

MONDAY, AUGUST 12

8:00 AM	Opening Session Welcome and Introductions Scott Berger , Executive Director, CCPS, and Laura Turci , Latin America Regional Manager, CCPS Keynote Address Presented by: Federico Maya , VP Refinacion y Petroleo, Ecopetrol Location: Gran Salon Bolivar B-E		
9:00 AM	Coffee Break Location: Foyer Gran Salon Bolivar		
	Track 1	Track 2	Track 3
	Session #1: Hazard Identification and Risk Management Location: Gran Salon Bolivar B-E Co-Chairs: David Moore, Hector Serna	Session #2: Consequence Analysis I Location: Gran Salon Bolivar C-D Co-Chairs: Felipe Munoz, Trey Morrison	Session #3: Process Safety Handover for the Operation Stage Location: Gran Salon Bolivar A-F Co-Chairs: Ignacio Alonso, Nestor Sposito
9:30 AM	Strengthening Risk Control Measures Through Mapping of Potential Accident Scenarios: A Refinery and Petrochemical Site Case Study (Silvia Fernandez)	Optimizing Gas Detector Layouts by Considering False Positive and False Negatives Through Unavailability and Voting Considerations (Alberto Benavides-Serrano)	Alarms Management: Key Factor in Process Safety (Aileen Diane Pusey Mitchell)
10:00 AM	Quantification of Risk and Risk Acceptance Criteria in Indian Context (Neeru Anand)	Sensitivity Analysis in the Blends Characterization for the Consequence Modeling in Oil and Distillate Products Storage Tanks Using PHAST® (Rene Cuestas Sr.)	Safe, Reliable and Responsible Operation. How to Ensure it? (Jose Sanmiguel Sr.)
10:30 AM	Challenges and Lessons During the Implementation of the Continuous Major Accident Risks Reduction Process (Orlando Pinilla)	The Good, the Bad, and the Really Ugly of Consequence Analysis (Carlos Barrera)	Improvements on Pre Start Up Safety Review Process by Standard Operational Procedures Revision During Commissioning (Antonio Barreto)

11:00 AM	AICHE Presentation – “A World of Benefits” Presented by: Michelle Marsnick, AIChE Membership Location: Gran Salon Bolivar B-E
11:30 AM	Lunch <i>Location: Tropical Gardens, Hilton Cartagena</i>

MONDAY, AUGUST 13

	Track 1	Track 2	Track 3
	Session #4: Process Safety for Senior Management What They Need to Know <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: David Kamrath, Cecilia Albertini	Session #5: Process Safety implementation in Design <i>Location: Gran Salon Bolivar C-D</i> Co-Chairs: Mike Broadribb, Ignacio Alonso	Session #6: Managing Instrumented Layers of Protection During Life Cycle <i>Location: Gran Salon Bolivar A-F</i> Co-Chairs: Rodrigo Carrillo, John Rueda
1:00 PM	Process Safety Culture, Leadership, and Operating Discipline – How They Fit and How to Improve (<i>Steve Arendt</i>)	The Equilibrium Between "Fit for Purpose" Design and Inherently Safer Design (ISD) (<i>Jaime Rodriguez</i>)	Use of Tools for Operation and Maintenance of SIS (<i>Fabrizio Bongiorno Arasanz</i>)
1:30 PM	Process Safety Management Model Applied to Production Managerial Positions of <i>Ecopetrol S.A</i> (<i>Jose Alexander Estevez Lizarazo</i>)	Process Safety Management in Projects (<i>Ana Maria Dukon</i>)	Using Alarms As An Independent Layer of Protection (IPL) in the Safety Life Cycle (<i>Alejandro Esparza</i>)
2:00 PM	Engaging Senior Management in Process Safety (<i>David J. Kamrath</i>)	Safeguarding System for Bottom Refining Furnaces (<i>Diego Alejandro Ramos Sierra Sr.</i>)	We Can Not Test the CPU of a SIS (<i>Luis Garcia</i>)
2:30 PM			The High Cost of Poor SIS Lifecycle Planning (<i>Jatin Shah</i>)
3:00 PM	Coffee Break <i>Location: Foyer Gran Salon Bolivar</i>		

