

DIERS Users Group Meeting Agenda Spring 2009 ~ Orlando, Florida

Mathematical Modeling of ERS Design

Monday, March 23, 2009

8:00 am to 5:00 pm

8:00 to 8:15 Welcome

H.G. Fisher
Chairman

Technical Presentations

8:15 to 9:15 Overview of SuperChems v 6.0

G.A. Melhem
ioMosaic Corporation

9:15 to 10:00 Selection of Design Pressure and Temperature of
Equipment for Optimum Relief Vent Sizing

D.K. Das
Bayer Corporation

10:00 to 10:30 Break

10:30 to 12:00 Controversial Topics / Unknowns in Emergency
Relief Sizing

G.A. Melhem
ioMosaic Corporation
H.G. Fisher
FisherInc.

12:00 to 1:15 Lunch

1:15 to 2:15 Fundamental Aspects of SRV Design: The
Isentropic Nozzle, Discharge Coefficients, Fluid
Properties, Choking at Valve Exit, Forces on Valves
and Piping

Ron Darby
Texas A&M University

2:15 to 3:00 Determining Reaction Kinetics from Experimental
Data

H.G. Fisher
FisherInc.

3:00 to 3:30 Break

3:30 to 4:00 Calculate Volumes, Wetted Surface Area, and Flow
Area as a Function of Liquid Level for a Multitude of
Vessel Geometries and Heads

G.A. Melhem
ioMosaic Corporation

4:00 to 5:00 Safeguarding Memorandum Approach

M.E. Levin
Shell Global Solutions

5:00 Adjourn/Happy Hour

ALL

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Business Meeting | Committee Reports | Technical Presentations

Tuesday, March 24, 2009

8:00 am to 5:00 pm

8:00 to 8:05	Welcome	H.G. Fisher Chairman
8:05 to 8:10	Minutes	R.A. D'Alessandro Secretary
8:10 to 8:30	Chairman's Report	H.G. Fisher Chairman

Old Business (Committee Reports)

8:30 to 8:40	Venting Technology	H.G. Fisher
8:40 to 8:50	ERS Design for Fire Exposure	J.J. Hauser
8:50 to 9:00	Case Histories / Incident Investigations	W.A. Greenfield
9:00 to 9:10	Design / Testing Methodology	J.C. Leung
9:10 to 9:20	High Viscosity Hydrodynamics	M.A. Grolmes
9:20 to 9:30	Mathematical Modeling	M.E. Levin
9:30 to 9:40	SuperChems Technical Steering Committee	G.A. Melhem & D.K. Das
9:40 to 9:50	New Technology Awareness	S.S. Gossel
9:50 to 10:00	ERS Effluent Handling	G.A. Melhem
10:00 to 10:30	Break	

Technical Presentations

10:30 to 11:30	Status of the Refinery and Chemical National Emphasis Programs (NEP)	J.R. Lay <i>OSHA</i>
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11:00 to 12:00	PHA/LOPA/Credible ERS Design – Applications and Issues	W.A. Greenfield <i>ISP</i>
12:00 to 1:15	Lunch	
1:15 to 2:00	TUTORIAL: Best Practices for Pressure Relief Devices in Series	D. Miller <i>Fike Corporation</i>
2:00 to 3:00	TUTORIAL: Best Practices for Flare Systems Evaluation	G.A. Melhem <i>ioMosaic Corporation</i>
3:00 to 3:30	Break	
3:30 to 4:00 (DISCUSSION)	Use of LOPA to Determine Worst Credible Design Basis Improper Application of LOPA for Relief Design Issues	W.A. Greenfield <i>ISP</i>
4:00 to 5:00	Old Business / New Business Next Meeting Dates and Location	H.G. Fisher Chairman
5:00 to 7:00	Adjourn / Happy Hour	ALL
7:00 to 9:00	Group Dinner	Selected Personnel

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ERS Design | Testing Methodology

Wednesday, March 25, 2009

8:00 am to 3:00 pm

8:00 to 8:05 Welcome

H.G. Fisher
Chairman

Technical Presentations

8:05 to 8:35 ARC / APTAC Product Line

P.J. Ralbovsky
B. Fidler
Netzsch Instruments

8:35 to 9:00 The Rapid Assessment of the Runaway Potential of
Three Different Li-Acetylide / Solvent Systems
Using ARC and VariPhi

D.J. Muzzio
Merck & Company, Inc.

9:00 to 9:30 A New Benchtop Calorimeter for Process Safety /
Development

P.J. Ralbovsky
Netzsch Instruments

9:30 to 10:00 Application of Total Quality to Calorimetry Testing

J.M. Pickard
Kinetica, Inc.

10:00 to 10:30 Break

10:30 to 11:15 Round-Robin – Pipe Flow Calculations

J.C. Leung
Leung, Inc.

11:15 to 12:00 Understanding the VariPhi Applications and Data
Analysis

P.J. Ralbovsky
Netzsch Instruments

12:00 to 1:15 Lunch

1:15 to 2:00 Flashing Flow – Conditions for Equilibrium

J.C. Leung
Leung, Inc.

2:00 to 3:00 Use and Misuse of Control Valve Flow Coefficients
and Related Matters

M.A. Grolmes (Author)
Centaurus Technology
H.G. Fisher (Speaker)
FisherInc.

3:00 Adjourn

ALL