# 3<sup>rd</sup> International Symposium on Runaway Reactions, Pressure Relief Design, and Effluent Handling

**How To Use This Index:** Scroll down or use the bookmarks in the navigation pane at left to move to a new location in this index. Click on a **blue paper title** to view that paper. To return to this index after viewing a paper, click the "Previous Menu" bookmark in the navigation pane.

# Status of the AIChE Initiatives to Promote Effective Management of Chemical Reactivity Hazards

Scott Berger

# A Systematic Approach for Identification and Management of Chemical Reactivity Hazards

Hong B. Ni and Geatesh Tampy

#### **Managing Chemical Reactivity - Minimum Best Practice**

Hans K. Fauske

#### SuperChems Reactivity Expert System for Screening Chemical Reactivity Hazards

S. R. Saraf and G. A. Melhem

### Recommended Practice RP-101 Controlling the Hazards Associated with Reactive Chemicals

Peter Paul Howell

#### **Design Criteria for Reactive Hazard Screening Tools**

Peter Ralbovsky, Simon Chippett and Adam Brady-Myerov

#### Thermal Hazards Evaluation Using the ARSST

James P. Burelbach and Amy E. Theis

#### **Application of the VSP2 in Process Safety**

Warren Greenfield

### Runaway Reaction Characterization: Further Round-Robin Study on

Five More Systems

Joseph C. Leung, Charles F. Askonas and Harold G. Fisher

#### Mixtures of Isoprene with Butadiene-Derived Popcorn Polymer:

**Characterization of Reactivity** 

M. E. Levin and A. D. Hill

#### Experimental and Theoretical Modeling of Runaway Polymerization Under Free-radical Initiation

Joseph C. Leung and Charles F. Askonas

# Venting of a Runaway Organic Peroxide Decomposition in Viscous Solvents on Pilot-Scale

T. J. Snee, L. Cuseo, J. A. Hare, D. C. Kerr and M. Royle

# **Revisiting DIERS Two-Phase Methodology for Reactive Systems Twenty Years Later**

#### A Detailed Kinetic Model for the Polymerization of Acrylonitrile

G. A. Melhem and Harold G. Fisher

#### **Specific Features of Kinetics Evaluation in Reaction Hazard Assessment**

A. Kossoy and Yu. Akhmetshin

### Anticipate Pressure Relief Requirements for Tempered Systems Based on Process Data

Michael A. Grolmes

# Adiabatic Runaway Reaction, Blowdown, Quench, and Inhibition in Fire Engulfed Vessels: An Experimental Study

Daren Tee, Simon Waldram and Caroline Ladlow

# Limiting Temperature and Fire Duration as a Means of Prevention of Energetic Decomposition Reactions

Michael A. Grolmes

#### Last Line of Defense, Only Line of Defense?

G. A. Melhem

# A Heuristic Approach of Calculating Spray Water Flux Needed to Avert Fire Induced Runaway Reactions

Dilip K. Das

#### **ERS Design for Two-Liquid Phase Systems**

Joseph C. Leung

### Process Control in Multipurpose Plant - Sufficient to Prevent a Runaway Reaction in All Cases?

Caroline Ladlow and Rebecca Nosal

#### **Containment System Design**

Joseph C. Leung and Warren Greenfield

### **Pressure Safety Valve Thrust Forces for Compressible Gas or Vapor Flow**

Robert D'Alessandro

#### **Relief Vent Sizing for Deflagrations**

Ron Darby