Sustain
Transform
Secure

2024 API PIPELINE CONFERENCE & EXPO
PIPELINE, CONTROL ROOM AND CYBERNETICS
May 6 - 8, 2024 Hyatt Regency Salt Lake | Salt Lake City, UT

CONFERENCE & EXPO PROGRAM GUIDE
Global leaders continue to evolve in their formulas for a successful and just energy evolution. In doing so, the realization that oil and gas are catalysts for energy sustainability, transformation and security amidst a rising global demand sharpens. Oil and gas companies are working to solve the climate challenges by sustaining resources today, all the while securing the future through the development of innovative business models. To continue to transform both present and future outlooks, valiant efforts are underway for deepening expertise, embracing policies that accelerate capital investments, and collaborating in unprecedented ways that enables a continued pathway for evolution. Industry will continue its mission to sustain, transform, and secure essential needs across the globe. Join the +700 industry professionals in Salt Lake City, Utah from May 6-8, 2024 as they connect, collaborate, and learn together.

What We Know

1. Oil and gas companies continue to take steps in defining the energy system of tomorrow. As time progresses, the role oil and gas companies will play in the energy evolution continues to grow.

2. While at times geopolitically influenced, current oil price increases reflect a strengthening global economy leading to healthy balance sheets for U.S. companies. Current trends highlight a continued focus on shareholder returns and energy diversification investments, such as CCUS and hydrogen, versus traditional asset investments.

3. Companies will need abundant capital, diverse technical expertise, and experience with complex operations and markets to successfully embrace new fuels.

4. Domestic and global demand is less likely to decline near term. Increases in LNG export facilities continue to place the U.S. with greater mobility to serve even greater energy goals globally. This includes natural gas’ reputational comeback due to its more immediate effect on lowering carbon and methane emissions.

5. A renaissance in workforce development is inevitable and will be largely influenced by oil and gas with a makeup of approximately 5% of the U.S. total employment.

6. Advancements in technologies are rapidly being embraced to improve production, increase connectivity, optimize equipment, ensure worker safety, and monitor remote areas.

A Few Highlights

NEW! Curated Pre-Conference networking opportunities to explore some of Salt Lake City's best known tourist attractions and activities. Pre-registration required.

Event venue located in the heart of one of the fastest growing urban hubs in the United States.

Leading DEI&A practitioners attending to share their work in discussion on industry related topics and future needs.

New! Continuing Education feature allowing attendees to track and earn professional development hours for the sessions they attend!

Centrally located Exhibit Hall with top service providers and suppliers educating attendees on latest products and services.

A marquee 'Oil and Gas' industry program made easy for attendees to navigate by tracks and interests.
GEOFFREY Conn
ACCELERATING DIGITAL ENERGY

Keynote
May 6
Speaker, Author, Trainer
Gaining unique access to +100 diverse sessions to expand your knowledge, network, learning, and discovery of solutions for you and your organizations.

Presenting your ideas and work to others, while getting feedback and potentially new perspectives from others for continuous improvement.

Acquiring insights into the latest trends and technologies that are crucial for a successful business.

Meeting industry leaders with an opportunity to listen to them present their stories and network with them individually.

Building your CV for future opportunities that show existing and potential employers active engagement within a specific industry field of work.

Case for Attending

- Over 100 diverse sessions to expand your knowledge.
- Opportunity to share your ideas and solicit input from others.
- Unique access to the latest trends and technologies.
- Networking with +700 industry leaders and peers.
- Building your knowledge and experience for future opportunities.

