New 2-Day Format!!!

Environmental Forensics

Course Details
September 9 & 10, 2015  Early Fee: $465
Bordentown, NJ  Multi Fee: $450
Course Code: EL0401CA16  Registration Fee (after 8/26): $495

This two-day course offers a thorough examination of the geosciences behind environmental forensics of petroleum and chlorinated hydrocarbon geochemistry. It will also cover newly emergent trends of professional investigations. Applying the principles of the Scientific Method, this course stresses the need for reliance on peer-wide acceptance of technical approaches and strict use of peer-reviewed technical results. You will participate in exercises using principles outlined in class. Plus, at the end of day two, you will have the chance to apply various technical points in a mock courtroom experience.

Day One
Discuss the various analytical approaches available to professionals for the determination of the hydrocarbon composition of different petroleum products, analytical methods as they relate to the different compositions of petroleum products, various approaches for age dating of product releases, and issues concerning data reliability for various indicator chemicals used in environmental forensics.

Introduction – What can go wrong will go wrong Petroleum Products - Gasoline related issues Petroleum Products - Distillate fuel related issues

Day Two
Review of the origins and the principles applied for handling assessments of age-dating the release of various environmental contaminants, stressing what approaches work and what approaches are problematic.

Age dating of petroleum product releases  Mock courtroom experience

Instructors
Gili Oolith, Triassic Technology, Inc.
Michael J. Wade, Ph.D., Wade Research, Inc.

** Pending LSRP Approval **

Advanced Petroleum Forensics Geochemistry

Course Details
September 11, 2015  Early Fee: $275
Bordentown, NJ  Multi Fee: $269
Course Code: EL0402CA16  Registration Fee (after 8/28): $295

This course will appeal to LSRPs and other environmental professionals who regularly deal with oil impacted sites and wish to learn more about the latest in advanced forensics techniques for petroleum releases of gasoline and distillates. Since a majority of our sites are petroleum and many are old and corroded, this course is particularly relevant to practicing LSRPs. In-class examples and exercises related to on-site assessment and remediation issues/concerns that may be encountered by practicing LSRPs will be included.

Featured Topics
- Advanced Petroleum Forensics Geochemistry
- Petroleum Products and Formulation
- Leaded Gasoline: The Evolution of Leaded Gasoline Age Dating in Forensic Geochemistry
- Gas Mixing: Evaluating Mixing Effects of Multiple Gasoline Sources
- Additives in Gasoline: Age Dating, Current and Future with Oxygenate-treated Gasolines
- Processing Data Files: Processing GC/FID Hydrocarbon Fingerprinting Data Files
- Using Chromatograms: Hydrocarbon Fingerprinting - Using Gas Chromatograms
- Distillate Aging: The Evolution of Petroleum Age Dating in the Technical Literature
- Weathering Site Evaluation: Mixed Subsurface Plumes and Use of Quantitative Petroleum Weathering Indices

Instructor
Michael J. Wade, Ph.D., Wade Research, Inc.

** Approved for 7 LSRP Technical CECs **
Underground Storage Tanks

### Course Details

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This program is designed for the non-scientist and will provide students with a basic understanding of geology, hydrogeology and environmental chemistry. The fundamental principles will be presented in terminology that makes it easy to understand even if your only background is high school chemistry.

#### Featured Topics
- Geological discussions will cover earth processes, rock and mineral identification, sediments, soils and man-made fill materials.
- Hydrogeology discussions will cover the water cycle, ground water flow/movement, well construction methods and ground water supply development and protection.
- Chemistry discussions will cover natural ground water chemistry, common pollutants, the migration of contaminants through soil and groundwater, sampling techniques, analytical methods and the interpretation of laboratory data.

#### Who Should Attend?

Anyone working on USTs needs a good understanding of the applicable regulations and guidance, especially tank owners, consultants, engineers, contractors, health officials, geologists, soil scientists and attorneys. If you are renewing your certification, you must take a NJDEP-certified course within one year prior to renewal. Professional engineers and plumbing contractors, exempt from the certification examination, must attend the course within one year of certification.

#### Instructors

- Chris Dwyer, NJ Department of Environmental Protection (NJDEP)
- Edward Hogan, Esq., Morris, McLaughlin & Marcus
- Michael Hollis, NJ Department of Environmental Protection
- Kelly A. Giblin, NJ Transit Corp.
- Mark Grzeskiewicz, NJ Department of Environmental Protection (NJDEP)
- John Olko, NJ Department of Environmental Protection (NJDEP)
- Kenneth Siet, TRC Environmental Corporation

### Environmental Site Assessments

#### Course Details

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This two-day course will help you navigate the legal and regulatory maze that surrounds industrial and commercial site assessments and property transactions. This class is particularly relevant to practicing LSRPs.

#### Featured Topics

- Discover how to conduct successful - and legally viable - assessments that are consistent with ASTM Standards and other applicable Federal and State regulations.
- ASTM Standards 1527-13: What is it and why do you need to be familiar with it?
- Technical Requirements for Site Remediation (N.J.A.C. 7:26E): NJDEP’s perspective
- How to determine the environmental liability of a site before making a costly investment or securing a sales contract
- What is the EPA’s宜Appropriate Inquiry (AI) Rule and how does it apply to an environmental site assessment?
- What are the differences, similarities and overlaps between and among the ASTM standard, the AAI Rule and the NJ Preliminary Assessment?
- Emerging Technologies
- And much more!

#### Who Should Attend?

This course is appropriate for those who:
- Develop, review or use hydrogeologic reports
- Purchase environmental services
- Make decisions regarding environmental policies

This seminar will also provide valuable information for real estate professionals involved in property appraisals or transactions.

#### Instructor

Daniel Nachman, TRC Environmental Corporation

**Approved for 6.5 LSRP Regulatory CECs**

**Approved for 4 LSRP Regulatory CECs**