

| Tuesday, October 19 | | | | | |
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| Registration & Continental Breakfast | | | | | |
| 8:00 AM Keynote Speech Neil Ackerman, President, Occidental Chemical Corporation | | | | | |
| 9:00 AM Welcome Speech (Ballroom) | | | | | |
| 9:15 AM Break and Exhibit Hall - Ballroom | | | | | |
| Track I: Managing Operations and Maintenance | | Track II: Human Factors | | Track III: Design, Analysis, Modeling and Assessment | Track IV: Next Generation |
| Track Lead: Trish Kerin* | | Track Lead: Jeff Thomas | | Track Lead: Rob Bellair | Track Lead: Nick Gonzales |
| CORPS | | ROSS | | REVEILLE | HULLBALOO |
| Julie D. White/Marisa Pierce* | | Jeff Thomas/Susan Losavio*/Srihari Maganti* | | Delphine Laboureux/Robin Pitblado | Chris Leboeuf/Nitin Roy* |
| 9:45 AM | * Automated multi-objective and multi-stage emergency response plan for petrochemical Industries <i>Ravi Sharma</i> , Indian Institute of Technology-Roorkee | * Shiftworks Practised at Food Manufacturing Industry Affecting Workers' Sleep Pattern, Occupational Injury and Social Life <i>Daashna Suppiah</i> , University Technology of Malaysia (UTM) Johor Bahru | * Is That Really Why Control Systems Go Wrong? <i>Greg Hardin</i> , aeSolutions | * Simplified Case Studies: A Cautionary Tale and Examples of Flexibility in ARC Testing <i>Pranav Bagaria</i> , Dow | |
| 10:15 AM | * Layer Of Protection Analysis (LOPA) implementation challenges and lessons learned - A case study from a global chemical manufacturing company <i>Mahesh Murthy</i> , Risk Management Centre of Excellence (RMCoe) | Is Lack of Situational Awareness a Root Cause? <i>Alex Paradies</i> , System Improvements | * Small Scale LNG Plant Risks <i>Tatiana Norman</i> , DNV | * Experimental and numerical modelling of pressure piling with homogeneous methane/air mixture <i>Bisham McCarthy-Singh</i> , Rotork Controls Ltd | |
| 10:45 AM | Improving our understanding of Hydrogen to avoid possible pitfalls and ensure its safe use <i>Scott Davis</i> , Gexcon | Operationalization of a proposed coding framework to describe differences between WAI and WAD: A case study on a petrochemical facility <i>Atif Ashraf</i> , TAMU | * Safety and Operability Challenges in Compact Electrochemical Energy Storage System <i>Sankhadeep Sarkar</i> , TAMU | * A Comprehensive Blast and Fire Test Program for Blast Resistant Modular Buildings (BRMs) <i>Ali Sari</i> , Omega-Risk | |
| 11:15 AM | Failure Data Gathering for SIS systems <i>Sanjeev Saraf</i> , BP | Enhanced Procedures Using Mobile and Cloud Based Computing <i>Edward Marzal</i> , Kenexis | Devastating Ammonium Nitrate Detonations: Why haven't we learned from past incidents and avoided explosions in Beirut, Tianjin and West Texas? <i>Scott Davis</i> , Gexcon | * High-surface area oxidation: can it also happen in my plant? <i>Bart Dervaux</i> , Dow | |
| 11:45 AM Lunch and Exhibit Hall - Ballroom | | | | | |
| 1:00 PM Panel Discussion I Resiliency of critical infrastructure: Are we ready for extreme events? (Ballroom) Moderator: Dr. Stewart Behie Panelists: Nathan Gould, Director, ABS Group; Bilal Ayuub, Professor, University of Maryland; Sara Saxena, Manager at Western Midstream; Ulrich Straub, Retired Executive at Swiss-Re | | | | | |
| 2:30 PM Break and Exhibit Hall (*Door Prizes) - Ballroom | | | | | |
| | Kathy Shell | Jeff Thomas | Vic Edwards/Robin Pitblado | Nick Gonzales/Chris Leboeuf | |
| 3:00 PM | Accuracy and Response time of reactor skin thermocouple systems used for vessel protection <i>Robert Torgerson</i> , WIKA | Workshop - Human Systems Engineering : How Can People and Processes Work Together <i>S. Camile Peres, Stephanie Payne, Ranjana Mehta and Farzan Sasangohar</i> - Texas A&M | Instrumented Protective Systems - Engineering Management Program <i>Greg Hall</i> , Eastman Chemical company | Development of a New Lab-Scale, Open-Ended Detonation Tube Facility at Texas A&M University <i>James Thomas</i> , TAMU | |