Keynote
May 7
Elite Hacker
Speaker, Author

Scott WHITE

Pipeline Conference & Expo
EventsAPI.org | May 6 - May 8 | Salt Lake City
### Sunday, May 5
- Registration: 3:00 pm – 6:00 pm  
  Pre Function Space
- NEW! Executive Roundtable: (invite only)  
  2:30 pm – 4:30 pm
- Private Reception: (invite only)  
  5:00 pm – 6:30 pm  
  Broadcast Lounge

### Monday, May 6
- Registration: 6:30 am – 5:00 pm  
  Pre Function Space
- Exhibit Hall Hours
- Opening Keynote & Awards:  
  8:00 am – 10:00 am  
  Regency C & D
- Technical Tracks:  
  10:30 am – 12:20 pm  
  1:30 pm – 5:30 pm
- Welcome Reception:  
  5:30 pm – 7:00 pm  
  Regency A & B

### Tuesday, May 7
- Registration: 6:30 am – 5:00 pm  
  Pre Function Space
- Exhibit Hall Hours
- Technical Tracks:  
  8:00 am – 10:00 am  
  1:30 pm – 2:30 pm  
  Regency C & D
- Day 2 Keynote:  
  1:30 pm – 2:30 pm
- Networking Reception:  
  5:30 pm – 7:00 pm

### Wednesday, May 8
- Registration: 6:30 am – 5:00 pm  
  Pre Function Space
- Technical Tracks:  
  8:00 am – 12:00 pm
- Conference & Expo Closes
Pipeline Tracks

Stakeholder Engagement & Outreach

This track fosters information sharing on engagement information for community involvement and multi stakeholder efforts or tools used for advancement in safe pipeline operations. Example topics may include leading practices for engagement with communities throughout the lifecycle of a pipeline(s), API Recommended Practices (RP) 1162, Public Awareness Programs for Pipeline Operators and RP 1185, Pipeline Public Engagement, environmental justice and Tribal/First Nation considerations, emergency responder education, and damage prevention outreach.

Operational Excellence

This track explores how oil and gas leaders are operating their assets safely, reliably, sustainably and cost effectively from safety performance to best-in-class standards and systems. Example topics may include processes for identifying high consequence areas, in line inspection lessons learned, pipeline safety management systems, safety culture, Management of Change, leak detection analysis and remediation for risk reduction and enterprise & operational risk management.

Environmental, Social & Governance

This track provides industry insights on both current and forward-looking strategies, changes, and approaches to environmental responsibility and broader ESG measures. Example topics may include energy evolution, habitat management and conservation programs, ESG risks, system hardening and resiliency, methane emission quantification and other sustainable practices by operators.

Technology & Innovation

This track highlights operational technologies, tools and other innovations that allow organizations to advance their operations, asset integrity, risk management, and business continuity and growth. Example topics may include new inspection tools and engineering practices, leak detection technologies, emergency responder applications and emerging fuel developments.

Workforce Development

This track offers insight into diverse workforce development strategies in the pipeline industry. Example topics include succession planning to support knowledge transfer, attracting new workers to the industry, talent retention strategies, managing a multigenerational workforce, Operator Qualification (OQ) and inspector certification programs, establishing competency based learning programs, using technology to train, and expanding formal training to include knowledge-based workers.

Low Carbon Energy Outlook

This track explores the topics associated with the safe and efficient transportation and storage of carbon dioxide (CO2), hydrogen (H2) and other low carbon and renewable sources while examining how both new and existing energy pipeline infrastructure may enable the addition of a next generation of low carbon fuel supply. Example topics include safety related R&D, standards to address operations and integrity, odorant considerations, leak detection methods, self powering technologies, pipeline materials, emergency preparedness and response guidance, dispersion modeling and modifications to infrastructure and other factors to ensure safe operations of CO2 and low carbon fuels.
**Team Training**

This track focuses on establishing and maintaining compliance, while fostering collaboration on one of the newest aspects of Control Room Management regulations. Example topics may include regulation history, interpreting regulatory requirements, incorporating team training into both normal and abnormal operations, training frequencies and non-technical soft skill training approaches.

**Emerging Tech & the Workforce of the Future**

This track explores the future of control room operations, sharing insights on technologies, implementation strategies, use cases and best practices, and talent recruitment and acquisition approaches. Example topics may include automation/autonomous operations, implementation of API RP 1165, workforce training and skill development, shiftwork transformation, and recruiting techniques.

