

2023 Joint DIERS User Group Meeting

Agenda (08/31/2023)

Conference Venue: Steigenberger Parkhotel, Nimes-Straße 2, D-38100 Braunschweig, Germany

September 04, 2023

Monday

08:00 Registration

Session I Welcome

08:30	Jürgen Schmidt Georges Melhem	CSE Center of Safety Excellence / ioMosaic	Welcome to Joint DIERS User Group Meeting
08:45	Michael Davies	Braunschweiger Flammenfilter GmbH	Introducing Braunschweiger Flammenfilter & PROTEGO

Session II Low-Pressure Vents & Flame Arresters

09:00	Natalie Schmidt	CSE Center of Safety Excellence	Experimental Investigation and CFD Modelling of Storage Tank Breathing.
09:45	Davide Moncalvo	Braunschweiger Flammenfilter GmbH	DIERS Guideline on Flame Arrester
10:30	Coffee Break		
11:00	Josep Basco	Universitat Rovira I Virgili, Tarragona, Spain	A new approach based on the Safety Life Cycle analysis to increase the reliability of pressure-vacuum valves
11:45	Tijs Koerts	EPSC	Mechanical failure during PSV release in relation to auto-refrigeration and chattering

12:30 Lunch

Session III Risk Management | Reaction Calorimetry

13:30	Georges Melhem	ioMosaic	Latent Heat Considerations for Pressure Relief Design
14:15	Carine Huizenga	Shell Global Solution International B.V.	Reactive Hazards in Biomass Processing
15:00	Coffee Break		
15:30	Brittany Armstrong	Merck	ARC Study of an Exothermic Decomposition in an MSA-mediated Fluorination Reaction
16:00	Jerome Ferreira	DuPont Specialty Products GmbH & Co. KG	Low vapor pressure chemicals - Trying to avoid runaways.
16:30	Min Sheng	East China University	Limitations of Stossel classification method as a reactivity hazard assessment standard of chemical plants

17:00 End of Meeting

19:15 Meeting point: Steigenberger Parkhotel

19:30 Dinner (sponsored by Braunschweiger Flammenfilter)

September 05, 2023

Tuesday

Session IV Pressure Relief & Sizing

08:30	Dan Wilkes	ioMosaic	A review of relief sizing methodologies for vapor breakthrough scenarios
09:00	Carsten Schmidt	CSE Center of Safety Excellence	SmOP: Intelligent "zero emission" pressure relief device
09:45	Michael Davies Davide Moncalvo	Braunschweiger Flammenfilter GmbH	Considerations on tank header design to achieve zero emission and stable valve performance
10:30	Coffee Break		
11:00	Csaba Hos	Budapest University of Technology and Economics	Effect of lift restriction and multicomponent flow on PRV stability
11:30	Gergely Keszthelyi	CSE Center of Safety Excellence	Evaluation of one-dimensional models to predict chatter in spring-loaded pressure relief valves for gas service
12:00	Lunch		

Session V AI supported Safety

13:00	John Barker	ioMosaic	Use of computer vision algorithms to automate the early scoping of new projects
13:45	Jens Denecke	CSE Center of Safety Excellence	Automated HAZOPs - state of the art and future development?
14:15	James Close	ioMosaic	Modelling Battery Energy Storage System Explosions Using Deflagration Dynamics
15:00	Coffee Break		

Session VI Explosion Prevention & Lessons learnt

15:30	Saskia Schrewe Corc Bahcecioglu	REMBE® GmbH Safety+Control	It's not only the SIZE that matters! - Practical points to consider when specifying a rupture disc
16:00	Brad Luckman Michael Davies	PROTEGO UK Germany	Lessons Learned – Preventing Early Relief in LPG Storage
16:30	Benjamin Doup	Fauske & Associates	DIERS (US) Round-Robin Testing Update
17:00	End of Meeting		

September 06, 2023

Wednesday

Session VII Valve Instability

09:00	Georges Melhem	ioMosaic	Bridging the 3 % rule Gap
09:45	Ingo Ludwig	REMBE® GmbH Safety+Control	Of belts and braces (Design of new and existing emergency relief systems)
10:30	Coffee Break		
11:00	Leonid Korelstein	PSRE Co	Two dimensional interpolation of multiphase fluid properties and its usage in fluid flow analysis
11:45	Team Rembe	REMBE® GmbH Safety+Control	Live presentation at the courtyard
12:30	Lunch		

Session VIII Pressure Relief & Sizing | Functional Safety

13:30	Freeman Self	Bechtel Schlumberger	Pressure Relief Valve Orifice Sizing Using Numerical Integration
14:00	Harigopal Attal	HariAttal Process Safety	You have "safeguard(s)" in place; Sounds promising, but have you tested it? Act before it is too late
14:30	Coffee Break		
15:00	Closing remarks & discussion		
16:00	End of the meeting		

September 07, 2023

Thursday

Event	Visit at PROTEGO Sites (draft)
07:30 Steigenberger Parkhotel	Bus transfer group 1 to PROTEGO Test Center in Lehre
08:00 Steigenberger Parkhotel	Bus transfer group 2 to PROTEGO to Production Site
08:30 Group 1 Group 2	Large scale explosion experiments at the test center in Lehre Current State of Manufacturing at PROTEGO Production Site
10:30 Group 1 Group 2	Bus transfers to other locations until 12:30 Bus transfers to other locations until 12:30
13.30 All	Lunch
14:30 All	Final discussion
16:00 All	Bus transfer back to Steigenberger Parkhotel.
16:30 All	Arrival Parkhotel