| 3:30 PM | Optimizing Electrolysis Plant Design <i>Kuhan Sivathasan</i> , DNV | | How to Conduct a Climate Risk Vulnerability Assessment (CRVA) <i>Julie D. White</i> , JD White Engineering | Quantitative Flow Velocity Measurements and 3D Particle Diagnostics Prior to Ignition During Dust Explosion Studies <i>Christian Schweizer</i> , TAMU | |
| 4:00 PM | Process Safety Management Gaps Based on OSHA Violation Trends <i>Ronald Melucci</i> , EPM | | Risk Mitigation Study for Hydrogen releases from Hydrogen Fuel Cell Vehicles <i>Seungho Jung</i> , Ajou University | * Using Reaction Calorimetry to Assess Process Safety Hazards with Silicon Hydride Emulsions <i>Jeffrey Kelly</i> , Dow | |
| 4:30 PM Poster Session (Ballroom) | | | | | |
| 5:30 - 7:00 PM Cocktail Reception with Exhibitors *Door Prizes at 5:45PM* (Ballroom) | | | | | |

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| Wednesday, October 20 | | | | | |
|---|--|--|---|---|---------------------------|
| 6:30 AM Continental Breakfast | | | | | |
| 8:00 AM Keynote Speech, "Planning the Plants of the Future" Matthew Marks, Sr. Sustainability Specialist, SABIC | | | | | |
| 9:00 AM Award Ceremony (Ballroom) | | | | | |
| 9:15 AM Break and Exhibit Hall - Ballroom | | | | | |
| Track I: Managing Operations and Maintenance | | Track II: Human Factors | | Track III: Design, Analysis, Modeling and Assessment | Track IV: Next Generation |
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| 9:45 AM | * Learning Opportunities from Near Misses and "Minor" Incidents <i>David Williams, Acutech</i> | * Designing Scalable Online Training for Safety Culture - Interim results of FOCOS (Fuzzy Operational Cognition of Safety Culture) <i>Antonie Jetter, Portland State University</i> | * Jet fire modelling: hydrocarbons and hydrogen <i>Jan Stene, DNV</i> | * Integrating STAMP with numerical simulation technology for real-time explosion risk assessment <i>Shennan Zhou, State Key Laboratory of Explosion Science and Technology, Beijing Institute of Technology University</i> | |
| 10:15 AM | * Process Hazard Analysis for Smaller Changes: Tips and Tools for Avoiding Misses and Improving Quality <i>Jody Olsen, JE Olsen Consulting LLC</i> | * Safety Culture and Worker Fatigue Management in the Offshore Oil and Gas Industry: An Interview Study <i>Xiaomei Wang, TAMU</i> | * Eliminate Fire Hazards during Drum Filling of low Flammability Material <i>Omar Marghalani, UNITED Petrochemical Company</i> | * Influence of Temperature and Simulated Marine Environment Condition on Corrosion Behaviour of Epoxy-based coated 2024 Aluminium Alloy <i>Shams Anwar, Memorial University Of Newfoundland</i> | |
| 10:45 AM | * Risk Based Prioritisation of Maintenance Backlog items <i>Chetan Birajdar, MES</i> | * Understanding your Process Safety Competency <i>Trish Kerin, IChemE</i> | * Accidental subsea releases: Characterisation of flammable gas plumes <i>Savio Vianna, University of Campinas</i> | * Assessment of COVID-19 Barrier Effectiveness Using Process Safety Techniques <i>Lauren Turner, Dalhousie University</i> | |
| 11:15 AM | * Enhancing Process Safety through Scenario Management <i>Susan Losavio, ExxonMobil</i> | * Beyond Personal Safety: Occupational Health Safety (OHS) vs. Process Safety Management (PSM) <i>Carmen H. Osorio-Amado, Exponent</i> | Effect of Congestion Inside Enclosures During Vapor Cloud Explosions <i>Peter Diakow, BakerRisk</i> | * Process Safety and Environment: Are there essential links? The need for integrated choices <i>Maria Papadaki, University of Patras</i> | |
| 11:45 AM | Lunch and Exhibit Hall - Ballroom | | | | |
