DIERS Users Group Meeting Agenda
Mathematical Modeling of ERS Design

Monday  8:00 AM – 5:00 PM  
Sept 16, 2019

1. Welcome / Meeting Announcement  (8:00-8:15)  Harold G. Fisher  
   Chair

2. Technical Presentations
   A. What is New with SuperChems v9.0 for DIERS  (8:15-9:15)  Georges A. Melhem  
      ioMosaic Corp.
   B. DIERS Projects Update and Discussion  (9:15-10:15)  Greg G. Hendrickson  
      CPChem

3. Break  (10:15-10:45)  ALL

C. DIERS Tutorial for FIRE Case - Update September 2019  (10:45-11:15)  Freeman Self  
   Bechtel  
   Kerry McBride  
   Nancy Faulk  
   Phong Pham  
   Lakshmana Tangirala  
   Caleb Mutschter

D. Relief Valve Stability, an Acoustical Problem  (11:15-12:15)  Dustin Smith  
   Smith and Burgess

4. Lunch  (12:15-1:30)  ALL

E. Clarification of Non-Equilibrium and and Equilibrium Flashing Flows  (1:30-2:30)  Hans K. Fauske  
   Fauske&Associates, LLC

F. A Review of the Use of Dynamic Amplification Factors in ERS Piping Design  (2:30-3:00)  Jens Conzen  
   Jensen Hughes

5. Break  (3:00-3:30)  ALL

G. Sizing Low Pressure Venting Systems Using SuperChems™  (3:30-4:00)  Fred Landers  
   John J. Hauser  
   PROSAF Inc.

H. Modeling Relief Requirements for Compressors  (4:00-5:00)  Georges A. Melhem  
   ioMosaic Corp.

6. Adjourn Meeting  (5:00- )  ALL

7. HNE Two-Phase Flow Discussion  (5:15-6:15)  Interested Persons
DIERS USER GROUP MEETING AGENDA
Business Meeting / Committee Reports / Technical Presentations

Tuesday 8:00 AM – 5:00 PM
Sept 17, 2019

1. Welcome / Chairman’s Report / Minutes (8:00-8:30)
   Harold G. Fisher
   Chair
   George Melhem
   Vice-Chair/Secretary

2. Technical Presentations
   A. Consideration for Selection / Use of Rupture Discs in Fire Relief Case (8:30-9:00) Alan McQueen
      Fike Corp.
   B. Bad Engineering Practice - Lessons Learned from Incorrectly Engineered Pressure Relief Applications (9:00-9:30) Stefan Penno
      Rembe GmbH
   C. Analytical Modeling to Study the Effect of Inlet Piping on the PRV Chatter Phenomenon (9:30-10:00) Basar Ozar
      Jensen Hughes

3. Break (10:00-10:30) ALL
   D. Why Don't We Use Section 1 Valves in Section 8 Applications (10:30-11:00) Russell Merriam
      Sean Croxford
      CurtissWright
   E. API 520 Figure 6 - A Review of this Figure Versus Test Data (11:00-11:45) Dustin Smith
      Smith and Burgess

   Break Before Travel to FAI for Lunch (11:45-12:00) ALL
   Load Bus and Travel to FAI for Lunch / Unload (12:00-12:30) ALL

4. Lunch Sponsored by Fauske & Associates, LLC (12:30-1:20) ALL
   Welcome (1:20-1:30) John Fasnacht
      President, FAI

   Lunch / Issue Access Badges / Form Into Four Groups ALL

   Move to Stations 1 - 4 by Assigned Group (1:30-1:40)
   F. Station 1 (Flammability Testing) (1:40-2:10)
   Rotate Stations by Group in Numerical Order (2:10-2:20)
   G. Station 2 (Calorimetry Testing) (2:20-2:50)
   Rotate Stations by Group in Numerical order (2:50-3:00)
   H. Station 3 (Hydraulic Flow Testing) (3:00-3:30)
   Rotate Stations by Group in Numerical Order (3:30-3:40)
I. Station 4 (Dust Flammability / Explosibility Testing) (3:40-4:10)

   Reassemble / Closeout and Load Bus to Hotel (4:10-4:30)

   Bus to Group Hotel (4:30-5:00)

5. Adjourn (5:00- ) ALL
DIERS USERS GROUP MEETING AGENDA
ERS Design / Testing Methodology

Wednesday 8:00 AM - 3:00 PM
Sept 18, 2019

1. Welcome (8:00-8:05) Harold G. Fisher
Chair

2. Technical Presentations

A. DIERS Round-Robin Testing: Reactivity Study of Epichlorohydrin (8:05-8:45) Georges A. Melhem
Surendra K. Singh
ioMosaic Corp.

B. An Update to Fauske's Emergency Relief Sizing Tools (8:45-9:15) Benjamin C. Doup
Fauske & Associates, LLC

C. Best Practice for Fitting Kinetic Models for Relief Systems Simulation and Design (9:15-10:15) Georges A. Melhem
ioMosaic Corp.

3. Break (10:15-10:45) ALL

D. Disengagement Dynamics in HCN Storage Tanks (10:45-11:15) Benjamin C. Doup
Fauske & Associates, LLC
Todd Brandes

E. Adding Process Flexibility to the Simplified Fauske Methods for Runaway Reaction Sizing Based on ARSST Testing (11:15-12:00) Fred Landers
John J. Hauser
PROSAF Inc.

4. Lunch (12:00-1:15) ALL

F. Reaction Calorimetry Data and Scale-up Considerations for the Hydrolysis of Epichlorohydrin (1:15-2:00) Donald J. Knoechel
Fauske & Associates, LLC

G. Phase Separation in Effluent Handling: Introduction to Its Impact in ERS Design (2:00-3:00) Dilip K. Das
ioMosaic Corp.

5. Adjourn (3:00- ) ALL