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We're pleased to invite you to the next event of the IChemE Western Canada Group / Calgary CSChE Section Meeting.

Understanding the Risks Associated with Frozen Pressure Equipment

Presenter: Rick Marsden - Group Lead of Facility Integrity at Cenovus Energy
Date: September 27, 2016, 17:00
Location: - The Bow, 500 Centre Street SE, Calgary, AB
RSVP: James Harris, wcmgecm@ichememember.org by September 22

Note: Light refreshments will be served.

*The Western Canada IChemE committee suggests a \$5 voluntary donation, (to be used for hosting future events)

This presentation provides an overview of the science behind freezing and how it applies to pressure equipment and process safety. Recent case studies and research are also summarized.

The risks associated with frozen pressure equipment are often not fully understood despite the occurrence of serious industry failures every year. This presentation provides an overview of the science behind freezing and how it applies to pressure equipment and process safety. Recent case studies and research are also summarized.

Working out of his garage in 2012, Rick Marsden began conducting research into the pressures generated in piping that has frozen solid with water. This research evolved into a collaboration with the Department of Mechanical Engineering at the University of Alberta. The research has produced several technical conference presentations as well as a published paper in Applied Thermal Engineering.

Rick has a BSc. Mechanical Engineering, University of Alberta 1991, and is a Sr. Staff Engineer in the Asset Integrity Group at Cenovus Energy where he leads a small group of engineering subject matter experts in materials, piping, welding, forensic and corrosion engineering. His experience in facility integrity issues has been gained through Chief Inspector responsibilities, failure investigations, pressure vessel inspections, corrosion and regulatory codes. Rick is a long time member of several industry committees including the ABSA In-service Inspector task force, International Pressure Equipment Integrity Association (IPEIA) and various CSA Z662 committees. His background includes 25+ years in heavy oil thermal projects (Steam Assisted Gravity Drainage) and combined cycle power plants.