## Monday, April 1, 2019

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<th>Time</th>
<th>Event</th>
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| 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 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 (Executive Director, CCPS) and Robert W. Johnson (GCPS Chair)  
Programming Introductions by:  
Jennifer Mize, 34th Center for Chemical Process Safety (CCPS) International Chair  
Morgan Reed, 53rd Annual Loss Prevention Symposium (LPS) Chair  
Fred Gregory, 21st Process Plant Safety Symposium (PPSS) Chair  
Brenton Cox, 8th 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” |

**Location:** Grand Ballroom CD

**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.
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<th>Session #</th>
<th>Title</th>
<th>Location</th>
<th>Co-Chairs/Chairs</th>
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<tbody>
<tr>
<td>8</td>
<td>How to Be the Bad Guy: Courageous Process Safety Leadership</td>
<td>Chart B/C</td>
<td>John Wincek, Tracy Whipple</td>
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<tr>
<td>7</td>
<td>Extreme Weather and Other External Events</td>
<td>Quarterdeck</td>
<td>Pete Lodal, Chaitanya Gottimukkala</td>
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<tr>
<td>9</td>
<td>Independent Protection Layers and Other Safeguards</td>
<td>River/Starboard/Port</td>
<td>Philip M. Myers, Divya Narayanan</td>
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<tr>
<td>12</td>
<td>Tutorials in LPS I - Concepts to Prevent Fires &amp; Explosions</td>
<td>Kabacoff</td>
<td>Trey Morrison, Katie Mulligan</td>
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<tr>
<td>11</td>
<td>Pressure Relief Design I</td>
<td>Compass</td>
<td>Freemant Self, Srihari Maganti</td>
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<td>10</td>
<td>Portuguese Session: Avanços e perspectivas para a segurança de processos na Ibero-América: Gestão da Segurança de Processos baseada em Risco</td>
<td>Chart A</td>
<td>Gustavo Correa, Sandro Roxo</td>
</tr>
</tbody>
</table>

**Session #8: How to Be the Bad Guy: Courageous Process Safety Leadership**

**Location:** Chart B/C

**Co-Chairs:** John Wincek, Tracy Whipple

**Session #7: Extreme Weather and Other External Events**

**Location:** Quarterdeck

**Co-Chairs:** Pete Lodal, Chaitanya Gottimukkala

**Session #9: Independent Protection Layers and Other Safeguards**

**Location:** River/Starboard/Port

**Co-Chairs:** Philip M. Myers, Divya Narayanan

**Session #12: Tutorials in LPS I - Concepts to Prevent Fires & Explosions**

**Location:** Kabacoff

**Co-Chairs:** Trey Morrison, Katie Mulligan

**Session #11: Pressure Relief Design I**

**Location:** Compass

**Co-Chairs:** Freeman Self, Srihari Maganti

**Session #10: Portuguese Session:**

**Title:** Avanços e perspectivas para a segurança de processos na Ibero-América: Gestão da Segurança de Processos baseada em Risco

**Location:** Chart A

**Co-Chairs:** Gustavo Correa, Sandro Roxo

**Session #:**

**Title:** Using Process Safety Tools to Find and Sell an Inherently Safer Design: A Case Study

**Presenter:** Marge Kosch

**Analysis of Risk Due to Compound Extreme Events**

**Presenter:** Pat Harr

**Lifecycle Management of Protection Layers and Safeguards**

**Presenter:** Jack Chosnek

**Recognizing flammable sources in chemical processes**

**Presenter:** Robert Bellair

**Compressor Stations - Undersized Relief Devices**

**Presenter:** Aniket Patankar

**Approach of Human Factors in Risk Analysis and Operational Procedures:**

**Presenter:** Luana Santos

**Session #:**

**Title:** Should Chemical Engineers Have More Influence on Safety Than They Do Now?

**Presenter:** Richard Engler

**A Non-Stationary Approach to Conducting Site-Specific Integrative Risk Management Assessments at Industrial Facilities at Risk from Extreme Weather Events**

