DIERS SPRING 2021 VIRTUAL MEETING AGENDA

Emergency Relief System Design - Expertise and Tools of the Trade Wednesday (March 10, 2021)

All times are Eastern Standard Time Zone

9:15 - 9:45 Establish Contact / Sign-in / Meeting and Software Instructions

9:45 - 10:00 Welcome / Orientation
Harold G. Fisher Chair
Georges A. Melhem Vice-Chair

10:00 - 10:45 Evaluation and Comparison of Models to Predict Safety Valve Chatter
Gergely Kesthelyi CSE-Institut.de
Jens Denecke CSE-Institut.de
Juergen Schmidt CSE-Institut.de

10:45 - 11:30 Experimental Investigation of Storage Tank Breathing
Natalie Schmidt CSE-Institut.de
Jens Denecke CSE-Institut.de
Juergen Schmidt CSE-Institut.de

11:30 - 11:45 Vendor Showcase – ioMosaic Corporation

11:45 - 12:30 What is New in SuperChems for DIERS Version 10
Georges Melhem ioMosaic

12:30 - 1:00 Effects of Blowdown Ring on Safety Relief Valve Performance
Dustin Smith Smith & Burgess

1:00 - 1:45 Break / Video Technical Presentations

1:45 - 2:30 Pilot Valve Options and Specifying Elastomers
Sean Croxford Curtiss-Wright

2:30 - 2:45 Vendor Showcase

2:45 - 3:30 Estimate Non-Equilibrium Flow and Rapid Phase Transitions
Georges Melhem ioMosaic

3:30 - 4:30 Saturated and Slightly Subcooled Liquid Nozzle Flow Considerations
Greg Hendrickson Retired
Georges Melhem ioMosaic

4:30 - 5:00 Networking

5:00 Adjourn
Emergency Relief System Design by the Book  
Thursday (March 11, 2021)

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9:30 - 10:00  Establish Contact / Sign-in / Meeting and Software Instructions

10:00 - 10:45  Best Practices for Revalidation of Safety Relief Systems  
Maria Dillard  
Honeywell

10:45 - 11:30  API 521 STD, 7th Ed, Review of Changes from the 6th Edition  
Srihari Maganti  
Brown & Root

11:30 - 11:45  Vendor Showcase – Fauske & Associates

11:45 - 12:15  Commonly Missed Overpressure Scenarios  
Waheed Wakil  
Smith & Burgess

12:15 - 1:00  API STD 520 (Parts I and II), Review of Recent Changes  
Ali Golshon  
Albemarle

1:00 - 1:45  Break / Video Technical Presentations

1:45 - 2:15  Include Re-entrainment in Your Vapor Breakthrough Calculations: Guidance from New API STD 521, Appendix G  
Nancy Faulk  
Siemens Energy

2:15 - 2:45  DIERS Fire Case Tutorial - Group Update  
Kerry McBride  
HGA-LLC

Freeman Self  
Bechtel

2:45 - 3:00  Vendor Showcase

3:00 - 3:45  DIERS Technology Fundamentals - Effluent Handling and Vent Containment Design  
Georges Melhem  
ioMosaic

3:45 - 4:30  The Art and Science of Sizing Fusible Plugs to Protect the Jacket of a Jacketed Vessel from Overpressure During External Fire Exposure  
Dilip Das  
Design and Safety

4:30 - 5:00  Technical Discussions

5:00  Adjourn
ERS Design - Runaway Reactions Require Laboratory Expertise  
Friday (March 12, 2021)

All Times are Eastern Standard Time Zone

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<tr>
<td>9:30 - 10:00</td>
<td>Establish Contact / Sign-in / Meeting and Software Instructions</td>
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<tr>
<td>10:00 - 10:45</td>
<td>Reflections from Disaster Cases - The Significance of Intrinsic Hazard Characteristic Parameters TO Industrial Process Safety</td>
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<td>10:45 - 11:30</td>
<td>Dicumyl Peroxide Vent Sizing Case Study</td>
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<td>11:45 - 12:15</td>
<td>Rapid Phase Transition Considerations for Biodiesel Reactions</td>
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<td>12:15 - 1:00</td>
<td>Calorimetric Study of Epichlorohydrin Reactivity with Water</td>
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<td>Break / Video Technical Presentations</td>
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<td>Better Kinetics Requires Better Data Getting the Most from Your DSC and TGA / DSC Data</td>
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<td>Vendor Showcase</td>
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<td>3:00 - 3:30</td>
<td>Multiphysics Modeling of APTAC Cell Behavior - Effect of Fill Level on Thermal Inertia</td>
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<td>3:30 - 4:15</td>
<td>Scale-up Aspects of Phenol - Formaldehyde Reactions</td>
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<td>4:15 -</td>
<td>Adjourn</td>
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Chi-Min Shu, YunTech, ROC  
Benjamin Doup, Fauske  
Dustin Smith, Smith & Burgess  
Surendra Singh, Belmont Scientific  
Peter Ralbovsky, NETZSCH  
Marc Levin, Wash State Univ  
Neil Ivory, Wash State Univ  
Don Knoechel, Fauske