



## 2023 API Pipeline Conference and Expo: Pipeline, Control Room, and Cybernetics

Monday, May 1, 2023 – Wednesday, May 3, 2023 | JW Marriott | Nashville, Tennessee

**Current as of Friday, April 7, 2023** | Subject to change | Final program will be available in Attendee Hub App.

<b>Sunday, April 30</b>	<b>Time (Central)</b>	<b>Location</b>
<b>Registration</b>	3:00 PM – 6:00 PM	Griffin Prefunction North
<b>Sponsor &amp; Exhibitor Display – Setup</b>	3:00 PM – 5:00 PM	Griffin EFGH
<b>DEI&amp;A and Appreciation Reception (Invite only)</b>	5:00 PM – 7:00 PM	Belle Meade I & II

<b>Monday, May 1</b>	<b>Time (Central)</b>	<b>Location</b>
<b>Registration</b>	6:30 AM – 5:00 PM	Griffin Prefunction North
<b>Sponsor &amp; Exhibitor Display – Setup</b>	6:30 AM – 7:00 AM	Griffin EFGH
<b>Breakfast</b>	7:00 AM – 8:00 AM	Griffin EFGH
<b>Sponsor &amp; Exhibitor Display</b>	7:00 AM – 6:30 PM	Griffin EFGH
<b>Keynote Session</b> <b>Presenter: Steve Mesler, American Olympian, and Co-founder of Classroom Champions</b>	8:00 AM – 10:00 AM	Griffin ABCD
<b>Morning Refreshments</b>	10:00 AM – 10:30 AM	Griffin EFGH
Lessons Learned – Are we following through?	10:30 AM – 11:00 AM	Symphony B
New Gathering Pipeline Regulations an Operator's Perspective to Achieve Operational Excellence!	10:30 AM – 11:00 AM	Symphony C
Hydrogen and CO2: Expanding Opportunities for the Pipeline Sector	10:30 AM – 11:00 AM	Symphony D
Essential Elements and Guidelines to Perform a Dent Engineering Critical Assessment	10:30 AM – 11:00 AM	Symphony E
Pipeline Integrity and Leak Detection Verification and Validation Advancements	10:30 AM – 11:00 AM	Symphony F
The Future is Now: Modern Recruitment and Retention Strategies to Create and Maintain a Diverse and Equitable Workforce	10:30 AM – 11:00 AM	Harpeth I & II
The Difference in Today's RP 1162	10:30 AM – 11:35 AM	Symphony A
Demonstration of PSMS Voluntary Information Sharing (VIS)	11:05 AM - 11:35 AM	Symphony B
API 1188 – A Strategic Approach to Facility Risk	11:05 AM - 11:35 AM	Symphony C
Dent Fatigue Life Assessment – Proposed Modifications to API RP 1183	11:05 AM - 11:35 AM	Symphony E



Considerations for Crack ILI Response in Hazardous Liquids Pipelines	11:05 AM - 11:35 AM	Symphony F
'Moving from task-based to competency-based talent management: Case Study'	11:05 AM - 11:35 AM	Harpeth I & II
Panel: Opportunities and Challenges in the Build-out of CO2 Pipeline Infrastructure	11:05 AM - 12:10 PM	Symphony D
Engagement – art or science?	11:40 AM - 12:10 PM	Symphony A
Enhancing Contractor Management through PSMS and Safety Culture	11:40 AM - 12:10 PM	Symphony B
A Regulatory Compliance Management Process to Enhance Pipeline Safety and Compliance	11:40 AM - 12:10 PM	Symphony C
The Road Ahead for Pressure Cycling: A Pressure Cycling Fatigue Analysis Application	11:40 AM - 12:10 PM	Symphony E
In-Line Inspection Performance for Mechanical Damage with Coincident Features	11:40 AM - 12:10 PM	Symphony F
STEM Skills Readiness	11:40 AM - 12:10 PM	Harpeth I & II
<b>Lunch</b>	12:00 PM - 1:20 PM	Griffin EFGH
Youth are Critical Stakeholders	1:30 PM – 2:00 PM	Symphony A
Connecting PSMS With Our Field Work Force [Boots on the Ground]	1:30 PM – 2:00 PM	Symphony B
Lessons Learned from Girth Weld Failures of Newly Constructed Pipelines and Industry Responses	1:30 PM – 2:00 PM	Symphony C
Characteristics of Energy Efficient, Low Carbon Intensity Pipeline Systems	1:30 PM – 2:00 PM	Symphony D
Nondestructive Testing for Toughness of Vintage ERW Pipes	1:30 PM – 2:00 PM	Symphony E
Know Your Pipeline with UHR MFL/Cal ILI	1:30 PM – 2:00 PM	Symphony F
The Normalization of Excellence: A Critical Success Model	1:30 PM – 2:00 PM	Harpeth I & II
From Public Awareness to Stakeholder Engagement: A Technology Solution	2:05 PM - 2:35 PM	Symphony A
SMS: Making It Work!	2:05 PM - 2:35 PM	Symphony B
Improvement in Hydrotest Procedure and Practice at Phillips 66	2:05 PM - 2:35 PM	Symphony C
Girth Weld Reinforcement with Type B Sleeves	2:05 PM - 2:35 PM	Symphony E
Unprecedented Insight into In-Line Inspection Analytics	2:05 PM - 2:35 PM	Symphony F
ADVANCING SUSTAINABILITY AND SAFETY: A legacy and path forward from manufacturing and production safety practices to new equipment solutions -- SAFELY HOME. EVERYONE. EVERY DAY.	2:05 PM - 2:35 PM	Harpeth I & II
Panel: PSMS Industry Updates & Industry Panel Discussion	2:05 PM - 3:10 PM	Symphony D
Protecting the Public and Earning Their Trust: Mitigating Agricultural Risk	2:40 PM - 3:10 PM	Symphony A
Investigation of Facility Microbiological Induced Corrosion Failures	2:40 PM - 3:10 PM	Symphony B



