

**Main Presenter: Seth Matthesen**

**Abstract Title: HDD technology advancements focused on mitigating environmental and carbon footprints**

**Organizations: iMPREG LLC**

**Theme: Environmental Benefits of Using Trenchless Construction Methods; New Products and Materials; Geotechnical and Environmental Considerations**

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**Abstract**

Drilling fluid is essential for completing any horizontal directional drilling (HDD) installation of pipe, duct, or conduit. Drilling fluid--commonly known as "mud"--is composed of water, bentonite or other additives. On today's HDD jobsites, disposing of drilling fluids after an installation is complete can be time consuming and costly. Limiting the volumes of fluid immediately lowers the cost of water and additives and reduces disposal costs. In addition, fluid conservation has other significant benefits. Allowing drilling fluid returns to spread over the work site creates environmental issues and reducing the equipment powered by gasoline engines has a positive impact on the carbon footprint.

This presentation will cover the latest HDD technologies, including a variety of proven recycling systems that impact the reduction of water usage, mitigate jobsite risk and help reduce cost and unneeded disposal of mud returns on the job.

Case study to be included in presentation.