**Presenter:** Harri Kyтомaa

**How to Prioritize Safeguards When They Are All Critical?**

**Presenter:** Ron Mukherjee

**Basics of Flammability – Crowl on Fire**

**Presenter:** Dan Crowl

**Modeling Shell Side Pressure Profiles for Heat Exchanger Tube Rupture Scenarios**

**Presenter:** Ahmed Harhara

**Functional Safety Management: The Yellow Brick Road to a Safe Plant.**

**Presenter:** Monica Hochleitner

**Session #:**

**Title:** Courageous Process Safety Leader: a Bad Guy

**Presenter:** Rajender Dahiya

**Legal Liability Issues for Chemical Engineers Facing Extreme Weather Events**

**Presenter:** Mary Ellen Ternes

**Designing a Fluid Curtain System as an Independent Protection Layer**

**Presenter:** Marcel Amorós-Martí

**Ignition**

**Presenter:** Sam Rogers

**Design & Engineering Implementation of Pressure Relieving System of Cryogenic Carbon Dioxide Pilot Facilities**

**Presenter:** Abdullah Al Mubarak Md Jalil

**Process Safety Leading Indicators By Environmental Experts Point of View**

**Presenter:** Luana Santos

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<tbody>
<tr>
<td><strong>1:30 PM</strong> A Leadership Vision for Accelerating Learning from Past Lessons to Create a Future Free of Incidents <em>David A. Jones</em></td>
<td>Deflagrations by Design <em>Darren Malik</em></td>
<td>Think a BIT – Process Safety Excellence through Incident Barrier Based Inspection and Training <em>Majed Al-Mutairi</em></td>
<td>Inerting &amp; Purging &amp; Combustible Control <em>Tom Spicer</em></td>
<td>Pressure Relief Valves - Restricting Capacity to Mitigate Oversizing <em>Bill Atkins</em></td>
<td>Disciplina total incondicional”. Reduciendo incidentes trabajando con indicadores proactivos Tier-4 <em>Sergio Daniel Gavin</em></td>
</tr>
<tr>
<td><strong>2:00 PM</strong> Dow's Life Critical Standards - Making Them Easier to Follow <em>John Dizor</em></td>
<td>Inherent Safety – How to Utilize Explosion Hazard Analyses As an Early Tool to Improve FPSO and FLNG Design <em>Scott Davis</em></td>
<td>PHAs at Identical Plants: Why Aren’t They the Same? <em>Mike Schmidt</em></td>
<td>Pool Fires, Deflagrations and Detonations <em>Derek Miller</em></td>
<td>Optimal Placement of Relief Devices for Hydrogen Peroxide Pipeline Protection <em>Daniel Nguyen</em></td>
<td>Seguridad y medio ambiente como valor! Un camino para la toma de decisiones basada en riesgo <em>Juan Manuel Fernández</em></td>
</tr>
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<td><strong>3:00 PM</strong> Coffee and Networking Break, Location: Grand Salon &amp; Grand Ballroom AB</td>
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<td>Location: Chart B/C</td>
<td>Location: Quarterdeck</td>
<td>Location: River/Starboard/Port</td>
<td>Location: Kabacoff</td>
<td>Location: Compass</td>
<td>Location: Chart A</td>
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| 3:30PM | Don't Let Your Safe Operating Limits Leave You S-O-L (Out of Luck)  
*Todd Stauffer* |
| 4:00 PM | Automated Methods in Sizing of Relief Vent Stacks Based on Proximity to Occupied Structures  
*Michael James* |
|  | PHA Quality – Mining the Hidden Risks!  
*Susan Barney* |
|  | Best Practices in Process Safety Culture  
*Steve Arendt* |
|  | Comparison between Steady State and Dynamic Pressure Relief Calculations  
*Neil Prophet* |
|  | 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* |
| 3:30PM - 5:00PM | Metrics Driven Decision Making Improves Performance at Wheatstone LNG  
*Elise Diaz* |
| 4:00 PM | What Is My Flare Header Capacity, Really? Best Practices for Flare QRA Tools  
*Benjamin Pratt* |
|  | Avoiding Quality Pitfalls for HAZOP/LOPA Sessions and Documentation  
*Steven T. Maher* |
|  | Best Practices in Process Safety Competency Development  
*Elliot Wolf* |
|  | Common Misunderstanding of Overpressure Protection Scenarios for Pressure Relief Valves  
*Anupol Paiboonruamsilp* |
|  | Principales deficiencias en los PHAs en Argentina (y la región) y cómo abordarlas  
*Matias A. Massello* |
| 5:00 PM | 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* |
| 4:30 PM | Using Process Simulators to Quantify Flashing Two Phase Release Conditions  
*Thomas O. Spicer III.* |
|  | Practical Strategies to Prepare and Lead HAZOP Analysis of Complex Chemical and Petrochemical Processes  
*Marco-Antonio Medrano* |
|  | Best Practices in Operating Procedures  
*Steve Hawkins* |
|  | Evaluating Relief Requirements for Reactive Processes with Unstable Intermediates  
*Stacy Fields* |
|  | Compromiso con la seguridad de los procesos  
*Pablo Morales & Henry Pistagnesi* |

