

<b>Monday, March 13, 2023</b>	
7:00 AM	<b>AGILE Keynote Continental Breakfast</b> Location: Hilton Americas, Ballroom of Americas A-F
8:00 AM	<b>2023 AIChE Spring Meeting and 19th GCPS AGILE Award Keynote Address</b> Location: Hilton Americas, Ballroom of Americas A-F <b>Welcome and Introductions</b> Presented by <b>Billy B. Bardin</b> , AIChE President, and <b>Darlene Schuster</b> , Executive Director and Chief Executive Officer, AIChE AGILE Award Keynote Address: Presented by <b>Mike Graff</b> , Chairman & Chief Executive Officer, American Air Liquide Holdings, Inc.
9:00 AM	<b>Coffee and Networking Break</b> Location: GRB Conv. Ctr. Exhibit Hall E
9:30 AM	<b>19<sup>th</sup> GCPS Welcoming Plenary Session</b> Location: Hilton Americas, Ballroom of Americas A-F <b>19<sup>th</sup> GCPS Introduction and Welcome: Shakeel Kadri</b> ( <i>Executive Director &amp; CEO, CCPS</i> ) and <b>John Champion</b> ( <i>GCPS Chair</i> )  <b>Symposia Chairs:</b> <b>James Martin</b> , 38 <sup>th</sup> Center for Chemical Process Safety (CCPS) International Conference Chair <b>Irfan Shaikh</b> , 57 <sup>th</sup> Annual Loss Prevention Symposium (LPS) Chair <b>Katherine Prem</b> , 25 <sup>th</sup> Process Plant Safety Symposium (PPSS) Chair <b>Jennifer Mize</b> , 12 <sup>th</sup> Process Safety Management Mentoring (PSMM) Symposium Chair <b>Eduardo Francisco</b> , Perspectives on Process Safety from Around the World Chair  Plenary Keynote Address Presented by <b>Chris Tagoe</b> , Senior Vice President of Health, Safety, and Environment, LyondellBasell <i>“Shaping a Process Safety Culture with ‘The Power of Many’”</i>
10:20	<b>Break</b>

	<b>38<sup>th</sup> Center for Chemical Process Safety International Conference (CCPS)</b>	<b>57<sup>th</sup> Annual Loss Prevention Symposium (LPS)</b>	<b>25<sup>th</sup> Process Plant Safety Symposium (PPSS)</b>	<b>12<sup>th</sup> Process Safety Management Mentoring (PSMM)</b>	<b>Perspectives on Process Safety from Around the Globe</b>
	<i>Effective Process Safety Management Programs I</i> Location: GRB 360 <b>Co-Chairs: Michell LaFond, Ammar Alkhaldeh</b>	<i>Facility Siting, Consequence Analysis, and Risk Assessment I</i> Location: GRB 370 <b>Co-Chairs: Trey Morrison, Morgan Reed</b>	<i>Data Success Stories</i> Location: GRB 361 <b>Co-Chairs: Tracy Carter, Nicole Loontjens</b>	<i>Tutorials in Process Safety: Loss Prevention Symposium (LPS)</i> Location: GRB 371 <b>Co-Chairs: Jessica Morris, Katie Mulligan</b>	<i>Using Credible Failure Rates for SIS Ensures Process Safety Panel</i> Location: GRB 372ABDE <b>Co-Chairs: Julia Bukowski, Angela Summers</b>
10:30 AM	A Holistic Approach to Asset Risk Management: The Benefits of Combining Mechanical Integrity and Reliability Programs <b>Randal L. Montgomery</b>	RED Squirrel Tests – Air Products Ammonia Field Experiments <b>Seshasayi Dharmavaram</b>	Gains from Getting Near Misses Reported <b>William Bridges</b>	Flammability Basics <b>J Wayne Chastain</b>	<b>Panelists:</b> <ul style="list-style-type: none"> <li>• <b>Angela E. Summers</b>, SIS-TECH Solutions</li> <li>• <b>William M. Goble</b>, exida, Sellersville</li> <li>• <b>Rajeev Limaye</b>, Linde Engineering Americas</li> <li>• <b>Juan Gutierrez</b>, Bayer USA LLC</li> </ul>
