Monday, April 19, 20	021						
10:00 – 11:00	AGILE Award Keynote A	2021 AIChE Spring Meeting and 17th GCPS AGILE Award Keynote Address (Live) AGILE Award Keynote Address: "sustainability and safety in industry" Presented by <i>Ilham Kadri</i> , CEO and President of the Executive Committee, Solvay					
11:30 – 12:30	Welcome address by <i>Kare</i> Keynote Address Presente inside your company"	GCPS Welcome Plenary & Keynote (Live Session) Welcome address by <i>Karen Study</i> , GCPS Chair and <i>Shakeel Kadri</i> , Executive Director & CEO, CCPS Keynote Address Presented by Corrie Pitzer, Founder and CEO SAFEmap – "The latent triggers of disasters are alive - deep					
12:30 – 13:30	Presented by Andrew Hop	Keynote Address: " Organi <i>okins</i> , Emeritus Professor o	f Sociology, Australian Nat				
	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	Perspectives on Process Safety from Around the Globe		
	Session #13: Effective Process Safety Programs I: Enhancing Your Process Hazard Analysis Programs Co-Chairs: Don Connolley, Fred Henselwood	Session #11: Combustible Dust Hazards and Their Mitigations Co-Chairs: Sam Rodgers, Kathy Kas	Session #14: Forum - Yoda on Process Safety Episode II: My ally is Process Safety and a powerful ally it is (Live Panel) Co-Chairs: Katherine Prem, Brooke Beveridge	Session #20: The Day PSM Hit Home Co-Chairs: Brent Cox, Bill Mosier	Session # 19: Spanish Session: Gestion del la seguridad de procesos con base en riesgo Co-Chairs: Eliana Berroteran, Juan Fernandez		
15:00 – 15:20	More Issues with LOPA - from the Originators Art Dowell & William Bridges	Dust Explosion Protection System Deficiencies – Discovered Through Performing DHAs Phil Parsons	Panelist: Gregg Kiihne, BASF Scott Berger, Scott Berger LLC. Michelle Brown, FMC	A Passion is Born Don Connolley	Herramientas y Factores Para El Diagnostico En La Implementación Del Sistema De Gestión De Seguridad De Procesos: Caso Práctico En La Industria De Los Hidrocarburos. Oswaldo Mata		
15:20 – 15:40	Opportunities for Continual Risk Reduction By Applying Inherently Safer Design Strategies throughout the Process Lifecycle	The Case for Management Systems in Preventing Combustible Dust Explosions <i>Timothy Heneks</i>	Louisa Nara, CCPS Jerry Forest, Celanese	How Leadership Decision Making Influences Safety Culture, Process Safety Events and Serious Injuries and Fatalities	Realizando auditorias de Sistemas de Gestion de Seguridad de Procesos (PSM) en Tiempos de Pandemia. Catalina Novoa		