*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*
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<th>Presentation/Activity</th>
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<tr>
<td>8:00</td>
<td>Session #66: Extract the Most Value from Your Incident Investigations</td>
<td>Chart B/C</td>
<td>Jim Klein, Seshu Dharmavaram</td>
<td>Getting Incident Investigations Right Mike Schmidt</td>
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<td>Session #67: Fires, Explosions, and Reactive Chemicals I</td>
<td>Quarterdeck</td>
<td>Derek Miller, Min Sheng, Manuel Herce</td>
<td>Caribbean Petroleum Explosion Case Study Quentin Baker</td>
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<td>Session #70: New Ideas in Process Safety</td>
<td>River/Starboard/Port</td>
<td>Brooke Beveridge, Victor Carre</td>
<td>Siri, How to Design a Procedure - Integration of Natural Language Processing in Procedure Design Nilesh Ade</td>
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<td>Session #75: Process Safety Management Mentoring for Mentors (PSMM)</td>
<td>Kabacoff</td>
<td>Ray Mentzer, John Herber</td>
<td>Do we REALLY need more Process Safety Leaders? The Criticality of Effective Followership Pete Lodal</td>
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<td>8:30</td>
<td>Session #68: Integration of Human Factors into Risk Assessment I</td>
<td>Compass</td>
<td>Derek Miller, Min Sheng, Manuel Herce</td>
<td>Humans Make Mistakes...Which Cause Events Michelle L. Brown</td>
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<tr>
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<td>Session #74: Process Safety Activities in China I</td>
<td>Chart A</td>
<td>Dong Feng Zhao, Yi Fei Meng</td>
<td>How Safety Culture Drives the Improvement of Process Safety Competencies in Wanhua Michael Chen</td>
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<td>Session #69: Process Safety Management Mentoring for Mentors (PSMM)</td>
<td>Chart A</td>
<td>Dong Feng Zhao, Yi Fei Meng</td>
<td>How Safety Culture Drives the Improvement of Process Safety Competencies in Wanhua Michael Chen</td>
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<td>9:00</td>
<td>Cultural Cause Analysis - Mapping Process Safety Incident/Performance Data to Cultural Causal Factors</td>
<td>River/Starboard/Port</td>
<td>Brooke Beveridge, Victor Carre</td>
<td>Industrial – Academic Collaboration to Teach Chemical Process Safety C. Aiken, K. Hohn</td>
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<td>Analysis of Shell Moerdijk Accident by Systems-Theoretic Accident Model and Processes and Bowtie Analysis Jao-Jia Horng</td>
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<tr>
<td>Session #85: Good, Fast, Cheap – Pick 2: PSM Challenges in Capital Projects</td>
<td>Location: Chart B/C</td>
<td>Co-Chairs: Rainer Hoff, Sean Dee</td>
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<td>Session #86: Fires, Explosions, and Reactive Chemicals II</td>
<td>Location: Quarterdeck</td>
<td>Co-Chairs: Derek Miller, Min Sheng, Manuel Herce</td>
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<td>Session #95: Process Safety Culture – Working Through a Transformation</td>
<td>Location: River/Starboard/Port</td>
<td>Co-Chairs: Kathy Shell, Nicole Loontjens</td>
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<td>Session #96: Tutorials in CCPS I – Hazard Control</td>
<td>Location: Kabacoff</td>
<td>Co-Chairs: Wayne Garland, Debangsu Ray</td>
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<td>Session #90: Integration of Human Factors into Risk Assessment II</td>
<td>Location: Compass</td>
<td>Co-Chairs: Terry Waldrop, Enzo Marrella</td>
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10:15 AM

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

Application of Safety Management Information System in HSSE Management System of Sinopec  
Yang Xu Sr.