MONDAY AUGUST 13

	Track 1	Track 2
	Session #7: Process Safety Culture <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: Nestor Graff, Jatin Shah	Session #8: Tools and Methods <i>Location: Gran Salon Bolivar C-D</i> Chair: Steve Arendt, Eric Peterson
3:30 PM	Growing a Culture of Process Risk Reduction with Statistically Validated Actionable Leading Indicators (Joseph Stough)	Optimizing PHA Work Through Combined Methodologies (Mario L. Fantazzini)
4:00 PM	Monsanto Process Safety Initiatives (Elaine Dalla Costa)	Guidelines for Applying Process Hazard Analysis Techniques to Combustible Dust Applications (Trey Morrison)
4:30 PM	Unsafe Conditions in the Chemical Industry: A Matter of Culture, Management or People? (Carlos A. Barrera)	Calculation of Leak Rates of Liquid Phase Hazardous Materials in Transport Pipelines in Mountainous Regions (Carlos Manjarres)
5:00 PM	Well, Well! Are We Drilling in the Right Direction? (Mike Broadribb)	

TUESDAY, AUGUST 13

	Track 1	Track 2	Track 3
	Session #9: Process Safety Metrics <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: Mike Broadribb, Luis Luna	Session #10: Consequence Analysis II (Pipelines) Location: Gran Salon Bolivar C-D Co-Chairs: Felipe Munoz, Trey Morrison	Session #11: Safety Critical Equipment the PS Life Savers Location: Gran Salon Bolivar A-F Co-Chairs: Rosa Romero, Guillermo Herrera
8:00 AM	CCPS Process Safety Metrics- “A Global Approach” (Louisa Nara)	Consequence Modeling in Hydrocarbons Transport Pipelines Under Major Accident Perspective (Luis Zabala)	Myths and Realities in the Integrity Management of Industrial Facilities (Jaime Muñoz)
8:30 AM	Petrobras’ Process Safety Key Performance Indicators – Wells and Drilling Activities (Manoela Lopes)	Understanding Spill Routes of Hydrocarbon Spillage on Surface Water Streams (Adriano Chaparro)	Let Us Prevent the Next On-Shore Explosion (Jogen Bhalla)
9:30 AM	Identification Of Global Indicators for Risk, Health, Safety and Environment Management In Platforms E & P – Case Study Of Brazilian Industry Based in Management System (Alex G. Almeida)	Flexible Frame for the Study of Dispersion Scenarios Due to Accidental Events in the Transportation of Hazardous Materials (Maria Camila Suárez)	Mechanical Integrity of Critical Equipment for Process Safety (Luis Zabala)
9:30 AM	Coffee Break <i>Location: Foyer Gran Salon Bolivar</i>		
10:00 AM	Panel Presentation – “Process Safety in Latin America: Reality and Perspectives” Panelists: Scott Berger (CCPS), Rafael Moure Eraso (CSB), Gustavo Correa (YPF, Argentina), Nelson H. Marulanda (Unidad de Gestion de Riesgos), Andres Pavia (Ecopetrol) <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: Carlos Barrera, Louisa Nara		
11:30 AM	Lunch <i>Location: Tropical Gardens, Hilton Cartagena</i>		

TUESDAY, AUGUST 13

	Track 1	Track 2	Track 3
	Session #12: Hazard Identification Risk Management II <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: David Moore, Hector Serna	Session #13: Quantitative Risk Analysis Methods to Minimize Risk Exposure and Improve Risk Management <i>Location: Gran Salon Bolivar C-D</i> Chair: Jatin Shah	Session #14: The Impact of Culture on Process Safety Performance <i>Location: Gran Salon Bolivar A-F</i> Chair: Laura Turci
1:30 PM	Emergency Management for Major Industrial Incidents(<i>David M. Parra</i>)	The Use of Quantitative Health Risk Analysis in Risk Management (<i>Luís Sávio Sousa</i>)	Impact in Safety Culture of Offshore Production Platforms by Brazilian Regulatory Audit Procedure After Safety Regulatory Landmark Based on a Management System (<i>Alex G. Almeida</i>)
2:00 PM	Quantitative Approach of Societal and Individual Risk for the Transportation of Hazardous Materials In Colombia (<i>Lina Parra</i>)	Use of Quantitative Risk Assessment as a Management Tools for Land Transport of Dangerous Goods (<i>Leandra Estrella</i>)	Top Performance on Process Safety (<i>Antonio Ribeiro Sr.</i>)
2:30 PM	Process Safety in Drilling Operations (<i>Robert Weber</i>)	"Triple Bottom Line" Approach to QRA (<i>Nic Cavanagh</i>)	Why Events Reoccur? (<i>Augusto Constantino</i>)
3:00 PM	Coffee Break <i>Location: Foyer Gran Salon Bolivar</i>		

