



## DIERS SPRING 2023 MEETING AGENDA – Wednesday, April 19, 2023

| EASTERN DAYLIGHT TIME |          | Title  | Presenter  | Association                           |
|-----------------------|----------|--|--|---------------------------------------|
| Start Time            | End Time |  |  |                                       |
| 9:30 AM               | 10:00 AM | Establish Contact / Sign-in / Meeting and Software Instructions                              |  |                                       |
| 10:00 AM              | 10:15 AM | Welcome / Orientation  | Harold G. Fisher<br>Georges Melhem<br>Anil Gokhale | Chair<br>Vice-Chair<br>Staff Director |
| 10:15 AM              | 10:45 AM | Performance Of Tank Car Pressure Relief Devices Under Derailment Fire Conditions             | Francisco Gonzalez, III                            | Department of Transportation          |
| 10:45 AM              | 11:30 AM | Two-Phase Flow Considerations for Pressure Relief of Vessels Exposed to External Fire        | Greg Hendrickson                                   | DIERS                                 |
| 11:30 AM              | 11:45 AM | Sponsor Presentation   |  |                                       |
| 11:45 AM              | 12:30 PM | Process and Storage Vessels Exposed to Fire – Fire Characterization                          | Georges Melhem                                     | ioMosaic                              |
| 12:30 PM              | 1:30 PM  | Lunch  |  |                                       |
| 1:30 PM               | 2:00 PM  | Optical Access Pressure Vessel for Studying Thermo-hydraulics in Fire Heated Pressure Vessel | A. Michael Birk                                    | Queen's University                    |
| 2:00 PM               | 2:45 PM  | Process and Storage Vessels Exposed to Fire - Failure Assessment                             | Georges Melhem                                     | ioMosaic                              |
| 2:45 AM               | 3:00 PM  | Break  |  |                                       |
| 3:00 PM               | 3:45 PM  | Process and Storage Vessels Exposed to Fire – Gas Filled Vessels                             | Georges Melhem                                     | ioMosaic                              |
| 3:45 PM               | 4:00 PM  | Rainfall Frequency   | Freeman Self                                       | Bechtel                               |
| 4:00 PM               | 4:15 PM  | Chair Report   | Harold Fisher                                      | Chair                                 |
| 4:15 PM               | 4:30 PM  | DIERS Technical Project Updates  | Passa Piland                                       | Bayer U.S. LLC                        |
| 4:30 PM               | 5:30 PM  | Technical Discussions  |  |                                       |



## DIERS SPRING 2023 MEETING AGENDA – Thursday, April 20, 2023

| EASTERN DAYLIGHT TIME |          | Title  | Presenter                | Association                            |
|-----------------------|----------|--|--------------------------|--|
| Start Time            | End Time |  |                          |  |
| 9:30 AM               | 9:55 AM  | Establish Contact / Sign-in / Meeting and Software Instructions                              |                          |  |
| 9:55 AM               | 10:00 AM | Welcome / Orientation  | Harold G. Fisher         | Chair                                  |
| 10:00 AM              | 11:00 AM | What is New in SuperChems for DIERS?   | Georges Melhem           | ioMosaic                               |
| 11:00 AM              | 11:30 AM | DIERS Project Guideline on Flame Arresters: State of the Project and Examples of Application | Davide Moncalvo          | PROTEGO Engineering Service            |
| 11:30 AM              | 11:45 AM | Sponsor Presentation   |                          |  |
| 11:45 AM              | 12:15 PM | Lessons Learned from Accident at Dupont, Belle, WV Plant in January 2010                     | Ashit V Dalal            | eDelta Consulting, Inc.                |
| 12:15 PM              | 12:25 PM | ASME SECTION XIII Primer and Revisions to Section VIII Div 1                                 | Danielle Mainiero-Cessna | PROSAF                                 |
| 12:25 PM              | 12:30 PM | DIERS Courses  | John J. Hauser           | PROSAF                                 |
| 12:30 PM              | 1:30 PM  | Lunch  |                          |  |
| 1:30 PM               | 1:45 PM  | API SCPRS Spring 2023 Meeting Highlights   | Georges Melhem           | ioMosaic                               |
| 1:45 PM               | 2:45 PM  | Legal Implications of Relief System Design   | Devon Downs              | Farley & Partners                      |
| 2:45 PM               | 3:15 PM  | Evaluation PRV Failures - Root Causes and Mitigation Tactics                                 | Sean Croxford            | Curtiss-Wright                         |
| 3:15 PM               | 3:45 PM  | Selecting the Proper Gas Compressibility Z for Relief Valve Sizing                           | Freeman Self             | Bechtel                                |
| 3:45 PM               | 4:00 PM  | Break  |                          |  |
| 4:00 PM               | 4:30 PM  | Learnings from a Reactor Explosion: Towards Safer Start-ups of Catalyst Systems              | Nick Gonzales            | Shell Global Solutions                 |
| 4:30 PM               | 5:00 PM  | Measuring Heat Capacity  | Peter Ralbovsky          | NETZSCH Instruments North America, LLC |
| 5:00 PM               | 5:30 PM  | Evolved Gas Analysis Using FTIR  | Peter Ralbovsky          | NETZSCH Instruments North America, LLC |
| 5:30 PM               |          | Adjourn  |                          |  |



