

SUNDAY, April 26	
8:00 AM – 5:00 PM	GCPS Short Courses
6:30 PM – 8:00 PM	2015 AIChE Spring Meeting and 11 th GCPS Opening Reception Location: Conv. Ctr. Exhibit Hall 5
MONDAY, April 27	
7:00 AM	Complimentary Breakfast Location: Conv. Ctr. Ballroom D
8:00 AM	2015 AIChE Spring Meeting and 11 th GCPS Opening Plenary Session: Cheryl Teich , AIChE President and June C. Wispelwey , AIChE Executive Director Location: Conv. Ctr. Ballroom D
8:30 AM	Keynote Address: Chemical Engineering – Is this the “Golden Age”? Presented by Marvin O. Schlanger , Chairman of the Supervisory Board of LyondellBasell (Ret.) Location: Conv. Ctr. Ballroom D
9:15 AM	Coffee Break Location: Conv. Ctr. Exhibit Hall 5
9:40 AM	<p>11th GCPS Welcoming Plenary Session Location: Conv. Ctr. Ballroom D</p> <p>11th GCPS Introduction and Welcome: Shakeel Kadri (Executive Director, CCPS) and Rainer Hoff (GCPS Chair)</p> <p>Programming Introductions by: Charles A. Soczek, 49th Annual Loss Prevention Symposium (LPS) Chair Samantha Scruggs, 30th Center for Chemical Process Safety (CCPS) International Conference Chair Karen Study, 17th Process Plant Safety Symposium (PPSS) Chair Lisa Long, 4th Process Safety Management Mentoring (PSM2) Chair Laura Turci, Perspectives on Process Safety from Around the World Chair Jatin Shah, Process Safety Spotlights Chair J. Wayne Chastain, Design Institute for Emergency Relief Systems (DIERS) Symposium Chair</p> <p>Presentation of William H. Doyle Award for LPS Best Paper Award and PPSS Best Paper Award</p>

MONDAY, April 27

	Process Safety Spotlights	4 th Process Safety Management Mentoring (PSM ²)	30 th Center for Chemical Process Safety International Conference (CCPS)	17 th Process Plant Safety Symposium (PPSS)	49 th Annual Loss Prevention Symposium (LPS)	Design Institute for Emergency Relief Systems (DIERS)
	<i>Process Safety in LNG and LPG I</i>	<i>Guidelines for Effective Implementation of PSM II</i>	<i>Committed Culture II</i>	<i>What You Need to Know about Process Safety for Capital Projects</i>	<i>Fires and Explosions II</i>	<i>Relief Considerations for Low Pressure Storage Tanks</i>
	Location: Conv. Ctr. Ballroom E	Location: Conv. Ctr. Ballroom G	Location: Conv. Ctr. Room 18B&C	Location: Conv. Ctr. Room 17A&B	Location: Conv. Ctr. Room 19A&B	Location: Conv. Ctr. Ballroom F
	Co-Chairs: Trey Morrison, Kathy Pearson Victor Edwards	Co-Chairs: Ravi Ramasamy Kaitlin Keller	Co-Chairs: Jim Klein Seshu Dharmavaram	Co-Chairs: Katherine Prem Yan Chu	Co-Chairs: Jerome Taveau Derek Miller	Co-Chairs: Casey Houston Georges Melhem
1:30 PM	CFD Modeling of Large Scale LNG Pool Fires <i>Fillipo Gavelli</i>	Implementing PSM: Perspective from a Process Engineer Turned PSM Attorney <i>D.A. Duggar</i>	Creating a Culture of Chronic Unease <i>Laurence Pearlman</i>	Real World Challenges in Meeting Risk Criteria for Brownfield Projects <i>Anne Branson</i>	Hydrogen Jet Vapor Cloud Explosion: Test Data and Comparison with Predictions <i>J. Kelly Thomas</i>	Influence of Overpressure in Pressure Vacuum Safety Valves on Emission Reduction and Explosion Risk Minimization of Atmospheric Storage Tanks <i>Davide Moncalvo</i>
2:00 PM	CFD Modeling of LNG Spreading and Atmospheric Dispersion <i>Anh Bui</i>	Living the Process Safety from Instrumentation and Control Projects, a Successful Case <i>John Rueda</i>	Guidelines for Creating a Process Safety Culture Assessment Tool <i>Sunil Lakhiani</i>	Pre-Developing an Asset Integrity Program during the Capital Project <i>F. Russ Davis</i>	Prediction of the Mass Flow of Heavy Gas Released from Standard Gas Bottles <i>Christian Rauchegger</i>	A Comprehensive Guide to Accurately Size Pressure and Vacuum Relief Devices for Atmospheric and Low Pressure Storage Tanks <i>Steve Streblow</i>
2:30 PM	Mitigation Effect of High Expansion Foam on LNG Vapor Hazard <i>Bin Zhang</i>	Implementation of Process Hazard Analysis at SINOPEC-SABIC Tianjin Petrochemical Company Ltd, China <i>Homoud Al-Maynoui</i>	Cracking the Code of Process Safety Culture with Organizational Network Analysis <i>Elliot Wolf</i>	Prevention or Mitigation of Major Accident Hazards through Early Identification of Safety Critical Elements <i>Raminaidu Girada</i>	Engineered Floating Beads: New Method for Vapor Suppression and Fire Prevention for Flammable Liquids <i>Joe Riordan</i>	Overfilling Protection for Weak Tanks <i>Rahul Raman</i>
3:00 PM	Coffee and Networking Break Location: Conv. Ctr. Exhibit Hall 5					