11:00 AM	The evolution of Process Safety and Asset Integrity Management Systems for a Mature Brownfield Facility <b>Rae Ann Joseph</b>	Case Study: Investigating the Effect of the A2 Pasquill Atmospheric Condition on the Dispersion Modelling of Heavy Gases <b>Chee Ong</b>	Safeocs: An Innovative Approach to Understanding Industry-Wide Safety Event Data <b>Demetra Colli</b>	A Comprehensive Approach to Hazardous Area Classification for Combustible Particulate Solids <b>Kevin Jeffries</b>	
11:30 AM	Block and Check Valves in Process Safety: Addressing the Mechanical Integrity Element of PSM <b>Daniel Devine</b>	CO2 Major Accident Hazards Awareness <b>Cynthia Spitzenberger</b>	Preventing Process Safety Incident Using Nearmiss/Unsafe Condition Big Data Analysis <b>Anshul Kumar Tiwari</b>	Comparing Apples and Oranges: Creating a Comprehensive View of Facility Siting Risks <b>Nathan Markham</b>	
12:00 PM	Luncheon with Speaker: <b>David Yankovitz</b> , Cross-business US Chemicals Market Leader, Deloitte Consulting LLP <b>“The Importance of Using Materials in a More Sustainable Way”</b> Location: Hilton Americas, Ballroom of Americas A-F				

	<b>Effective Process Safety Management Programs II</b> Location: GRB 360 <b>Co-Chairs: Lauren Moyer, James Martin</b>	<b>Facility Siting, Consequence Analysis, and Risk Assessment II</b> Location: GRB 370 <b>Co-Chairs: Amy Theis, Soham Dutta</b>	<b>Predictive Maintenance</b> Location: GRB 361 <b>Co-Chairs: Brooke Beveridge, Swarup Bade</b>	<b>What Is Process Safety Culture and How Does It Apply to Me?</b> Location: GRB 371 <b>Co-Chairs: Chris Israni, David Moore</b>	<b>Spanish Session: Sistemas instrumentados</b> Location: GRB 372ABDE <b>Co-Chairs: Matias Massello, Fabio Rossi, Eliana Berroteran</b>
1:30 PM	Effective Procedures and Process Safety <b>Rob Fisher</b>	Building Design and Selection for Protection of Critical Assets <b>Karen Vilas</b>	Back to Basics <b>Chris Armitage</b>	Building Skills and Excellence: Ecolab Process Safety Qualification Process <b>Nathan Thompson</b>	Análisis De Sensibilidad Como Herramienta Para La Toma De Decisiones En La Operación y Mantenimiento Del SIS <b>Romel Rodriguez</b>
2:00 PM	...and the Regulator Clapped! New Approaches to Maximizing Worker Engagement in Process Safety Management <b>Chris Robinson</b>	Application of Quantitative Risk Analysis to Fireproofing <b>Jeffrey Marx</b>	Predictive Maintenance Basics for Process Safety Engineers: Understanding Predictive Maintenance Practices and the Implications to Process Safety <b>Jody Olsen</b>	The TRAPS of Process Safety Culture <b>Martin Fernandez</b>	Sin Puertas De Escape - Adecuación Al Estandar IEC 61511 En Perú Para Plantas De Procesamiento De Hidrocarburos Existentes <b>Marcos Alamo Sr.</b>
