AIChE Spring Meeting 2005

20th International Conference of CCPS – Center for Chemical Process Safety 2005

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Session 141 – Joint CCPS/LPS/PPSS Plenary Session

141a Preventing Incidents At Newly Acquired Facilities – Implementation of Lessons Learned
   Brian Dunbobbin, C. Lorn Paxton, Glen A. Peters and Martin A. Dennehy

141b Organizational Factors That Influence Safety: How NASA and Other Organizations are Changing Their Safety Culture
   Patrick Killimet

Session 142 – CCPS/LPS/PPSS Conference Keynote

Session 143 - Risk Management
Chair: Mike Broadribb

143a Process Safety Indicators
   Ian Travers and Viki Beckett

143b Continuously Improving PSM Effectiveness - A Practical Roadmap
   Steve Arend

143c Managing Catastrophic Risk: Quantitative Methods that Provide Insight and Decision Support
   Jatin Shah and Scott Schiller

143d Use of Process Risk Analysis and System Assessments to drive PSM Improvement
   John W. Herber

Session 144 - Critical Asset Protection
Chair: Steve Arendt

144a Risk Analysis Methodology for Critical Asset Protection (RAMCAP)
   David A. Moore, Michael Hazzan, Brad Fuller and David Heller

144b Process Control Systems in the Chemical Industry: Safety vs. Security
   Donna Post Guillen, Jeffrey Hahn and Thomas Anderson

144c CDC's Role in Chemical Weapons Elimination Oversight: Use of Hazards and Safety Analysis for Safe Destruction of Chemical Warfare Agents and Weapons
   Terry Tincher

Session 145 - Risk Analysis
Chair: Don Abrahamson

145a Integrity of Piping Systems: Nature and Scope of the Problem Viewed from a Regulator's Perspective
   Michael Skellett

145b Development of a Risk Based Inspection Implementation Manual
   Emory Ford, John Aller, Michael Renner and Ricardo Valbuena

145c A National Reactive Chemicals and Flammability Testing Database: Progress and Plans
   Eric Clark and Dave Frurip
Session 146 - Better Results with Fewer Resources
Chair: Tim Overton

146a Beyond Compliance – The Future Role of Risk Tools?
Jeremy Linn and Nic Cavanagh

146b The DOE Emergency Management System and Mitigation of Chemical Accident Risk
James D. Jamison and James T. Powers

146c CCPS Process Safety Next Generation Project: Better Results with Fewer Resources
Jack McCavit

Session 147 - Panel - Where We Have Been and Where We Are Going
Chair: Jack McCavit

147a Bhopal Accident and its Effects on Process Safety Worldwide
J. P. Gupta

147b 200 Years of PSM at DuPont
Curtis C. Clements, David Cummings and James A. Klein

147c Nurturing Strong Process Safety Culture
Dave Jones and Shakeel Kadri

Session 148 - Hazard Analysis
Chair: Pete Lodal

148a The Right People – Key to a Successful Hazard Review
Johnathan Babcock and William Bradshaw

148b The Dow Chemical Company’s Reactive Chemicals Resource Center (RCRC)
Harold Johnstone, Marabeth Hofelich, Brenda Prine, Joerg Steinmetzer

148c Using the Adiabatic Flame Temperature to Predict the Flammability
of Lower Alkanes, Carboxylic Acid and Acetates
J. Wayne Chastain, M. Palucis, Pete Lodal, R. Ervin, R. Kline, T. Glowienka and Vincent Van Brunt

Session 149 - Risk Mitigation
Chair: Scott Berger

149a Hydrogen Safety Review Panel: Shaping Safety Awareness
Bruce Kinzey, Edward G. Skolnik and Steven C. Weiner

149b Hazard Potential Analysis for Freeway Transportation of Toxic Substances
Jen-zen Chen, Kuo-Shuh Fan and S-Chien Huang

Session 151 - Inherent Safety
Chair: Karen Person

151a Achieving Effective Alarm System Performance: Results of ASM Consortium Benchmarking against
EEMUA Publication No. 191 Guidelines
Dal Vernon C. Reising and Tim Montgomery

151b Dynamic Risk Assessment of Inherently Safe Chemical Processes: Accident Precursor Approach
Anjana Meel and Warren D. Seider

151c Judging Effectiveness of Inherent Safety for Safety and Security of Chemical Facilities
David A. Moore
Session 152 - Risk Management
Chair: Karen Tancredi

152a The Safety Quality Factor – Tuning LOPA in Risk Analysis
   J. Gort and Ronald J. A. Kersten

152b FERC Consequence Analysis Model for LNG Spillage onto Water: Effects of Cargo Tank Release Assessment Variables
   David W. Johnson, Harry H. West, John B. Cornwell, M. Sam Mannan and Yuanhua Qiao

152c Facility Siting Analysis – Results Presented Using a Company’s Risk Protocol
   Cheryl A. Grounds

152d Determining the Societal Risks from COMAH Major Accident Hazard Installations
   Andy Fowler, Mark Lawton, Stuart Reston and Tom Maddison

Session 153 - Case Histories
Chair: Mike Rogers

153a Uncertainties in Evaluating Human Response to Toxic Exposure
   Joseph R. Natale and Krishna Mudan

153b Modelling of a Warehouse Fire - A Case Study
   E. Alp and R. Michalowicz

153c Tantalum Powder Dust Explosion Analysis
   Ashok G. Dastidar, C. James Dahn, Jacob Finkelshtein and Abdullah Kashani

Session 154 - Case Histories - Joint Session (CCPS, LPS, and PPSS)
Chair: Henry L. Febo
Vice Chair: David G. Clark

154a The 27 March 2003 Billy-Berclau Accident - A Technical and Organisational Investigation
   Emmanuel LePrette, Jean-christophe LeCoze, Nicholas Dechy and Samantha Lim

154b When Risk Becomes Reality: Formosa Plastics’ Response to a Plant Explosion.
   Robert Thibault

154c Handling Chemicals in Small Containers
   Albert I. Ness, Richard Gibson