

TUESDAY, OCTOBER 27 • 7:30AM- 8:00AM – Registration & Continental Breakfast

Oakwood	The Frank P. Lees Memorial Lecture:			
8:00AM	"An Update on U.S. Chemical Safety Board Activities" - Ms. Vanessa Allen Sutherland, Chairperson, U.S. Chemical Safety Board			
8:45AM	MKOPSC Initiatives and Ongoing Projects - Dr. Ray Mentzer			
9:15AM	Director's Address – Dr. Sam Mannan, Director, MKOPSC			
9:45AM	Break and Exhibit Hall - Ballroom			
	Track I	Track II	Track III	Track IV
Rooms	Oakwood	North/South 40	Brazos	Mockingbird
	Chairs: Ray Mentzer, Kathy Shell, Scott Ostrowski	Chairs: Michela Gentile, Mike Marshall	Chairs: Sara Saxena, George King	Chairs: Marc Levin, Reyyan Koc-Karabocek, Victor Carreto
	Risk Assessment/LOPA I	Hazard Assessment I	Case Study/Lessons Learned I	Process Mgmt for Safety I
10:15AM	"Risk Assessment Tool for Liquid Overflow of Process and Storage Vessels" Ryan Wong , ExxonMobil Research and Engineering	"Facility Siting of an Ammonia Urea Complex Based on Risk Analysis" Syeda Sultana Razia , Bangladesh University of Engineering and Technology	"Lessons Learned from Industrial Chemical Accidents: A Case Study of Indian Oil Corporation (IOC) Terminal, Jaipur, India" Ravi Sharma , Indian Institute of Technology Roorkee	"Implementing New Elements into an Existing PSM System" James Thompson , ABS Group
10:45AM	"Dynamic Barrier Management – Managing a Dynamic Reality" William Nelson , DNV GL	"A Numerical Approach to Determining Flammability Limits of Hydrocarbon Process Fluids" Peter Veloo , Exponent	"Ensuring Safe Facility Blowdown and Lessons Learnt from Incident Investigation" Simon Leyland , Process Systems Enterprise	"Creating a PSM Environment" David Moore , AcuTech Consulting
11:15AM	"Quantitative Assessment of Safety Barrier Performance in the Prevention of Cascading Events" Valerio Cozzani , University of Bologna	"Life-Safety Concerns in Chemical Plants" Richard Prugh , Chilworth Technology	"Selection of Failure Frequency and its impact on risk assessment - a case study from plot plan optimization" Mahesh Murthy , Maersk Oil; Nellya Serikova , DNV GL	"Process Safety Management to Manage Risk in Occupancies Other than Chemical Process Facilities" Hocine Ait Mohamed , Saudi Aramco
11:45AM	Lunch and Exhibit Hall - Ballroom			
	Safety Culture	Process Mgmt for Safety II	Dust Explosion Hazards	Case Study/Lessons Learned II
1:00PM	"The Interpersonal Relationships Dealt by Safety Professionals in Universities: The Impacts of Safety Department" Pei-Chen Lu , National Changhua University of Education	"Fire Protection Integrity and Optimization" Jason Leacox , Atkins	"Quantification of the Thermal Hazard from Metallic and Organic Dust Flash Fires" Michael Stern , Exponent	"QRA Considering Multi-Vessel Failure Scenarios Due to a Natural Disaster - Lessons from Fukushima" Seunggho Jung , Ajou University
