <sup>1</sup> , Gabriele Landucci <sup>2</sup> , Pierluigi Salvo Rossi <sup>3</sup> ( <sup>1</sup> NTNU, Norway; <sup>2</sup> Leiden University, the Netherlands <sup>3</sup> ; Kongsberg Digital, Norway)
P <sub>15</sub>	Dynamic RAMS Analysis Using Advanced Probabilistic Approach Mohammed Taleb-berrouane, Faisal Khan, Mohammad Zaid Kamil (Memorial University of Newfoundland, Canada)
P <sub>16</sub>	Activities around upper-tier SEVESO sites: How to protect against technological risk? Agnès Vallee, Benjamin Le-Roux, Damien Fabre, Sylvain Chaumette, Stéphane Duplantier (INERIS, VERNEUIL-EN-HALATTE, France)
P <sub>17</sub>	Challenge pressure surge – which tasks have Engineering and HAZOP? Oliver Wichmann, Volker Stellmacher (Covestro Deutschland AG, Germany)
P <sub>18</sub>	Risk Assessment for Process Accident Prevention Using Screening Questionnaire Yukiyasu Shimada <sup>1</sup> , Yoshihiko Sato <sup>1</sup> , Haruhiko Itagaki <sup>1</sup> , Tetsuo Fuchino <sup>2</sup> ( <sup>1</sup> National Institute of Occupational Safety and Health, Japan; <sup>2</sup> Tokyo Institute of Technology, Japan)
P <sub>19</sub>	Quantitative risk assessment of Natech event triggered by earthquake in chemical tank farm Kongxing Huang, Guohua Chen (South China University of Technology, China PR)
P <sub>20</sub>	A Risk Assessment Model for Natural Gas Pipelines in Utility Tunnel Yiping Bai (China University of Mining and Technology (Beijing), China PR)
	<b>Fires, Explosions, and Toxic Releases</b>
P <sub>21</sub>	The Influence of Sieving on the Dust Explosion Characteristics of a Lignite Coal Tom Segers <sup>1</sup> , Frederik Norman <sup>1</sup> , Reyhane Youssefi <sup>2</sup> , Jörg Maier <sup>2</sup> , Filip Verplaetsen <sup>1</sup> ( <sup>1</sup> Adinex, Belgium; <sup>2</sup> University of Stuttgart, Germany)
	<b>Human and Organisational Factors of Risk and Safety</b>
P <sub>22</sub>	Assessing Human Factors Maturity(R) Janette Edmonds, Ken Gray (The Keil Centre Limited, United Kingdom)
P <sub>23</sub>	Assessment of perception of management related to safety in flammable and combustible liquid storage terminals Joase Souza De Freitas, André Luís Alberton, Marco Antonio Gaya De Figueiredo (Rio De Janeiro State University, Brazil)
P <sub>24</sub>	Human Behaviour and Emergency Planning Marcelo Tubis Ludovico (Clariant S/A, Brazil)
P <sub>25</sub>	Fire and Explosion Hazard Analysis of Oil and Gas Recovery Unit Based on Aspen Plus Siyu Sui (China University of Petroleum (East China), China PR)
	<b>Leadership, Risk Governance, and Regulatory Issues</b>
P <sub>26</sub>	Interregional industrial disaster abatement in the Netherlands: the need for public private partnership Nils Rosmuller <sup>1</sup> , Philip Stohr <sup>2</sup> , Kees Kappetijn <sup>2</sup> , Regis Flohr <sup>1</sup> ( <sup>1</sup> IFV, the Netherlands; <sup>2</sup> KSS, the Netherlands )
P <sub>27</sub>	Chemical Safety Management and Risk Communication in Taiwan

	Chen-Lin Wu, Hsiang-Wei Tsao, Hue-Feng Huang, Jen-Hai Yu, Yi-Kuen Liu, Wen-Shing Chang, Shu-Lin Chen, Yein-Rui Hsieh (Toxic and Chemical Substances Bureau Environmental Protection Administration Executive Yuan, Taiwan)
Learning from Accidents and Process Safety Education	
P <sub>28</sub>	Process safety education – learning at the level of the establishment and at the human level Agnieszka Gajek (Central Institute for Labor Protection - National Research Institute, Poland)