Waterway Modeling is Key in Determining Impacts or Proper Remediation	2:40 PM - 3:10 PM	Symphony C
Pipeline Stacked Cracks Interaction Burst Pressure Analysis Using 3-D Crack Meshes	2:40 PM - 3:10 PM	Symphony E
Improvement of ILI Sizing Accuracy for Problematic Corrosion Profiles (PHMSA Project)	2:40 PM - 3:10 PM	Symphony F
Next Generation Credentialing	2:40 PM - 3:10 PM	Harpeth I & II
<b>Afternoon Refreshments</b>	3:10 PM - 3:30 PM	Griffin EFGH
Guidance for Forming Industry User Groups to Enhance Innovation and Collaboration	3:30 PM – 4:00 PM	Symphony A
Tyranny of TRIR as a Measure of Safety Performance	3:30 PM – 4:00 PM	Symphony B
Geographic Response Plan for Pipeline Water Crossings	3:30 PM – 4:00 PM	Symphony C
Integrity Data in BI Dashboards Drives Engineering Insights and Program Performance	3:30 PM – 4:00 PM	Symphony E
Potential Safety and Integrity Challenges of Hydrogen Pipelines Subjected to Geohazards Loading	3:30 PM – 4:00 PM	Symphony F
Fatigue Risk Management for Pipeline Operations: Proactive Strategies for a Safe, Efficient, & Happier Workforce	3:30 PM – 4:00 PM	Harpeth I & II
Panel: OQ Panel Discussion on Performance Based Tasks Featuring PHMSA and Members of the API OQ Working Group	3:30 PM – 4:35 PM	Symphony D
Modernizing Stakeholder Communications and Engagement	4:05 PM - 4:35 PM	Symphony A
Developing the Next Generation of Lifesaving Damage Prevention Practices and Metrics	4:05 PM - 4:35 PM	Symphony B
Impacts of Updated 49 CFR 192 Requirements for Pipeline Corrosion Control	4:05 PM - 4:35 PM	Symphony C
Integrated External Corrosion Management - Using Digital Twins	4:05 PM - 4:35 PM	Symphony E
Impact of CO2 Impurities on Corrosion of Pipelines Transporting Dense Phase CO2	4:05 PM - 4:35 PM	Symphony F
In Situ Sorption/Bioremediation Ideal for Pipeline Releases	4:05 PM - 4:35 PM	Harpeth I & II
Opportunities in Public Awareness Outreach	4:40 PM - 5:10 PM	Symphony A
Safe Autonomous Operation of Liquids Pipelines Using pipeBOT	4:40 PM - 5:10 PM	Symphony B
What's in Your Audit?	4:40 PM - 5:10 PM	Symphony C
Applying API 1173 to Assess Controls related to New Regulations	4:40 PM - 5:10 PM	Symphony D
Application of Volatile Corrosion Inhibitors (VCI)	4:40 PM - 5:10 PM	Symphony E
Regulations and Integrity Requirements of Supercritical CO2 Pipelines	4:40 PM - 5:10 PM	Symphony F
How to integrate Operator Qualification (OQ) into your O&M Competency Management Program	4:40 PM - 5:10 PM	Harpeth I & II
<b>Welcome Reception</b>	5:15 PM - 6:45 PM	Griffin EFGH