**Alarm Management**

This track focuses on the lifecycle of alarms, from alarm identification to alarm monitoring and management of change. Sessions within this track will seek to share how stakeholders are addressing challenges related to implementation of an alarm philosophy and fulfillment of regulations requiring an alarm management plan. Example topics include solutions for optimizing controller response on complex systems, smart alarms, alarm dashboarding and analysis, impacts of Title 49 rupture response procedures, and alarm workload management.

**Control Room Management Best Practice Share**

This track takes a deep look into the interpretations of the Control Room Management Rule through the operational application of procedures and practices. Open discussion topics may include all aspects of Control Room Management such as: lessons learned, case studies for processes and procedures implementation into control room operations, and common interpretations or practices.

**Regulatory Interpretations & Inspection Findings**

This track examines control room inspections, performed by regulators and operators, and the diverse outcomes in areas of compliance and/or interpretation. Example topics include inspection lessons learned, inspection preparation successfully demonstrating compliance, differences between regulator inspections and investigations, and the value of self-assessments.
ML Automation
This track is focused on highlighting the latest advancements, applications, and impactful use-cases of machine learning and automation in the midstream oil and gas sector. Example topics may include optimizing transportation logistics, enhancing asset management, and improving safety protocols.

Leak Detection Program & Operator Trainer System
This track focuses on strategies and best practices in the field of leak detection program management. This is a unique opportunity for experts and professionals to share their insights on crucial topics shaping leak detection programs. Example topics include performance measurement, advancement in system tuning increasing efficient and reduction of false positives, research findings on leak detection testing and methodologies, design and management of operator training simulators, and critical instrumentation record keeping practices.

Internal Leak Detection Advancements
This track aims to showcase emerging technologies and advancements for internal leak detection systems. Example topics may include AI uses cases in areas of internal leak detection systems, detection accuracy and proactive maintenance, new implementations in live environments demonstrating significant value, and examples of next level improvements to existing technologies.

External Leak Detection Advancements
This track promotes the exploration of cutting edge developments in external leak detection systems. Example topics include predictive analytics, AI driven algorithms revolutionizing detection accuracy, predictive capabilities, and proactive maintenance strategies, inventive applications of external detection tools, and advancements in existing detection technologies that have resulted in breakthrough value.

SCADA/Cybersecurity
This track provides information about key industry improvements to SCADA systems from processes to technologies and explores topics related to the latest advancements, challenges and strategies for securing critical energy infrastructure. Example topics may include the modernization of SCADA communications, SCADA audit experiences, case studies in secure and efficient inter-company connections, SCADA related projects and lessons learned, strategies for threat detection and prevention, vulnerabilities and solutions for ICS and SCADA systems, and case studies for risk management approaches.

Regulatory Interpretations & Inspection Findings
This track focuses on the critical intersection of compliance, operational integrity, and technological advancement. Example topics may include leak detection regulations and practices, cybersecurity regulation interpretations such as digital infrastructure protection, data privacy and governance of sensitive information, cross border compliance, and regulatory reporting.
Attendee Duty of Care: API recognizes the safety of all of those in-person at the 2024 API Pipeline Conference and Expo as a top priority. API is committed to following CDC, local government agencies, and the Hyatt Regency Salt Lake Covid-19 health and safety guidelines for hosting in-person events. By attending the 2024 API Pipeline Conference and Expo in Salt Lake City, Utah, you agree to comply with all Covid-19 health and safety guidelines adopted by API, that have been recommended by the CDC, local government agencies and the Hyatt Regency Salt Lake. Your acceptance of the Attendee Duty of Care is a condition of registration and participation in the 2024 API Pipeline Conference and Expo.
Technical Session Listing

