

1952 - PRCI - 2022

OF, BY, AND FOR THE ENERGY PIPELINE INDUSTRY

Develop innovative solutions that provide for the safest, cleanest, and most efficient transportation and storage of energy via global pipeline systems.

THE 2022 PRCI YEAR IN REVIEW

To collaboratively deliver relevant and innovative applied research to continually improve the global energy pipeline systems.



MARK GEBBIA, CHAIRMAN

The cornerstone of PRCI is the solid foundation of collaboration devoted to the safety and integrity of the energy pipeline system that includes the resilience of the network. As we move boldly into energy transition, PRCI is well positioned to be the technical resource for our members and the industry.

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CLIFF JOHNSON, PRESIDENT

One of the things that I enjoy most about my job is taking the opportunity to reflect on our successes and opportunities. I have often wondered what our founders would think of the PRCI of today and the growth that we have seen in the last 70 years.

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LETTER FROM THE CHAIRMAN

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In 2020, we developed the Strategic Research Priority (SRP) effort with the goal of identifying and finding solutions to the key issues facing the energy pipeline industry as we advance into the energy transition. The SRPs take a holistic approach by bringing together subject matter experts (SME) from varied areas to address a problem. Currently, we have four SRPs:

1.

Optimize the Detection and Mitigation of Mechanical Damage

2.

Pathway to Achieving Efficient and Effective Crack Management

3.

Green House Gas Emissions Reductions

4.

Advanced Leak Detection

The first three SRPs will be completed in 2024, and Leak Detection is the newest, having been approved in 2022. The safety and integrity of the pipeline infrastructure is a key part of our global economy.

Two of the SRPs are components of PRCI's environmental commitment: Green House Gas Emissions Reduction and Advanced Leak Detection. In conjunction with the PRCI Emerging Fuels Institute (EFI) and the CO2 Task Force, PRCI is providing the solutions needed to ensure the safe and efficient transport and storage of these products. Over the past year, the EFI grew from 4 members to 20. The CO2 Task Force was formed in 2022 to define the research needed for transport and storage of CO2. For me, these efforts are very rewarding as they demonstrate the leadership in this area by PRCI and our members.

As I begin my final year as Chair of Pipeline Research Council International, I am proud of our successes in 2022 and look forward to 2023. I am proud of what PRCI has accomplished in our first 70 years and I am excited to lead us into the next 70 years. Through our collaborations with industry partners around the globe and growing partnerships with key government agencies in North America, PRCI's value and importance for providing technical solutions that ensure the safety and integrity of the global pipeline infrastructure continues to grow as well.

MARK GEBBIA, CHAIRMAN



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KNOWLEDGE TRANSFER

Translating research from scientific methods and laboratory results into practical applications has been a key focus at PRCI in recent years. PRCI webinars provide the industry* with the opportunity to learn firsthand from the research partners and project teams who executed the research on how an operator can benefit from using the research and how best to implement it.

2022 BY THE NUMBERS



- [Numerical Modeling and Full-scale Testing to Evaluate the Performance of Large Standoff Magnetometry](#)
- [Flow Sensors for Continuous Monitoring and Diagnostics for Equipment Efficiency Monitoring](#)
- [CT Fundamentals with Calibration and Reference Standards for Pipeline Anomaly Detection](#)
- [Full Scale Testing of Interactive Dent Features for Improved Models](#)
- [Why Cracks Fail](#)
- [Evaluation of Online Analyzers for Multiple Gas Contaminants - Field Test: PRCI \(Member Only\)](#)
- [Vapor Corrosion Inhibitors Effectiveness for Tank Bottom Plate Corrosion Control - Phase 2](#)
- [Post-Heating as an Alternative to Delayed Nondestructive Examination \(NDE\)](#)
- [Update of PRCI Pipeline Repair Manual 2021 Edition](#)
- [Comparative Analysis of Slope Monitoring Methods Utilizing Remote Sensing Techniques and In-Situ Instrumentation](#)

PRCI WEBINAR LIBRARY

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COMPENDIUMS

PRCI generates research compendiums that assemble PRCI-funded projects and related research by key areas of interest.

2022 COMPENDIUMS

These compendiums are a resource and aid to find completed research on a given topic area, avoiding unnecessary replication or research efforts, and aiding the implementation of this research.

- [PR-000-22COMP-R04 Cathodic Protection Shielding Compendium](#) 
- [PR-000-22COMP-R01 EMAT Pipeline Inspection Compendium](#) 
- [PR-000-22COMP-R02 Pipe Hard Spot Management Compendium](#) 
- [PR-000-22COMP-R03 Potential Impact Radius Compendium](#) 
- [PR-000-21COMP-R01 Pipe Burst Pressure Compendium](#) 
- [PR-000-21COMP-R13 AC Interference and Corrosion Compendium](#) 
- [PR-000-21COMP-R05 Carbon Dioxide Pipelines Compendium](#) 

Key

-  Public Access
-  Members Only
-  Webinar Available
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