



PROGRAM GUIDE

July 20 - 23, 2026

HENRY B. GONZALEZ CONVENTION CENTER
SAN ANTONIO, TEXAS



American
Petroleum
Institute





A DECADE OF EXPERT LED EDUCATION

Celebrate the 10th Edition with a proven technical program organized by discipline, sector, and experience level—from intermediate to expert.

OPTIONAL FULL DAY TRAINING COURSES

Kick off the Summit with a full day of in depth training, offering focused courses that build advanced skills in inspection and mechanical integrity.

CENTRALIZED EXHIBIT HALL

Connect with leading inspection and MI service providers and suppliers showcasing the latest tools, products, and solutions—all in one place.

TECHNOLOGY SHOWCASE

Experience emerging technologies shaping the future of the industry in a dedicated exhibit hall feature.

ENERGY EXCHANGE

Dynamic, focused presentations that share knowledge and ideas.

TRACK INFORMATION

DIVISIONS: Oil, Gas, Chemical, and Petrochemical Industry Sectors Covered:

- Upstream (Drilling, Sub Sea, Production Systems)
- Midstream (Pipelines, Terminals, Tankage, Transportation)
- Downstream (Refining, Chemical processing, Storage)
- Petrochemical (Olefins, Fertilizer, Specialty Chemicals, SynGas)
- Multi-Sector (presentation topic applies to more than one division)

CORE TRACKS:

- Inspection/NDE/Monitoring:
- Metallurgy/Corrosion:
- Engineering & Asset Integrity Management:

FOCUSED TRACKS:

- Digital Transformation:
- Storage Tanks:
- SynGas:
- Unmanned Inspection Systems



KEYNOTE SPEAKER

SHAWN KANUNGO

Strategy in a World of Disruption

As a globally recognized innovation strategist and bestselling author, Shawn Kanungo has emerged as one of the world's most sought-after voices on innovation and generative AI. He spent 12 years at Deloitte working closely with leaders to help them better plan for the opportunities associated with disruptive innovation. In his high energy keynotes, Kanungo draws on his extensive experience to provide audiences with an optimistic roadmap for the future; one that embraces unexpected approaches to innovation to remain competitive and relevant.

Called the "best virtual speaker I've ever seen" by Forbes and recognized as one of Edify's "Top 40 Under 40", Kanungo has spent over two decades working with and advising Fortune 500 companies. His expertise spans artificial intelligence, cloud technologies, and behavioural economics, enabling him to guide organizations through complex transformations.

Kanungo made history as the first innovation expert with a streaming special on Apple TV and Prime Video. His bestselling book, *The Bold Ones* — celebrated by McKinsey as essential reading for decision makers — provides a thought-provoking blueprint for professionals and organization to embrace bold innovation in an era of unprecedented change.

Featured in the Globe and Mail, The Guardian, CBC, and CTV, Kanungo is also a prolific content creator whose thought-provoking insights on innovation has attracted millions of followers across LinkedIn, TikTok, YouTube, and Instagram.



SCHEDULE AT A GLANCE

SUNDAY JULY 19	MONDAY JULY 20	TUESDAY JULY 21	WEDNESDAY JULY 22	THURSDAY JULY 23
POWER PATRIOTS CLASSIC (Golf Charity Event) OPENING CEREMONY 7:30am	REGISTRATION 7:00am - 5:00pm	REGISTRATION 7:00am - 6:30pm	REGISTRATION 7:00 am - 5:00pm	REGISTRATION 7:00am - 2:00pm
REGISTRATION 2:00pm - 6:00pm	OPTIONAL TRAINING COURSES 4 or 8-hour courses 8:00am - 5:00pm	EXHIBIT HALL HOURS 7:00 am - 6:00pm	EXHIBIT HALL HOURS 7:00am - 5:00pm	EXHIBIT HALL HOURS 7:30am - 1:30pm
	WOMEN IN MECHANICAL INTEGRITY: POWERING CONNECTIONS NETWORKING EVENT Networking, Group Discussion, & Panel Discussion 5:00pm - 7:30pm	OPENING KEYNOTE Shawn Kanungo <i>Strategy in a World of Disruption</i> 8:00am - 9:20am	TECHNICAL TRACKS 8:45am - 12:00pm 1:30pm - 5:30pm	TECHNICAL TRACKS 8:00am - 11:45am 1:30pm - 2:05pm
		ENERGY EXCHANGE 10:00am - 10:25am 3:30pm - 4:00pm	ENERGY EXCHANGE 10:00am - 10:25am 3:30pm - 4:00pm	ENERGY EXCHANGE 10:00am - 10:25am
		TECHNICAL TRACKS 10:25am - 11:45am 1:30pm - 4:35pm	TECHNOLOGY SHOWCASE 11:45am - 1:30pm	TECHNOLOGY SHOWCASE 11:45am - 1:30pm
		TECHNOLOGY SHOWCASE 11:45am - 1:30pm		CLOSING PANEL 2:15pm - 3:35pm
		OPENING RECEPTION 5:00pm - 6:00pm	CLOSING RECEPTION 5:00pm - 6:30pm	

