

Global Congress on Process Safety 2024 - Abstracts Only

Held at the 2024 AIChE Spring Meeting and 20th Global
Congress on Process Safety

New Orleans, Louisiana, USA
24-28 March 2024

ISBN: 979-8-3313-1697-6

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2024) by AIChE
All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

For permission requests, please contact AIChE
at the address below.

AIChE
120 Wall Street, FL 23
New York, NY 10005-4020

Phone: (800) 242-4363
Fax: (203) 775-5177

www.aiche.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Effectiveness of Safety Tools and Management.....	1
<i>Salvador Avila Filho, Ednei Couto De Lima Júnior, Isabel Leite Miralha Alves</i>	
The Challenge: How to Get Success in New Problems with Old Solutions.....	2
<i>Alberto Coelho</i>	
Contained Caution: A New Era in Tank Risk Assessments	3
<i>Idil Osmanli, Tekin Kunt</i>	
Vapor Cloud Explosions Involving Separated Congestion Volumes – Application of the BST Method	5
<i>Ryan Hart, Nicholas Reding, May Yen, Alfonso Ibarreta, Delmar Morrison</i>	
Risk Based Safeguard Requirements for Processes with a History of Repeated Explosion Incidents	6
<i>Jerry Lu</i>	
Desenvolvimento Comportamental Em Segurança Como Pilar Estratégico Para Impulsionar Uma Transformação Cultural Organizacional.....	7
<i>Tatiana Zajdenweber, Hebson Nery, Thais Almeida</i>	
Dynamic Risk Advisor: A Real-Time Risk Analysis Tool for Process Safety Management	8
<i>Carlos Junior, Alexandre Bonavita, Victor Costa, Alexandre Aguiar, Gabriel Regis</i>	
Iris - Democratizing Process Incident Reporting at Vale.....	9
<i>Thiego Cugler De Pontes, Juliana Mello, Patricia Fonseca, Yasmin Souza</i>	
Ibram - Manual De Gerenciamento De Segurança De Processos Para Indústria Da Mineração.....	11
<i>Raquel Pinto, Eduardo Francisco, Ariadna Moreira, Wagner Silva, Juliana Mello, Claudia pellegrinelli</i>	
Implementation of Dynamic Barrier Management in an Oil and Gas Company: Advantages and Challenges	13
<i>Ana Figueredo, Deyse Camara, Lais De Oliveira Gabriel, Andre Dantas</i>	
Process Safety Indicators on Mining – Focus on Geotechnical Asset	14
<i>Juliana Mello, Filipe Costa, Bruno Menegatti Esperandio, Patricia Fonseca, Frederico Bezerra</i>	
Ibram - Implementation Trajectory of Process Safety Indicators in the Mining Industry	16
<i>Juliana Mello, Raquel Pinto, Eduardo Francisco, Ariadna Moreira, Claudia Pellegrinelli</i>	
Process Safety Metrics - Learnings from Evaluating Management of Change Implementation by Performance on Process Safety Events Investigation.....	18
<i>Bruno Menegatti Esperandio, Tatiana Zajdenweber, Eduardo Francisco</i>	
CrITÉrios E Premissas Para AplicaÇ�o De HAZOP E LOPA Em An�lises Qualitativas E Semiquantitativas De Risco.....	19
<i>Alvaro Souza Junior, Sergio Claudio Marsal</i>	
A Import�ncia Da APR (An�lise Preliminar De Riscos) No Processo De Fiscaliza��o Do Sistema De Gest�o De Seguran�a Operacional (SGSO) Da Anp.....	20
<i>Marco Carneiro</i>	

PSM Best Practices of Wanhua	21
<i>Yifeng Chen</i>	
A Digitalized, Cumulative Risk Management Approach to Maintenance Backlog Prioritization on High Hazard Installations	22
<i>Tayo Olusanya</i>	
Evolución Proceso Mdc En Upstream.....	23
<i>Luis Kirs</i>	
Lecciones Aprendidas En La Implementación De PSM: Priorizando Adherencia Bajo Un Enfoque Centrado En Elementos Comunes – Sgcec.....	24
<i>Felipe Henao</i>	
Cómo Medir La Evolución Cultural De La Seguridad De Procesos. Casos De Éxito.....	26
<i>Martin Fernandez</i>	
Como Migrar Hacia Un Proceso De Gestión De Cambio (MOC) Electrónico Con Éxito	27
<i>Julio Mimbela</i>	
Gestión De Un Sistema Hips En Operación Y Mantenimiento	28
<i>Marcos Alamo</i>	
¿Predecir El Pasado? Análisis De Consecuencias Durante La Investigación De Incidentes	30
<i>Alejandro Jimenez</i>	
Implementación De Ventanas Operativas En Planta Deshidratadora LH3	31
<i>Enrique Gonzalo Echave, Eduardo Roberto Ortiz, Maria Eugenia Perez Prieto</i>	
Gestión De Emergencias: Mega Sistema De Red Contra Incendios (RCI) En Plantas Químicas Industriales Y Los Principales Desafíos De Seguridad De Procesos	32
<i>Jaime Alberto Garrido Ruiz, Roberto Guzmán</i>	
Cómo Mejorar La Eficiencia De Los PHA, Maximizando El Brainstorming e Identificando Escenarios De Mayor Relevancia.....	34
<i>Matias Massello</i>	
Defensa Inquebrantable: Desentrañando La Efectividad De Barreras Y Criterios ALARP En La Industria De Los Hidrocarburos En El Perú – Comité 172 Inacal.....	35
<i>Cesar Puma Medina, Margot Lopez Garcia, Oswaldo Mata Moreno</i>	
Fame Or Blame Do Not Heal the Pain of Losing Loved Ones.....	37
<i>Kumar Israni</i>	
Common Mistakes with the Application of a Risk Matrix	38
<i>Timothy Stirrup, Kelsey Forde</i>	
Major Chemical Safety Incidents – A Review.....	39
<i>Dana Garber</i>	
Reactive Chemicals Hazard Introduction: An Industrial Perspective	40
<i>Katie Mulligan</i>	
Hazard Analysis and Risk Assessment Methods: How to Choose.....	41
<i>Michael Moosemiller, Nathan Knochel</i>	

Our First Taste of Process Safety Culture, and How it Impacted Our Lifestyles.....	42
<i>Radhika Bompelly, Kumar Israni</i>	
Maintain Curiosity - Process Safety Culture at Gibson Energy.....	43
<i>Connor Murray</i>	
Frontline DEI: How to Design and Integrate Inclusion into Team Processes.....	44
<i>Jody Jahn</i>	
Implementing Simultaneous Operations at Superior Refinery	45
<i>Brian Steinke, Ola Olamilehin</i>	
When Going Beyond Empirical is Needed, a Real Life Example.	46
<i>Vinicius Simoes, Drew Botwinick</i>	
Thermal Protection Assessment on a Railcar Transporting HazardousMaterial.....	47
<i>Sebastian Chialvo, Alejandro Jimenez</i>	
Quantitative Risk Analysis Applied to Transportation of Acute ToxicChemicals	48
<i>Rafael Callejas-Tovar</i>	

Author Index