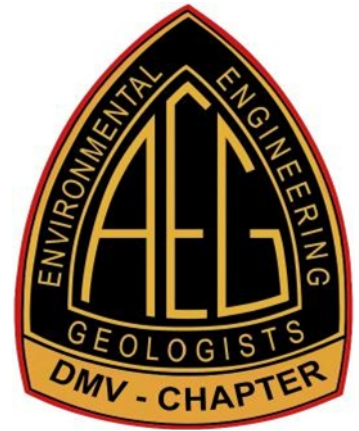
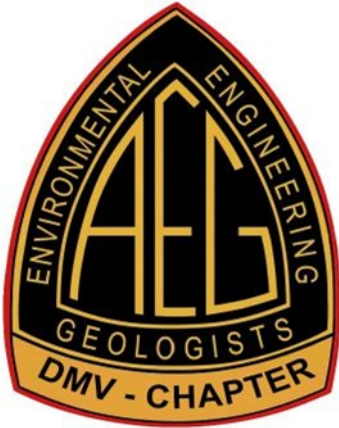


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Notice of Meeting

Wednesday, October 21, 2026

Presentation Category:
Geotechnical - Environmental

Topic:

**Fundamentals, Advantages, and Substitutive Value of
Roto-Sonic Drilling**

Presenter:

**Doug Lindes, General Manager & Tim Gallagher, President/CEO
Enviroprobe Service Incorporated**

Abstract

This presentation provides a comprehensive overview of roto-sonic drilling technology, an advanced drilling method that utilizes high-frequency mechanical vibrations to penetrate geological formations. Over a 25-to-30-minute session, we will discuss the core mechanics of the sonic drill head, which pairs an internal oscillator with standard rotation to create liquefaction in surrounding soil particles. This unique mechanism allows for rapid penetration and near-100% continuous core recovery with minimal friction.

The session will critically examine the core trade-offs of the technology. The primary advantages of roto-sonic drilling include superior structural sampling speed, a drastic reduction in investigation-derived waste (IDW), and reduced fluid requirements. Conversely, we will address its limitations, such as higher initial mobilization costs, equipment wear from intense harmonic resonance, and depth constraints in highly consolidated rock.

Lastly, this presentation illustrates why roto-sonic drilling serves as more efficient alternative to traditional methods like Hollow-Stem Augers (HSA) and Mud/Air Rotary systems. We will analyze the specific shortcomings of these legacy methods—such as the massive waste generation and slow speeds of HSAs, and the formation damage and sample cross-contamination common to rotary drilling. Attendees will leave with a clear framework for identifying project geologies where switching to roto-sonic drilling optimizes both project timelines and data integrity.

About the Presenters:

Doug Lindes, General Manager

Doug started in the public subsurface utility mark out industry in 1997. After moving to the private sector in 2004, he headed utility mapping and GIS management projects with the Port Authority of NY/NJ and NY MTA. After joining Enviroprobe Service in 2008, Doug worked with Enviroprobe's senior geophysicists to complete utility mapping, void detection, resistivity and seismic surveys, and down hole geophysical logging until becoming General Manager in 2020. He now heads up both drilling and geophysical operations and logistics.



Tim Gallagher, President/CEO

Tim founded Enviroprobe Service, Inc. in 1995 with one truck mounted Geoprobe direct push unit that was self operated. He is a licensed driller in NJ, DE, MD, and FL. Through his 30 years of dependable service, he has increased the business to more than 25 environmental and geotechnical drill rigs and over 30 employees mainly based out of NJ and FL. Tim now focuses on day to day operations, business management, and client relationships.

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Visit our website & E-Pay System

<https://www.aeg-bwh.org/ticketpurchase>

Meeting Information

Date/Time:

**Wednesday, October 21, 2026
6:00-8:30 PM**

Meeting Location:

**Brewer's Alley
124 N. Market Street
Frederick, MD 21701**

Parking:

**Church Street Parking Garage
17 East Church Street
Frederick, MD 21701**

Cost (dinner and meeting):

Members:	\$45
Non-members:	\$50
Retiree Members:	\$30
Students:	\$20
Virtual Meeting	\$10

Agenda:

6:00-6:45 PM	Social
6:45-7:30 PM	Dinner
7:30-8:30 PM	Presentation
7:30-8:30 PM	Presentation (Virtual Attendees)

Virtual (Hybrid) Meeting Attendance (via MS Teams)

(Virtual attendees will be sent a meeting attendance link via email prior to the meeting presentation).



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