1:30PM	"Increasing Near-Miss Reporting Through a Culture of Mutual Understanding and Self-Disclosure" Elizabeth Schlee , Bluefield Process Safety	"Security Vulnerability Assessments: The Dow Chemical Approach" William Efaw , Dow Chemical	"Thermal Behavior and Dust Explosion Characteristics of Spent Coffee Grounds and Jatropha as Biodiesel Feedstock" Masatoshi Todaka , Fukuoka University	"Necessity of Performing Hazard Evaluations (PHAs) of Non-Normal Modes of Operation (Startup, Shutdown, & Online Maintenance)" William Bridges , Process Improvement Institute; Mike Marshall , OSHA
2:00PM	"Building Process Safety Culture at Texas A&M University at Qatar: A Case Study on Experimental Research" Tomasz Olewski , Texas A&M at Qatar	"Organizational Process Safety: Taking Process Safety to the Next Level" Greg Robinson , DEKRA Insight	"Effect of Moisture Content on Dust-Layer Dispersion Behind a Moving Shock Wave" H. Greg Johnston , Texas A&M University	"Use of FLACS During the TWA-800 Accident Investigation" Kees van Wingerden , Gexcon
2:30PM	Break and Exhibit Hall (*Door Prizes at 2:45PM) - Ballroom			
	ISD	Risk Assessment/LOPA II	Consequence Analysis I	Human Factors
3:00PM	"Inherently Safer Design for Process Plant Piping and Equipment Exposed to Accidental Explosion Loads" Ali Sari , Genesis Oil and Gas	"Critical Mitigation Element Methodology: An Approach to Achieving Consistent Risk Evaluation Results" Stewart Behie , Occidental Oil and Gas	"A Study of the Blast Wave Shape from Elongated VCEs" Quentin Baker , BakerRisk	"The Human Error Bowtie as an Effective Tool to Assess Critical Processes and Human Based Barriers" Kalisha Bennett , Shell
3:30PM	"Safe Design Consideration for Overpressuring Protection via Depressuring Valves" Abdul Aldeeb , Siemens Energy	"Large Scale Detonation Testing – RPSEA Project Award" Scott Davis , Gexcon US	"Pressure relief sizing of reactive system using DIERS simplified methods and dynamic simulation method" Surendra Singh , ioKinetic	"Using a Data-Driven Method of Accident Analysis: A Case Study of the Human Performance Reliability (HPR) Process" William Brokaw , Kestrel Management
4:00PM	"Process Safety Compliance Does Not Mean You Are Safe?" Tom Drake , The Drake Group	"Managing Risk and Capturing Corporate Memory with Internal Best Practices" Jeannie Lewis , Equity Engineering	"The Critical Transition Length from Chapman-Jouguet Deflagrations to Detonations" M.I. Radulescu , University of Ottawa	"Applying Human Factor Principles to Procedure Presentation and Design" Elliott Lander , ATR
4:30PM	"Comparison of Prescriptive and Performance-Based Regulatory Regime in the USA and UK" Shubharthi Barua , Chicago Bridge	"HazOp: Our Primary Guide in the Land of Process Risks: How can we improve it and do more with its results?" Hans Pasman , MKOPSC	"Integration of Damage Mechanism Review with Process Hazard Analyses" Michael Tia , Kazarians and Associates	"Correlation of Safety Leadership and Safety Culture" Chris Israni , ERM
5:00-7:00PM	Cocktail Reception (*Door Prizes at 6:00PM) - Ballroom			
5:30-7:30PM	Poster Session - Inside Ballroom			

