

Monday, April 1, 2019	
7:00 AM	Complimentary Breakfast Location: Grand Ballroom CD
8:00 AM	Session #1: 2019 AIChE Spring Meeting and 15th GCPS AGILE Award Keynote Address Location: Grand Ballroom CD Welcome and Introductions Presented by Kimberly Ogden , AIChE President and June C. Wispelwey , AIChE CEO & Executive Director AGILE Award Keynote Address: “Embracing Transitions Today – Assuring a Robust Future Tomorrow” Presented by Sharon Beshouri , VP Catalyst, Analytical and Refining Technology; Chief Engineer R&D Technical Function; President Shell Global Solutions (US) Inc.
9:00 AM	Coffee and Networking Break , Location: Grand Salon & Grand Ballroom AB
9:30 AM	Session #2: 15th GCPS Welcoming Plenary Session Location: Grand Ballroom CD 15th GCPS Introduction and Welcome: Shakeel Kadri (<i>Executive Director, CCPS</i>) and Robert W. Johnson (<i>GCPS Chair</i>) Programming Introductions by: Jennifer Mize , 34 th Center for Chemical Process Safety (CCPS) International Chair Morgan Reed , 53 rd Annual Loss Prevention Symposium (LPS) Chair Fred Gregory , 21st Process Plant Safety Symposium (PPSS) Chair Brenton Cox , 8 th Process Safety Management Mentoring (PSMM) Chair Wayne Chastain , Process Safety Spotlights Chair Andres F. Valencia , Perspectives on Process Safety from Around the World Chair Plenary Keynote Address Presented by Matthew C. Koenings , DuPont Vice-President of Operations and Chief Engineer, Retired – “The Upside of UPSLI: Ensuring a Safer Industry Through Undergraduate Process Safety Education”

	34th Center for Chemical Process Safety International Conference (CCPS)	53rd Annual Loss Prevention Symposium (LPS)	21st Process Plant Safety Symposium (PPSS)	8th Process Safety Management Mentoring (PSMM)	Process Safety Spotlights	Perspectives on Process Safety from Around the Globe
	<i>Session #8: How to Be the Bad Guy: Courageous Process Safety Leadership</i> Location: Chart B/C Co-Chairs: John Wincek, Tracy Whipple	<i>Session #7: Extreme Weather and Other External Events</i> Location: Quarterdeck Co-Chairs: Pete Lodal, Chaitanya Gottimukkala	<i>Session #9: Independent Protection Layers and Other Safeguards</i> Location: River/Starboard/Port Co-Chairs: Philip M. Myers, Divya Narayanan	<i>Session #12: Tutorials in LPS I - Concepts to Prevent Fires & Explosions</i> Location: Kabacoff Co-Chairs: Trey Morrison, Katie Mulligan	<i>Session #11: Pressure Relief Design I</i> Location: Compass Co-Chairs: Freeman Self, Srihari Magnti	<i>Session #10: Portuguese Session: Avanços e perspectivas para a segurança de processos na Ibero-América: Gestão da Segurança de Processos baseada em Risco</i> Location: Chart A Co-Chairs: Gustavo Correa, Sandro Roxo
10:30 AM	Using Process Safety Tools to Find and Sell an Inherently Safer Design: A Case Study Marge Kosch	Analysis of Risk Due to Compound Extreme Events Pat Harr	Lifecycle Management of Protection Layers and Safeguards Jack Chosnek	Recognizing flammable sources in chemical processes Robert Bellair	Relief Systems Anonymous: Answers to Questions You Don't Want to Ask Justin Phillips	Approach of Human Factors in Risk Analysis and Operational Procedures: Stress Level Analysis of Operators in Performing Tasks Luana Santos
