

40 - GCPS - Process Safety Poster Session*Monday, March 13, 2023 5:00 PM - 7:00 PM**Exhibit Hall E, George R. Brown Convention Center*

BOARD NUMBER	Title	First Name	Last Name
1	Case Studies from Dust Hazard Analyses	Michelle	Murphy
2	Risk Management and Planning for Hydrogen Fuel Processes	John	Johnson
3	When a Control Valve Phase Change Results in Unfavorable Control Response	Erland	Splan
4	Semi-Automated Bowtie Diagrams for Optimizing Safety Analysis in the Railway Infrastructure	Geert	Van Loopik
5	Risk Assessment of the Offshore Petroleum Platform Using an Integrated Method of HAZOP, FTA and LOPA	Yongjuan	Zhang
6	Constructing a Process Safety Risk Index Empowered By Aspen Plus Simulation	Yutian	Qian
7	Revalidating a Hierarchy of Hazard Controls Analysis	Derek	Bergeron
8	Research of Thermal Runaway Reaction on Ammonium Nitrate	Jo-Ming	Tseng
9	Application of Safety Triad in Relation to Chemical Hazards	Trent	Parker
10	Process Safety Culture 2.0: Upgrading Learning and Knowledge Management	Kristin	Robbins
11	Learning from More Than Incidents	S Camille	Peres
12	Avaliação De Técnicas De Análise De Confiabilidade Humana Para Aplicação Na Área Da Exploração e Produção (E&P)	Sandro	De Farias De Oliveira
13	Putting Compressor Failures into Perspective for the PHA	Steven T.	Maher
14	Luck or Resilience? How 1% Will Occur 100% of the Time	David	Wilbur
15	Is It Really Operator Error? a Forensic Analysis	Stephen	Lattanzio
16	Tips to Streamline Your PHA (and your investment)	Steven T.	Maher
17	How to Succeed in Multinational PSM Efforts	David	Heller
18	Risk Assessment: How to Avoid Slipping, Tripping, and Falling over the Numbers.	William	Sharpe
19	You Have a "Safeguard(s)" in Place; Sounds Promising, but Have You Tested It? Act before It Is Too Late.	Harigopal	Attal
20	Protection Layers Assessment through Defense in Depth in the Chemical Process Industry	Ritche Niño	Li
21	Human Error Prevention IPLs for LOPA – Beyond Administrative Controls	Art	Dowell
22	An Adaptive Analysis Method of Risk Propagation Path for Petrochemical Processes	Qianlin	Wang
23	Understanding the Domino Effect in Process Industries from Rigid Body Mechanics Models	Zhichao	He
24	CFD Simulation of Flow Behavior Under Condensation-Induced Water Hammer in Horizontal Pipe	Minkyu	Han
25	Inclusion of Non-Intrinsic Scenarios in Onshore QRAs (Quantitative Risk Assessment)	Luciana	Reis
26	EPC Perspective and Approach to Safety in Plot Plan and Facility Siting	Sanjay	Ganjam
27	Application of the Weighted Set Covering Problem Combined to Computational Fluid Dynamics for Optimization of Gas Detectors in a Chemical Plant	Raphael	Tsukada
28	Venting of Hydrogen Explosions	Achim	Wechsung
29	Técnicas De Análisis De Riesgos y Toma De Decisiones En Las Diferentes Etapas De Un Proyecto De Ampliación y Modernización De Una Refinería De Procesamiento De Petróleo.	Silvana	Del Carpio
30	Análisis Del Incremento De Los Periodos De Pruebas Manuales De La SIF En La Fase De Operación & Mantenimiento	Marcos	Alamo
31	Lessons-Learned from Remote HAZOP/LOPA Applications	Steven T.	Maher