WEDNESDAY, OCTOBER 28 • 7:30AM-8:00AM – Continental Breakfast

Oakwood	"In Pursuit of Improving Process Safety Performance" - Dr. Ian Cameron, Professor, University of Queensland			
8:00AM				
8:30AM	Panel on Industry Adoption of New Methods - Dr. Sam Mannan (Moderator); Dr. Hans Pasman, MKOPSC ; Dr. Ian Cameron, University of Queensland; Eamonn Naughton, BP			
9:15AM	Presentation of Trevor Kletz Merit Award, Harry West Service Award, & Lamiya Zahin Memorial Safety Scholarship – Dr. Sam Mannan, MKOPSC			
9:30AM	Break and Exhibit Hall - Ballroom			
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	SIS	OESI I	Process Mgmt for Safety III	LNG
10:00AM	"Implementing Safety Instrumented Burner Management Systems: Challenges and Opportunities" Michael Scott , aeSolutions	"The Challenges and Successes in Safety and Environmental Management System (SEMS) Approaches to Offshore Operations" Stan Kaczmarek , BSEE	"Application of Human Factors Evaluation in Engineering Design and Safe Operation of Dense Phase Ethylene Treaters" William Banick and Cindy Wei , Genesis Oil and Gas	"Comparison of Methods to Determine Exclusion Zones for LNG Terminals" Cynthia Spitzenberger , DNV GL
10:30AM	"ISA84/IEC61511 SIS Functional Safety Compliance - It's a Journey Worth Taking" , Curtis Miller , Exida; Dan Poston , LyondellBasell	"Is Your Temporary Refuge Truly Safe?" Chandra Gulati , Shell	"Lessons Learned from Third Party Process Safety Management Audits" Steven Pereira , Professional Safety Associates	"A CFD-Based Approach for Gas Detectors Allocation" Richart Vazquez Roman , Instituto Tecnologico de Celaya
11:00AM	"Diversity and Independence with Regard to BPCS and SIS Systems" Arvin Creef , HIMA Americas	"Building on the Foundation of Process Safety by Incorporating Barrier Integrity Assurance" Megan Weichel , DNV GL	"Double Jeopardy for \$1000 Alex - What it is and How to apply it" Donnie Carter ; John Perez , and William Wimberly , Cognascentis	"Where to Begin - a parametric study for vapor barriers at LNG export facilities" Bryant Hendrickson , Gexcon US
11:30AM	Lunch and Exhibit Hall - Ballroom			
	Relief Systems	Risk Assessment/LOPA III	Process Mgmt for Safety IV	Hazard Assessment II
12:30PM	"Successful Demonstration of Relieving CO2-Solid-Forming Streams through a Pressure Relief System" David Maher , ExxonMobil	"Vapor Cloud Explosion Live Test and Data Analysis Development Program" Scott Hardesty , Applied Research Associates	"Lead Process Safety Metrics" Trish Kerin , IChemE	"Dust Explosion Characteristics of Cellulose Acetates with Different Degrees of Acetylation" Wasana Kowhakul , Fukuoka University
1:00PM	"Proven MOC Process Workflow to Ensure that Relief Systems PSI is Updated with Changes" Achilles Arnaez , Smith & Burgess	"Risk Assessment of LNG Storages Using LOPA and FTA: An Integrated Approach" Renjith Ravindran , Cochin University of Science and Technology	"Improving Operational Performance: Connecting the Impact of Process Safety Management to Daily Operations" Mike Neill , Petrotechnics	"Onshore Facility Hazard Analysis" Eric Peterson , MMI Engineering; Ryan Morton , Anadarko
1:30PM	"A Flare and Overpressure Management System - Methods, Metrics, KPIs, and Software Solutions" Mike Marshall , MT Marshall	"Explosion Loading on Equipment from CFD Simulations" Olav Hansen , Lloyd's Register Consulting	"Equipment Data Collection... Simplified" Keith Lapeyrouse , Process Reliability Solutions	"Evacuation Simulations of Confined Spaces in Petrochemical Facilities" Qingsheng Wang , Oklahoma State University
2:00PM	Break and Exhibit Hall (*Door Prizes at 2:30PM) - Ballroom			
	Process Mgmt for Safety V	Facility Siting	OESI II	Reactive Chemicals
2:45PM	"Successful Scale-Up via Simulation of Production Vessels under Lab Conditions using PAT and Thermal Analysis" Dominique Hebrault , Mettler Toledo	"A Comprehensive Approach to API RP 752 and 753 Building Siting Studies" Jeffrey Marx , Quest Consultants	"Improving Offshore Regulatory Data Reliability for Decision Making" Melinda Mayes , BSEE	"Pattern Recognition Techniques Implementation on Data from In-Line Inspection (ILI)" Rafael Amaya-Gomez , Universidad de los Andes
3:15PM	"CCPS Vision 20/20 - Delivering Great Process Safety Performance" Samantha Scruggs , AIChE-CCPS	"Visualizing Process Design, Operation and Failure Impacts through State Space Representations" Benjamin Seligmann , Curtin University	"Decision Support for Dynamic Barrier Management for Offshore Operations" William Nelson , DNV GL	"Exploring New Tools in Hazard Identification and Mitigation Strategy Selection in the Process Industry" Mohammad AlKazimi , Kuwait Oil Company
3:45PM	"A Simplified PSM Guidance for Small Facilities Using a Risk Based Approach" Swarup Bade , Lloyd's Register Energy	"Case Histories of Chemical Plant Hoses Delivering Grief" Roy Sanders , Consultant	"Improved Methodology on the Safe Design of Offshore Exploration and Production Facilities for Accidental Collisions" Hieu Nguyen , Genesis Oil and Gas	"Reactive Chemicals Projects at MKOPSC-Q" Luc Vechot , Texas A&M University at Qatar
4:30PM	Engineering Ethics Session (1 hr) – Brazos Room			
6:30PM	Symposium Banquet at Traditions Club – (Ticketed Event) Buses arrive at 6:00 at the Fountain Entrance			