11:00 AM	Should Chemical Engineers Have More Influence on Safety Than They Do Now? Richard Engler	A Non-Stationary Approach to Conducting Site-Specific Integrative Risk Management Assessments at Industrial Facilities at Risk from Extreme Weather Events Harri Kytomaa	How to Prioritize Safeguards When They Are All Critical? Ron Mukherjee	Basics of Flammability – Crowl on Fire Dan Crowl	Modeling Shell Side Pressure Profiles for Heat Exchanger Tube Rupture Scenarios Ahmed Harhara	Functional Safety Management: The Yellow Brick Road to a Safe Plant. Gerenciamento Da Segurança Funcional: O Caminho Dourado Para Uma Planta Segura Monica Hochleitner
11:30 AM	Courageous Process Safety Leader: a Bad Guy Rajender Dahiya	Legal Liability Issues for Chemical Engineers Facing Extreme Weather Events Mary Ellen Ternes	Designing a Fluid Curtain System as an Independent Protection Layer Neil Prophet	Ignition Sam Rogers	Design & Engineering Implementation of Pressure Relieving System of Cryogenic Carbon Dioxide Pilot Facilities Azmi Mohd Shariff	Process Safety Leading Indicators By Environmental Experts Point of View Luana Santos
12:00 PM	Luncheon with Speaker: Bruce Chinn , president of Chevron Oronite Company LLC. “Inclusion & Diversity: An Innovation Imperative” Location: Location: Grand Ballroom CD					

	<p>Session #26: Organizational and Leadership Issues in Process Safety Location: Chart B/C Co-Chairs: San Burnett, Steve Hawkins</p>	<p>Session #17: Facility Siting, Consequence Analysis, and Risk Assessment I Location: Quarterdeck Co-Chairs: Kathy Kas, Kathy Pearson</p>	<p>Session #21: Identifying Hazards – Practical Approaches and Techniques I Location: River/Starboard/Port Co-Chairs: Jack Chosnek, Rae-Ann Joseph</p>	<p>Session #31: Tutorials in LPS II - Concepts to Prevent Fires & Explosions Location: Kabacoff Co-Chairs: Trey Morrison, Jessica Morris</p>	<p>Session #27: Pressure Relief Design II Location: Compass Co-Chairs: Davide Moncalvo, Haribabu Chittibabu</p>	<p>Session #30: Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Gestión del la seguridad de procesos con base en riesgo Location: Chart A Co-Chairs: Andres F. Valencia, Eliana Berroteran</p>
1:30 PM	<p>A Leadership Vision for Accelerating Learning from Past Lessons to Create a Future Free of Incidents David A. Jones</p>	<p>Deflagrations by Design Darren Malik</p>	<p>Think a BIT – Process Safety Excellence through Incident Barrier Based Inspection and Training Majed Al-Mutairi</p>	<p>Inerting & Purging & Combustible Control Tom Spicer</p>	<p>Pressure Relief Valves - Restricting Capacity to Mitigate Oversizing Bill Atkins</p>	<p>Disciplina total incondicional”. Reduciendo incidentes trabajando con indicadores proactivos Tier-4 Sergio Daniel Gavin</p>
2:00 PM	<p>Dow's Life Critical Standards - Making Them Easier to Follow John Dizer</p>	<p>Inherent Safety – How to Utilize Explosion Hazard Analyses As an Early Tool to Improve FPSO and FLNG Design Scott Davis</p>	<p>PHAs at Identical Plants: Why Aren't They the Same? Mike Schmidt</p>	<p>Pool Fires, Deflagrations and Detonations Derek Miller</p>	<p>Optimal Placement of Relief Devices for Hydrogen Peroxide Pipeline Protection Daniel Nguyen</p>	<p>Seguridad y medio ambiente como valor! Un camino para la toma de decisiones basada en riesgo Juan Manuel Fernández</p>
2:30 PM	<p>Process Safety Risk Prioritization and Auditing 3rd Party Manufacturers and Suppliers Bill Mosier</p>	<p>Interpretation of Damage Caused by a Vapour Cloud Explosion Michael Johnson</p>	<p>Staying Alert: Incorporating Fatigue in Risk Management Chason Coelho</p>	<p>Fire & Explosion Suppression and Extinguishing Jeramie W. Morris</p>	<p>Low Pressure Does Not Equal Low Risk: Strategies to Protect Tanks Against Overpressure and Undervacuum Todd W. Drennen</p>	<p>Entendiendo los riesgos de ciberseguridad y su conexión e impacto con la seguridad de Procesos John Rueda</p>