11:45 AM

“Hydrogen Safety”  
Location: Grand Ballroom CD
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<td>103</td>
<td>Fires, Explosions, and Reactive Chemicals III</td>
<td>Quarterdeck</td>
<td>Derek Miller, Min Sheng, Manuel Herce</td>
<td>CFD Modeling of Liquid Jet Fire Jin Zhao</td>
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<td>104</td>
<td>Human Reliability and Performance I</td>
<td>River/Starboard/Port</td>
<td>Karen Study, Laura Ankrom</td>
<td>Everything You Need to Know about Human Reliability for Process Safety William Rhodes</td>
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<tr>
<td>117</td>
<td>What Should Be Keeping You Up At Night But Isn’t</td>
<td>Kabacoff</td>
<td>Myron Carlson, Faraz Khan</td>
<td>Building Hazard Recognition Competency Michael Fleming</td>
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<td>106</td>
<td>Instrumented Protective Systems</td>
<td>Compass</td>
<td>Tab Vestal, Jim Garrison</td>
<td>Why Choose a Race Car When Economy Will Do - Competency with Safety Instrumented Systems James Torres</td>
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<td>115</td>
<td>Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Análisis de consecuencias y planes de emergencia</td>
<td>Chart A</td>
<td>Andres F. Valencia, Sergio Fernández</td>
<td>Comparación de los resultados de los análisis de riesgo y consecuencias en sistemas de transporte de refinados y GLP Maria Montoya</td>
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<td>105</td>
<td>Process Safety Management Challenges with Infrastructure and Facility Siting</td>
<td>Chart A</td>
<td>Karen Study, Laura Ankrom</td>
<td>Beyond VCE: Addressing Fire Hazards As Part of Facility Siting Ellen Wilensky</td>
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<td>102</td>
<td>Fires, Explosions, and Reactive Chemicals III</td>
<td>Compass</td>
<td>Derek Miller, Min Sheng, Manuel Herce</td>
<td>Ignition Phenomenon: From Electrostatics to Electrical Discharge Eric Peterson Physical Safety</td>
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<td>What Should Be Keeping You Up At Night But Isn’t</td>
<td>Kabacoff</td>
<td>Myron Carlson, Faraz Khan</td>
<td>Ignorance Is Not Bliss with Reactive Chemical Hazards Amy Theis</td>
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<td>106</td>
<td>Instrumented Protective Systems</td>
<td>Compass</td>
<td>Tab Vestal, Jim Garrison</td>
<td>Perfecting Proof Test Effectiveness; How More Extensive Testing Can Improve Safety and Reduce Cost! Iwan VanBeurden</td>
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<td>Andres F. Valencia, Sergio Fernández</td>
<td>Desarrollo de planes de emergencia para proyectos de inversión externa Yaneira Saud</td>
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<td>104</td>
<td>Human Reliability and Performance I</td>
<td>River/Starboard/Port</td>
<td>Karen Study, Laura Ankrom</td>
<td>Beyond VCE: Addressing Fire Hazards As Part of Facility Siting Ellen Wilensky</td>
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<td>103</td>
<td>Fires, Explosions, and Reactive Chemicals III</td>
<td>Quarterdeck</td>
<td>Derek Miller, Min Sheng, Manuel Herce</td>
<td>Ignition Phenomenon: From Electrostatics to Electrical Discharge Eric Peterson Physical Safety</td>
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<tr>
<td>117</td>
<td>What Should Be Keeping You Up At Night But Isn’t</td>
<td>Kabacoff</td>
<td>Myron Carlson, Faraz Khan</td>
<td>Ignorance Is Not Bliss with Reactive Chemical Hazards Amy Theis</td>
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<tr>
<td>106</td>
<td>Instrumented Protective Systems</td>
<td>Compass</td>
<td>Tab Vestal, Jim Garrison</td>
<td>Perfecting Proof Test Effectiveness; How More Extensive Testing Can Improve Safety and Reduce Cost! Iwan VanBeurden</td>
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<tr>
<td>115</td>
<td>Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Análisis de consecuencias y planes de emergencia</td>
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</table>

