

Methyl-*tert*-butyl ether (MTBE) & Other Fuel Oxygenates Characterization & Remediation Seminar

Description

This is a comprehensive 1-day seminar style training course. The program is ideal for anyone interested in an objective, science-based education on MTBE and other fuel oxygenates assessment and groundwater remediation. Participants shall be introduced to a variety of MTBE and Other Fuel Oxygenates contaminated groundwater topics including, but not limited to: chemical, physical and characteristics; available remediation technologies; technology selection and sequencing; and processes for successful site assessment and remediation.

Course Instructors

Joseph Haas	<i>Global Hydrologic Services, Inc.</i>
Mike Hyman	<i>North Carolina State University</i>
Eric Nichols	<i>LFR</i>

MTBE & Other Fuel Oxygenates Characterization & Remediation Seminar

<u>Start</u>	<u>Time</u>	<u>Topic</u>	<u>Speaker(s)</u>
7:30	30 min	Registration	
8:00	5 min	Welcome and Introduction	Joe Haas
8:05		History, Nature and Detection of MTBE and Other Fuel Oxygenates	
	20 min	- History of Fuel Oxygenates	Mike Hyman
	40 min	- Physical Properties - Sampling and Analytical Methods	Mike Hyman
9:05	40 min	Sources, Plume Formation and Site Conceptualization Scenarios	Eric Nichols
9:45	45 min	Site Characterization Tools and Case Study: "A Cost Effective Expedited Site Characterization Methodology (Triad Plus)"	Joe Haas
10:30	15 min	(Break)	
10:45	45 min	Principles of Fuel Oxygenate Biodegradation	Mike Hyman
11:30	25 min	Groundwater Pump and Treat	Eric Nichols
11:55	60 min	Lunch	
12:55	25 min	Groundwater Pump and Treat	Eric Nichols
1:20	25 min	Pump & Treat Case Study: "Smart Pump & Treat for MTBE Impacting A Public Drinking Water Supply Well"	Joe Haas
1:45	40 min	Ex-Situ Treatment Aeration Sorption Advanced Oxidation	Eric Nichols
2:25	35 min	Ex-Situ Bioremediation	Mike Hyman
3:00	30 min	Combined Air Stripping – BioGAC vs HiPox: Ex-situ treatment case studies	Joe Haas
3:30	15 min	(Break)	
3:45	35 min	In-Situ Bioremediation Alternatives Aerobic Bioaugmentation Co-substrate Addition Oxygen-only Addition Anaerobic	Mike Hyman
4:20	35 min	Air Sparging / In Situ Bioremediation Case Study	Joe Haas
4:55	15 min	ISCO	Eric Nichols
5:10	15 min	ISCO Case Study	Eric Nichols
5:25	5 min	Q&A	Joe Haas, Mike Hyman, Eric Nichols
5:30		Adjourn	