	David Jones			David Libby	
15:40 – 16:00	Protection Layers Integrity Management – an Illusion? Rajender Dahiya	Dust Explosions: A New Path to Estimate the Explosibility Characteristics of an Organic Powder <i>Matteo Pietraccini</i>		My Journey in Process Safety Zhou Hua	El Gran Desafío. Gestión De Seguridad De Procesos En Tiempos De Crisis. Nestor Sposito
16:00 – 17:00	Networking				1
Tuesday, April 20, 2	<mark>2021</mark>				
9:30 – 10:30 10:30 – 11:00		sident, Pfizer Digital Manuf ourney from highly efficien	C	ontier of digital transforma	tion of operations"
	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	Perspectives on Process Safety from Around the Globe
	Session #29: Effective Process Safety Programs II: Risk Based Process Safety Co-Chairs: Don Connolley, Fred Henselwood	Session #30: Engineered Safety Systems and Mitigation Technologies I Co-Chairs: Amy Gray, Amy Theis	Session #37: The Good, the Bad and the Ugly of Virtual Work Environments Co-Chairs: Philip M. Myers, Michelle Brown	Session #38: Tutorials in Process Safety: Loss Prevention Symposium (LPS) I Co-Chairs: Trey Morrison, Irfan Shaikh	Session #36: Process Safety Activities in China Co-Chairs: Zhao Dongfeng, Meng Yifei
11:00 – 11:20	Improving Integration of Reactive Chemistry into an Established Risk Assessment Culture Jessica Albert	Impact of Simulation Methods on Column Relief Systems <i>Robert</i> <i>Foley</i>	"Hello? Can Everyone See My Screen Now?" - Conducting an Effective PHA from a Distance Lauren Moyer	Fire modeling basics Jin Zhao	China's Chemical Industry Risk Prevention and Mitigation through Innovations and Regulatory Implementations Da Wang
11:20 – 11:40	Ecolab Process Safety Qualification Process Nathan Thompson	Is Your SIF Trying to Do Too Much? Art Dowell	Exercising Operational Agility in COVID-19 Training Sessions Stuart Chia, Angelyn Wu and Simone Ligori	Fire and gas detection systems and mapping <i>Bryant Hendrickson</i>	Inherently Safer Design Practice in Wanhua JianWu Pu

11:40 – 12:00	Effective Pre-Startup Safety Review: Tips and Tools for Ensuring Operational Readiness Jody Olsen	Determination of the Best Vent Stack Design for High-Pressure Hydrocarbon Blowdown Using CFD Modelling – a Case Study Amiza. Surmi	Virtual DHAs - Lessons from the Kitchen Table <i>Michelle Murphy</i>	Active fire suppression systems <i>Ray Rodriguez</i>	A Study on the Dynamic Management if Risk in China's Chemical Industry Chao Zhou
12:00 – 13:00	Networking				
13:00 – 13:30	Break				
	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	Perspectives on Process Safety from Around the Globe
	Session #47: Effective Process Safety Programs III: Operational Excellence Co-Chairs: Jeff Fox, Jim Klein	Session #48: Engineered Safety Systems and Mitigation Technologies II Co-Chairs: Amy Gray, Amy Theis	Session #44: Attorney Client Privilege Audits and Investigations Co-Chairs: Vic Edwards, Lydia Wilkinson	Session #58: Tutorials in Process Safety: Loss Prevention Symposium (LPS) II Co-Chairs: Trey Morrison, Irfan Shaikh	Session #56: Spanish Session: Análisis de riesgo y toma de decisions Co-Chairs: Eliana Berroteran, Catalina Novoa
13:30 – 13:50	Process Safety in Management by Walking, Around – Strengthening Leadership in Process Safety Jose Ignacio Sanz	Flame Arrestor Failures in Industrial Equipment and Consumer Products <i>Michael Stern</i>	Current Challenges Performing PSM Audits Michael Hazzan	Passive fire protection systems Bernard Leong	Fichas De Continuidad Operativa Una Herramienta Para Apoyar La Toma De Decisión Gerencial Basada En Riesgo Juan Manuel Ardito
13:50 – 14:10	Designing and Delivering Operational Excellence Scott Haney	Importance of Safety Critical Devices and Emergency Shutdown Systems in a Process Plant Sheikh Ahmad	How to Leverage Attorney-Client Privilege for Effective Incident Investigations Matthew Walters	Vapor cloud explosion basics Alfonso Ibarreta	Implementación y Usos de Simulador Dinámico de Procesos en Unidad de Metanol Plaza Huincul Luis A. Saavedra
14:10 – 14:30	The Shift to Dynamic and Simulated Process Safety Risk Management Simon Jones	Design and Full-Scale Testing of a Blast- Resistant Roller Shutter Door John Puryear	Five Keys to Successfully Working with Attorneys during Complex investigations	Blast-resistant design and construction <i>Paul Summers</i>	Gestión De Malos Actores De Seguridad De Procesos Micaela Fernandez Terenzi