## DIERS SPRING 2023 MEETING AGENDA – Friday, April 21, 2023

| EASTERN DAYLIGHT TIME |          | Title   | Presenter  | Association              |
|-----------------------|----------|---|--|--------------------------|
| Start Time            | End Time |   |  |                          |
| 9:30 AM               | 9:55 AM  | Establish Contact / Sign-in / Meeting and Software Instructions   |  |                          |
| 9:55 AM               | 10:00 AM | Welcome / Orientation   | Harold G. Fisher   | Chair                    |
| 10:00 AM              | 10:45 AM | Why the Pilot Plant Building Has No Walls - One of Five Catastrophic Events that Shaped Reactive Hazard Evaluation at Albemarle Corporation | Dan Smith  | Albemarle                |
| 10:45 AM              | 11:30 AM | Calorimetry of Lithium-ion Batteries  | Surendra Singh, Derek Lovejoy, Rahil Rana                          | Belmont Scientific, Inc. |
| 11:30 AM              | 11:45 AM | Sponsor Presentation  |  |                          |
| 11:45 AM              | 12:30 PM | Advanced Li-ion Batteries and their Thermal Safety  | Vilas G. Pol   | Purdue University        |
| 12:30 PM              | 1:30 PM  | Lunch   |  |                          |
| 1:30 PM               | 1:45 PM  | Summary of Previous Round Robin Test Campaigns  | Ben Doup   | Fauske & Associates      |
| 1:45 PM               | 2:15 PM  | DIERS Round Robin Testing Update  | Marc Levin   | DIERS                    |
| 2:15 PM               | 2:45 PM  | Heat Transfer-limited Systems in Adiabatic Calorimetry  | Brenton Drake  | The Dow Chemical Company |
| 2:45 PM               | 3:15 PM  | Calorimetry Standards - Current State and Opportunities   | Garrett Dupre  | W. R. Grace & Co.        |
| 3:15 PM               | 3:30 PM  | Break   |  |                          |
| 3:30 PM               | 4:00 PM  | Eastman's Coal Gasification Event in 2017   | Wayne Chastain   | Eastman                  |
| 4:00 PM               | 4:30 PM  | Overview of Thermophysical Properties Research at NIST Boulder  | Marcia L. Huber, Ian H. Bell, Eric W. Lemmon, and Mark O. McLinden | NIST                     |
| 4:30 PM               | 5:00 PM  | The Pressure Vessel Explosion and Fatalities at the Loy-Lange Box Company in 2017   | Marc Levin   | DIERS                    |
| 5:00 PM               |          | Adjourn   |  |                          |

Thank you to our sponsors!

