

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

Monday 8:00 AM – 5:15 PM  
October 24, 2016

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|----|---|---------------|--|
| 1. | Welcome   | (8:00-8:15)   | Harold G. Fisher<br>Chair                    |
| 2. | Technical Presentations   |               |  |
| A. | What is New with SuperChems v8.2<br>for DIERS   | (8:15-9:15)   | Georges A. Melhem<br>ioMosaic Corp           |
| B. | Catastrophic Atmospheric Tank Failures  | (9:15-10:00)  | Michael Schmidt<br>Bluefield Process Safety  |
| 3. | Break   | (10:00-10:30) | ALL  |
| C. | Program Committee Report  | (10:30-11:00) | Warren Greenfield<br>Ashland                 |
| D. | (1) Update on Relief Device Availability<br>(2) Updates on Pressure Relief Valve (PRV)<br>Stability Research Program (PERF)<br>(3) Testing for Relief Device Stability on<br>Complex Piping | (11:00-12:00) | Dustin Smith<br>Smith & Burgess              |
| 4. | Lunch   | (12:00-1:15)  | ALL  |
| E. | CSB's Most Wanted Safety Improvements<br>Program  | (1:15-2:15)   | Vanessa A. Sutherland<br>Chairperson, US CSB |
| F. | Corporate Governance and Leadership<br>Accountability for PSM   | (2:15-3:15)   | Georges A. Melhem<br>ioMosaic Corp.          |
| 5. | Break   | (3:15-3:45)   | ALL  |
| G. | Flare Compliance with CFR 40, Part 60:18  | (3:45-4:30)   | Russell Merriam<br>Curtiss Wright            |
| H. | Dynamic Modeling to Protect Flare Headers<br>from Air Ingress   | (4:30-5:15)   | Freeman Self<br>Bechtel Corp.                |
| 6. | Adjourn   | (5:15- )      | ALL  |

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

Tuesday 8:00 AM – 5:00 PM  
October 25, 2016

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|----|--|---------------|---|
| 1. | Welcome / Chairman's Report / Minutes  | (8:00-8:15)   | Harold G. Fisher<br>Chair<br>Georges Melhem<br>Vice-Chair/Secretary |
| 2. | Technical Presentations  |               |   |
| A. | DIERS Research Projects Report   | (8:15-8:45)   | Greg Hendrickson<br>CPChem  |
| B. | Project Update: Fire Exposure of Low Volatility Liquids  | (8:45-9:00)   | John Hauser<br>PROSAF   |
| C. | Project Update: Impact of Weather Conditions on the In-Breathing Requirements for Protection of Low-Pressure and Atmospheric Storage Tanks | (9:00-9:15)   | Davide Moncalve<br>Braunschweiger<br>Flammenfilter GmbH             |
| D. | The Omega Method after 30 Years  | (9:15-10:15)  | Joseph C. Leung<br>LeungInc   |
| 3. | Break  | (10:15-10:45) | ALL   |
| E. | (1) Review of the API Force Balance<br>(2) Ways to Mitigate the Negative Effects of Chatter  | (10:45-11:45) | Dustin Smith<br>Smith & Burgess                                     |
| F. | DIPPR – Recent Developments in the Safety Arena  | (11:45-12:15) | Nathan Lott / Rich Sarnie<br>AIChE, CCPS                            |
| 4. | Lunch  | (12:15-1:30)  | ALL   |
| G. | Process Safety Journey of CPChem   | (1:30-2:30)   | Kevin Collins<br>CPChem   |
| H. | Relief Valve Stability Prediction Model  | (2:30-3:00)   | Steve Green<br>SWRI   |
| 5. | Break  | (3:00-3:30)   | ALL   |
| I. | Round-Robin Experimental Testing Results   | (3:30-4:00)   | Joseph C. Leung<br>LeungInc   |
| J. | (1) Failure Scenario of Control and Check Valves for Relief System Design  | (4:00-5:00)   | Nancy Faulk / Trey Buttlemann<br>Siemens                            |
| K. | (2) Impact of Phase Change on Reduced Duty Calculations  |               |   |
| 6. | Old and New Business   | (5:00-5:15)   | Harold G. Fisher<br>Chair   |

**DIERS USERS GROUP MEETING AGENDA**  
**ERS Design / Testing Methodology**

Wednesday 8:00 AM - 3:00 PM  
October 26, 2016

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|----|---|---------------|---------------------------------------|
| 1. | Welcome   | (8:00- )      | Harold G. Fisher<br>Chair             |
| 2. | Technical Presentations   |               |                                       |
| A. | Quantification of Double Contingencies<br>In Overpressure Design Philosophy by<br>Fault Tree Analysis | (8:00-8:45)   | Anthony Lie<br>KBR                    |
| B. | Kinetics to Size Safe Storage<br>Temperatures for Unstable Materials                                  | (8:45-9:30)   | Ken Kurko<br>Fauske & Associates      |
| C. | Hazards of Combustible Dust - Incidents   | (9:30-10:00)  | Peter Howell<br>Mark Five, Inc        |
| 3. | Break   | (10:00-10:30) | ALL                                   |
| D. | NFPA 652 (Fundamentals of Combustible<br>Dust) Update – 2016 Edition                                  | (10:30-11:15) | Ashok Dasditar<br>Fauske & Associates |
| E. | Solution of the DIERS ERS Design Exercise<br>On Phenol-Formaldehyde Reactions                         | (11:15-12:00) | Enio Kumpinsky<br>Ashland             |
| 4. | Lunch   | (12:00-1:15)  | ALL                                   |
| F. | Estimate Building Explosion Damage for<br>Facility Siting Using DOD Criteria                          | (1:15-2:15)   | Georges A. Melhem<br>ioMosaic Corp    |
| G. | The Physics and Metaphysics of<br>Calorimetric Instruments and Human<br>Senses                        | (2:15-3:00)   | Dilip Das<br>Safety and Design        |
| 5. | Adjourn   | (3:00- )      | ALL                                   |