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32	A Revisiting of the PSM Approach Applied to the Assets of the Electrical System / Releitura Da Abordagem De PSM Aplicada Para Ativos Do Sistema Elétrico	Eduardo	Castro
33	Safe and Sustainable - Optimized and Sustainable Pfp Safety Systems to Mitigate Credible Release Events	Doug	Sinitiere
34	Metal–Organic Framework As an Efficient Synergist for Intumescent Flame Retardants Against Highly Flammable Polypropylene	Ruiqing	Shen
35	Interoperability in the Management of Changes of Critical Elements in the OIL and Gas Industry in Brazil	Kamayura	Moreira
36	Tesoro Refinery Fatal Fire and Explosion	Marie	Ohlinger
37	Texas Tech University Lab Explosion	Smridhi	Mittal
38	Process Control Practitioner's Approach to Solving Trillion\$ Problem in US Economy	Vivek	Dabholkar
39	Sharon Tinker Process Safety Prize: Hydrogen Explosion at AB Specialty Silicones LLC	Nicholas	Brunn
40	API Process Safety Site Assessment Program (PSSAP): Helping Operators See Their Blind Spots	Colin	Frazier
41	Integrating Process Safety Management System with Project Management System-SABIC Experience	Hashem	Al-Awami
42	Lessons Learned: Thermal Runaway Reaction Prevention System	Keith	Mayer
43	Olefin Plant Furnaces Tier-1 Process Safety Incident	Ali	Bazroun
44	How the Platypus Killed the Black Swan – a Story about Recognising Risk	Trish	Kerin
45	Platformer Pressure Relief: Bringing an Older Design Back into Compliance	Waheed	Wakil
46	Three-Dimensional Fire and Gas Detector Mapping Study – Different Assumptions to be Considered for Design and Operate Stages	Nagarajan	Ramachandran
47	Critical Role of EPC Contractors in Mah Management	Veronica	Luna
48	Investigating the Flammability Hazard of Charcoal Fines	Pranav	Bagaria
49	A Comprehensive Review of Fundamental Burning Velocity of Propylene at Variant T, P, and Oxygen Concentration	Guibing	Zhao
50	Safety By Design – Enhancing Risk Management in Capital Project Delivery	Brian	Desrosiers
51	Cómo Realizar PHAs De Arranque, Parada y Mantenimiento En Línea De Manera Eficiente	Matias	Massello
52	Avances De Implementación De Sistemas De PSM En América Latina: ¿Qué Estamos Haciendo Bien? y ¿Qué Estamos Haciendo Mal?	Cesar	Puma Medina
53	Aspects of Application of Hazard Identification and Risk Analysis in Mining and Metal Operations	Marcio	Amorosino
54	Connecting the Dots Among Emergency, Crisis and Business Continuity Plans in Mining Operations	Jose	Nascimento
55	Process Safety Knowledge Management - Moving from Data to Knowledge	John Michael (Mike)	Munsil

