The NJ Department of Environmental Protection (NJDEP) regulates Underground Storage Tanks (USTs) and requires the professionals who work on them to be trained, certified and recertified every three (3) years. Effective November 4, 2009, a regulated UST owner or operator who “initiates remediation” (see N.J.A.C. 7:26C-2.2(b)) on or after this date is required to engage the services of a Licensed Site Remediation Professional (LSRP). The services of a Certified Subsurface Evaluator, or a LSRP for cases that “opt-in” to the LSRP Program, are required for regulated UST remediation initiated prior to November 4, 2009. All other categories of service, including closure, are in place.

For more information and clarification on how the LSRP Program affects UST requirements, please call Wayne Howitz from the NJDEP at 609-984-1351.

For information concerning the UST exam, please contact the NJDEP Examination and Licensing Unit at 609-777-1013.

If you work on USTs, you need this course! Whether you are becoming certified for the first time or just need to recertify, you will get the regulatory information you need to stay current with New Jersey’s UST requirements and help your clients or employer avoid potential penalty liability.

Who Should Attend?
Anyone working on USTs needs a good understanding of the applicable regulations and guidance, especially tank owners, consultants, engineers, contractors, health officers, 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
Patrick Hansen, TRC Environmental Corporation
Edward Hogan, Esq., Norris, McLaughlin & Marcus
Gary Sanderson, NJ Dept. of Environmental Protection
Kenneth Siet, TRC Environmental Corporation

For more than 10 years, NJ’s Brownfield legislation and program implementation have continued to evolve. With the desire to keep available greenfields designated to remain as open space, the recycling of previously developed property is crucial to the economic growth of the State. Preservation of greenfields in tandem with targeted redevelopment of brownfields will meet the region’s desire to create sustainable communities, improve ecosystems, provide workforce housing by steering investment and redevelopment toward abandoned and underutilized properties in designated growth centers.

Join us for a day of dynamic and interactive panel discussions to explore new issues on the Brownfields redevelopment horizon. Time will be available to share your opinions on emerging issues and raise specific questions surrounding the process of redevelopment in New Jersey.

Featured Topics
The following three subject areas will be explored in depth:
• Implementation Changes in Funding Programs
• Impact of Site Remediation Reform Act on Redevelopment
• Renewable Energy Projects on Brownfields

Who Should Attend?
Corporate Land Owners, Developers, Municipal Officials, Attorneys, Planners, Real Estate Brokers, Lending Institutions, Architects, Community Affairs Professionals, Environmental Professionals, Insurance Specialists and Industry Personnel Responsible for Excess Corporate Real Estate or Environmental Affairs

Faculty Coordinators
Susan Boyle, CEI Consultants, Inc.
Colleen Kokas, NJDEP, Office of Brownfield Reuse (invited)

Instructors
Instructors include: Local and State Development Experts, Corporate Property Owners from the Fortune 100 List and Developers active in the region.
This program is designed for the non-scientist and will provide students with a basic understanding of geology, hydrogeology, and environmental chemistry. The fundamentals of geology, hydrogeology, and chemistry will be presented in terminology that makes it easy to understand... even if your only background is high school chemistry! This course will help you learn how to use this information when evaluating environmental conditions at your site or property.

You Will Learn
- GEOLOGY: Geologic discussions will include a brief overview of earth processes, rock and mineral identification, sediments, soils, and man-made fill materials, with an emphasis on environmental applications.

- HYDROGEOLOGY: Students will be presented with the basic concepts of ground water flow, including the water cycle, ground water movement, well construction methods, and ground water supply development and protection.

- CHEMISTRY: The general principles of environmental chemistry will be reviewed with an emphasis on natural ground water chemistry, common pollutants, the migration of contaminants through soil and ground water, sampling techniques, analytical methods, and the interpretation of laboratory data.

Who Should Attend?
This course is appropriate for those who develop, review or use hydrogeologic reports, purchase environmental services, or 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

Environmental Forensics
October 7, 2010
$255 before 9/25; $285 after; $225 multiple
Course Code: EN0100CA11

The emerging scientific discipline of 'Environmental Forensics' has become a practical method for determining who is responsible for instances of pollution. In particular, it plays a key role in assisting with the development of contaminated sites by cutting the cost of associated legal proceedings and reducing the time required to reach negotiated settlements between those involved. Whether for regulatory compliance or for proving responsibility in the courtroom, forensics plays an important role in attaching liability to hundreds of sites each year.