PANEL SESSIONS

Three Grey-Beards: A Look Back on 140+ Years of FEMI Experience and Perspectives

Join three retired fixed equipment mechanical integrity experts as they reflect on more than 140 years of combined FEMI experience. In this Inspectioneering Podcast-style session, the panelists will share hard-earned lessons, perspectives on preventing major process safety incidents, and insights into the root causes behind some of the industry's most serious FEMI failures. Attendees will gain practical guidance on how to learn from failures, near-misses, and discoveries without having to experience them firsthand.

Satellites for ROW Monitoring & Compliance – The Operators' and Regulators' Perspectives

This interactive panel will explore how satellite monitoring is being used to support pipeline right-of-way surveillance, asset health stewardship, and regulatory compliance. Pipeline operators, regulators, and satellite technology providers will discuss early deployment successes, detection capabilities for emissions, spills, construction activity, vegetation changes, encroachments, and evolving compliance expectations. The discussion will also address detection thresholds, false positives, and how satellite intelligence is being integrated into existing pipeline integrity and compliance programs.

Scaling Disruptive Robotics for Offshore Inspection: Accelerating Adoption, Advancing Autonomy

This panel will examine how robotics, autonomy, and AI-enabled inspection technologies are reshaping offshore asset integrity management. Industry leaders will discuss multi-robot inspection strategies for offshore assets, including deepwater FPSO hull tanks, and how underwater vehicles, aerial drones, advanced NDT, digital mapping, and analytics can improve safety, coverage, and data quality. Panelists will share lessons from offshore deployments and discuss what it takes to move robotics from successful pilots to scalable, fleet-wide inspection programs.



KEY SESSIONS

This schedule is intended to be a snapshot of featured sessions within each track to help highlight some key programming. This is only a preview of the many technical sessions still to come. Full details and a complete agenda will be available in the conference app.

TRACK	SECTOR	SESSIONS
PETROCHEMICAL	ENGINEERING & ASSET INTEGRITY	Applying Probabilistic Concepts to Determination of Equipment Failure Modes
		AI-Driven Damage Mechanism Detection for Asset Integrity
		Beyond Traditional Integrity: Unique Damage Mechanisms in Pyrolysis Operations
	METALLURGY/CORROSION	Material Selection for SMR Hydrogen Pigtails and Heat Exchangers in Nitric Acid Production Plants
		Investigation of a High-Pressure Multi-layered Secondary Urea Reactor Failure
		On the Origin of Thin Metallic Filaments – Not a “Smoking Gun” for Stress Relaxation Cracking
	INSPECTION/NDE/MONITORING	Detection of SCC in Half Pipe Jacketed Reactors with Phase Coherence Imaging
		Inspecting Reactive Metal Equipment: Design Differences and Key Inspection Insights
		Inspection Practices for Composite Repairs
	SYNGAS	The Long Game: How Design Decisions Impact the Lifecycle Integrity of Refrigerated Ammonia Storage Tanks
		Inspection & Assessment Methodology to Estimate Remaining Creep Life of O/L Pigtails in SMR Plants
		Brick Structures in Syngas Plants
	UPSTREAM	INSPECTION/NDE/MONITORING
Application of Flexible Pipe Technology for Offshore Energy Development		
Splash Zone Riser Inspections: Multi-Technology Approach for Improved Effectiveness and Efficiency		
ENGINEERING & ASSET INTEGRITY		Hybrid Acoustic Technology Systems (HATS): A Novel Approach to Pipeline Riser Integrity Management
		Overcoming Operations Inspectability Challenge of High-pressure Pipe-manifold Type Air Coolers
		Temporal Analysis of External Corrosion Backlog on Deepwater Offshore Platform: Insights from Compute
METALLURGY/CORROSION		Challenges in Selecting Corrosion Inhibitors for Multiphase Systems Using Pre-Partitioned Condition
		Proactive degradation control using RBI and IOWs to extend asset life
		Automated Subsea Corrosion Modelling: Enhancing Integrity Through Real-Time Insights