			of Large-Consequence Incidents		
14.20 15.00			Vernon Guthrie		
14:30 – 15:00	Break				
	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	Perspectives on Process Safety from Around the Globe
	Session #64: Applications of New Technologies to Improve Process Safety Co-Chairs: John Champion, Robert Coover	Session #68: Facility Siting, Consequence Analysis and Risk Assessment I Co-Chairs: Ron Willey, Manuel Herce	Session #77: The Intersection of Cybersecurity and Process Safety Co-Chairs: Jack Chosnek, James Martin	Session #73: PSM Story Time Co-Chairs: Scott Haney, Chris Israni	Session #76: Spanish Session: Análisis de consecuencias y planes de emergencia Co-Chairs: Eliana Berroteran, Heber Varela Alvarez
15:00 – 15:20	The e-Safetycase – Electronic or Effortless? <i>Gareth Ellor</i>	Gone with the Wind: Ventjet Is a New Engineering Model for Atmospheric Dispersion Derek Miller	Leveraging Existing PHA Studies to Assess Cybersecurity Risk James McGlone	The Departure of the Undernourished Farmhand Bruce Vaughen	ROSE Tool: Análisis Forense De La Integridad De Activos En Plantas De Oil & Gas Cesar Puma Medina
15:20 – 15:40	Procedure Simulators That Ensure Your Procedures Are Accurate, Operators Are Fully Competent and the Payback Is Always Less Than 1 Year Christian McDermott	Concepts for a Toxic Facility Siting Program <i>Chris Buchwald</i>	Integrating Process Safety and Cybersecurity in Chemical Process Industry for Better EHSs Performance Ashit Dalal	Nuisance Alarms and the Boy Who Cried Wolf – How to Create a Happy Ending Todd Stauffer	¿Como Alcanzar Una Protección Contra Incendio Eficiente? El Fire Hazard Analysis (FHA) Como Herramienta De Optimización De Seguridad Contra Incendios Alejandro Jimenez
15:40 – 16:00	Process Safety Integrated Map in Power BI Layane Oliverira	Facility Siting - Negotiating the Minefield of "Maximum Credible Event" Kristen Graham	How Is Cybersecurity Changing Process Safety? Patrick O'Brien	My MOC Stories: Making Process Safety Tangible Jody Olsen	¿Cuándo Aplicar Un Fera: Fire and Explosion Risk Assessment? Andrei Núñez
16:00 – 17:00	Networking				
Wednesday, April 2	1, 2021				

9:30 – 10:30	Kenneth Lane, Executive Vice President, Global Olefins & Polyolefins (O&P), LyondellBasell "Advancing the Circular Economy"							
10:30 – 11:00	Break							
	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	Perspectives on Process Safety from Around the Globe			
	Session #92: Live Dragons – Know Your Process Safety Hazards Co-Chairs: Jennifer Mize, Sean Dee	Session #87: Facility Siting, Consequence Analysis and Risk Assessment II Co-Chairs: Ron Willey, Manuel Herce	Session #93: Meaningful Leading Indicators that Drive Change Co-Chairs: Rainer Hoff, Jerry Forest	Session #96: Tutorials in PPSS I: Lack of Attention has Consequences for Process Evaluation Co-Chairs: Mike Hazzan, Brian Dickson, Michelle Brown	Session #95: Spanish Session: Ciberseguridad y sistemas instrumentados de seguridad Co-Chairs: Eliana Berroteran, Matías Massello			
11:00 – 11:20	Slaying the Dragons That Sabotage Protection Measures to Feed on the Ash of Your Plant Denise Chastain-Knight	Leveraging CFD to Effectively Evaluate Sensitivity to Ignition Location When Designing for Explosion Loads Drew Botwinick	Proactive Approach in Improving Process Safety Performance at Hydrocarbon Industry Mohammad Al Nashwan	Leveraging Process Knowledge and Process Safety Information (PSI) for Process Safety Management (PSM) Success Keith Lennon	SRS, El Eslabón Perdido De La Seguridad Funcional Romel Rodrigue z			
11:20 – 11:40	"I Didn't Inhale, and Never Tried It Again." Proper Handling of Toxic Inhalation Hazard (TIH) Chemicals in Plants and during Transportation Mike Broadribb	Minimizing Risk of Unit Trains of Hazmat Jessica Morris	Integrated Leading Indicators and Their Effectiveness Evaluation Mahwish Shahzadi	How Long between Cause and Consequence in a PHA? Patrick Fisher	Gestión De Inhibiciones De Sistemas De Seguridad – Caso De Implementación Fernando Pawolocki			
11:40 – 12:00	Means to Achieve Backflow Prevention of Hazardous Chemicals from Process Vessels to Utility Pipelines and Its Importance during HAZOP Studies	Evaluation Protocols for Flammable and Toxic Dispersion Models <i>Filippo Gavelli</i>	Predictive Analytics - Tools to Predict Risk Susan Barney	Conducting Hazops That Are Good and Don't Just Look Good Michael Moosemiller	Importancia De Las Pruebas Periódicas Durante El Diseño Del SIS Jonathan De Los Santos			