Tuesday, April 28

	Process Safety Spotlights	4 th Process Safety Management Mentoring (PSM ²)	30 th Center for Chemical Process Safety International Conference (CCPS)	17 th Process Plant Safety Symposium (PPSS)	49 th Annual Loss Prevention Symposium (LPS)	Design Institute for Emergency Relief Systems (DIERS)
	<i>Process Safety in Upstream Operations I</i>	<i>PSM Mastery I - Specific examples of the four pillars of risk based process safety</i>	<i>Enhanced Application of Lessons Learned</i>	<i>Best Practices in Process Safety and Risk Management II</i>	<i>Facility Siting Consequence Analysis II</i>	<i>How to Measure the Right Data for Reaction Systems</i>
	Location: Conv. Ctr. Ballroom E	Location: Conv. Ctr. Ballroom G	Location: Conv. Ctr. Room 18B&C	Location: Conv. Ctr. Room 17A&B	Location: Conv. Ctr. Room 19A&B	Location: Conv. Ctr. Ballroom F
	Co-Chairs: Cheryl Grounds Robert Benedetti	Co-Chairs: Brian Dickson Ruifeng "Ray" Qi	Co-Chairs: Andrew Goddard Swati Umbrajkar	Co-Chairs: Sandipan Laskar Mervyn Carneiro	Co-Chairs: Ronald J. Willey Jean-Paul Lacoursiere	Co-Chairs: Peter Ralbovsky Wayne Chastain
1:30 PM	Safety Case VS SEMS: Are They Really All That Different? an Operator's Perspective <i>Chris Israni</i>	Sherlock Holmes, Why Trees, Bow Ties, and Investigating Process Incidents, <i>James Klein</i>	Dow Learnings & Actions from the Deepwater Horizon Accident <i>John Champion</i>	Problems with HAZOPs and How to Correct Them <i>Howard Duhon</i>	Discharge and Dispersion for Large-Diameter CO2 Releases: Experimental Data and Data Review <i>Henk Witlox</i>	Phi Correction for Exothermic Gas Generation Rate <i>Guibing Zhao</i>
2:00 PM	A Modern Well HAZOP Approach <i>Yaneira Saud</i>	Ten Commandments of Risk Based Process Safety <i>Robert Rosen</i>	Three Decades after Bhopal: What We Have Learned about Effectively Managing Process Safety Risks <i>Bruce Vaughen</i>	Good till the Last Drop – Acceptable Valve Leakage Rates <i>Adam Cozat</i>	Alternative Screening Level Models for the Siting of Structures Subject to Potential Blast Hazards <i>Raymond. H. Bennett</i>	Calorimetric Study of the Exothermic Decomposition of Dimethyl Sulfoxide <i>B. Todd Brandes</i>
2:30 PM	To Safely Go Where No Man Has Gone before: Exploring and Producing with Process Safety <i>Mike Broadribb</i>	Developing Credible Scenarios for a PHA, <i>Nestor Paralicci</i>	HUAA...When Local Learning and Casual Sharing Is Not Enough <i>Mike Bearrow</i>	Improving Process Safety Performance <i>James Klein</i>	Calculating Facility Siting Study Leak Sizes - Applications of the Maximum Design Leak (MDL) Approach <i>Gary A. Fitzgerald</i>	Relief System Sizing for Runaway Chemical Reactions - a Simple Comprehensive Approach <i>Charles Kozlowski</i>
3:00 PM	Coffee and Networking Break Location: Conv. Ctr. Exhibit Hall 5					

