



Petroleum Hydrocarbons and Organic Chemicals in Ground
Water®: Prevention, Assessment, and Remediation Conference

Preconference Workshop

Petroleum Vapor Intrusion Workshop (5040x)

August 17, 2005 ♦ Costa Mesa, California

Moderators: Paul Lundegard, Unocal and Harley Hopkins, American Petroleum Institute

The goal of this 1-day workshop is to provide attendees with an opportunity to discuss key issues about the petroleum hydrocarbon vapor intrusion pathway with guidance writers, technical experts and regulators. The workshop will highlight guidance documents in preparation and technical approaches for understanding petroleum vapor behavior in the subsurface.

Confirmed Speakers and Topics

California Perspective on Vapor Intrusion—Dan Gallagher, Geological Services Unit, Department of Toxic Substances Control, California Environmental Protection Agency

Mr. Gallagher will provide an overview of the DTSC guidance document and how the guidance applies to petroleum sites, describe the top issues raised in the comments received on the guidance, and discuss plans for its revision.

EPA Vapor Intrusion Guidance—Henry Schuver, Office of Solid Waste, U.S. Environmental Protection Agency

Mr. Schuver will summarize anticipated changes to the 2002 guide including: revision of attenuation factors, use of modeling, approach to indoor sampling, and applicability of the guidance to petroleum hydrocarbon sites.

Vapor Intrusion Initiatives by the EPA Office of Underground Storage Tanks—Joe Vescio, Office of Underground Storage Tanks, U.S. Environmental Protection Agency

Mr. Vescio will summarize OUST's current vapor intrusion activities and plans for additional data collection.

ITRC Vapor Intrusion Guide—Bill Morris, Kansas Department of Health and Environment; John Boyer, New Jersey Department of Environmental Protection

Mr. Boyer and Mr. Morris will provide an overview of the ITRC process, introduce ITRC's online state VI survey and describe the features and significance of the ITRC guidance.

Biodegradation of Petroleum Hydrocarbons in the Vadose Zone—Blayne Hartman, H&P Mobile Geochemistry

Dr. Hartman will discuss field strategies for collecting evidence of petroleum hydrocarbon biodegradation.

An Analysis of Vapor Intrusion Data From Petroleum Hydrocarbon Sites—Robin Davis, Utah Department of Environmental Quality

Ms. Davis will summarize evidence for bioattenuation compiled from published sources and highlight data gaps.

Proposed Data Collection to Support Sound Screening for Vapor Intrusion to Indoor Air at Petroleum Sites—Harley Hopkins, American Petroleum Institute

Mr. Hopkins will provide an overview of a strategy for improving the current empirical database of sites used to understand the significance of petroleum vapor migration to buildings.

Examining Vapor Intrusion Investigation Methods—Thomas McHugh, Groundwater Services Inc.

Dr. McHugh will present some investigative alternatives to VOC sampling (e.g., measuring pressure gradients and using radon as a tracer) and will discuss the robustness of current VI investigation techniques.

Advection Beneath a Residential Building—Paul Lundegard, Unocal

Dr. Lundegard will discuss the use of pressure and O₂ monitoring to observe air movement beneath a house.

Modeling the Effect of Aerobic Biodegradation on Vapor Intrusion—Lilian D.V. Abreu, GeoSyntec Consultants

Dr. Abreu will discuss the results of a modeling investigation to examine the significance of aerobic biodegradation in vapor attenuation, relative to the no-degradation case, as a function of vapor source strength and depth, kinetic parameters, building construction and crack location for sources located directly beneath a building or at some lateral distance. Dr. Abreu will also suggest additional scenarios that could be modeled in the future.

CEUs

.8 continuing education units

Fees

NGWA member —\$250.00

Nonmember —\$350.00

Student—\$100.00

Prices valid for the August 2005 offering only

Location

Hilton Costa Mesa
3050 Bristol Street
Costa Mesa, CA 92626
714 540.7000

Accommodations

NGWA has secured a limited block of rooms on a first-come, first-serve basis at the group rate of \$129/night single or double for the nights of August 16-18. Our room block will be held until July 27th. After this date rooms will be filled on a space and rate available basis only. For reservations, call 714 540.7000 or 800-HILTONS and reference the National Ground Water Association room block.

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