



# ITO HOS<sup>2008</sup>

Heavy Oil: Integrating The Pieces

Conference & Exhibition  
October 20-23, 2008  
Stampede Park Roundup Centre  
Calgary, AB, Canada

## ITO HOS 2008

### Tutorial 12 – Soltech Projects – Underground Storage

- Introduction
- CSA Standards
- CSA Z341-02
- Overview of Underground Storage
- Salt Cavern Storage
- Design & Development Criteria
- Location of Underground Storage Facilities
- Materials of Construction
- Well Completions & Conversions
- Development & Construction
- Surface Facilities
- Monitoring & Measurement
- Operations & Maintenance
- Safety & Environment Issues
- Plugging, Abandonment & Site Restoration

### Instructor's Biography

**Robert Ramsey**, P.Eng., is President of Soltech Projects Inc. He has over 37 years experience in surface facilities design and project implementation. Working both domestically and overseas, Mr. Ramsey has performed all phases of pipeline and oil & gas facilities engineering. He has supervised the operation of treatment facilities and taught operations and maintenance courses. In addition, Mr. Ramsey has 24 years experience in underground storage of hydrocarbons, in both salt caverns and depleted oil and gas reservoirs. He is a member of the technical committee for CSA Standard Z341, Storage of Hydrocarbons in Underground Formations.

**Ian Squires**, P.Eng., is Vice President and Manager of Projects for Soltech Projects Inc. He has worked with both EPC and explorer/producer organizations in project engineering, project management, maintenance and construction roles, with a total of 14 years experience both internationally and in Canada. Mr. Squire's mechanical engineering background, combined with his diversified operations and extensive project management experience, make him a proficient

International Thermal Operations and Heavy Oil Symposium (ITO HOS) - CHOA Annual Business Conference



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senior project manager. He has managed a variety of large oil and gas pipeline and facility projects from conceptualization to completion and handover. Projects include production optimization, gathering system debottlenecking, compression, gas processing, upgrader maintenance and oil batteries. His volunteer activity and active involvement with APEGGA, Engineers Canada (formerly CCPE) and the Calgary Flames Ambassadors serve as an indication of his commitment to the profession of engineering, community involvement and leadership skills.

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