3:00 PM	<p>Coffee and Networking Break, Location: Grand Salon & Grand Ballroom AB</p>					

	<p>Session #51: Using Process Safety Metrics and Data to Drive Improvement Location: Chart B/C Co-Chairs: David Cummings, Jeff Fox</p>	<p>Session #: #43: Facility Siting, Consequence Analysis, and Risk Assessment II Location: Quarterdeck Co-Chairs: Kathy Kas, Kathy Pearson</p>	<p>Session #44: Identifying Hazards – Practical Approaches and Techniques II Location: River/Starboard/Port Co-Chairs: Jack Chosnek, Rae-Ann Joseph</p>	<p>Session #50: Tutorials in PPSS I – RBPS Elements: Culture, Competency, and Procedures Location: Kabacoff Co-Chairs: Bill Mosier, Chris Israni</p>	<p>Session #46: Pressure Relief Design III Location: Compass Co-Chairs: Nirupama Gopaldaswami, Ray Mentzer</p>	<p>Session #49: Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Análisis de riesgo y toma de decisiones Location: Chart A Co-Chairs: Andres F. Valencia, María Isabel Montoya</p>
3:30PM	<p>Don't Let Your Safe Operating Limits Leave You S-O-L (Out of Luck) Todd Stauffer</p>	<p>Automated Methods in Sizing of Relief Vent Stacks Based on Proximity to Occupied Structures Michael James</p>	<p>PHA Quality – Mining the Hidden Risks! Susan Barney</p>	<p>Best Practices in Process Safety Culture Steve Arendt</p>	<p>Comparison between Steady State and Dynamic Pressure Relief Calculations Neil Prophet</p>	<p>Mejores prácticas de PHA: Actualización de los estándares de PHA de lo que se creían que eran mejores prácticas a lo que realmente son Sergio Fernandez</p>
4:00 PM	<p>Metrics Driven Decision Making Improves Performance at a Complex Process Facility Elise Diaz</p>	<p>What Is My Flare Header Capacity, Really? Best Practices for Flare QRA Tools Benjamin Pratt</p>	<p>Avoiding Quality Pitfalls for HAZOP/LOPA Sessions and Documentation Steven T. Maher</p>	<p>Best Practices in Process Safety Competency Development Elliot Wolf</p>	<p>Common Misunderstanding of Overpressure Protection Scenarios for Pressure Relief Valves Anupol Paiboonruamsilp</p>	<p>Principales deficiencias en los PHAs en Argentina (y la región) y cómo abordarlas Matias A. Massello</p>
4:30 PM	<p>How to Implement a System That Gives Empowerment of Operators and Create Culture of Performance and Accountability in Process Safety, Reliability and Profitability Claudio Schlosser</p>	<p>Using Process Simulators to Quantify Flashing Two Phase Release Conditions Thomas O. Spicer III.</p>	<p>Practical Strategies to Prepare and Lead HAZOP Analysis of Complex Chemical and Petrochemical Processes Marco-Antonio Medrano</p>	<p>Best Practices in Operating Procedures Steve Hawkins</p>	<p>Evaluating Relief Requirements for Reactive Processes with Unstable Intermediates Stacy Fields</p>	<p>Compromiso con la seguridad de los procesos Pablo Morales & Henry Pistagnesi</p>
5:00 PM	<p>Session #54 - 55: Spring Meeting & GCPS Poster Session and Cocktail Reception (Includes electronic presentations of select posters) Co-Chairs: Michell LaFond, Irfan Shaikh Location: Grand Salon & Grand Ballroom AB</p>					

Tuesday, April 2, 2019						
	34 th Center for Chemical Process Safety International Conference (CCPS)	53 rd Annual Loss Prevention Symposium (LPS)	21 st Process Plant Safety Symposium (PPSS)	8 th Process Safety Management Mentoring (PSMM)	Process Safety Spotlights	Perspectives on Process Safety from Around the Globe