2:30 PM	Maturity Model Approach for Building Effective Process Safety Management Systems <b>Madonna Breen</b>	Comparison of Hydrogen and Hydrocarbon Fuels Hazards, and Practical Risk Management Strategies <b>Richard MacNguyen</b>	Mechanical Integrity Issues for Second-Hand Equipment with No OEM Information Available <b>Roberto Ruiz Vasquez</b>	It Starts at the Top - the Effect of Human Factors and Leadership on Safety <b>Mark Breese</b>	La Gestión De Confiabilidad De Los Elementos Críticos De Seguridad Como Elemento De Gestión De Riesgo <b>Omar Contramaestre</b>
3:00 PM	<b>Coffee and Networking Break</b> Location: GRB Conv. Ctr. Exhibit Hall E				

	<b>Extreme Adverse Events</b> Location: GRB 360 <b>Co-Chairs: Davide Moncalvo, J Wayne Chastain</b>	<b>Emergency Planning and Response</b> Location: GRB 370 <b>Co-Chairs: Henry Dwight, Sebastian Chialvo</b>	<b>Plant Process Safety and Cyber Impacts – Cybersecurity and Beyond.</b> Location: GRB 361 <b>Co-Chairs: Rainer Hoff, Jack Chosnek</b>	<b>The Faces of Process Safety: Process Safety Mentoring for Our IDEAL Workforce</b> Location: GRB 371 <b>Co-Chairs: Scott Haney, Brenton Cox</b>	<b>Spanish Session: Análisis de consecuencias y planes de emergencia</b> Location: GRB 372ABDE <b>Co-Chairs: Matias Massello, Fabio Rossi, Eliana Berroteran</b>
3:30 PM	Storage Tank Thermal Breathing Under Extreme Weather Conditions <b>Michael Davies</b>	Ammonia Safety: Emergency Ventilation Design for Machinery Rooms <b>Scott Davis</b>	Protecting Integrated Control and Safety Systems Against Cyber Threats <b>Charles Fialkowski &amp; Marco Ayala</b>	IDEAL Introduction: An AIChE Commitment	Enfriando Tanques Con Materiales Peligrosos. Un Caso Práctico De Análisis De Peligro De Incendios En Vagones De Transporte De Materiales Peligrosos <b>Alejandro Jimenez</b>
4:00 PM	Practical Tools for Predicting Acute Weather Risks Under Future Climate Scenarios <b>Kris Walsh</b>	Semi-Dynamic Flare System Analysis <b>Craig Powers</b>	Contextualizing Cyber Risk to Chemical Processes <b>Blake Benson</b>	Mentoring for an IDEAL Process Safety Workforce: Panel <b>Panelist 1: Juanita Miller</b> <b>Panelist 2: Maureen Price</b> <b>Panelist 3: Tom O. Spicer III</b> <b>Panelist 4: Chason Coelho</b>	Respuesta a Emergencias Por Derrames De Hidrocarburos En Mar: Diseño y Modelamiento De La Estrategia a Corto, Mediano y Largo Plazo <b>Cesar Puma</b>
4:30 PM	Benefits of Planning for Black Swan Events for Process Safety Management <b>David Moore</b>	Mapping an Evacuation in Real-Time: Digital Mustering with Wireless Personnel Location Technology <b>Jacob Tardon</b>	Securing Automated Safeguards from Cyberattacks <b>Patrick O'Brien</b>		Modeling And Operative Simulation Of LOPC Event And Response Strategy According To RBPS <b>Javier Acevedo</b>
5:00 PM	<b>Spring Meeting &amp; GCPS Poster Session</b> <b>Co-Chairs: Allison Knight, Colette Spicer</b> Location: Location: GRB Conv. Ctr. Exhibit Hall E				

**Tuesday, March 14, 2023**

	<b>38<sup>th</sup> Center for Chemical Process Safety International Conference (CCPS)</b>	<b>57<sup>th</sup> Annual Loss Prevention Symposium (LPS)</b>	<b>25<sup>th</sup> Process Plant Safety Symposium (PPSS)</b>	<b>12<sup>th</sup> Process Safety Management Mentoring (PSMM)</b>	<b>Perspectives on Process Safety from Around the Globe</b>