Tuesday, April 28

	Process Safety Spotlights	4 th Process Safety Management Mentoring (PSM ²)	30 th Center for Chemical Process Safety International Conference (CCPS)	17 th Process Plant Safety Symposium (PPSS)	49 th Annual Loss Prevention Symposium (LPS)	Design Institute for Emergency Relief Systems (DIERS)
	<i>Process Safety in Crude Oil Transportation</i>	<i>PSM Mastery II - Specific examples of the four pillars of risk based process safety</i>	<i>Intentional Competency Development</i>	<i>Getting the Most from Your Process Safety Near Misses I</i>	<i>Facility Siting and Consequence Analysis III</i>	<i>Practical Methods for Two Phase Flow Estimates</i>
	Location: Conv. Ctr. Ballroom E	Location: Conv. Ctr. Ballroom G	Location: Conv. Ctr. Room 18B&C	Location: Conv. Ctr. Room 17A&B	Location: Conv. Ctr. Room 19A&B	Location: Conv. Ctr. Ballroom F
	Co-Chairs: Dan Miller Bernard Groce	Co-Chairs: Nicholas N. Cristea, Faraz Khan, Siemens	Co-Chairs: Lizbeth Cisneros Don Connelley	Co-Chairs: John Champion Colin (Chip) Howat III	Co-Chairs: Ronald J. Willey Jean-Paul Lacoursiere	Co-Chairs: Davide Moncalvo Georges Melhem
3:30 PM	Human Factors Considerations: Midstream Process Safety Integration <i>Denise Brooks</i>	PHA Facilitation and Teamwork Dynamics: Or Why Not All Hazops Are Created Equal <i>Carlos Barrera</i>	Know Your Target Audience - Building Leader Competency in Process Safety <i>Joan Bruney</i>	Are We Really Learning from Incidents? a Discussion of Best Practices and Common Mistakes <i>Laurence Pearlman</i>	An Optimization Formulation for Risk Reduction of the Layout of Offshore Platforms <i>Joshua Richardson</i>	Choked and Near-Choked Real Gas and Two-Phase Flow Analysis of Discharge Piping <i>Leonid Korelshteyn</i>
4:00 PM	Overcoming the Process Safety Challenges in Midstream Pipeline Operations <i>Juan E. Contreras</i>	Assimilating Design Formulation and Design Review into a HAZOP - Lessons Learned and Additional Tips <i>Steven T. Maher</i>	Bridging Hazard Recognition Knowledge and Competency for Process and Occupational Safety <i>Michael Fleming</i>	Praxair's Process Safety Metric Program and Use if Large Data <i>Dan Rathgeber</i>	Blast Resistant Design and Retrofit of Buildings at Petrochemical Facilities <i>Paul Summers</i>	Models for Multi-Phase & Single-Phase Flow in Pressure Relieving System Using Bernoulli Integration <i>Freeman Self</i>
4:30 PM	Hazardous Material Transportation Perceived Risks & Risk Management <i>Brad A. Fuller</i>	Surviving an OSHA PSM National Emphasis Program Audit <i>James Johnstone</i>	Making Sense of Reason: A Review of the Message James Reason Put Forward for a Re-Think of Safety Management Principles <i>Brian Dickson</i>	Systematic Approach to the Root Cause of Process Safety Events at Equion Energia Ltd <i>Ignacio Alonso</i>	Thermal Radiation Analysis from Large Pool Fires in an Existing Atmospheric Storage TANK Farm to Estimate the Maximum FIRE Water Demand <i>Marco-Antonio Medrano</i>	How to Size a Rupture Disk Vent Line for Two-Phase Gas/Liquid Flow Based on Current Engineering Practices <i>Juergen Schmidt</i>