	<i>Session #66: Extract the Most Value from Your Incident Investigations</i> Location: Chart B/C Co-Chairs: Jim Klein, Seshu Dharmavaram	<i>Session #67: Fires, Explosions, and Reactive Chemicals I</i> Location: Quarterdeck Co-Chairs: Derek Miller, Min Sheng, Manuel Herce	<i>Session #70: New Ideas in Process Safety</i> Location: River/Starboard/Port Co-Chairs: Brooke Beveridge, Victor Carre	<i>Session #75: Process Safety Management Mentoring for Mentors (PSM³)</i> Location: Kabacoff Co-Chairs: Ray Mentzer, John Herber	<i>Session #68: Integration of Human Factors into Risk Assessment I</i> Location: Compass Co-Chairs: Terry Waldrop, Enzo Marrella	<i>Session #74: Process Safety Activities in China I</i> Location: Chart A Co-Chairs: Dong Feng Zhao, Yi Fei Meng
8:00 AM	Getting Incident Investigations Right <i>Mike Schmidt</i>	Caribbean Petroleum Explosion Case Study <i>Quentin Baker</i>	Siri, How to Design a Procedure – Integration of Natural Language Processing in Procedure Design <i>Nilesh Ade</i>	Do we REALLY need more Process Safety Leaders? The Criticality of Effective Followership <i>Pete Lodal</i>	Humans Make Mistakes...Which Cause Events <i>Michelle L. Brown</i>	How Safety Culture Drives the Improvement of Process Safety Competencies in Wanhua <i>Michael Chen</i>
8:30 AM	Using Feedback to Improve the Quality of Your Incident Investigations <i>A.M. (Tony) Downes</i>	Case Study – Characterizing and Averting Risk of Catastrophic Vessel Failure for a Reaction in Dimethyl Sulfoxide <i>Megan Roth</i>	The Frontline Reality of Process Safety Risk – A Case Study on Implementing Operational Risk Management Systems <i>Simon Jones</i>	Industrial – Academic Collaboration to Teach Chemical Process Safety <i>C. Aiken, K. Hohn</i>	The Influence of Cognitive and Motivational Biases While Establishing Consensus during a HAZOP <i>Kathryn Grant</i>	How we can use Artificial Intelligence (AI) Technology to Assist Process Safety? Opportunities and Prospects <i>Lei Wang</i>
9:00 AM	Cultural Cause Analysis - Mapping Process Safety Incident/Performance Data to Cultural Causal Factors <i>Laura Jackson</i>	Investigation of a Polymeric Resin Deflagration Using Advanced Calorimetric Techniques <i>Katie Mulligan</i>	“Just the Facts” a Bad Way to Communicate Process Safety <i>T.J. Larkin</i>	Reliance Journey on Implementation of a Comprehensive Competency Development and Assurance System (CAS) in Downstream <i>Mat Malladi</i>	Best Practices for Addressing Human Factors during PHAs/HAZOPs <i>William Bridges</i>	Analysis of Shell Moerdijk Accident by Systems-Theoretic Accident Model and Processes and Bowtie Analysis <i>Jao-Jia Horng</i>
9:30 AM	Coffee and Networking Break , Location: Grand Salon & Grand Ballroom AB					

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	<i>Session #88: Good, Fast, Cheap – Pick 2: PSM Challenges in Capital Projects</i> Location: Chart B/C Co-Chairs: Rainer Hoff, Sean Dee	<i>Session #86: Fires, Explosions, and Reactive Chemicals II</i> Location: Quarterdeck Co-Chairs: Derek Miller, Min Sheng, Manuel Herce	<i>Session #95: Process Safety Culture – Working Through a Transformation</i> Location: River/Starboard/Port Co-Chairs: Kathy Shell, Nicole Loontjens	<i>Session #96: Tutorials in CCPS I – Hazard Control</i> Location: Kabacoff Co-Chairs: Wayne Garland, Debangsu Ray	<i>Session #90: Integration of Human Factors into Risk Assessment II</i> Location: Compass Co-Chairs: Terry Waldrop, Enzo Marrella	<i>Session #94: Process Safety Activities in China II</i> Location: Chart A Co-Chairs: Jeffrey Lu, Han FengLei
