

DIERS Meeting Agenda
Mathematical Modeling of ERS Design

Monday 8:00 AM – 5:00 PM
October 15, 2018

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|----|---|---------------|--|
| 1. | Welcome | (8:00-8:05) | Harold G. Fisher
Chair |
| 2. | Technical Presentations | | |
| A. | SuperChems for DIERS v8.4: Additions and Updates | (8:05-9:00) | Georges A. Melhem
ioMosaic Corp. |
| B. | Dynamic Simulation of Shutdown Systems Effect on Flare Loading | (9:00-9:30) | Dustin Smith
Smith & Burgess
Victor Quiroga
Virtual Materials Group |
| C. | Analysis of Chemical Effluent Discharge through the Emergency Relief System using Steam-Water Physical Properties | (9:30-10:00) | Jens Conzen
Jensen Hughes Inc |
| 3. | Break | (10:00-10:30) | ALL |
| D. | Comprehensive Overpressure Evaluation Due to Vapor Breakthrough and Liquid Displacement. Discussion of the Methodology Including Examples | (10:30-11:00) | Nancy Faulk
Abdul Aldeeb
Siemens Energy Inc |
| E. | RAGAGEP for Fire Exposure Relief (DIERS Tutorial – Proposed Project) | (11:00-11:30) | Kerry McBride
HGA-LLC |
| F. | Relief Valve Internal Data Collection (Proposed DIERS Project) | (11:30-12:00) | Dustin Smith
Smith & Burgess |
| 4. | Lunch | (12:00-1:15) | ALL |
| G. | Update on Acid-Catalyzed Hydrolysis Kinetics | (1:15-2:00) | Marc Levin
Neil (C.F.) Ivory
WSU |
| H. | Loss of Utilities - Incorporating into PHA | (2:00-2:30) | Julie D. White
Chevron |
| I. | Epichlorohydrin / Epoxy Production | (2:30-3:00) | Harold G. Fisher
FisherInc |
| 5. | Break | (3:00-3:30) | ALL |
| J. | Updates in Relief Device Stability Testing | (3:30-4:15) | Dustin Smith
Smith & Burgess |
| 6. | Discussion of DIERS New Projects and Funding | (4:15-5:00) | Harold G. Fisher |
| 7. | Adjourn | (5:00-) | ALL |

DIERS Meeting Agenda
Business Meeting / Committee Reports / Technical Presentations

Tuesday 8:00 AM – 5:00 PM
October 16, 2018

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: (8:30-9:30) Greg Hendrickson
CPChem
 - B. Project Update: Two-Phase Flow Model Selection (9:30-10:15) Dan Smith
Albamarle Corp
Robert D'Alessandro
3. Break (10:15-10:45) ALL
 - C. Project Update: Fire Exposure of Low Volatility Liquids (10:45-11:00) John Hauser
PROSAF
 - D. DIERS Wall-Heated Model (Tutorial) (11:00-11:30) Dilip Das
ioMosaic Corp
 - E. Re-Piping for PSV Stability (11:30-12:00) Dustin Smith
Smith & Burgess
4. Lunch (12:00-1:15) ALL
 - F. Understanding Phase Behavior during Single and Multiphase Flow (1:15-2:15) Georges Melhem
ioMosaic Corp
 - G. Differences between Vapor, Liquid, and Multi-Service PRVs / Code Case 2787 (2:15-3:00) Sean Croxford
Curtisswright
5. Break (3:00-3:30) ALL
6. Old and New Business (3:30-5:00) Harold G. Fisher
Chair
 - A. Old Business
 1. 3rd Party Vendors - CCPS Book Software
 - B. New Business
 1. 2019 DIERS Meeting Locations / Dates
 2. DIERS New Research Projects – Discussion Greg Hendrickson
7. Adjourn (5:00-) ALL

DIERS Meeting Agenda
ERS Design / Testing Methodology

Wednesday 8:00 AM - 3:00 PM
October 17, 2018

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| 1. | Welcome | (8:00-8:05) | Harold G. Fisher
Chair |
| 2. | Technical Presentations | | |
| A. | Reduced Analytical Models for Flow
Hydraulics | (8:05-9:05) | Georges Melhem
ioMosaic Corp |
| B. | The Contingencies of Distillation Columns
for ERS Design with Special Reference
to the Location of the Relief Device | (9:05-10:15) | Dilip Das
ioMosaic Corp |
| 3. | Break | (10:15-10:45) | ALL |
| C. | SADT Calculation: Temperature Effect
On Physical Properties | (10:45-11:15) | Enio Kumpinsky
Ashland LLC |
| D. | Multiphysics Modeling of APTAC Cell
Behavior | (11:15-12:00) | Marc Levin
WSU
Justin Mitschke
ASML |
| 4. | Lunch | (12:00-1:15) | ALL |
| E. | Fire Exposure (Wall-Heated vs.
Churn-Turbulent (Onset/Disengagement)) | (1:15-1:30) | Harold G. Fisher
FisherInc |
| F. | Autocatalysis: Detection, Considerations for
Relief Design, and a Potential Mitigation
Strategy | (1:30-2:00) | Brenton Drake
Dow Chemical Company |
| G. | Deflagration in an Empty Tank Being Rinsed
With Water | (2:00-2:30) | Ben C. McDavid
Ashland LLC |
| 5. | Adjourn | (2:30-) | ALL |