

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

Monday 8:00 AM – 5:00 PM  
April 12, 2010

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|----|--|---------------|--|
| 1. | Welcome  | (8:00-8:15)   | H. G. Fisher<br>Chair  |
| 2. | Technical Presentations  |               |  |
| A. | What is New in SuperChems v6.3mp   | (8:15-9:15)   | G. A. Melhem<br>ioMosaic Corp.   |
| B. | Emergency Vacuum Venting   | (9:15-10:00)  | G. R. Van Sciver<br>Dow Chemical   |
| 3. | Break  | (10:00-10:30) | ALL  |
| C. | An overview of ioViper, a SuperChems Component for the Assessment of Piping Vibration Risk   | (10:30-11:30) | G. A. Melhem<br>ioMosaic Corp  |
| D. | Trouble-shooting An Existing Lean Gas Header System  | (11:30-12:00) | D. K. Das<br>Bayer CropScience   |
| 4. | Lunch  | (12:00-1:15)  | ALL  |
| E. | Managing Quality Assurance for Site Wide Relief Systems Projects   | (1:15-2:15)   | G. A. Melhem<br>ioMosaic Corp.   |
| F. | Integrating the Energy Equation for Pipe Flow in iPRISM  | (2:15-3:00)   | H. J. Hoover<br>Univ. of Alberta<br>P. M. Saunders<br>Farris Engineering |
| 5. | Break  | (3:00-3:30)   | ALL  |
| G. | Examples of Using SuperChems to Solve Practical Process Problems   | (3:30-4:15)   | Z. J. Dziadyk<br>ioMosaic Corp.  |
| H. | Causes of and Protective Measures for Tube Failure in a Shell-and-Tube Heat Exchanger - SuperChems Tutorial of a Tube Failure Scenario | (4:15-5:00)   | D. K. Das<br>Bayer CropScience   |
| 6. | Adjourn  | (5:00- )      | ALL  |

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

Tuesday 8:00 AM – 5:00 PM  
April 13, 2010

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|----|---|---------------|---------------------------------------|
| 1. | Welcome   | (8:00-8:05)   | H. G. Fisher<br>Chair                 |
| 2. | Minutes   | (8:05-8:10)   | R. A. D'Alessandro<br>Secretary       |
| 3. | Chairman's Report   | (8:10-8:25)   | H. G. Fisher<br>Chair                 |
| 4. | Old Business (Committee Reports)  |               |                                       |
| A. | Venting Technology  | (8:25-8:30)   | H. G. Fisher                          |
| B. | ERS Design for Fire Exposure  | (8:30-8:40)   | J. J. Hauser                          |
| C. | Case Histories / Incident Investigations  | (8:40-8:45)   | W. A. Greenfield                      |
| D. | Design / Testing Methodology  | (8:45-8:55)   | J. C. Leung                           |
| E. | High Viscosity Hydrodynamics  | (8:55-9:00)   | M. A. Grolmes                         |
| F. | Mathematical Modeling   | (9:00-9:10)   | M. E. Levin                           |
| G. | SuperChems Technical Steering Committee   | (9:10-9:20)   | G. A. Melhem / D. K. Das              |
| H. | New Technology Awareness  | (9:20-9:25)   | H. G. Fisher                          |
| I. | ERS Effluent Handling   | (9:25-9:30)   | G. A. Melhem                          |
| 6. | Technical Presentations   |               |                                       |
| A. | Inlet Pressure Loss for PSVs and the<br>3 % Rule  | (9:30-10:00)  | J. C. Leung<br>Leung Inc.             |
| 5. | Break   | (10:00-10:30) | ALL                                   |
| B. | Relief Valve Instability – Part 3: Is There<br>Life Outside of the 3 % Inlet Pressure<br>Loss Rule? | (10:30-12:00) | M. A. Grolmes<br>Centaurus Technology |
| 7. | Lunch   | (12:00-1:15)  | ALL                                   |
| D. | Status of the Pilot NEP for the Chemical<br>Industry  | (1:15-2:15)   | J. R. Lay<br>OSHA                     |

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|     | E. | Update on API Activities (API 520 and 521) (2:15-3:00)                          | E. Zamejc<br>EZ Relief Systems |
| 8.  |    | Break (3:00-3:30)   | ALL                            |
|     | F. | An Overview of Risk Tolerability Criteria<br>Calorimeter (Tutorial) (3:30-4:15) | G. A. Melhem<br>ioMosaic Corp. |
| 9.  |    | Old / New Business (4:15-5:00)  | H. G. Fisher<br>Chair          |
|     | A. | Old Business  |                                |
|     | B. | New Business  |                                |
|     | B. | Next Meeting Dates and Location   |                                |
| 10. |    | Adjourn (5:00- )  | ALL                            |
| 11. |    | Group Dinner (7:00-9:00)  | Selected Personnel             |

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

Wednesday 8:00 AM - 3:00 PM  
April 14, 2010

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|----|--|---------------|---|
| 1. | Welcome  | (8:00-8:05)   | H. G. Fisher<br>Chair                     |
| 2. | Technical Presentations  |               |   |
| A. | Using the Multimode Calorimeter (MMC)<br>For Chemical Process Safety | (8:05-8:30)   | P. J. Ralbovsky<br>Netzsch Instruments    |
| B. | Segregation of Streams in Relief Systems                             | (8:30-9:00)   | H. M. Attal<br>BP                         |
| C. | Mass and Energy Balances for a Venting<br>Container                  | (9:00-9:30)   | R. A. D'Alesandro<br>Evonik Degussa Corp. |
| D. | New ARC Data Analysis Software                                       | (9:30-10:00)  | P. J. Ralbovsky<br>Netzsch Instruments    |
| 3. | Break  | (10:00-10:30) | ALL                                       |
| E. | Pipe Flow Round-Robin Calculations -<br>Summary of Results           | (10:30-11:15) | J. C. Leung<br>Leung Inc.                 |
| E. | DIERS Two-Phase Pipe Flow Round-Robin:<br>Case III                   | (11:15-12:00) | E. Kumpinsky<br>Ashland, Inc.             |
| 4. | Lunch  | (12:00-1:15)  | ALL                                       |
| F. | T2 Incident Investigation  | (1:15-2:15)   | J. Wanko<br>U.S. CSB                      |
| G. | Use of the ARSST / VSP in the Analysis of<br>The T2 Incident         | (2:15-3:00)   | A. E. Theis<br>Fauske & Associates LLC    |
| 5. | Adjourn  | (3:00- )      | ALL                                       |