10:15AM	Incorporating Process Safety throughout the Lifecycle of Major Capital Projects Bebe Kueh	How Effective are Safety Gaps at Mitigating Explosions: Largest Scale Testing of safety Gaps to Prevent DDTs Scott Davis	The Butterfly Effect - a Case Study on One Company's Transformation of a Process Safety Program Jeff DeWald	Return to Operation--Key for Flawless Start up Dipankar Bandyopadhyay	Set Your Operators up for Success: Practical Guidelines for Addressing Human Factors in PHA Causes and Protection Layers Richard Carter	Deficiencies and Prospects of Safety Management in China's Chemical Enterprises Jiangbo Jiu
10:45 AM	Embracing Complexity and Managing Risk: PSM Challenges in Specialty Chemical Innovation Lauren Moyer	Role of Fire Codes and Standards in Hazard Management from Fire, Explosion, and Reactivity Hazards Guy Colonna	Where There Is a Will There Is a Way: a Story of Organizational Transformation Palaniappan Chidambaram	Study of the Initiator Mischarging Effect on Runaway Reaction of Styrene Polymerization Lin Zhao	Accounting for Emergent Failure Paths in LOPA Dave Grattan	Lessons Learned from a Dust Hazard Analysis at a Joint Venture Site in China Julie Kister
11:15 AM	Guidelines for Integrating Process Safety into Engineering Projects Mike Broadribb	Assessment of Battery Energy Storage Systems Bjorn Nillberg	Frontline Supervisors Are the Safety Culture Renato Prestes	A Semi-Quantitative Tool to Estimate the Risk of Dust Fire or Explosion from Process Equipment Emmanuel Addai	Human Factors - What Role Should They Play in Risk Assessment and How Should They be Handled David Rowe	Research on Leak Detection of Ethylene Spherical Tank Based on Convolution Neural Network Chuankun Li
11:45 AM	Luncheon with Speaker: Sunita Satyapal , Director of the U.S. Department of Energy's Fuel Cell Technologies Office, at the Office of Energy Efficiency and Renewable Energy "Innovation and Emerging Technology Perspectives in Hydrogen and Fuel cells at the U.S. Department of Energy" Location: Grand Ballroom CD					

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	<i>Session #114: Process Safety Management Challenges with Infrastructure and Facility Siting</i> Location: Chart B/C Co-Chairs: Don Connolley, Eric Freiburger	<i>Session #103: Fires, Explosions, and Reactive Chemicals III</i> Location: Quarterdeck Co-Chairs: Derek Miller, Min Sheng, Manuel Herce	<i>Session #104: Human Reliability and Performance I</i> Location: River/Starboard/Port Co-Chairs: Karen Study, Laura Ankrom	<i>Session #117: What Should Be Keeping You Up At Night But Isn't</i> Location: Kabacoff Co-Chairs: Myron Carlson, Faraz Khan	<i>Session #106: Instrumented Protective Systems</i> Location: Compass Co-Chairs: Tab Vestal, Jim Garrison	<i>Session #115: Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Análisis de consecuencias y planes de emergencia</i> Location: Chart A Co-Chairs: Andres F. Valencia, Sergio Fernández