	Deepak Sharma					
12:00 – 13:00	Networking			1		
13:00 – 13:30	Break					
	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	Perspectives on Process Safety from Around the Globe	
	Session #109: Process Safety in Unusual Situations Co-Chairs: Eddie Dalton, Andrew Goddard	Session #104: Fires, Explosions and Chemical Reactivity I Co-Chairs: Sam Wang, Jessica Morris	Session #110: Repeat incidents – Enough already! Co-Chairs: Ian Mylenbusch, Neha Rajan	Session #111: Tutorials in PPSS II: When Process Deviation is Normalized Co-Chairs: Mike Hazzan, Brian Dickson, Michelle Brown	Session #108: Portuguese Session: Gestão da Segurança de Processos baseada em Risco Co-Chairs: Luana Santos, Andres F. Valencia	
13:30 – 13:50	Keeping Process Safety Management Intact during Global Pandemic Salman Shafique	Lifting the Fog Off Hydrocarbon Mist Explosions Stephanie El – Zahlanieh	Driving Continuous Process Safety Improvement from Investigated Incidents Scott Berger	Writing in the Margins: Considerations for Safe Operating Limits Sean Dee	Barrier Management, an Application for Events Not Related to Loss of Containment Flavia Carreiro	
13:50 – 14:10	Pandemic Risk Management; Protecting People While Ensuring Business Continuity James Sneddon	Fire Relief Sizing for Heavy Petroleum with Cracking Freeman Self	Lessons Learned - How to Make Them Stick Jack Chosnek	Addressing Common PSM Audit Findings on Operating Limits and Safe Limits James Thompson	Process Safety Analysis Considering Human Factors in High Tech Industries Josué França	
14:10 – 14:30	Relief System Design Revalidation Warranted during Current Pandemic Shailesh Saraykar	Large Volume Liquid Hydrogen Releases: Key Results and Outcome of Modelling Exercises Dan Allason	Drastic Reduction in Repeat Incident Utilizing Neuroscience Approach (Visual Thinking) M. Ahsan Sarfraz	Determining the Effectiveness of the Human Safeguard James Topp	Illegal Tapping in the Process Safety Management Marcos Vinícius Bellé Rocha	
14:30 – 15:00	Break		<u> </u>			
15:00 – 16:00		GCPS Poster Session Co-Chairs: Ralph Zhao, Deepak Sharma, Srihari Maganti				
16:00 - 17:00	Networking					
Thursday, April 22, 2	2021					