	<i>Featured CCPS Projects: Emerging Topics, Tools, and References</i> Location: GRB 360 <b>Co-Chairs: Jeffrey Fox, MI Kawkawlin</b>	<i>Fires, Explosions, Combustible Dusts, and Chemical Reactivity I</i> Location: GRB 370 <b>Co-Chairs: Tom Farrell, Kate Mulligan</b>	<i>The Changing Face of PSM</i> Location: GRB 361 <b>Co-Chairs: Julie White, Lydia Wilkinson</b>	<i>What Should be Keeping You Up at Night but Isn't: Things Everyone Should Know about Process Safety</i> Location: GRB 371 <b>Co-Chairs: David Moore, Soham Dutta</b>	<i>Spanish Session: Análisis de riesgo y toma de decisiones</i> Location: GRB 372ABDE <b>Co-Chairs: Matias Massello, Fabio Rossi, Eliana Berroteran</b>
8:00 AM	Back to School for Process Safety <b>Jerry Forest &amp; Cheryl Ground</b>	Fire Modeling Using a Solid Flame Approach Including Obstructions, Thermal Shielding, and Evacuation Path Thermal Dose Integration <b>Roy Paterson</b>	Contractor Management – Are regulatory requirements managing new risks? <b>Brian Desrosiers &amp; Steve Hawkins</b>	Building Resilience in Process Safety through the Occurrence of Catastrophic Events That Have Shaped Our Organizations, Our Process Safety, and Our Supply Chains <b>Steve Hawkins &amp; Trish Kerin</b>	¿Transición Energética a Hidrógeno? Evaluación y Retos Por Superar En Análisis De Riesgo <b>Alejandro Jimenez</b>
8:30 AM	Abnormal Situation – a New Resource from CCPS <b>Brian Farrell</b>	What to Consider When Constructing Buildings in Classified Areas <b>Stuart Powell</b>	ESG: The Future of PSM or Repeat of the Past? <b>Rainer Hoff &amp; Kathy Shell</b>	Ditch the Term Operational Discipline to Drive Better Culture: Why the Term Is Not Helpful and Better Options for Instilling Positive Process Safety Culture <b>Jody Olsen</b>	Using Fault Tree and Bow-Tie in the Root Cause Analysis (RCA) for a Loss of Containment Incident of a Stirred Tank, How the RCA Helps to Improve Project Management Practices <b>Marco-Antonio Medrano</b>
9:00 AM	Managing Abnormal Situations: How Do We Know What Works? <b>Thomas Williams Jr.</b>	Electrostatic Hazards: Identifying the Early Warning Signs to Reduce Explosion Risk <b>Vahid Ebadat</b>	Game based learning: reinforcing process safety <b>James Sneddon</b>	<i>How Does Workforce Involvement Affect Process Safety Culture? Why Is It so Important?</i> <b>Seckin Gökçe</b>	Seguridad De Procesos En Masificacion De Proyecto EOR <b>Luis Kirs</b>
9:30 AM	<b>Coffee and Networking Break</b> Location: GRB Conv. Ctr. Exhibit Hall E				

	<b><i>Emerging Process Safety in Developing Nations</i></b> Location: GRB 360 <b>Co-Chairs: Chris Israni, Paul Osterberg</b>	<b><i>Fires, Explosions, Combustible Dusts, and Chemical Reactivity II</i></b> Location: GRB 370 <b>Co-Chairs: Sam Wang, Jessica Morris</b>	<b><i>Developing Process Safety Influencers</i></b> Location: GRB 361 <b>Co-Chairs: Fred Gregory, Srihari Maganti</b>	<b><i>Tutorials in Process Safety: Center for Chemical Process Safety (CCPS) International Conference</i></b> Location: GRB 371 <b>Co-Chairs: Denise Chastain-Knight, Freeman Self</b>	<b>Spanish Session: Gestion del la seguridad de procesos con base en riesgo</b> Location: GRB 372ABDE <b>Co-Chairs: Matias Massello, Fabio Rossi, Eliana Berroteran</b>
