**KEYHOLE PROGRAM MEETING & DEMOS**

**Location:**  
Spring Meeting | April 2 - 3, 2014  
Questar Gas | 2365 W 900 S | Salt Lake City, UT 84119

**Spring 2014 Meeting Agenda – April 2nd & 3rd**

**Wednesday, April 2nd**

7:30 am – 8:00 am  **Coffee and rolls**

8:00 am – 8:45 am  **Welcome and Introductions**
- Review Antitrust Compliance
- Self- introductions, recognize any guests
- Review meeting agenda and solicit additional items to add to agenda
- Circulate roster; update members’ contact information

8:45 am – 9:00 am  **Keyhole Program Overview**
- GTI Keyhole Program Initiatives
- Review and status update of program goals

9:00 am – 10:15 am  **Trenchless Guidelines Best Practices**
- Review recent incidents and discuss (NJ, St. Louis, KC, Royal Oak)
- Trenchless/Vacuum Manufacturers Perspective
  - Ditch Witch presentation
  - Others
- Review of Ontario/CGA Best Practice Development
- Gaps/Next Steps
- Identify Team

**ACTION ITEM FOR ALL** – Attendees to bring to meeting information on current trenchless practices/procedures (company specific and/or State and Local dig laws)

10:15 am – 10:30  **Break**

10:30 am – 11:30  **Training and Education**
- GTI training pilot – mobile training/reference platform
- Planning for what’s next - Training
  - Various audiences
  - Training topics
  - Types of training needed
  - Training operators / contract crews
  - Train the trainer

11:30 – 12:00  **Residual Gas Removal**
- Overview of OTD project related to gas removal
- Questar – Vactron
  - Tim Sheehan to discuss Questar’s efforts with Vactron
Tellus Underground gas removal system

12:00 pm - 1:00pm **Lunch**

1:00 pm – 1:45 pm **GPS/GIS Efforts**
- Tren Giles from Questar will present and discuss mapping process using sub-meter GPS.
- Google Mapping/tracking of excavations and restored pavement

1:45 pm – 2:00 pm **Break**

2:00 pm – 5:00 pm **Manufacturer Demos/Presentations**
- Tracto Technik / TT Technologies Keyhole Drilling machine update
- TT Technologies - 2” IPS & ½” CTS PE pipe splitting
- Vactor Vacuum Excavator (presentation and demo)
- Tellus pot-holing/daylighting vacuum excavation system
- Coring – Utilicor various units (presentation/video)
- Jameson – update on locating and new lighting technology
- Kravitch tooling

**Utility and International Keyhole update**

5:00pm **Adjourn Day 1 Meeting**

6:00 pm – 9:00 pm **Group Dinner:** Squatters Pub
147 W Broadway
Salt Lake City, UT, 84101
(801) 363-2739

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**Thursday, November 14th**

7:30 am – 8:00 am **Coffee and rolls**

8:00 am – 9:00 am **Utility only** roundtable discussions (select presentations based on requests)

9:00 am – 9:30 am **All attendees – Review day 1 discussion topics and Utility only discussions**

10:00 am – 10:30 am **Coating and Wrapping in Keyholes**
- Review of latest coating and wrapping evaluations
  - Expandable Foam – GTI testing updates
• Discussion of future needs

10:30 am – 10:45 am  Break
11:00 am – 11:30 am  Group Roundtable
• Issues and needs
• Recent/current efforts
• Identify action items
• Any R&D needs outside of Keyhole
• Identification of Needs (each attendee to submit 3 needs/issues)

11:30 am – noon  Soil Compaction in Keyhole and Traditional Excavations  
MBW Soil Compaction Supervisor
• Review current OTD project
• Discuss needs/issues

12:00 - 1:00 pm  Box Lunch

1:00 pm – 1:30 pm  Jurisdictional Approval
• Review Municipality support of keyhole
• GIROW update
• Other recent acceptance wins or issues?
• Discuss efforts by others (utilities)
• Needs / issues?

1:30 pm – 2:00 pm  Keyhole and Contractors
• Discuss the latest success and issues with utility contractors implementing keyhole coring
• AGA / DCA Utility Contractor Management on April 29-30 in Chicago
• AGA keyhole Presentation – May Ops Conference

2:00 – 2:30 pm  Review Identified Needs and Prioritize
• Review the individual needs submitted by the attendees
• Identify future priorities for Keyhole Group based on needs identified

Next meeting planning

2:30 pm  Adjourn - THANK YOU!