| 1:00 PM | Panel Discussion II Evolving offshore energy sectors: Where are we? Where are we heading to? Technical and regulatory challenges (Ballroom) Moderator: Dr. Faisal Khan Panelists: Howard Pike, C-NLOPB (Retired) & C-Rise, MUN; Jim Pettigrew, Director, Gulf Offshore Energy Safety (GOES), Gulf Research Program (GRP); Rebecca Green Sr. Project Leader, National Renewable Energy Lab (NREL) | | | | |
| 2:30 PM | Break and Exhibit Hall (*Door Prizes) - Ballroom | | | | |
| | Julie D. White | Camille Peres/Srihari Maganti* | Vic Edwards/Rob Bellair | Nick Gonzales/Chris Leboeuf | |
| 3:00 PM | Common Process Related Tasks Resulting in Severe Injuries and Fatalities <i>Zohra Halim, MKOPSC</i> | Developing a mosaic of safety culture performance from multiple information sources <i>James Curry, Lamar Univeristy</i> | Understanding the Cyber Threat Landscape to Industry <i>Andrew Jarrett, TEEX</i> | * So, What's the Point? Navigating Flammability Classification when Flash Point is Ambiguous <i>David Hietala, Exponent</i> | |
| 3:30 PM | The Great Texas Freeze of 2021 <i>Steven D Emerson, Emerson Technical analysis</i> | Is your transition from "Considering" to "Integrating" Human Factors into SEMS being effective? <i>Monica Philippart, Ergonomic Human Factors Solutions</i> | | Bowties for Offshore Structures High Consequence Risks <i>Sam Slatnick, ExxonMobil</i> | |
| 4:00 PM | Unlocking Risk Analysis Best Practices <i>Bob Evans, Sofic Inc.</i> | Process Safety Near Misses are Warning Signs for a Major Incident <i>Rajender Dahiya, AIG PC Global Services, Inc.</i> | | A Fault Prognosis Framework for Chemical Process Systems using Sparse Models and Deep Learning: OASIS-P <i>Bhavana Bhadriraju, TAMU</i> | |
| 4:30 PM | Engineering Ethics Session (1 hr) | | | | |
| 6:30 PM - 8:00 PM | Symposium Dinner | | | | |

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| Thursday, October 21 | | | | | |
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| 6:30 AM Continental Breakfast | | | | | |
| 8:00 AM Keynote Speech, "Lessons from the Ashes: The Critical Role of Safety Leadership" Robert Sumwalt, Former Chairman, National Transportation Safety Board (NTSB) | | | | | |
| 9:00 AM Break and Exhibit Hall - Ballroom | | | | | |
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| 9:30 AM | IChemE Safety Centre Interaction Case Study – Tank Farm <i>Trish Kerin, IChemE Safety Centre</i> | The Need for Ensemble Fatigue Monitoring Practices in Offshore Environmentse <i>Ranjana Mehta, TAMU</i> | | * Defensible Rationale for Fire & Gas System Design <i>Jyoti Sharma, SIS-Tech Solutions</i> | * Big data and Industry 4.0 provide a chance to increase safety level: SAFETY 4.0 <i>Dr. Hans J. Pasman, MKOPSC</i> |
| 10:00 AM | | Disaster Ergonomics: Growing Challenges from Disasters and Increasing Needs for Human Factors Approach <i>Changwon Son, Texas Tech University</i> | | Evaluation of the Efficacy and Treatment of Hazard Mitigation Measures for LNG Facilities <i>Filippo Gavelli, Blue Engineering and Consultants</i> | * Analysis and Simulation of jet fire consequence during surface transport of liquefied Petroleum gas (LPG): A Case Study <i>Greeshma Benoit, Cochin University</i> |
| 10:30 AM | | An Examination of Workers' Acceptance of Digital Procedures and Subsequent Procedure Deviations: An Application of the Technology Acceptance Model <i>Joseph Hendricks, TAMU</i> | | Dynamic Relief Analysis of a Distillation Tower Works as a Mitigation for an Undersized Flare System <i>Fuman Zhao & Thuy Nhu Huynh, PSRG Inc.</i> | * Combining the bow-tie method and fuzzy logic using Mamdani Inference model <i>Savio Vianna, University of Campinas</i> |
| 11:00 AM | The Business Case for Process Safety: Basic Foundational Requirements to Achieve Success Stewart W. Behie, Ph.D., P.Eng., <i>Zohra Halim, Ph.D.</i> , Mary Kay O'Connor Process Safety Center, Texas A&M University <i>Kathy Shell, PE (OH), Executive Process Safety Advisor, ae Solutions</i> | | | | |
| 12:00 PM | Closing & Lunch | | | | |

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