1:30 PM	Two Plants, One Fence Line: Understanding Process Safety Management Responsibilities in Shared Facilities Matthew S. Walters	CFD Modeling of Liquid Jet Fire Jin Zhao	Everything You Need to Know about Human Reliability for Process Safety William Rhodes	Building Hazard Recognition Competency Michael Fleming	Why Choose a Race Car When Economy Will Do - Competency with Safety Instrumented Systems James Torres	Comparación de los resultados de los análisis de riesgo y consecuencias en sistemas de transporte de refinados y GLP María Montoya
2:00 PM	Strathcona County's Industrial Engagement Program: Leading the Way Using the MIACC Model Modusser Tufail	Ignition Phenomenon: From Electrostatics to Electrical Discharge Eric Peterson Physical Safety	Leveraging Augmented Reality to Minimize Operational Error: The Rise of Operator 2.0 Michael Thompson	Ignorance Is Not Bliss with Reactive Chemical Hazards Amy Theis	Perfecting Proof Test Effectiveness; How More Extensive Testing Can Improve Safety and Reduce Cost! Iwan VanBeurden	Desarrollo de planes de emergencia para proyectos de inversión externa Yaneira Saud
2:30 PM	Beyond VCE: Addressing Fire Hazards As Part of Facility Siting Ellen Wilensky	Understanding the Potential for Detonations in Large-Scale Vapor Cloud Explosions Carl Bauwens	Safe Operations Using Advanced Operator Graphics David Lee	Process Safety Improvements: Things That Help Me Sleep at Night Joe Stevens	Sil-3, Sil-2, and Unicorns (there is a 99% chance your SIL 2 and SIL 3 have no better performance than SIL 1) William Bridges	Enfoque Multi-Amenaza Para Abordar Peligros Natech Adriana Mesa Sr.
3:00 PM	Coffee and Networking Break, Location: Grand Salon & Grand Ballroom AB					

	<p>Session #125: Are You Sure Those Protection Layers Work? Location: Chart B/C Co-Chairs: Rob Coover, Fred Henselwood</p>	<p>Session #128: Combustible Dust Hazards and Their Mitigation Location: Quarterdeck Co-Chairs: Jerome Taveau, Amy Gray</p>	<p>Session #132: Human Reliability and Performance II Location: River/Starboard/Port Co-Chairs: Karen Study, Laura Ankrom</p>	<p>Session #139: The Day PSM Hit Home Location: Kabacoff Co-Chairs: Scott Haney, Mark Wingard</p>	<p>Session #131: Facility Siting Studies Location: Compass Co-Chairs: Nirupama Gopalaswami, Susan Behr</p>	<p>Session #122: Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Sistemas instrumentados Location: Chart A Co-Chairs: Felipe Muñoz, Pablo Morales</p>
3:45 PM	<p>Confirming the SIS Layer of Protection Denise Chastain-Knight</p>	<p>Applying Risk Principles to Combustible Dust Operations at a Multinational Manufacturer Jeremy Lebowitz</p>	<p>Enhancing Behavior-Based Safety Culture through Casual Safety Observations Jennifer N. Boice</p>	<p>My Story: Living Through a Major Chemical Plant Explosion Ron Lewis</p>	<p>Facility Siting, a Practical Approach Yaneira Saud</p>	<p>Control avanzado de procesos (APC): Una herramienta de entrenamiento y aseguramiento del desempeño en la implementación de seguridad de procesos con base en riesgo (RBPS) Andrés Valencia</p>
4:15 PM	<p>Crediting Check Valves As IPLs? a Testing Protocol to Better Understand Check Valve Reliability Jody Olsen</p>	<p>3D Printing – Unique Hazards When Metal Dust Is Created Mohammed Alam</p>	<p>Procedure Digitalization: Human Factored Procedure Technology Elliott Lander</p>	<p>The 1995 NAPP Explosion and the Future of the Chemical Safety Board Rick Engler</p>	<p>Designing an Effective Detection and Mitigation System for a Plant Build on Facility Siting Study and QRA Murtaza Gandhi</p>	<p>La gestión del cambio del Sistema Instrumentado de Seguridad y su impacto con el riesgo Alejandro Esparza</p>