KEY SESSIONS

TRACK	SECTOR	SESSIONS	
DOWNSTREAM	ENGINEERING & ASSET INTEGRITY	13 Years of Process Safety Site Assessments and What We Have Learned About Mechanical Integrity	
		Avoiding the LOW Illusion	
		Heater Outlet Piping Vibration Mitigation	
	INSPECTION/NDE/MONITORING	From Hot Data to Sound Decisions: High-Temperature On-Stream Corrosion Inspections	
		Novel Dense Array Ultrasonic Thickness Sensor for Continuous Localized Corrosion and Erosion Monitor	
		H2S Damage in Refineries: A New Look and Review of Occurrences	
	METALLURGY/CORROSION	Failures that changed the industry-2012 Chevron Richmond No.4 Sidestream Failure	
		Future-Proofing Refinery Infrastructure through optimized crude blending and corrosion management	
		The Corrosion Challenges and Learnings in Operating Renewable Fuel Plants	
MIDSTREAM	ENGINEERING & ASSET INTEGRITY	ROI for MI Programs	
		Practical Alarms and Metrics for BAHX	
		Probability of Exceedance - Corrosion vs. Cracking Methodologies	
	STORAGE TANKS	API-2350 Compliance in Action: The Gap Assessment Approach	
		Failures that changed the industry- Ashland Pittsburgh Terminal Tank Collapse	
		When Holiday Testing Needs to Take a Holiday	
	METALLURGY/CORROSION	Colorimetric Chemical Sensors for Detecting Internal Corrosion Compounds	
		Internal Corrosion Monitoring of RNG/Biogas Pipelines	
		Multi-Layer Barrier Coating to Retrofit Natural Gas Transmission Pipelines to Safely Transport CO2	
	INSPECTION/NDE/MONITORING	Challenges to Manage Short But Deep Crack-Like Features	
		Microbial Influenced Corrosion: Find it before it finds you	
		AI-Driven Transformation of the Inspection Workflow	
	MULTISECTOR	UNMANNED INSPECTION SYSTEMS	Passive, Permanently Installed, Ultrasonic Thickness Sensors with UAV Data Collection for Corrosion
			Modern Inspection Strategies + Deploying Monitoring Sensor Technology = Process Optimization
			Automated UAS Tank Inspections at Scale: Motiva's MI and Gas Emission Monitoring in Practice
INSPECTION/NDE/MONITORING		Assisted AI for Mechanical Integrity the Evolution of Material Loss Quantification	
		Real-Time Corrosion Monitoring: Enhancing RBI Strategies in Harsh Environments	
		Upcoming API 579 Part 15 Level 3 example using small bore connection FEA	
ENGINEERING & ASSET INTEGRITY		Taming Injection and Mix Points with Data-Driven RBI	
		Risk Based Inspection Assessment of PRDs – Lessons Learned	
		SPEAKING RISK: A Guide to Risk Communication and Decision-Making	
DIGITAL TRANSFORMATION		Gaining insights from real time UT corrosion rates with machine learning	
		Enhancing Traceability and Risk Mitigation in Inspection Workflows Through Digitization	
		Economic impact of margin will be the driver, and eventual acceptance, of AI technologies	



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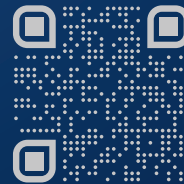
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