The purpose of the forensic expert is to provide current objective answers to some or all of the following questions:
- When did the environmental event (such as a tank failure or pipeline leak) occur?
- What is the contamination? Is it gasoline or diesel fuel or kerosene or a combination of many?
- Who is responsible for the contamination? If there is more than one entity responsible, and if so, how much is each responsible for?
- How much could the investigation, cleanup and related expenses cost and are the proposed costs reasonable?

This one-day program will address the different methods used to age date contamination events, that is, to determine the date when these problems first began. This knowledge is important because it allows:

1. attorneys and courts to determine who may be responsible for the cleanup of these problems;
2. insurance companies to determine whether or not an environmental claim occurred during their policy periods, and
3. the government to determine who is responsible in order to recoup government funds that were expended.

Who Should Attend?
Environmental scientists, engineers, regulators, attorneys, environmental consultants, the insurance industry, and government.

Program Topics
There are several methods available to forensic scientists to evaluate the age of an environmental problem. This program will explore the following:

- SITE HISTORY. A review of historical documents to determine if information is available on when contamination first began to appear, possible records of chemical spills, etc.
- FINGERPRINTING. The characterization of spilled chemicals to determine their composition, determine the type of products present (for example, gasoline versus diesel fuel), and identify certain time-specific chemicals (such as MTBE, ethanol, etc.) as an aid to determination when contamination could have first started.
- HYDROGEOLOGY. The use of groundwater flow rate and fate-and-transport calculations to assess how long the contamination has been in the subsurface.
- ISOTOPEs. The use of certain isotopes present in ground water that act as a time clock and can tell us the age of the groundwater (when it had been rainwater and infiltrated the ground). For example, the explosion of hydrogen bombs allowed the isotopic tritium to exist in the atmosphere worldwide. Analyzing groundwater for tritium may give us information on the age of the groundwater and the contamination it holds.
- WEATHERING. Once hydrocarbon contaminants enter the environment, they begin to degrade. With a knowledge of weathering reactions, an evaluation can be made of the various ways age-dating hydrocarbon contamination has been done in the literature can be made.
- DENDROECOLOGY. Contaminants in soil and groundwater can be uptaken by plants. An analysis of the annual rings in trees can allow us to determine when particular contaminants entered those trees.

Instructors
Gil Oudijk, Sheskin Technology, Inc.
Dr. Michael J. Wade, Wade Research, Inc.

Radon Measurement Proficiency Course - September 13 & 14, 2010

The 2-day course covers selection, placement, operation and set up of radon measurement devices and making mitigation referrals. You will learn about: Radiocative Decay, Measurement Devices, Types of Radiation, Health Risks from Radon and Average Radon Levels & Measures.

Radon Mitigation Proficiency Course - September 15, 16 & 17, 2010

After you complete the 2-day Radon Measurement course, you can begin your move into the field of radon mitigation with this 3-day course. You will study radon mitigation structures in new construction as well as the special issues of radon in water and safety precautions for mitigation work.

*** RECERTIFICATION CREDITS ***
Courses in this brochure have been submitted for recertification credits. For more information, please email Pamela Mayer at pspring@rci.rutgers.edu

4 CONVENIENT WAYS TO REGISTER
Phone: 732.932.8271, M-F 8AM - 4:30PM. Please have your Visa, Mastercard or AMEX number ready.
Fax: 732.932.8726, 24 Hours. Please include credit card information or copy of your check, money order or purchase order with your fax.
Mail: Registration Desk, N.J.AES Office of Continuing Professional Education, Rutgers University, 102 Rabins Lane, New Brunswick, NJ 08901-8519. Please make check payable to: Rutgers University
Web: www.cpe.rutgers.edu
Payment Policy - All students must have prearranged for payment to be admitted to the class (purchase order, check, VISA, Mastercard, American Express or money order).
Refunds - You may withdraw from this course with a full refund (minus a $25 processing fee) provided our office is notified at least three (3) full working days prior to the start of the course. Beyond that time, registrants may be responsible for the full registration fee. Substitutions are welcomed.