10:15 AM	How the Platypus Killed the Black Swan - a story about recognizing risk in developing countries <b><i>Trish Kerin</i></b>	Evaluating and Protecting Liquids That Burn: Understanding the Hazards and Paths to Providing Protection <b><i>John Le Blanc</i></b>	Beyond Technical Competency – the soft skills needed by a PHA Leader <b><i>John Wincek</i></b>	Anhydrous Ammonia— Understand What Fire and Explosion Scenarios Are Most Credible and Manage Those Risks <b><i>Jerry. L. Jones</i></b>	Sesgo y Ruido. ¿Como Ayudar a Mejorar La Toma De Decisiones En La Fase De Operación y Mantenimiento Del SIS? <b><i>Romel Rodriguez</i></b>
10:45 AM	Process Safety Culture in Latin America: Challenges and Opportunities <b><i>Monica Daniela Reyes Rodriguez</i></b>	Modeling Monomer Runaway Scenarios for Hazard Assessment <b><i>Soham Dutta</i></b>	Personnel Change Management: A Vital Component of Process Safety <b><i>Hope Luebeck</i></b>	Inherently Safer Design (ISD) Success Stories in Existing Plants <b><i>Richard Santo Jr.</i></b>	Sentidos de Vulnerabilidad en la cabeza, Disciplina Operacional en los pies <b><i>Martin Fernandez</i></b>
11:15 AM	Application of Process Safety Management to Laboratory Safety Management <b><i>Muhammad Rithaudin</i></b>	A Modified Schlenk Line for Gas Phase Accelerating Rate Calorimetry, Capable of Quantitatively Sampling and Safely Handling Hazardous Gases <b><i>Jiliang He</i></b>	The power of saying NO <b><i>Ali Bazroun</i></b>	MOC 102 – Get More out of MOC Systems Than "Just Managing Changes" <b><i>Nancy Faulk</i></b>	Proyecto Vulnerabilidad: PSM KPI Evolution - Hacia Una Matriz De Riesgo y Mapa De Calor De Instalaciones <b><i>Fernando Pawolocki</i></b>
11:45 AM	Luncheon with Speaker: <b>Gayle Schueller</b> , Senior Vice President and Chief Sustainability Officer, 3M <b>“Utilizing Science, Collaboration, and Urgency to Set and Achieve ESG Goals”</b> Location: Hilton Americas, Ballroom of Americas A-F				

	<b><i>Learning from Each Other: Application of Process Safety Principles to Other Industries</i></b> Location: GRB 360 <b>Co-Chairs: Margery Kosch, Sean Dee</b>	<b><i>Hydrogen Safety</i></b> Location: GRB 370 <b>Co-Chairs: Kathy Pearson, Ron Willey</b>	<b><i>Focused Risk Analysis Approaches and Techniques in Support of LOPA</i></b> Location: GRB 361 <b>Co-Chairs: Philip. M. Myers, Colin Howat</b>	<b><i>What is Hiding Under the Radar?</i></b> Location: GRB 371 <b>Co-Chairs: Steve Hawkins, J Wayne Chastain, Todd Drennen</b>	<b><i>Portuguese Session: Gestão da Segurança de Processos baseada em Risco I</i></b> Location: GRB 372ABDE <b>Co-Chairs: Sandro Franca, Luana Marques, Bruno Menegatti</b>
1:30 PM	Application of PSM to Non-Regulated Industrial Facilities and Operations - Case Studies and Success Stories <b>Peter McKnight</b>	Hydrogen Hazards and Gas Detection – Electrolyzer Case Study <b>Edward Marszal</b>	Use of Human Reliability Analysis to Supplement LOPA for Scenarios Dominated by Human Error <b>William Bridges.</b>	Latent Failures: What Lies Beneath <b>Ken Min, Scott Sanderson, and Nick White</b>	A Systemic Risk Management Approach to Iron Ore Maritime Transportation – Vale Case Study <b>Pedro Thurler</b>
