

# *Pipeline Research Council International*

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## **The Role of Research in Pipeline Safety**

PHMSA Pipeline Safety Forum  
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President

Washington, DC  
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# Overview

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- **PRCI's Collaborative Model**
- **Research Focus**
- **Moving Forward**

# Pipeline Research Council International

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## PIPELINE

- Natural Gas
- Crude Oil & Petroleum Products
- Biofuels
- CO<sub>2</sub>
- Related Facilities

## RESEARCH

- Knowledge
- Technology
- Deployment & Transfer
- Innovation

## COUNCIL

- Forum for Ideas & Opportunities
- Strong Safety Focus
- Leveraged Funding
- Source of Research Inventory

## INTERNATIONAL

- North America
- Europe
- South America
- Middle East
- Asia
- Australia

# PRCI Membership

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- **33 Energy Pipeline Operating Companies**
  - 22 Natural Gas Transmission; 8 Liquid
  - 3 Liquid/Natural Gas
- **2 Pipeline Industry Organization (PIO) Members**
  - Association of Oil Pipe Lines (AOPL)
  - Operations Technology Development (OTD)
- **23 Associate Members & Technical Program Associate Members**
  - Australia, Canada, China, Europe, Japan, Mexico, U.S.
  - Special Membership – Australian Pipeline Industry Association (APIA)
- **Worldwide Research Organization**
  - 39 U.S. Companies
  - 19 International Companies  
Australia, Brazil, Canada, China, Europe, Mexico, Saudi Arabia
- **Collaborative Research with Government Agencies**

# Pipeline Research Focus

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## ■ Operations & Integrity

- Pipeline Protection and Monitoring
- Threat Analysis and Damage Prevention
- Leak Detection
- Non Destructive Technology Development & Inspection

## ■ Corrosion and Stress Corrosion Management

- Detection, Assessment, Prevention and Management
- Improvement and Enhancement of Cathodic Protection
- Quantitative Risk Assessment

## ■ Design, Materials & Construction

- Materials and Metallurgy
- Welding and Weld Inspection
- Design and Construction
- Structural Integrity Assessment

# 2006-2011 Approved Project Profile

*\*Reflects member costs only, Partnership co-funding not shown*

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	TOTAL
<b>Corrosion</b>	\$6.7 M
<b>Operations and Pipeline Integrity</b>	\$12.4 M
<b>Design, Materials &amp; Construction</b>	\$12.4 M
<b>Compressor and Pump Stations</b>	\$7.4 M
<b>Measurement</b>	\$4.3 M
<b>Underground Storage</b>	\$1.8 M
<b>TOTAL</b>	<b>\$45 M</b>

# Moving Forward

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## ■ Partnerships

- Develop models to increase stakeholder collaboration
- Increase partnerships with stakeholder associations, industry associations and government agencies

## ■ Funding

- Broaden research funding base
- Utilize private and public funding to leverage research dollars

## ■ Research

- Leverage PRCI Technical Committees to target additional research
- Utilize PRCI's collaborative model to focus research on common interests
- Gain Consensus on Priorities – Topically, Sector-based, Regionally

## ■ Implementation

- Assure Transfer of Knowledge – Products, Standards, Best Practices, Rulemaking, & Regulations