<b>Tuesday, May 2</b>	<b>Time (Central)</b>	<b>Location</b>
<b>Registration</b>	7:00 AM – 5:00 PM	Griffin Prefunction North
<b>Sponsor &amp; Exhibitor Display</b>	7:00 AM – 3:00 PM	Griffin EFGH
<b>Breakfast</b>	7:00 AM – 8:00 AM	Griffin EFGH
<b>Keynote Session and DEI&amp;A Panel</b>  <b>Presenter: Cynthia Hanson, Enbridge Executive Vice President and President, Gas Transmission and Midstream</b>	8:00 AM – 9:30 AM	Griffin ABCD
<b>Morning Refreshments</b>	9:30 AM – 10 AM	Griffin EFGH
GIS Technologies for Responsive Pipeline Engineering and Design	10:00 AM - 10:30 AM	Symphony A
Maximize Sustainability and Safety with CruxOCM's Advanced Automation Solutions	10:00 AM - 10:30 AM	Symphony B
ESG Update for the Pipeline Industry	10:00 AM - 10:30 AM	Symphony C
Evolving the Pipeline Landscape	10:00 AM - 10:30 AM	Symphony E
Using Digital Image Correlation Technology to Enhance Learnings from Traditional Pipeline Integrity Testing	10:00 AM - 10:30 AM	Symphony F
Recent Advances in Automated Threat Detection and Reporting on Routine Aerial Patrol	10:00 AM - 10:30 AM	Harpeth I & II
Panel: RP 1185: What Is It and How Will It Help?	10:00 AM - 11:05 AM	Symphony D
Operational Digital Platforms for Offshore Operators	10:35 AM - 11:05 AM	Symphony A
High Consequence Areas: Location Matters	10:35 AM - 11:05 AM	Symphony B
Consequence Modeling of Releases from Carbon Dioxide (CO2) Transport Pipelines	10:35 AM - 11:05 AM	Symphony C
Storage Tank Vapor Assessment	10:35 AM - 11:05 AM	Symphony E
Further Advances in DAS for Ground Subsidence and Temperature Monitoring	10:35 AM - 11:05 AM	Symphony F
Damage Prevention and ROW Integrity 2.0: Analysis of First Multi-operator Operational Campaign	10:35 AM - 11:05 AM	Harpeth I & II
Advances Considering Technology Readiness, Regulations, and Commercialization	11:10 AM - 11:40 AM	Symphony A
Wildland Fire Smoke Plume and Hurricane Forecasting	11:10 AM - 11:40 AM	Symphony C
Reshaping geohazards	11:10 AM - 11:40 AM	Symphony F
Satellite Remote Sensing Data Analytics for Operational Monitoring of Pipeline System	11:10 AM - 11:40 AM	Harpeth I & II
Panel: Energy for Ecosystems – Driving Sustainable Operations through Proactive Pipeline Right of Way Maintenance	11:10 AM - 12:15 PM	Symphony D



Effects of Surface Loading on Pipeline Integrity	11:45 AM - 12:15 PM	Symphony A
PFAS Risk Management for Energy	11:45 AM - 12:15 PM	Symphony C
Real World Use Cases of Oil Spill Modeling in Rivers and Lakes	11:45 AM - 12:15 PM	Symphony E
Visualization of Geohazard Movement Assessments Using Google Earth	11:45 AM - 12:15 PM	Symphony F
Using Satellites for Enhanced Leak and Risk Id., ESG Performance, Compliance & Trust	11:45 AM - 12:15 PM	Harpeth I & II
<b>Lunch</b>	12:15 PM - 1:20 PM	Griffin EFGH
Panel: The State of Security	1:30 PM – 2:35 PM	Griffin ABCD
<b>Afternoon Refreshments</b>	2:40 PM – 3:00 PM	Griffin EFGH
Improving the Effectiveness of Team-Based Leak Detection Alarm Response	3:00 PM - 3:30 PM	Symphony A
API RP 1175 impact on Transpetro’s Leak Detection Program	3:00 PM - 3:30 PM	Symphony B
The Good, the Bad and the Grey Screen: A Human Factors Approach to SCADA HMI Design and API RP 1165 Compliance	3:00 PM - 3:30 PM	Symphony C
Phillips 66 Company Midstream Cyber Security Risk-Based Controls	3:00 PM - 3:30 PM	Symphony D
Dissecting Alarm Management Definitions	3:00 PM - 3:30 PM	Symphony E
Effective Scheduling to Maintain Operations	3:00 PM - 3:30 PM	Symphony F
Transform Your Control Room into the future with RIPA Technology	3:00 PM - 3:30 PM	Harpeth I & II
Who should be the focus of Control Room team training – the people that control the assets, or the people that may provide key information and decision-making input?	3:35 PM - 4:05 PM	Symphony A
Leak Detection Key Performance Indicators and Metric Report Creation	3:35 PM - 4:05 PM	Symphony B
Leveraging Knowledge Management in the Optimization of the Display Lifecycle	3:35 PM - 4:05 PM	Symphony C
Real-Time Data Distribution for Improved Leak Detection and Operational Intelligence in Pipeline Operations	3:35 PM - 4:05 PM	Symphony D
Alarm Segregation and Rationalization Strategies Deployed for Control Room Effectiveness	3:35 PM - 4:05 PM	Symphony E
Control Room Management Audit Preparation and Effectiveness	3:35 PM - 4:05 PM	Symphony F
CRM as the Controller Assistant – Collaboration and Compliance	3:35 PM - 4:05 PM	Harpeth I & II
Realtime Dataset Transfer for Offline Training and Predictive Modeling	4:10 PM - 4:40 PM	Symphony A
A Forty Year Perspective on Pipeline Leak Detection Technologies, Recommended Practices, and the Evolution of Current Regulations	4:10 PM - 4:40 PM	Symphony B
Simplifying Effective Control Room Alarm Management	4:10 PM - 4:40 PM	Symphony E