Technical Session

50-in-5: How We Can Cut Underground Utility Damages in Half by 2028
A comparison of EMAT reported, lab UT measured against actual and impact to crack assessment
A discussion on Leak Detection KPIs
A Model Based Approach to Testing Leak Detection in a Runtime Environment
A Standardized Approach to Transmission Tracking and Traceability
A Transformative Real-Time Solution Shaping the Future of Control Room Operations in Pipeline Industry
Achieving optimal levels of uncertainty and conservatism in the integrity management of metal loss anomalies
Advanced Permanent Remote Pig Tracking
Alarm Management Implementation Challenges and Best Practices
An Operator’s Perspective using more Edge devices within an Operational Technology (OT) environment for pipeline leak detection.
Analytical View of PHMSA CRM Enforcement Cases
Anhydrous Ammonia Pipeline Experience in the United States
API RP 1185 – What Is It and What Does It Mean for Pipeline Public Engagement?
API RP 1185 is Published. Now What? (PANEL)
Application and Evaluation of a Novel Drone-Based Approach to Measuring Pipeline Burial Depth
Application of rule-based logic to improve integrated external sensing systems and decision quality for Control Room Operations
Assessing Consequences of CO2 Releases Using a Range Qualitative to Quantitative Approaches
ASSESSMENT OF ABRASION RESISTANCE OVERLAY (ARO) WRAPS FOR HORIZONTAL DIRECTIONAL DRILLING (HDD)
Benefits and risks of Adoption of AI and ML technology in the pipeline control room
Best Practices and Trends in Measuring Controller Workload
Biodiversity as Market Differentiation: Exploring cost efficiencies and risk reductions
Breaking Silos in Control Room Business Processes
Case Study: Modernizing SCADA System To Deliver Operational Excellence for the Midstream/Oil and Gas Industry
CECONY Transforming Training using Operator Training Simulator
CO2 Pipeline Safety and the Importance of Meaningful Public Engagement

Click here for the latest info
Technical Session Listing

Technical Session
Communicating Risk, Consequence, and Very Unlikely “Bad Days” Using Dispersion Models
Compliance with API 195.417 Rupture detection classification
Computational solution for gas network daily planning and automated linepack boundaries calculation

Control Room Automation
Control Room Lessons I Learned While Providing Litigation Consulting
Control Room Roundtable
Converging Gas Pipeline Modeling and Commercial Excellence: A Seamless Integration
Crack Assessment Requirements for Liquid and Gas Pipelines
CRM Compliance Documentation Requirements: What is Required and What Is Not?

Cybernetics Roundtable
Data Management for Pipeline Safety and Asset Knowledge Management
Developing Carbon Dioxide and Hydrogen Pipelines Amid Regulatory Uncertainty
Digital Field Operations Apps and Dashboards - Providing a More Agile Way of Working
Dispersion modeling and determination of impact zones for CO2 pipelines
Driving Growth and Innovation - Applying maxOPT & leanOPT Optimization Technologies at Phillips 66
Driving innovation and disruptive knowledge transfer for the Next Generation of Energy Workers.
DWS Case Study: A Focus on Social & Governance in ESG reporting
Effective Analysis of Column Separation
Elastic-Plastic Finite Element Analysis Utilizing Detailed Crack Profiles
Enhancing Leak Location Estimation Accuracy using Pressure Gradient Intersection Technique via Data Analytics
Ensuring Continued Leak Detection Performance Through Holistic Monitoring
Ensuring Pipeline safety for Carbon capture and Storage (CCS) through Real-time monitoring and leak detection
Environmental Justice: An Introduction to Regulatory Methodologies and Proactive Industry Response
Examining the Effect of Flattening CVN Impact Specimens
Facilitating Effective Alarm Management

Track
Pipeline | Stakeholder Engagement & Outreach
Cybernetics Leak Detection program and Operator Trainer System
Cybernetics ML Automation
Cybernetics ML Automation
Control Room | Control Room Management Best Practice Share
Control Room | Control Room Management Best Practice Share
Pipeline | Operational Excellence
Pipeline | Operational Excellence
Control Room | Regulatory Interpretations & Inspection Findings
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Pipeline | Stakeholder Engagement & Outreach
Pipeline | Operational Excellence
Control Room | Alarm Management