# 42 - Poster Session: Process Development Division			
Monday, March 13, 2023 5:00 PM - 7:00 PM			
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BOARD NUMBER	Title	First Name	Last Name
56	Modelling and Optimization of Bitumen Partial Upgrading Process Using HYSYS	Hung Hai	Pham
# 43 - Poster Session: Separations Division			
Monday, March 13, 2023 5:00 PM - 7:00 PM			
Exhibit Hall E, George R. Brown Convention Center			
BOARD NUMBER	Title	First Name	Last Name
57	The Three-Phase Crystallization of L -Menthol from the Enantiomer Mixture	Lie-Ding	Shiau
# 44 - Poster Session: Fuels and Petrochemicals Division			
Monday, March 13, 2023 5:00 PM - 7:00 PM			
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BOARD NUMBER	Title	First Name	Last Name
58	Innovative Solution to Select Compatible Process & Material For New & Strange Process streams	Muhammad Farooq	Fareed
59	New Approached Used to Redesign & Optimize the Flare In Petrochemical Plant	Muhammad Farooq	Fareed
60	Optimization of Solvent Deasphalting Process to Produce Deasphalted Oil for Partial Upgrading of Heavy Oil with Visbreaking	Youngdoo	Kim
61	CO ₂ Dissociation over Ni with Doped Ceria Catalysts	Phillip	Mynarski
62	Predicting the Potential of Asphaltene Deposition at Reservoir Condition in Lower Fars	Adel	Elsharkawy
63	Impact of Secondary Reactions of Fluid Catalytic Cracking on the Yield of Light Olefins	Shatha	Alabbad
64	Study on Hydroprocessing of Waste Plastic Pyrolysis Oil for Chemical Recycling	Sukhyun	Lim
65	Surfactant–Polymer Flooding in Carbonate Using Novel Synthesized Zwitterionic Surfactant and Oilfield Polyacrylamide	Syed	Hussain
66	Kinetic Modeling of CO ₂ -Assisted Oxidative Dehydrogenation of Propane over CrO _x /SiO ₂ Catalysts	Iljun	Chung
67	Effect of Phosphorus Modification over Pt/Al ₂ O ₃ catalyst for Non-Oxidative Propane Dehydrogenation	Jungmok	Oh
68	Effect of Size and Polydispersity of Polyacrylamide Solutions Rheology Under Elongational Flow	Diego	Soetrisno
69	Design of a Steam Condensate Waste Processing System and Creative Reuse of the Condensate in the Oil Refinery	Avinashkumar	Karre
70	Process Design and Mechanistic Modeling of the per- and Poly-Fluoroalkyl Substances (PFAS) Produced from the Thermal Degradation of Fluoropolymers	Patrick B.	Dawson
71	A Comparative Study of Anti-Fouling Characteristics Using Ni-P and Ni-P-Cu Coated Mild Steel	Suparna	Bhattacharyya
72	Experimental Investigation of Magnetic Field Influence on Viscosity of Waxy Crude Oil Emulsion	Xueying	Li
73	Rare Earth Metals Recycling from Electric Vehicles	Maoqi	Feng
73	Ocean Thermal Energy in the Gulf of Mexico for Coproduction of Desalinated Water and Green Ammonia As Hydrogen Carrier	Chandrakant (CB)	Panchal
73	Waste Motor Oil Pyrolysis for Clean Energy Generation in a Self Designed Pyrolyzer	Asmita	Mishra
73	Integrated Planning of Low-Iluc Biomass Production and Supply Chains for Advanced Biofuels: Towards the EU Biobased Economy	Dauda	Ibrahim
73	Improving Biochar Surface Area for CO ₂ Adsorption through Potassium Hydroxide Chemical Activation	Conner	Pope

110 - Poster Session: Industry 4.0/Analytics & AI*Monday, March 13, 2023 5:00 PM - 7:00 PM**Exhibit Hall E, George R. Brown Convention Center*

BOARD NUMBER	Title	First Name	Last Name
74	Three Challenging Applications of Quantifying Critical Characteristics with Machine Vision	Marlene	Cardin
75	Benefits of Designing Product Development Experiments with AI- Poster	Kristin	Wallace
76	Security in Remote Offshore Wind-Integrated Green Hydrogen Production	Ahmed	Elkady
77	A Novel Zone-Based Machine Learning Approach for the Prediction of the Performance of Industrial Flares	Jian	Fang
78	Joint Angle Calculations Using Motion Capture and Deep Learning Pose Estimation for Safety Applications	John	Hedengren
79	How to Implement AI in a Data Lean Environment to Deliver Business Value.	Forogh	Askari
80	How the Start-Small Strategy Is Helping Chemical Companies Generate Millions in Savings and Drive a Sustainable Future	Forogh	Askari
81	How AI Transforms Plant Process Management	Andreas	Eschbach
82	Data Centric AI—How to Build the Software 2.0 Stack to Maximize ROI on Unstructured Data	Michael	Van Meurer