Reducing cost of point-to-point checkouts	4:10 PM - 4:40 PM	Symphony F
Securing the gas supply and making the industry sustainable with advanced technologies	4:10 PM - 4:40 PM	Harpeth I & II
Panel: Cybersecurity	4:10 PM – 5:15 PM	Symphony D
Pipeline Leak Evaluation and Management	4:45 PM - 5:15 PM	Symphony B
Trends in Controller Workload Over the Years	4:45 PM - 5:15 PM	Symphony F
Transpetro’s new concept of a logistics integrated Control Center	4:45 PM - 5:15 PM	Harpeth I & II
<b>Networking Reception</b>	5:30 PM – 7:00 PM	Griffin ABCD

<b>Wednesday, May 3</b>	<b>Time (Central)</b>	<b>Location</b>
<b>Registration</b>	7:00 AM – 12:00 PM	Griffin Prefunction North
<b>Breakfast</b>	7:00 AM – 8:00 AM	Symphony Prefunction North
Monitoring of High-Pressure Gas Pipelines using Fiber Optic Sensing	8:00 AM - 8:30 AM	Symphony A
How to replace CPM pipeline leak detection systems effectively?	8:00 AM - 8:30 AM	Symphony B
Understanding and Teaching Hydraulics to Improve Controller Performance in Identifying Pipeline Leaks	8:00 AM - 8:30 AM	Symphony E
Improving Display Development in ICS through a Formal Display Life Cycle	8:00 AM - 8:30 AM	Symphony F
Enabling Pipeline Monitoring Through the Retrofit of Cable-Based Technologies	8:35 AM - 9:05 AM	Symphony A
Advantages of Machine Learning-Enhanced Leak Detection over Basic Line Balance	8:35 AM - 9:05 AM	Symphony B
CRM Program – Teams Training Examples	8:35 AM - 9:05 AM	Symphony E
Ensuring CRM Plan Compliance and Effectiveness	8:35 AM - 9:05 AM	Symphony F
Fiber Optic Leak Detection System	9:10 AM - 9:40 AM	Symphony A
Realtime Transient Modeling for Gas Pipelines	9:10 AM - 9:40 AM	Symphony B
Achieving the next level of pipeline intelligence through Virtual Competency Teams	9:10 AM - 9:40 AM	Symphony E
Challenges and Lessons Learned of Implementing an Operations Continuity Plan	9:10 AM - 9:40 AM	Harpeth I & II
CRM Program – Internal Effectiveness Evaluations	9:10 AM - 10:15 AM	Symphony F
An Operator’s Perspective on Validating and Qualifying DFOS Leak Detection System	9:45 AM - 10:15 AM	Symphony A
RTTM based Leak detection system for Energy transition	9:45 AM - 10:15 AM	Symphony B
“Can Everyone See My Screen?” Lessons Learned Conducting Virtual Team Training	9:45 AM - 10:15 AM	Symphony E



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Manual Operations	9:45 AM - 10:15 AM	Harpeth I & II
<b>Morning Refreshments</b>	10:15 AM - 10:30 AM	Symphony Prefunction North
Leak Detection User Roundtable - Industry Discussion	10:30 AM – 12:05 PM	Symphony C
Roundtable on Control Room Management Practices <b>(Operator only)</b>	10:30 AM – 12:05 PM	Symphony D