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Technical Session Listing

Technical Session
Facility Leak Detection Leveraging Artificial Intelligence and Operational Cameras
Factors to consider when determining suitability of Engineering Critical Assessment per 192.712 (c)
Fatigue Assessment of Pipeline Ovalities Discovered During Construction
Fiber Optic LD System Operationalization
Flow assurance through the implementation of a pipeline program cleaning with pigs
Ground Disturbance Detection Using Distributed Fiber Optic Sensing to Safeguard Pipeline Integrity
Ground flow patterns of simulated gas leaks from buried pipelines in field conditions
How can Companies Meet the Changing Needs of Controllers?
How to Prove A Gut Feeling: Analyzing Third-Party Damage Threat Using Weighted Overlay Analysis
How to Train over 18,000 First Responders
Human Behavioral Aspects on Operator Training System: a New Approach
Human Capital & The Regulatory Environment
Hydrogen Blended Natural Gas Flow Measurement Challenges for Local Distribution
Hydrotesting in the modern world - What are we looking for?
Impact of a Comprehensive Offline Trainer for Liquid Pipeline Operations
Improving business and operational efficiencies of scheduling liquid hydrocarbon pipelines
Improving Remote Detection, Verification and Assessment of Liquid/Hydrocarbon Leaks using AI Vision with Quantification
Increasing Pipeline Profitability by Optimizing Movement Cost
Increasing Valve Regulatory Conformance and Inspection Preparation Through Valve Maintenance; Schedule Theory
In-line inspection of non-piggable pipelines using self-propelled UT technology
Innovative Non-Destructive Toughness Testing Methods
Innovative pipeline integrity solution with self-monitoring Smartpipe® replacement in DOT Class 3 location
Innovative Solutions for Decarbonization of a Subsea Pipeline Network
Integrated Monitoring with PI and Machine Learning Algorithms for Generation of Operational Alerts in Gas Transport
Integrating LiDAR into Geohazard Management Program

Track
Pipeline | Technology & Innovation
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Cybernetics | External Leak Detection Advancements
Pipeline | Operational Excellence
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Control Room | Emerging Tech & the Future Workforce
Pipeline | Technology & Innovation
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Pipeline | Low Carbon Energy Outlook
Pipeline | Operational Excellence
Control Room | Team Training
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Pipeline | Low Carbon Energy Outlook
Cybernetics ML Automation
Control Room | Control Room Management Best Practice Share
Pipeline | Operational Excellence

Technical Session Listing

Technical Session

Integrating MQTT into Modern SCADA

Cybernetics | SCADA

Integrity insights and spend optimization with analytics

Pipeline | Operational Excellence

Leak Detection Program KPI Metrics

Cybernetics Leak Detection program and Operator Trainer System

Leveraging Low-field In-Line Inspection Technology to Enhance Hard Spot Pipeline Integrity Management

Pipeline | Technology & Innovation

Locating a lost/stuck pig in a pipeline using XLI PWA technology

Pipeline | Technology & Innovation

Loss of Primary Containment Assurance and Optimization of Risk Treatment

Pipeline | Operational Excellence

Managing Pipeline Depth of Cover Concerns Within Tillable Fields Through Conservation Agriculture Programs

Pipeline | Stakeholder Engagement & Outreach

Manual Pipeline Operations – Staffing for Control Room & Field Personnel

Control Room | Control Room Management Best Practice Share

Marathon’s approach to meeting the TSA CIP and CAP requirements

Cybernetics | Cybersecurity

Maximizing Output of Fluid Pipelines and Environmental Responsibility; Balancing Strategies for the Future

Pipeline | Environmental, Social & Governance

Microwave Inspection Development and Evaluation for Spoolable Composite Pipe

Pipeline | Technology & Innovation

Modernizing Aerial Patrol - First Detection of a Real Seep Leak, Encroachments, and Exposed Pipes

Pipeline | Technology & Innovation

Modernizing Pipeline Inspection: Above Ground Marker (AGM) Data Alignment for Accurate Geohazard Pipe Movement Identification

