

DIERS Users Group Meeting Agenda
Mathematical Modeling of ERS Design

Monday 8:00 AM – 5:00 PM
May 7, 2018

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|----|---|---------------|---|
| 1. | Welcome | (8:00-8:05) | Harold G. Fisher
Chair |
| 2. | Technical Presentations | | |
| A. | What is New with SuperChems™ v8.4 for DIERS | (8:05-9:00) | Georges A. Melhem
ioMosaic Corp. |
| B. | Streamlining ERS Design Involving Reactive Systems | (9:00-10:00) | Dilip K. Das
Design and Safety, LLC |
| 3. | Break | (10:00-10:30) | ALL |
| C. | Living with Oversized Relief Devices | (10:30-11:00) | Dustin Smith
Smith and Burgess |
| D. | Finding the ACTUAL Choke Pressure in PRV | (11:00-11:30) | Guofu Chen
Joule Processing LLC |
| E. | Selecting the Proper gas Compressibility Z for Relief Valve Sizing | (11:30-12:00) | Freemen Self
Satyajit Verma
Bechtel Oil, Gas and
Chemicals |
| 4. | Lunch | (12:00-1:15) | ALL |
| F. | Restricted Lift Valve Approach | (1:15-1:45) | Sean Croxford
Farris Engineering Svcs |
| G. | Good Engineering Practice in Avoiding Pilot Relief Valve Chattering on Cryogenic Low-Pressure Storage Tanks | (1:45-2:15) | Michael Davies
Protego Engineering Svcs |
| H. | Physical Property Data Base in SuperChems™ for DIERS Lite | (2:15-3:00) | Neil Prophet
ioMosaic Corp. |
| 5. | Break | (3:00-3:30) | ALL |
| I. | ASME 3.0 % Inlet Pipe Pressure Loss and 10 % Discharge Pipe Backpressure Rules - Steps to Mitigate PSM Problems | (3:30-4:15) | Harold G. Fisher
FisherInc |
| J. | Calculation of Vessel Wetted Surface Area and Volume as Function of Liquid Level | (4:15-5:00) | Leonid Korelstein
Valery Osipov
Alexey Timoshkin
PSRE Co |
| 6. | Adjourn | (5:00-) | ALL |

DIERS USERS GROUP MEETING AGENDA
Business Meeting / Committee Reports / Technical Presentations

Tuesday 8:00 AM – 5:00 PM
May 8, 2018

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|----|--|---------------|---|
| 1. | Welcome / Chairman's Report / Minutes | (8:00-8:30) | Harold G. Fisher
Chair
Georges Melhem
Vice-Chair/Secretary |
| 2. | Technical Presentations | | |
| A. | Research Project Committee Update:
PSV Two-Phase Flow Model Selection | (8:30-9:00) | Greg Hendrickson
CPChem |
| B. | Project Update: Fire Exposure of Low
Volatility Liquids | (9:00-9:30) | John Hauser
PROSAF |
| C. | Project Update: Impact of Weather
Conditions on the In-Breathing
Requirements for Protection of Low-
Pressure and Atmospheric Storage Tanks | (9:30-10.0) | Davide Moncalvo
Braunschweiger
Flammenfilter GmbH |
| 3. | Break | (10:00-10:30) | ALL |
| D. | DIERS Program Committee Update | (10:30-10:45) | Gabe Wood
Fauske & Associates, LLC |
| E. | Possible DIERS Meeting Sites for 2018 | (10:45-11:00) | Russell Merriam
Farris Engineering Services |
| F. | Comparison of Two Methods for
Calculation of Vacuum Relief -
Conservative API 2000 vs. ASPEN
Dynamics | (10:30-11:30) | Elizabeth Robin
Lilly |
| G. | Calorimetric Determination and Modeling
of Solids Oxidation or Oxidation of
Organics on High Surface Area Substrates | (11:30-12:00) | Steven Horsch
Dow Chemical Company |
| 4. | Lunch | (12:00-1:15) | ALL |
| H. | Extension of API 2000 Equivalent Air
Calculation for Low Atmospheric
Pressure and Elevated Tank Pressures | (1:15-1:35) | Bob Siml
Siemens |
| I. | Overpressure Protection of Collection and
and Distribution Systems | (1:35-2:00) | Bob Siml
Siemens |
| J. | Best Practices for Distillation Relief Design
and Evaluation | (2:00-3:00) | Georges Melhem
ioMosaic Corp. |
| 5. | Break | (3:00-3:30) | ALL |

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| K. | A Drift Flux Model Review and Flow Regime Characterization | (3:30-4:00) | Ben Doup
Fauske & Associates, LLC |
| 6. | Old and New Business | (4:00-5:00) | Harold G. Fisher
Chair |
| | A, Old Business | | |
| | 1. 2018 DIERS Meeting Locations / Dates | | |
| | 2. 3 rd Party Vendors - CCPS Book Software | | |
| | B. New Business | | |
| | 1. 2019 DIERS Meeting Locations / Dates | | |
| | 2. DIERS New Research Projects - Discussion | | |
| 7. | Adjourn | (5:00-) | ALL |

DIERS USERS GROUP MEETING AGENDA
ERS Design / Testing Methodology

Wednesday 8:00 AM - 3:00 PM
May 9, 2018

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| 1. | Welcome | (8:00-8:05) | Harold G. Fisher
Chair |
| 2. | Technical Presentations | | |
| A. | Comparison of Available Features among Process Safety Office® SuperChems™, SuperChems™ for DIERS, and SuperChems™ for DIERS Lite – Emphasis on Kinetics | (8:05-9:00) | Dilip K. Das
Design and Safety, LLC |
| B. | Onset / Disengagement Data for Liquid Ammonia, Compressor Oil and Water | (9:00-9:30) | Gabe Wood
Fauske and Associates |
| C. | SADT Calculation: A Kinetic Approach | (9:30-10:15) | Enio Kumpinsky
Ashland LLC |
| 3. | Break | (10:15-10:45) | ALL |
| D. | Tube Rupture in Cooling Water Systems | (10:45-11:15) | Dustin Smith
Smith and Burgess |
| E. | Development of Predictive Models for Mining of Process Safety Data | (11:15-12:15) | Georges Melhem
ioMosaic Corp |
| 4. | Lunch | (12:15-1:15) | ALL |
| F. | Maximum Leak Rate for Shutoff Valves | (1:15-2:00) | Scott Tipler
Dow Chemical Company |
| G. | Computer Programs in the “Guidelines for Pressure Relief and Effluent Handling Systems” Book | (2:00-2:30) | Harold G. Fisher
FisherInc |
| 5. | Adjourn | (2:30-) | ALL |