9:30 – 10:30	Vice President, Planarizati "Industry Perspectives o	mance Materials Vice Presion; and Dave Parrillo, Vice n Learning and Innovation	e President of R&D, Dow In		
10:30 – 11:00	36 th Center for Chemical Process	55 th Annual Loss Prevention Symposium	23 rd Process Plant Safety Symposium	10 th Process Safety Management	Perspectives on Process Safety from Around the
	Safety International Conference (CCPS)	(LPS)	(PPSS)	Mentoring (PSMM)	Globe
	Session #132: Non- Traditional Applications of Process Safety Co-Chairs: San Burnett, Jennifer Brittain	Session #129: Fires, Explosions and Chemical Reactivity II Co-Chairs: Sam Wang, Jessica Morris	Session #130: Front- Line Human Performance Co-Chairs: Kathy Shell, Jenniffer Villalobos	Session #134: Tutorials in Process Safety: Center for Chemical Process Safety (CCPS) International Conference I Co-Chairs: Jennifer Mize, Matt Walters, Todd Drennen	Session #131: Japan's Process Safety Progress Co-Chairs: Masaki Nakagawa
11:00 – 11:20	Risk Assessment and Safeguarding of Lithium Ion Battery Containing Facilities Edward Marszal	Reactive Metal Waste Particulate Combustibility Bob Zalosh	Progressive Approach to Promote Hazards Reporting at Grass-Root Level Fatima Babar	Why Do We Keep Having Incidents? Pete Lodal	A Study of Method for Estimating Induction Time until Polymerization Runaway of Polymerization Monomer <i>Ikkei Tanabe</i>
11:20 – 11:40	Risk Based Process Safety: Providing Safety & Reliability Beyond the Chemical Industry Mike Snyder & Sarah Eck	Dangerous When Wet: Exploring Important Differences in Common Water Reactivity Testing Methodologies Amy Theis	Oops, We Did It Again: Reducing Human Error- Induced Truck Unloading Events Sarah Eck	Don't Fall Through The Cracks! Considering Boundary Scenarios in PHAs M. Jacob Alvarez	Structure Packing Fire Risk and Mitigation Plan at Distillation Column – Eneos Corporation Oita Refinery Toshinobu Sasaki

11:40 – 12:00		1						
11.40 – 12.00	Risk Based Process Safety as a Useful Tool to Avoid Marine Accidents Carlos Camargo	Deve Area Bound	l Approach to loping Hazardous Classification daries d Wechsler	Human Fact Implementat Plant Worke William Brid	tion – for ers	Got Dust?: Perform Dust Hazard Analy (DHA) Tim Myers & Alfon Ibaretta	sis	The Method of Reviewing HAZOP Worksheet with Risk Evaluation Keita Iida Sr.
12:00 – 13:00	Networking							
13:00 – 13:30	Break							
	36 th Center for Chemical Process Safety International Conference (CCPS) Session #141: Making Process Safety Messaging Sticky Co-Chairs: Lauren Moyer, Jim Martin		55 th Annual Loss Symposium				10 th Process Safety Management Mentoring (PSMM)	
			and Human Reliab	Nature of Co-Chain Reliability Human Reliability Hairs: Trey Morrison, Spinorial		Co-Chairs: Fred Gregory, Sribari Maganti		Session #143: What is Hiding Under the Radar? Co-Chairs: Denise Chastain-Knight, Lisa Long
13:30 – 13:50	Important—Show Me, Don't Tell Me!" January Mize		Mobile Computing Procedure Execution Facilitation to Redu Edward Marszal	on Facility Siting, Co		ng, Community d Emergency	Missi Main	ing Lasts Forever: Items ang from Your Preventative tenance System.
13:50 – 14:10	C.P. Snow's "Two Culture Challenging CCPS Proces Safety Culture - Chemical Engineers' Roadmap to Bridging Engineering to th Humanities Steven Zhang	S.S	Control Room Desi We Have Anticipate Pandemic? David Lee	_	How Safe Is Your Safe Haven? Brian Thomas		Effec Emer Mana	aging Process Safety tively through Proactive gency Response agement lan Mohamed
14:10 – 14:30	Good or Great? the Seven Practices of Great Process Safety Leaders Jim Spigener		Human Factors for Process Safety: A Handbook By the Centre for Chemical Process Safety and the Energy Institute Michael Wright		Location of Buildings at Quantitative Sushen Vith	LNG Site based on Studies	Now	Have SIS Bypassed Right and Don't Know It. ard Marszal
14:30 – 15:00	Break							

