# DIERS Users Group Meeting Agenda
## Mathematical Modeling of ERS Design

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:15</td>
<td>Welcome / Meeting Announcement</td>
<td>Harold G. Fisher Chair</td>
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<tr>
<td>8:15-9:15</td>
<td>A. What is New with SuperChems v9.0 for DIERS</td>
<td>Georges A. Melhem ioMosaic Corp.</td>
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<td>9:15-10:15</td>
<td>B. DIERS Projects Update and Discussion</td>
<td>Greg G. Hendrickson CPChem</td>
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<td>10:15-10:45</td>
<td>3. Break</td>
<td>ALL</td>
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<td>10:45-11:15</td>
<td>C. DIERS Tutorial for FIRE Case - Update September 2019</td>
<td>Freeman Self Bechtel Kerry McBride Nancy Faulk Phong Pham Lakshmanana Tangirala Caleb Mutschter</td>
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<td>12:15-1:30</td>
<td>4. Lunch</td>
<td>ALL</td>
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<tr>
<td>1:30-2:30</td>
<td>E. Clarification of Non-Equilibrium and and Equilibrium Flashing Flows</td>
<td>Hans K. Fauske Fauske&amp;Associates, LLC</td>
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<td>2:30-3:00</td>
<td>F. A Review of the Use of Dynamic Amplification Factors in ERS Piping Design</td>
<td>Jens Conzen Jensen Hughes</td>
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<td>3:00-3:30</td>
<td>5. Break</td>
<td>ALL</td>
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<td>3:30-4:00</td>
<td>G. Sizing Low Pressure Venting Systems Using SuperChems™</td>
<td>Fred Landers John J. Hauser PROSAF Inc.</td>
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<td>4:00-4:45</td>
<td>H. API 520 Figure 6 - A Review of this Figure Versus Test Data</td>
<td>Dustin Smith Smith and Burgess</td>
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<td>4:45 -</td>
<td>6. Adjourn Meeting</td>
<td>ALL</td>
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<tr>
<td>5:00-6:00</td>
<td>7. HNE Two-Phase Flow Discussion</td>
<td>Interested Persons</td>
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DIERS USERS 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
   Georges 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. Relief Valve Stability, an Acoustical Problem (11:00-12:00) Dustin Smith
   Smith and Burgess

Break Before Travel to FAI for Lunch (12:00-12:10) ALL
Load Bus and Travel to FAI for Lunch / Unload (12:10-12:30) 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

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

5. Adjourn (3:00- ) ALL