1:30 PM Two Plants, One Fence Line: Understanding Process Safety Management Responsibilities in Shared Facilities Matthew S. Walters

1:30 PM CFD Modeling of Liquid Jet Fire Jin Zhao

1:30 PM Everything You Need to Know about Human Reliability for Process Safety William Rhodes

1:30 PM Building Hazard Recognition Competency Michael Fleming

1:30 PM Why Choose a Race Car When Economy Will Do - Competency with Safety Instrumented Systems James Torres

1:30 PM Comparación de los resultados de los análisis de riesgo y consecuencias en sistemas de transporte de refinados y GLP Maria Montoya

2:00 PM Strathcona County’s Industrial Engagement Program: Leading the Way Using the MIACC Model Modusser Tufail

2:00 PM Ignition Phenomenon: From Electrostatics to Electrical Discharge Eric Peterson Physical Safety

2:00 PM Leveraging Augmented Reality to Minimize Operational Error: The Rise of Operator 2.0 Michael Thompson

2:00 PM Ignorance Is Not Bliss with Reactive Chemical Hazards Amy Theis

2:00 PM Perfecting Proof Test Effectiveness; How More Extensive Testing Can Improve Safety and Reduce Cost! Iwan VanBeurden

2:00 PM Desarrollo de planes de emergencia para proyectos de inversión externa Yaneira Saud

2:00 PM Beyond VCE: Addressing Fire Hazards As Part of Facility Siting Ellen Wilensky

2:00 PM Understanding the Potential for Detonations in Large-Scale Vapor Cloud Explosions Carl Bawens

2:00 PM Safe Operations Using Advanced Operator Graphics Anais Lowe

2:00 PM Process Safety Improvements: Things That Help Me Sleep at Night Joe Stevens

2:00 PM 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

2:00 PM Enfoque Multi-Amena Para Abordar Peligros Natech Adriana Mesa Sr.

3:00 PM Coffee and Networking Break, Location: Grand Salon & Grand Ballroom AB
<table>
<thead>
<tr>
<th>Session #125</th>
<th>Are You Sure Those Protection Layers Work?</th>
<th>Location: Chart B/C</th>
<th>Co-Chairs: Rob Coover, Fred Henselwood</th>
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<tbody>
<tr>
<td>Session #128</td>
<td>Combustible Dust Hazards and Their Mitigation</td>
<td>Location: Quarterdeck</td>
<td>Co-Chairs: Jerome Taveau, Amy Gray</td>
</tr>
<tr>
<td>Session #132</td>
<td>Human Reliability and Performance II</td>
<td>Location: River/Starboard/Port</td>
<td>Co-Chairs: Karen Study, Laura Ankrom</td>
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<td>Session #139</td>
<td>The Day PSM Hit Home</td>
<td>Location: Kabacoff</td>
<td>Co-Chairs: Scott Haney, Mark Wingard</td>
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<tr>
<td>Session #131</td>
<td>Facility Siting Studies</td>
<td>Location: Compass</td>
<td>Co-Chairs: Nirupama Gopalaswami, Susan Behr</td>
</tr>
<tr>
<td>Session #122</td>
<td>Spanish Session: Avances y perspectivas de la seguridad de proceso en Iberoamérica: Sistemas instrumentados</td>
<td>Location: Chart A</td>
<td>Co-Chairs: Felipe Muñoz, Pablo Morales</td>
</tr>
</tbody>
</table>