4:45 PM	<p>Safeguard Meters within Chevron Vincent Attanucci</p>	<p>Combustible Dust Hazards, Mitigations, and Pitfalls David Rowe</p>	<p>A Practical Approach to Improving Human Factors in the Operation and Maintenance of Automation Systems Angela Summers</p>	<p>The Day I Got a Second Chance George King</p>	<p>The Good, the Bad and the Ugly- Importance of Management of Change (MOC) in Building Siting Kris Smith</p>	<p>Como implementar un sistema de gestion de competencias de seguridad funcional en la industria de procesos? Eliana Berroteran</p>

Wednesday, April 3, 2019						
	34 th Center for Chemical Process Safety International Conference (CCPS)	53 rd Annual Loss Prevention Symposium (LPS)	21 st Process Plant Safety Symposium (PPSS)	8 th Process Safety Management Mentoring (PSMM)	Process Safety Spotlights	Perspectives on Process Safety from Around the Globe
	<i>Session #140: Achieving Success in Process Safety, Beyond Compliance I</i> Location: Chart B/C Co-Chairs: Chris Israni, Lauren Moyer	<i>Session #147: Emerging Topics and Technologies I</i> Location: Quarterdeck Co-Chairs: Elliot Wolf, Qingsheng Wang	<i>Session #149: Equipment Reliability and Inspection Practices</i> Location: River/Starboard/Port Co-Chairs: Steve Emerson, Rahul Raman	<i>Session #155: Tutorials in PPSS II - RBPS Elements: HIRA, Asset Integrity and Reliability, and Compliance</i> Location: Kabacoff Co-Chairs: Rao Akula, Janet Evans	<i>Session #144: Augmenting Process Safety Performance through Big Data Digitalization I</i> Location: Compass Co-Chairs: Bruce Hardy, Eric Peterson	<i>Session #151: Japan's Process Safety Progress</i> Location: Chart A Co-Chairs: Shigeyuki Tanaka, Junichi Kanai
8:00 AM	Trust as Currency Paul Gathright	Driving Transformation in Process Industries through Materials and Chemicals Informatics Daniel Christe	Case Study: Qualitative Risk Assessment of a Refrigeration System Robert Sladek	<i>PHA Draft Review Guidance</i> Rene Murata	Safe and Optimised Operations through Smart Analytics & Big Data Karl McManus	Process Safety Initiatives in Jxtg Nippon Oil & Energy Corporation Tomoya Ohtani
8:30 AM	Employee Training: Beyond Compliance Brian Desrosiers	Carol Robotic Catalyst Unloading Results from Field Trials Chris Jansen	Managing Reliability of Ethane Crackers Using DMR, RBI, and IOWs Vibha Zaman	Safety Integrity Level Determination and Categorization Anca Elena Costea	Don't Worry!! Laboratory Safety Is Fun Do, Let's Play a Mobile Game Nishaben Desai Dholakiya	Analysis of Spontaneous Ignition in Various Polymer Resin Takashi Odagiri
9:00 AM	AFPM/API Advancing Process Safety: Reevaluating the Permit to Work Process through the Human Reliability Lens Morgan Walker	Using Unmanned Aerial Vehicles and Robotics in Hazardous Locations Safely Kathy Kas	Quantitative Risk Based Methodology for Pressure Relief Valve (PRV) Inspection Optimization Hassan Sadeghi	Implications of the International Building and Fire Codes on New and Existing Processes and Structures Michael Snyder	Leveraging Advanced Data Analytics to Improve Process and Plant Safety Charles Fialkowski	Improvement of Piping Integrity Management with Advanced Technology Suguru Koyanagi
9:30 AM	Coffee and Networking Break, Location: Grand Salon & Grand Ballroom AB					