2:00 PM	Getting the Deal Done - While Managing Process Safety Risk <b>John Currie</b>	Ensuring Natural Gas Infrastructure is Suitable for Hydrogen Service <b>Brian Ott</b>	Using Small Data to Support Decision Making When LOPA Fails: The Case for Incorporating Site Specific Process Safety Data into Our Calculations, and How to Do It <b>Dave Grattan and Keith Brumbaugh</b>	Ignition Sources Are Free: A Discussion of Common (and uncommon) Ignition Mechanisms for Gaseous Fuels and Combustible Dusts <b>Brenton Cox</b>	Dynamic Management Implementation of Process Safety Barriers at Petrobras' FPSO <b>Paulo Lucio Da Silva Junior</b>
2:30 PM	Process Safety in Net Zero Programs <b>Ian Sutton</b>	Very-Lean Hydrogen Vapor Cloud Explosion Testing <b>Darren Malik</b>	Supporting LOPA with Fault Tree Analysis – Butane Overfill Protection Case Study <b>Edward Marszal</b>	Avoiding Water Hammer and Other Hydraulic Transients <b>Ron Willey</b>	Quantitative Risk Study of a Big Pipeline System for the Major Petrochemical Complex in Latin America <b>Americo Carvalho Neto Sr</b>
3:00 PM	<b>Coffee and Networking Break</b> Location: GRB Conv. Ctr. Exhibit Hall E				

	<b><i>Emerging Technologies to Improve Process Safety Performance</i></b> Location: GRB 360 <b>Co-Chairs: Neal Muller, Laura Acevedo-Turci</b>	<b><i>Alternative Energy Infrastructure Safety</i></b> Location: GRB 370 <b>Co-Chairs: Jatin Shah, Amy Gray</b>	<b><i>Yoda Panel</i></b> Location: GRB 361 <b>Co-Chairs: Sanjeev Saraf, Daniel Forest</b>	<b><i>Tutorials in Process Safety: Process Plant Safety Symposium (PPSS)</i></b> Location: GRB 371 <b>Co-Chairs: Srihari Maganti, Davide Moncalvo</b>	<b><i>Portuguese Session: Gestão da Segurança de Processos baseada em Risco II</i></b> Location: GRB 372ABDE <b>Co-Chairs: Sandro Franca, Luana Marques</b>
3:30 PM	Machine Vision Safeguard Management <b><i>Phillip Hodge</i></b>	Introduction to Grid-Scale Battery Energy Storage System Concepts and Fire Hazards <b><i>Veronica Goldsmith</i></b>	<b><i>Panelists:</i></b> <ul style="list-style-type: none"> <li>• <b><i>Peter Lodal, D&amp;H Process Safety</i></b></li> <li>• <b><i>Cheryl Grounds, CCPS Emeritus</i></b></li> <li>• <b><i>Gregg Kiihne, BASF Corporation</i></b></li> <li>• <b><i>Trish Kerin, IChemE</i></b></li> </ul>	The Daily Trials and Tribulations of Managing a Site Level PSM Program <b><i>Claire Fluegeman</i></b>	Por Que Os Acidentes Se Repetem? Um Estudo De Caso Em Unidades De Transferência e Armazenamento De Petróleo e Derivados e Navios Tanques <b><i>Luana Marques</i></b>
4:00 PM	Optimization of Risk Control System Through Digital Work Permit Transformation <b><i>Ronaldo Manik &amp; Dannys Setyadi Wibawa</i></b>	Hazards of Battery Energy Storage Systems (BESS), Mitigation Strategies, Minimum Requirements, and Best Practices. <b><i>Ian Mylenbusch</i></b>		Insights from 650 Tank Farm Fires – the Second Database Update <b><i>Henrique Paula</i></b>	Diagnóstico De Aderência Dos Elementos De Gestão De Segurança De Processo Do E&p Da Petrobras Ao Sistema De Gestão De Segurança De Processo Baseada Em Risco Do CCPS <b><i>Thiago Mindelo de Albuquerque</i></b>