TUESDAY, AUGUST 13

	Track 1	Track 2	Track 3
	Session #15: Process Safety for Senior Management: What They Need to Know II <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: David Kamrath, Cecilia Albertini	Session #16: Prevention of Fires and Explosions via Inherently Safer Design <i>Location: Gran Salon Bolivar C-D</i> Co-Chairs: Nestor Sposito, Nicolas Valencia	Session #17: Identification and Techniques to Improve the Management of Operational Risk in Day to Day Operations <i>Location: Gran Salon Bolivar A-F</i> Co-Chairs: Eduardo Francisco
3:30 PM	The Importance of Process Safety Management Systems (<i>Jatin Shah</i>)	Inherent Safety and Its' Application to Biodiesel Production (<i>German Gómez</i>)	Bow Tie Diagram Calibration (<i>Ali Mokhber</i>)
4:00 PM	Enterprise PSM Development, Implementation, and Auditing (<i>David A. Moore</i>)	Preparedness to Emergency Management on Oil and Petrochemical Industry (<i>Oscar Barajas</i>)	How to Improve the Management of Operational Risk on a Day to Day Basis? (<i>Mike Neill</i>)
4:30 PM	Process Safety: Building a Sustainable Business (<i>Mauricio Jaramillo</i>)	Preventing Fires & Explosions in the Hydrocarbon Industry (<i>Jogen Bhalla</i>)	Interlock Evaluation for a Process Plant (<i>Rodrigo Carrillo</i>)
5:00 PM		Optimization of Flammable and Toxic Gases Detectors' Layout Using CFD (<i>Franz Zdravistch</i>)	
5:00 PM – 6:30 PM	5th CCPS Latin America Conference on Process Safety Reception and Poster Session <i>Location: Foyer Gran Salon Bolivar</i>		

WEDNESDAY, AUGUST 14

	Track 1	Track 2
	Session #18: Practical Methods for PSM Improvement <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: Steve Arendt, Eduardo Francisco	Session #19: Tools and Methods <i>Location: Gran Salon Bolivar A-F</i> Co-Chairs: Laura Turci, Antonio Junior
8:00 AM	Practical Prevention of Process Safety Events Thru Standardization of Best Practices In Operations (<i>Nicolás Valencia</i>)	Domino Accident in the Process Industry – A Review of Current Analysis Methods and Upcoming Trends (<i>Stella Tonelli</i>)
8:30 AM	Eliminating “Unknown Known” From Process Safety Management; Better Protection Against Potentially Large Losses (<i>Alfredo Verna</i>)	Evaluating Self-Heating and Ignition Hazards in Combustible Dust Handling Equipment (<i>Trey Morrison</i>)
9:00 AM	Model for the Management of Process Safety (<i>Gustavo Agudelo</i>)	Safety and Culture in Chemical Processes in Colombia’s Caribbean Region (<i>Osvaldo Del Castillo</i>)
9:30 AM	Coffee Break <i>Location: Foyer Gran Salon Bolivar</i>	
	Session #20: Management of Change –More Than a Checking Box <i>Location: Gran Salon Bolivar B-E</i> Co-Chairs: David Kamrath, Marcela Recaman	Session #21: Process Safety Implementation in Design II <i>Location: Gran Salon Bolivar C-D</i> Co-Chairs: Mike Broadribb, Ignacio Alonso
10:00 AM	Management of Change (MOC) Leading Indicator Developed to Improve Training and Process Safety Performance (<i>Nicolás Valencia</i>)	Methods to Reduce Common Cause Failures (<i>Luis Manuel Duran</i>)
10:30 AM	Decision Flowchart to Support MOC-Personnel (MOC-P) (<i>Antonio Barreto</i>)	Assurance Plan for Process Safety in Projects (<i>Ignacio Alonso</i>)
11:00 AM	Industry Best Practices to Counter Critical MOC Failure Modes (<i>Steve Arendt</i>)	
11:30 PM	Lunch <i>Location: Tropical Gardens, Hilton Cartagena</i>	

	Session #22: Case Histories and Lessons Learned Location: Cartagena de Indias Co-Chairs: Carlos Barrera, Clara Ines Arbelaez
1:30 PM	To Imagine, Foresee and Prevent Catastrophic Accidents (<i>Roberto Fernandez Blanco Sr.</i>)
2:00 PM	Lessons Learned from Recent Explosion Investigations: The Myth of ATEX Compliance (IECEX) (<i>Hervé Vaudrey</i>)
2:30 PM	Implementation of Process Safety for Support Vessels for Exploration and Production (E&P) Activities At Petrobras in Brazil (<i>Rodrigo Possobon</i>)
3:00 PM	Coffee Break Location: Foyer Cartagena de Indias
3:30 PM	Dust Explosion in Cereal Silos from Ing. White Argentina (<i>Nestor H. Sposito</i>)
4:00 PM	Preventing Explosions that are Felt Around the World (<i>Scott Berger</i>)
4:30 PM	Closing Remarks