	Session #161: Achieving Success in Process Safety, Beyond Compliance II Location: Chart B/C Co-Chairs: Scott Dean, Andrew Goddard	Session #165: Emerging Topics and Technologies II Location: Quarterdeck Co-Chairs: Elliot Wolf, Qingsheng Wang	Session #160: Using Near Miss and Minor Incident Data for Process Improvement Location: River/Starboard/Port Co-Chairs: Neha Rajan, Vic Edwards	Session #176: Tutorials in CCPS II – Applying PSM Location: Kabacoff Co-Chairs: Wayne Garland, Sachin Punekar	Session #162: Augmenting Process Safety Performance through Big Data Digitalization II Location: Compass Co-Chairs: Bruce Hardy, Eric Peterson	Session #169: Korea Session: Effective Implementation of PSM and Its Utilization Location: Chart A Co-Chairs: II Moon, Hyuckmyun Kwon
10:15 AM	Conducting Quality Process Safety Management Audits – Globally Mike Munsil	Application of Visual Flame Detection and Hazard Mapping to Large Atmospheric Storage Tanks Jim Scoggins	Forecasting of Major Incidents Based on Big Data of Near Misses and Minor Incidents: Heinrichs Vs. Deep Learning Dongil Peter Shin	Process Safety, the Journey Is Most Important! James Martin	Alarm Management Using Data-Driven Methods Pankaj Goel	Capacity Building of Risk Communication with the Local Community in RMP (risk management plan) Junheon Yoon
10:45 AM	High Performance in Process Safety: A Balanced Approach Coen van Driel	Improved Modeling of Continuous Gas Releases of Finite Duration Jessica Morris	Opportunities to Enhance Barrier Management through Incident Analysis Fabian Zitman & Emma Verschoor	Error Propagation and Uncertainty Analysis: Application to Fault Tree Analysis Raymond "Randy" Freeman	Finding Unknown Anomalies before They Risk Process Safety Tim Holtan	A Decision Making Model for Chemical Accident Responses Based on Machine Learning Chuntak Phark
11:15 AM	Implementing Process Safety Critical Roles (PSCR) to Reduce Risk Andrew Wilson	Bringing It All Together: The Emergence of Operation Risk Management Systems Scott Lehmann	Development, Implementation and Use of a Process Safety Incident Identification and Capture System within a Utility Context Brendan Bleasdale	Effective PSM on Small Capital Projects Kerie Bowen	Digitalization in Process Safety: Fire Risk Prediction Analytics Sulo Belawan	The Changes of PSM (Process Safety Management) System in Republic of Korea Jae min Ryu
11:45 AM	Luncheon with Speaker: Gavin Towler , Vice President and Chief Technology Officer, Honeywell Performance Materials Technologies “Integrated Safety Management - Taking Safety Performance to the Next Level” Location: Grand Ballroom CD					
	Session #183: Case Histories and Lessons Learned – GCPS Joint Session Location: Grand Ballroom CD Co-Chairs: Jerome Taveau, Jerry Forest, John Champion					
1:30 PM	Presentation of the William H. Doyle Award for LPS Best Paper Award, PPSS Best Paper Award, and CCPS Best Paper Award					
1:40 PM	Honor to the late Dr. Sam Mannan– Shakeel Kadri					
1:45 PM	When Emergency Response Goes Fatally Wrong: Lessons Learned from Investigating Two Major Incidents – Scott Davis					
2:15 PM	Major Explosion at a Chemical Company in China: The Causes and Lessons Learned – Wei Wang					
2:45 PM	Taming the Wild River Rapids: How Process Safety Can Apply Outside the Process Industries – Trish Kerin					
3:15 PM	Break					
3:30 PM	Fatal Toxic Chemical Release at Dupont – Tamara Qureshi					
4:00 PM	Explosion at BASF Ludwigshafen - Findings and Lessons Learned – Gregg Matthew Kühne					
4:30 PM	Hurricane Harvey 20 Months Later - Insights on the Arkema Crosby Flooding – Andrew Goddard & Eric Tilles					
5:00 PM	GCPS Concluding Remarks					