	36 th Center for Chemical Process Safety International Conference (CCPS)	55 th Annual Loss Prevention Symposium (LPS)	23 rd Process Plant Safety Symposium (PPSS)	10 th Process Safety Management Mentoring (PSMM)	
	Session #148: Process Safety Vital Signs Co-Chairs: Chris Israni, Michell LaFond	Session #147: LNG Safety Co-Chairs: Morgan Reed, Kathy Pearson	Session #152: You Have Completed Your DHAs - Now What? Co-Chairs: Chip Howat, Tracy Carter	Session #151: Tutorials in Process Safety: Center for Chemical Process Safety (CCPS) International Conference II Co-Chairs: Jennifer Mize, Matt Walters, Todd Drennen	
15:00 – 15:20	Measuring Vital Signs of Process Safety Culture Hamza Hameed	Too Many or Not Enough? a Methodology for Fire and Gas Detector Layouts at LNG Facilities Bryant Hendrickson	DHA Findings - so You'Re out of Compliance, What Now? Adam Connor	"Why Do I Have Relief System Inadequacies NOW?" Incidents and Industry Events That Have Influenced Changes in Relief System Design <i>Lauren Hendrickson</i>	
15:20 – 15:40	In Process Safety - Is 14 Audit Findings a Good Vital Sign, <i>Larry Lepard</i>	What Is the Safest Hazard Assessment Approach for Distances to Storage Tanks? Jessica Morris	How to Make Your DHA Make a Difference <i>Kevin Jeffries</i>	Safety Interlock Overview and ChE / EE Collaboration John Kelly & Andy Steffan	
15:40 – 16:00	Making Zero a Reality: Selecting & Measuring the "Right" Zero Michael Taube	Develop a CFD Heat Transfer Model for Using High Expansion Foam in an LNG Spillage Zhuoran Zhang and Q. Wang	Taking Action on Your DHA Action Items Brenton Cox	Manage Change or it Will Manage You Brenda Seggerman	
16:00 – 17:00	Networking				
Friday, April 23, 2					
	PS Joint Session: Case Histories I (I	•			
9:30 – 9:50	Dee, Nicole Loontjens, Henry Dwight It Was a Dark and Stormy Night – Investigation of Acrylate Storage Tank Explosions Trey Morrison				
9:50 – 10:10	Process Safety in Transit: A Fatal Explosion of a Truckload of Ammonium Nitrate Mike Schmidt				
10:10 – 10:30	Dam(n) Safety Lessons: Risk Based Process Safety Principles Applied to a 2020 Dam Failure Michael Snyder				
10:30 – 11:00	Break				
Session #160: GCI	PS Joint Session: Case Histories II				

Co-Chairs: Henry Dv	Co-Chairs: Henry Dwight, Sean Dee, Nicole Loontjens			
11:00 - 11:20	Which Eye Are You Looking through? the Impact of Cognitive Bias on Process Safety			
	Trish Kerin			
11:20 – 11:40	Unusual Hydrogen Explosions Due to Unanticipated Metal-Water Reactions			
	Bob Zalosh			
11:40 – 12:00	Port of Beirut Lebanon Explosion – Analysis and Impacts			
	David Moore			
12:00 – 13:00	Networking			
13:00 – 13:30	Break			

GCPS Chairs and Symposia Chairs Recognition Section:

Karen Study	GCPS Chair
Jérôme Taveau	GCPS Vice Chair
Jim Klein	CCPS Chair
Sean Dee	CCPS Vice Chair
Laura Ankrom	PPSS Chair
Nicole Loontjens	PPSS Vice Chair
Mike Moosemiller	LPS Chair
Henry Dwight	LPS Vice Chair
Jessica Morris	PSMM Chair
Katie Mulligan	PSMM Vice Chair
Sergio Fernandez	PPSAW Chair
Andres F. Valencia	PPSAW Vice Chair