Pipeline | Technology & Innovation

Multi-application use of edge compute in large scale midstream operations

Pipeline | Operational Excellence

Natural Gas Regulatory Update

Pipeline | Operational Excellence

Navigating Diverse Outcomes from CRM Inspections

Control Room | Regulatory Interpretations & Inspection Findings

Operational continuity in the event of a total failure of the SCADA system

Control Room | Control Room Management Best Practice Share

Operational Integrity of Valve Auxiliary Fittings, Performance and Design

Pipeline | Technology & Innovation

Operator Wellbeing in Control Rooms: A Vital Priority

Control Room | Emerging Tech & the Future Workforce

OPEX Optimisation for Un-Piggable Vent Line/Low Flow Pipeline Inspection via Self-Propelling Robotic ILI Tool

Pipeline | Operational Excellence

Over 2100 pipeline thefts detected – What should you look for?

Cybernetics | Internal Leak Detection Advancements

PANEL on Best Practices for Strengthening Company Culture

Pipeline | Workforce Development

Panel Session: What’s Next for the Low Carbon Energy Future? (5 Part)

Pipeline | Low Carbon Energy Outlook

PHMSA Rupture Mitigation Valve Rule: Role of Consequence Modeling to Meet New Requirements

Pipeline | Technology & Innovation

Pipeline Integrity Operation Windows for Energy Transition

Pipeline | Operational Excellence

Pipeline Leak Detection for Energy Transition

Cybernetics | Internal Leak Detection Advancements
Technical Session Listing

Technical Session

Pipeline Mechanical Protection: HDPE as an alternative to Concrete Slab

Pipeline Safety Management Systems (SMS): Contractor Assessment Tool and Contractor Assessment Program Pilots

Pipeline SMS Practice Exchange

 Pipelines and Voluntary Conservation Agreements for Endangered and At-Risk Species

Planning for Preventive and Mitigative Actions: A Data-Driven Strategy to Address Risks

PRCI Research Results: Project EC-08-11, Pipeline Cathodic Protection Monitoring Using Real Time Current Measurement

Precision in Action: Mastering Leak Detection through optimal Tuning in CPM systems

Predictive Analytics Model for Natural Gas Transportation Consumption

Process for pipeline stand-up pressure test: a reliable method for integrity verification

Protect Pipes from Over Pressure during Purge at Phillips 66

RAM Analysis (Reliability, Availability, and Maintainability) of the OBATI Pumping System

Real-Time Optimization Solution Driving Sustainable Growth in Liquid Pipeline Operations

Safety Algorithm: Development of a Risk Indicator to Aid in Safety Program Evaluation

Simulating Leaks to Satisfy API 1130 Testing Requirements

Simulation of Anthropogenic CO2 in CPM Leak Detection Systems

Smart Alarm Management

State and Federal TVC Audit Preparedness

State-of-the-Art NDE QAQC Automation Software Tool Development

Step One - Define Engagement

Stratus Technologies and Colonial Pipeline Partnership: Enhancing Edge Compute Considerations for Pipeline Operations and Cybersecurity

Sustainable Landscapes Progress and Lessons Learned

Team Training Best Practices

Team Training, Operational Collaboration during normal, abnormal, or emergency operations.

The California Pipeline Emergency Responder Initiative Program (CAL PERI), New Beginnings

The Future of Operational Excellence - Applying pipeBOT Automation Technology at Phillips 66

The Importance of an Integrated Management System to Drive Safety Outcomes

The Journey from Paper to Electronic Outreach: Lessons Learned From Challenging the Status Quo

Track

Pipeline | Technology & Innovation

Pipeline | Operational Excellence

Pipeline | Operational Excellence

Pipeline | Environmental, Social & Governance

Pipeline | Operational Excellence

Pipeline | Technology & Innovation

Cybernetics | Internal Leak Detection Advancements

Cybernetics | ML Automation

Cybernetics | External Leak Detection Advancements

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Cybernetics | Operational Excellence

Cybernetics | Operational Excellence

Cybernetics | Operational Excellence

Cybernetics | SCADA

Cybernetics | Operational Excellence

Cybernetics | Operational Excellence

Pipeline | Stakeholder Engagement & Outreach

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