### 3:45 PM

- **Confirmed the SIS Layer of Protection**  
  *Denise Chastain-Knight*
- **Applying Risk Principles to Combustible Dust Operations at a Multinational Manufacturer**  
  *Jeremy Lebowitz*
- **Enhancing Behavior-Based Safety Culture through Casual Safety Observations**  
  *Jennifer N. Boice*
- **My Story: Living Through a Major Chemical Plant Explosion**  
  *Ron Lewis*
- **Facility Siting, a Practical Approach**  
  *Yaneira Saud*

### 4:15 PM

- **Crediting Check Valves As IPLs? a Testing Protocol to Better Understand Check Valve Reliability**  
  *Jody Olsen*
- **3D Printing – Unique Hazards When Metal Dust Is Created**  
  *Mohammed Alam*
- **Case Studies on the Results of Digital Procedure Solution Implementation**  
  *Elliott Lander*
- **The 1995 NAPP Explosion and the Future of the Chemical Safety Board**  
  *Rick Engler*
- **Designing an Effective Detection and Mitigation System for a Plant Build on Facility Siting Study and QRA**  
  *Murtaza Gandhi*

### 4:45 PM

- **Safeguard Meters within Chevron**  
  *Vincent Attanucci*
- **Combustible Dust Hazards, Mitigations, and Pitfalls**  
  *David Rowe*
- **A Practical Approach to Improving Human Factors in the Operation and Maintenance of Automation Systems**  
  *Angela Summers*
- **The Day I Got a Second Chance**  
  *George King*
- **The Good, the Bad and the Ugly- Importance of Management of Change (MOC) in Building Siting**  
  *Vinicius Simoes*

- **Como implementar un sistema de gestion de competencias de seguridad funcional en la industria de procesos?**  
  *Eliana Berroteran*
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<tr>
<td>8:00 AM</td>
<td>Achieving Success in Process Safety, Beyond Compliance I</td>
<td>Location: Quarterdeck</td>
<td>Location: River/Starboard/Port</td>
<td>Location: Kabacoff</td>
<td>Location: Compass</td>
<td>Location: Chart A</td>
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</table>

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 | PHA Draft Review Guidance  
Sean Classen | 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  | Reevaluating the Permit to Work Process through the Human Reliability Lens  
Alyse Keller | 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 |
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<tr>
<td>Co-Chairs: Scott Dean, Andrew Goddard</td>
<td>Co-Chairs: Elliot Wolf, Qingsheng Wang</td>
<td>Co-Chairs: Neha Rajan, Vic Edwards</td>
<td>Location: River/Starboard/Port</td>
<td>Location: Kabacoff</td>
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<td>Location: Chart B/C</td>
<td>Location: Quarterdeck</td>
<td>Location: Compass</td>
<td>Co-Chairs: Wayne Garland, Sachin Punekar</td>
<td>Co-Chairs: Bruce Hardy, Eric Peterson</td>
<td>Co-Chairs: II Moon, Hyuckmyun Kwon</td>
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<td>Mike Munsil</td>
<td>Jim Scoggins</td>
<td>Dongil Peter Shin</td>
<td>James Martin</td>
<td>Pankaj Goel</td>
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<td>Coen van Driel</td>
<td>Jessica Morris</td>
<td>Fabian Zitman &amp; Emma Verschoor</td>
<td>Raymond &quot;Randy&quot; Freeman</td>
<td>Tim Holan</td>
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<td>Andrew Wilson</td>
<td>Operation Risk Management Systems</td>
<td>Scott Lehm</td>
<td>Brendan Bleasdale</td>
<td>Sulo Belawan</td>
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<tr>
<td>11:45 AM</td>
<td>Luncheon with Speaker: Gavin Towler, Vice President and Chief Technology Officer, Honeywell Performance Materials Technologies</td>
<td>“Integrated Safety Management - Taking Safety Performance to the Next Level”</td>
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<td>A Decision Making Model for Chemical Accident Responses Based on Machine Learning</td>
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**Session #183: Case Histories and Lessons Learned – GCPS Joint Session**

**Session #183: Case Histories and Lessons Learned – GCPS Joint Session**

**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 |
| 1:45 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 Kiihne |
| 4:30 PM | Hurricane Harvey 20 Months Later - Insights on the Arkema Crosby Flooding – Andrew Goddard & Eric Tilles |
| 5:00 PM | GCPS Concluding Remarks |