Symposium Sponsors:



REMOVING UNCERTAINTY



Oakwood	Universal Risk Matrix and ALARP Panel Discussion - Jeff Thomas , ExxonMobil; Scott Ostrowski , Exxon Mobil; Marc Levin , Shell; Jack Chosnek , KnowledgeOne; Jeff Marx , Quest Consultants			
8:00AM				
8:45AM	General Session: "A Vision for Process Safety, BP's Approach" Eamonn Naughton , Group Head of Risk, Learning, and HSE, BP			
9:30AM	Break and Exhibit Hall - Ballroom			
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	Transportation Safety	Risk Assessment/LOPA IV	Human Factors	Consequence Analysis II
10:30AM	"A flammability (risk) index for transportation of flammable liquids" Phani Raj , Federal Railroad Administration	"Are you as safe as you think you are?" Stephen Shaw , ERM	"High Reliability Organizations: Managing Risk in Complex Operating Environments" Christopher Seifert , Wilson Perumal and Company	"Why we need Process Safety Education as we move into the 21st Century" Daniel Crowl , Michigan Tech University
11:00AM	"Magnitude of Hazards Associated with the Rail Transport of Crude Oil and LPG" John Cornwell , Quest Consultants	"Oversight of Petroleum Systems Integrity in Alaska" Dave Norton , Hawk Consultants	"Managing Human Reliability: An Abnormal Situation Management Historical Perspective" Peter Bullemer , Human Centered Solutions	"Large Scale VCE Consequence Modeling for Industrial Facility Siting, Risk Assessment, Hazard Mitigation Design, and Response Planning" Brian Holland , Trinity Consultants
11:30AM	"Optimal Sectioning of Hydrocarbon Transport Pipeline by Volume Minimization, and Environmental and Social Vulnerability Assessment" John Fontecha , Universidad de Los Andes	"An Alternative CFD Tool for Gas Dispersion Modeling of Heavy Gas" Savio Vianna , University of Campinas	"Development of an effective procedure writer's guide using a human factors and regulatory compliance approach" S. Camille Peres , Texas A&M University	"Validation of geometry modeling approaches for offshore gas dispersion simulations" Irufan Ahmed , DNV GL
12:00 Noon	Close (Box lunches available)			

Exhibitors and Booth Numbers

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|---|--|
| ABS Group - 5 | M&H - 32 |
| AcuTech Consulting - 30 | Micropack Detection - 14 |
| aeSolutions - 20 | MMI Engineering - 12 |
| AICHE-CCPS - 39 | Ogletree Deakins - 36 |
| AMECO - 3 | Operational Sustainability - 8 |
| Assero Resources - 26 | Petrotechnics - 23 |
| ATR - 34 | Process Improvement Institute - 10 |
| BakerRisk - 19 | Process Reliability Solutions - 37 |
| DNV GL - 29 | Provenance Consulting - 4 |
| Equity Engineering - 27 | PSRG - 11 |
| Exponent - 1 | Quest Consultants - 15 |
| Farris Engineering Services - 16 | Rolls Royce Controls and Data Services - 13 |
| Gateway Consulting Group - 6 | Sage Environmental Consulting - 31 |
| GexCon US - 21 | Senscient - 9 |
| Hanbay - 40 | Siemens - 18 |
| HIMA Americas - 22 | SIS-Tech Solutions - 28 |
| IChemE - 17 | Smith & Burgess - 33 |
| ioMosaic - 25 | TEES Turbomachinery Laboratory - 38 |
| Kestrel Management - 7 | United Electric Controls - 2 |
| Lloyd's Register Energy - 24 | Trinity Consultants - 35 |



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