P <sub>29</sub>	Influence of Culture on Hazard Identification in Undergraduate Chemical Engineering Wasana Kowhakul <sup>1</sup> , Masatoshi Todaka <sup>2</sup> , Anchaleeporn Waritswat Lothongkum <sup>3</sup> ( <sup>1</sup> Fukuoka University, Japan; <sup>2</sup> Fukuoka University, Japan; <sup>3</sup> King Mongkut's Institute of Technology Ladkrabang, Thailand)
P <sub>30</sub>	Opportunities to enhance barrier management through incident analysis Emma Verschoor, Fabian Zitman (CGE Risk Management Solutions, the Netherlands)
Process Safety Engineering and Technological Innovations	
P <sub>31</sub>	Computer aided design of thermally safe operating conditions for heterogeneous semibatch reactors Zichao Guo, Liping Chen, Wanghua Chen (Nanjing University of Science and Technology, China PR)
P <sub>32</sub>	Simplified Method to Define the Cryogenic Spill Hazard in LNG Liquefaction Facility Yoshinori Hiroya, Masayuki Tanabe, Shunji Kataoka, Yoshinori Yamada, Tomonori Miyashita (JGC, Japan)
P <sub>33</sub>	Paperless Safety Lifecycle Stefan Hack <sup>1</sup> , Matthias Lange <sup>2</sup> , Thomas Herrmann <sup>2</sup> ( <sup>1</sup> R. STAHL, Weimar, Germany; <sup>2</sup> R. STAHL, Waldenburg, Germany)
P <sub>34</sub>	A study of vent sizing for reaction runaway and safety measures Tsuyoshi Nagasaka, Yuto Mizuta, Motohiko Sumino, Youichi Kunito (Mitsubishi Chemical Corporation, Japan)
P <sub>35</sub>	Runaway reaction hazard assessment for chemical processes safety Claire Villemur, Lucas Petit, Nathalie Bianchini, Patricia Rotureau (INERIS, France)
P <sub>36</sub>	How Reactive Hazard Assessment and new reactor internals improve safety at the Shell Rhineland Refinery Pubudini Kalika Wagner-Gillen (Shell Deutschland Oil GmbH, Germany)
Simulation and Modelling for Safer Processes	
P <sub>37</sub>	CFD study of the dust dispersion in the 20L explosion sphere: influence of the nozzle design Andrès Pinilla <sup>1</sup> , Mariangel Amin <sup>1</sup> ; Carlos Murillo <sup>2</sup> , David Torrado <sup>2</sup> , Nathalie Bardin-Monnier <sup>2</sup> , Felipe Muñoz <sup>1</sup> , Olivier Dufaud <sup>2</sup> ( <sup>1</sup> University of Los Andes, Colombia; <sup>2</sup> Reaction and Chemical Engineering Laboratory LRGP CNRS UL, France)
Communication of Risk and Process Safety Information	
P <sub>38</sub>	An ontology for process safety Manuel Rodriguez, Jorge Laguna (Universidad Politecnica de Madrid, Spain)
P <sub>39</sub>	Research on accident from the perspective of safety information cognitive Tongyuan Luo, Chao Wu (Central South University, China PR)

COMMERCIAL POSTER	
CP <sub>1</sub>	Emma Verschoor (CGE Risk Management Solutions)
CP <sub>2</sub>	Quantification Method and Economic Loss Assessment Based on Dynamic Simulation Jiefu Liu, Dongfeng Zhao (China University of Petroleum (East China), China PR)
CP <sub>3</sub>	Thermal hazard analysis of 2-hydroxyethylhydrazinium nitrate Kento Shiota, Kazuki Matsushita, Yu-ichiro Izato, Atsumi Miyake (Yokohama National University, Japan)
CP <sub>4</sub>	Development of a risk reduction strategy for resilient community: a case study for a hydrogen fueling station Jo Nakayama <sup>1</sup> , Atsumi Miyake <sup>2</sup> (The University of Tokyo <sup>1</sup> , Yokohama National University <sup>2</sup> )