4:30 PM	Improving Chemical Hazard Recognition by Automating Process Safety Information Delivery <b><i>Sarah Eck</i></b>	Construction of Multiphysics System-Level Model of a Lithium-Ion Battery Module and Its Application for Risk Analysis of Battery Energy Storage Systems. <b><i>Tomoya Suzuki</i></b>		Uncover Relief System Design Deficiencies to Enhance Process Safety <b><i>Shailesh Saraykar</i></b>	Dynamic Risk Advisor: A Real-Time Risk Analysis Tool for Process Safety Management <b><i>Alexandre Bonavita</i></b>



<b>Wednesday, March 15, 2023</b>					
	<b>38<sup>th</sup> Center for Chemical Process Safety International Conference (CCPS)</b>	<b>57<sup>th</sup> Annual Loss Prevention Symposium (LPS)</b>	<b>25<sup>th</sup> Process Plant Safety Symposium (PPSS)</b>	<b>12<sup>th</sup> Process Safety Management Mentoring (PSMM)</b>	<b>Perspectives on Process Safety from Around the Globe</b>
	<i>Process Safety Culture: Sense of Vulnerability</i> Location: GRB 360 <b>Co-Chairs: Fred Henselwood, Robert Coover</b>	<i>Engineered Safety Systems and Mitigation Technologies I</i> Location: GRB 370 <b>Co-Chairs: Sanjeev Saraf, Elliot Wolf-Stokes</b>	<i>Improving PHA Leadership and Study Outcomes I</i> Location: GRB 361 <b>Co-Chairs: Kathy Shell, Valecia Murphy</b>	<i>Lies We Tell Ourselves – Cognitive Bias and Human Factors in Process Safety</i> Location: GRB 371 <b>Co-Chairs: John Wincek, Swarup Bade</b>	<i>Japan's Process Safety Progress</i> Location: GRB 372ABDE <b>Co-Chairs: Hisashi Shibuya, Masaki Nakagawa</b>
8:00 AM	Warning: Iceberg Ahead! Navigating Our Way Around Process Safety Complacency. <i>Amin Khairallah</i>	Ten Fingers and Ten Toes: Applying Machinery Safety Principles in a Process Plant <i>Lauren Caldwell</i>	An Overview of PHA Templates and Checklists Developed for a Refining System and Lessons Learned <i>Joshua Wolbers</i>	The Role of Motivation in Human Performance and in Minimizing the Impact of Human Error <i>Ritche Niño Li</i>	Detailed Decomposition Mechanism of Ammonium Nitrate/Chloride Mixtures <i>Kota Watanabe</i>
8:30 AM	Care Conversation <i>Yong Kiat Lee</i>	Case Study: Tube Rupture Scenario Credibility <i>Phillip Henry</i>	Business Case for PHA of Procedures (Finding Accident Scenarios that are Otherwise Missed) <i>Stephen Bridges</i>	“We Will Know We Have a Problem, and We Will Fix It!” – Overestimating Human Response As a Safeguard <i>Lauren Moyer</i>	Estimation of Heat of Formation for Hazardous Chlorine-Containing Silanes Based on Group Additivity Values Obtained By Machine Learning <i>Masaya Sato</i>
9:00 AM	Improving Process Safety Culture through Developing and Maintaining the Sense of Vulnerability at All Levels in the Organization <i>N V Subbarao</i>	Is my Liquid Trapped? <i>Mathew Walters</i>	The Right Stuff – Purposeful Improvement of PHA Leadership and Study Outcomes <i>Philip M. Myers</i>	Denial, Delusions, and Bias <i>Pamela Nelson</i>	Refinery-Wide Air Loss and Minor Fire Near FCC Air Blower <i>Mitsuo Inoue</i>