Wednesday, April 29

	Process Safety Spotlights	4 th Process Safety Management Mentoring (PSM ²)	30 th Center for Chemical Process Safety International Conference (CCPS)	17 th Process Plant Safety Symposium (PPSS)	49 th Annual Loss Prevention Symposium (LPS)	Design Institute for Emergency Relief Systems (DIERS)
	<i>Big Data Analytics Panel I</i>	<i>Guidelines for Effective Implementation of PSM III</i>	<i>Enhanced Stakeholder Knowledge</i>	<i>Application of Risk Analysis I</i>	<i>Process Safety in Upstream Operations II</i>	<i>New Developments in Fire Exposure and Depressuring Systems Design and Evaluation</i>
	Location: Conv. Ctr. Ballroom E	Location: Conv. Ctr. Ballroom G	Location: Conv. Ctr. Room 18B&C	Location: Conv. Ctr. Room 17A&B	Location: Conv. Ctr. Room 19A&B	Location: Conv. Ctr. Ballroom F
	Co-Chairs: Jatin Shah Eric Peterson Leo Chiang	Co-Chairs: Brenton L. Cox Kaitlin Keller	Co-Chairs: Brad Newman Ryan Hart	Co-Chairs: Phil M. Myers Mike Broadribb	Co-Chairs: Cheryl Grounds Robert Benedetti	Co-Chairs: Michael Maness, Georges Melhem
8:00 AM	Panelists Include: Ted Wasserman , Tableau Software Lyold F. Colegrove , The Dow Chemical Company Deborah Grubbe , Operations and Safety Solutions, LLC Michael Firstenberg , Waterfall Security Solutions	CSB Recommendations for PSM Reform <i>Mark Griffon</i>	Mary Kay O'Connor Process Safety Center: A Catalyst for Enhanced Process Safety Competency and Knowledge <i>Sam Mannan</i>	Dependent, Independent and Pseudo-Independent Protection Layers in Risk Analysis <i>Hui Jin</i>	CFD Analysis and Field Tests of Gaseous Leaks with 80% CO2 on Offshore Facilities <i>Jianxin Lu</i>	Modification of the Diers Fire Exposure Test Methodology <i>Peter J. Ralbovsky IV</i>
8:30 AM		Improving Risk-Based Decision Making By Connecting PSM Systems to Day-to-Day Plant Operations <i>Mike Neill</i>	Advancing the Imperative for Process Safety Education in Engineering Curricula <i>Gord Winkel</i>	The Societal Risk of Process Industry Based on Integrated Assessment of Quantitative Risk Analysis (QRA) and Risk-Based Inspection (RBI) Methodologies <i>Vincius Esteves</i>	Case Study: Laser-Based Gas Detection Technology and Dispersion Modeling Used to Eliminate False Alarms and Improve Safety Performance on Terra Nova FPSO <i>Rajat Barua</i>	Guidance for Sizing Relief Devices That Are Installed below Liquid Level in an External Fire <i>Rahul Raman</i>
9:00 AM		Risk Doesn't Equal Frequency Times Severity <i>Fred Henselwood</i>	Dow Laboratory Safety Academy Promotes Safety Mindset in Future Chemical Workforce <i>Marabeth Holsinger</i>	Addressing Issues in the Design and Use of Risk Matrices in Process Safety <i>Paul Baybutt</i>	Escape Routes Selection for Offshore Units Based on Quantitative Risk Assessment Results <i>Mariana B. Bardy</i>	Mechanical Integrity Considerations in LNG Depressurization <i>Daniel Nguyen</i>
9:30 AM	Coffee and Networking Break Location: Conv. Ctr. Exhibit Hall 5					

