



WOMA is a member of the Western Petroleum Marketers Association (WPMA)

August 10, 2015

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## Department of ECOLOGY: State of Washington – Petroleum Contamination Training

### Course Overview

Light, nonaqueous-phase liquid (LNAPL) assessment and remediation presents a significant challenge for corrective action and cleanup at petroleum processing, storage, and handling facilities such as refineries, bulk product terminals, gas stations, airports and military bases. Once in the subsurface, LNAPLs can be difficult to adequately assess and remediate. The result can be long-term risk and exposure issues such as vapor intrusion, groundwater, surface water and soil contamination or other risk sensitive habitat. It may present acute-risk concerns such as explosive conditions or LNAPL may pose aesthetic concerns, or in some cases, pose no risk. In addition, regulatory drivers for LNAPL concerns present challenges to site closure, such as regulations that require recovery of "free product," (*a.k.a.*, "free-phase hydrocarbon" and "liquidphase hydrocarbon") to the agency determined

### Class Date & Location: September 15-16, 2015

Doubletree by Hilton – Seattle Airport  
Seattle (area), WA

hosted by ITRC state member:



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

### Course Outline & Agenda

#### Day 1

7:00 a.m.–8:00 a.m.

- ▶ Participant check in

8:00 a.m.–5:00 p.m.

- ▶ Basics
- ▶ LNAPL Conceptual Site Model

#### Day 2

8:00 a.m.–5:00 p.m.

- ▶ LNAPL Objectives
- ▶ Remediation Technologies
- ▶ Application Exercises

### Registration Instructions

To register, go to [www.itrcweb.org/training](http://www.itrcweb.org/training) and select the registration button associated with the class of interest. Follow the instructions to register and provide payment (if required). If you have questions after viewing the online registration information, please contact the ITRC Training Program at (402) 201-2419 or [training@itrcweb.org](mailto:training@itrcweb.org).

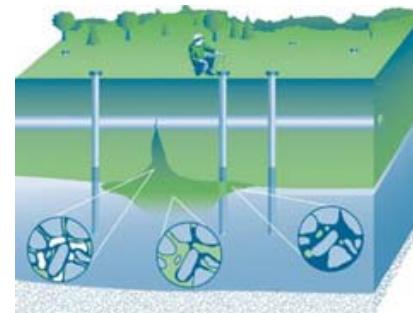
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“maximum extent practicable.” ITRC offers this 2-day classroom training course, based on ITRC’s Technical and Regulatory Guidance document, Evaluating LNAPL Remedial Technologies for Achieving Project Goals (LNAPL-2) to assist environmental practitioners with applying science-based solutions for LNAPL sites. The ITRC guidance was developed through the combined efforts of environmental professionals, including state and federal regulators, consultants, industry, and community stakeholders. This 2-day ITRC classroom training led by internationally recognized experts, should enable you to:

- ▶ **Develop and apply an LNAPL Conceptual Site Model (LCSM)**
- ▶ **Understand and assess LNAPL subsurface behavior**
- ▶ **Develop and justify LNAPL remedial objectives including maximum extent practicable considerations**
- ▶ **Select appropriate LNAPL remedial technologies and measure progress**
- ▶ **Use ITRC’s science-based LNAPL guidance to efficiently move sites to closure**



Interactive learning with classroom exercises and Q&A sessions will reinforce these course learning objectives. You will also have the opportunity to network with other environmental professionals.

## Who should attend?

Regulatory staff involved in LNAPL remediation programs, site owners, consultants, public stakeholders and others interested in using science-based approaches to assess, remediate, and close LNAPL contaminated sites.



## Course Instructors

(instructors vary by class)

**Erik Gessert, P.E.** Colorado Division of Oil and Public Safety, Denver, CO. Supervisor of the Petroleum Remediation Program.

**John Menatti** Utah Dept. of Environmental Quality, Salt Lake City, UT. Manager of the Petroleum Storage Tank Trust Fund at UTDEQ

**Sanjay Garg, Ph.D.** Shell Global Solutions, Houston, TX. Consultant within Shell's global operations specializing in underground fate-and-transport of hydrocarbons

**Andrew Kirkman, P.E.** BP, Naperville, IL. BP's Lead LNAPL Technical Specialist supporting remediation, education, and research

**Derek Tomlinson, P.E.** Geosyntec Consultants, Blue Bell, PA. Environmental engineer specializing in managing sites with DNAPL and LNAPL

**Terrence Johnson, Ph.D.** US Environmental Protection Agency, Las Vegas, NV. Environmental Scientist on the EPA Emergency Response Team specializing in multiphase flow and contaminant transport

**Rick Ahlers, P.E.** ARCADIS, San Diego, CA. NAPLs Subdiscipline Leader for ARCADIS specializing in characterization, cleanup, and closure of LNAPL sites

**Mark Lyverse, P.G.** Chevron Energy Tech Co, San Ramon, CA. Hydrogeologist and technical remediation specialist with an emphasis on LNAPL distribution, fate and transport, and recovery

## PAC Fundraiser at EMERALD DOWNS RACE TRACK Saturday, September 19, 2015

Cost per person is \$500.  
Help fundraise for WOMA's PAC Fund  
and enjoy an afternoon of fun!

## DATES for Your Calendar:



**Thursday, December 10<sup>th</sup>**

**WOMA Holiday Party  
at SAFECO Field**

*— Home of the Seattle Mariners!  
Cost is \$85 per person or \$160 per couple.*

## WPMA EXPO

•One Team •One Mission •One Goal

**February 16<sup>th</sup> – 18<sup>th</sup> 2016**

at the Mirage in Las Vegas, NV

Go to [www.wpma.com/national-convention](http://www.wpma.com/national-convention)

**June 20<sup>th</sup> – 23<sup>rd</sup> 2016**

**WOMA Convention**

at Suncadia Resort,  
Cle Elum, WA



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## Registration Fee

The course fee is \$950 (with early bird fee of \$750 until August 15). This fee includes a student manual, ITRC LNAPL guidance document, and networking opportunities with refreshments. Registrants from organizations that are members of the ITRC Industry Affiliates Program are eligible for a discounted registration fee. **Note:** For U.S. local, state, and federal government, students, community stakeholders, and tribal representatives, ITRC will offer a limited number of scholarships. More information is available on the registration webpage: [www.itrcweb.org/training](http://www.itrcweb.org/training).

**Cancellations:** If you must cancel and notify us on or before August 1, the registration fee will be refunded (Note: a \$100 processing fee will apply).

## Continuing Education Information

A certificate of participation will be provided to interested participants indicating 16 professional development hours. Please check with your organization or appropriate licensing board for their requirements and if they will accept this ITRC training course. More information is on the registration page.

## Training Locations / Accommodations

DoubleTree by Hilton Hotel Seattle Airport  
18740 International Boulevard  
Seattle, Washington, 98188

Until August 15, a limited number of rooms are available at a special group rate. Participants are responsible for arranging and paying for their lodging. More lodging information and a link to register for the hotel are available on the registration page. Please visit [www.itrcweb.org/training](http://www.itrcweb.org/training) to learn more.

## ADA (Americans with Disabilities Act)

If you require special accommodation to fully participate in this seminar, please contact the ITRC Training Program at (402) 201-2419 or [training@itrcweb.org](mailto:training@itrcweb.org) at least four weeks prior to the course start date.

## HURRY, Early Registration Ends Soon!

Help get the word out! Early Bird Registration and Hotel block both expire this SATURDAY, **AUGUST 15, 2015**.