9:30 AM	<b>Coffee and Networking Break</b> Location: GRB Conv. Ctr. Exhibit Hall E				

	<b>Human Performance</b> Location: GRB 360 <b>Co-Chairs: Eddie Dalton, Brenton Cox</b>	<b>Engineered Safety Systems and Mitigation Technologies II</b> Location: GRB 370 <b>Co-Chairs: Kathy Kas, Kristen Graham</b>	<b>Improving PHA Leadership and Study Outcomes II</b> Location: GRB 361 <b>Co-Chairs: Jenniffer Villalobos, Vic Edwards</b>	<b>The Day PSM Hit Home</b> Location: GRB 371 <b>Co-Chairs: Matthew Walters, Cynthia Spitzenberger</b>	<b>Process Safety Activities in China</b> Location: GRB 372ABDE <b>Co-Chairs: Zhao Dong Feng</b>
10:15 AM	Human Performance Modes: Demystifying the SRK Model for Practical Application <b>Elliot Wolf-Stokes</b>	Overcome the Challenges of Implementing SIF for Reactive Processes <b>Eloise Roche</b>	Retooling HAZOP Knowledge through Scenario Database <b>M Hasnul Adib M Noh</b>	My First PHA Ended in a Safe Haven <b>Kerissa Bowen</b>	Recent Process Safety Improvements in China – Panel Discussion
10:45 AM	Understanding How to Integrate Humans into the 4 Pillars of a Process Safety Management System: Human Performance, Safety Culture, and Human Error <b>S Camille Peres</b>	Understanding the Depressurization System Design <b>Avinashkumar Karre</b>	A Methodological Approach to Perform Process Hazard Analysis (PHA) for START-up of Chemical Processes <b>Marco-Antonio Medrano</b>	Invited speaker – Scott Elliott	
11:15 AM	Advanced Human Error Reduction in Process Safety <b>Rob Fisher</b>	Systematic Errors That Compromise Integrity of Safety Instrumented Systems <b>Denise Chastain-Knight</b>	Auditing PHA Quality <b>John Wincek</b>	Invited speaker - Elena Prats	
11:45 AM	Luncheon with Speaker: <b>Rodney Reed</b> , Assistant Chief of Operational Support, Harris County Fire Marshal’s Office <b>“Each Disaster – Managed Together”</b> Location: Hilton Americas, Ballroom of Americas A-F				

	<b>Case Histories and Lessons Learned – GCPS Joint Session</b> Location: Hilton Americas, Ballroom of Americas A-F <b>Co-Chairs: Don Connolley, Ian Mylenbusch, Manuel Herce</b>
1:30 PM	Presentation of the <b>William H. Doyle Award for LPS Best Paper Award, PPSS Best Paper Award, and CCPS Best Paper Award</b>
1:45 PM	Protecting Gasoline Storage Tanks from Lightning: Lessons Learned from a Recent Gasoline Storage Tank Explosion and Fire <i>Scott Davis</i>
2:15 PM	Tennessee Operations Coal Gasification Event, Oct. 4, 2017 <i>J Wayne Chastain</i>
2:45 PM	Catastrophic Explosion Investigation and the Dogma of Process Safety Management <i>Sean Dee</i>
3:15 PM	<b>Break</b>
3:30 PM	A Review of the Aqaba Bay Chlorine Incident <i>Justin Phillips</i>
4:00 PM	Acoustic Induced Vibration in Temporary Piping for Super High-Pressure Steam System Cleaning <i>Noel Hart</i>
4:30 PM	What the Processing Industry Must Learn from the February 2021 Texas Power Outages <i>Richard Carter</i>
5:00 PM	<b>End of Session</b>