	Process Safety Spotlights	17 th Process Plant Safety Symposium (PPSS) <i>Track II</i>	30 th Center for Chemical Process Safety International Conference (CCPS)	17 th Process Plant Safety Symposium (PPSS)	49 th Annual Loss Prevention Symposium (LPS)	Design Institute for Emergency Relief Systems (DIERS)
	<i>Big Data Analytics Panel II</i>	<i>Getting the Most from Your Process Safety Near Misses II</i>	<i>CCPS Featured Projects – Vision 20/20</i>	<i>Application of Risk Analysis II</i>	<i>Reactive Chemicals</i>	<i>Unique Aspects of Pressure Relief Systems Design and Evaluation for Reaction and Flare Systems</i>
	Location: Conv. Ctr. Ballroom E	Location: Conv. Ctr. Ballroom G	Location: Conv. Ctr. Room 18B&C	Location: Conv. Ctr. Room 17A&B	Location: Conv. Ctr. Room 19A&B	Location: Conv. Ctr. Ballroom F
	Co-Chairs: Jatin Shah Eric Peterson Leo Chiang	Co-Chairs: John Champion Colin (Chip) Howat III	Co-Chairs: Jeff Fox Eric Freiburger	Co-Chairs: Phil M. Myers Mike Broadribb	Co-Chairs: Kathleen A. Kas John F. Murphy	Co-Chairs: Ken Kurko Wayne Chastain
10:15 AM	Panelists Include: Ted Wasserman, Tableau Software Lyold F. Colegrove, The Dow Chemical Company Deborah Grubbe, Operations and Safety Solutions, LLC Michael Firstenberg, Waterfall Security Solutions	Process Safety Opportunities for the Refining and Petrochemical Industries Jerry Forest	Vision 20/20 Panel Facilitators: Jack McCavit & Cheryl A. Grounds	New Building Siting Using Risk-Based Approach John N. Dyer	Chemical Incompatibility Matrices Michelle Murphy	Statistical Review of Runaway Reaction Kinetics Enio Kumpinsky
10:45 AM		A Miss, Amiss, a Near Miss John Wincek		Evaluation of Uncertainty in Safety Integrity Level (SIL) Calculations Randy Freeman	Understanding the Effect of Fill-Ratio on Thermo-Kinetic Data Swati Umbrajkar	Emergency Relief System Design for Reactive System Using Direct Scale-up Method Surendra Singh
11:15 AM		Do We Really Need More Process Safety Leaders? Jennifer Mize		Identifying and Quantifying Major Hazard of Construction Lifting Activities Akhmad Harmantoro	Lending Industrial Experience through Reactive Hazard Examples in University Safety Instruction Henry T. Kohlbrand	Engineering Safe Pressure Relief for Existing Flare Systems Jay Riha & Steve Streblow
11:45 AM	Spring and GCPS Joint Luncheon with Speaker: Al Sacco – You think you have safety concerns!! The flight of STS-73 Location: Hilton, Sixth Floor, Salon F, G, H, J and K					

	<p align="center">Case Histories and Lessons Learned – GCPS Joint Session</p> <p align="center">Location: Conv. Ctr. Ballroom D</p> <p align="center">Co-Chairs: Fred Henselwood, Kathy Shell and Kendall Werts</p>
1:30 PM	<p align="center">Fire from the Cascading Failure of an Oxygen Supply System</p> <p align="center"><i>Delmar Morrison & Vijay Kumar</i></p>
2:00 PM	<p align="center">Lessons Learned from an Incident at a Cryogenic Gas Processing Facility</p> <p align="center"><i>Adrian Pierorazio</i></p>
2:30 PM	<p align="center">Cangrejera Learnings</p> <p align="center"><i>Jerry Forest</i></p>
3:00 PM	Break
3:15 PM	<p align="center">U.S. Chemical Safety Board's Final Investigation Report on the Chevron Richmond Refinery Rupture and Fire</p> <p align="center"><i>Lauren Grim & Mark Wingard</i></p>
4:00 PM	<p align="center">Bhopal 30 Years Later</p> <p align="center"><i>Ronald J. Willey & Dan Crawl</i></p>
4:45 PM	GCPS Concluding Remarks