

**EPA Triad Approach Seminar
Presented by Karen A. Peluso
February 26, 2004**

The Triad Approach is a site investigation methodology being promoted by the EPA, US Army Corps of Engineers, and the Department of Energy. These agencies and other major environmental service providers rely on the use of field analytical technologies and flexible sampling plans to provide more accurate site data, with fewer trips to a site, at a lower cost.

The Triad Approach recognizes that too much emphasis has been placed on laboratory analytical methods and far too little attention has been given to the uncertainty, inefficiency, and costs introduced by many other important aspects of traditional sample collection and analysis.

The three steps of the Triad Approach: 1) upfront systematic planning by a multidisciplinary team of experts, 2) flexible, dynamic work plans, and 3) the use of real-time measurements in the form of field analytical tools to provide the basis to identify and manage uncertainties that could cause errors during characterization or remediation.

The February program will present information about the Triad Approach along with case studies showing how it has been successfully used on a number of projects. The presentation, developed in consultation with representatives at EPA and the Army Corps of Engineers, will cover the following topics;

- Introduction to the EPA Triad Approach to Site Characterization
- Analytical Quality vs. Data Quality – What's the Difference?
- Strengths and Limitations of Analytical Tools and Collaborative Data sets
- Errors of Traditional Assumptions and Myths about using Field Analytical Systems
- Using the Triad to Manage Uncertainty
 - Upfront Planning
 - Flexible Workplans
 - Field Analytical Tools

- Use of Immunoassay in the Field
- Testing Applications & Data Interpretation
- Triad Approach Case Studies

Presenting February's program is Karen A. Peluso, Environmental Engineer with KAP Environmental. Karen has over 10 year experience in site remediation and the use of field analytical tools to expedite site investigation and cleanup. She developed and instructed a 4-hour Immunoassay Field Testing Short Course certified in MA and CT under the State Engineering Licensing Program.

1-Hour Workshop

Hands-On Immunoassay Training:

Prior to the presentation, participants will have an opportunity to run an EnviroGard[®] TPH Test Kit and learn exactly how immunoassay technology works!

Meeting logistics: The meeting will take place on Thursday, February 26, 2004 (**note the meeting is the 4th Thursday**) at the O'Brien & Gere offices, 5000 Brittonfield Parkway, Syracuse, NY. The workshop will be held from 5:00 to 6:00 pm. A social hour will be held from 6:00 p.m. to 7:00 p.m., followed by dinner. Dinner will start at 7:00 p.m. and our featured speaker will begin her program at 7:30 p.m. The cost of dinner is \$10 for members, \$12 for non-members, and \$10 for student members. The workshop is free. Please RSVP by Monday, February 23, 2004 to Bonnie at Parratt-Wolff via e-mail at bolney@pwinc.com or 437-1429. PLEASE INDICATE IF YOU WOULD LIKE TO ATTEND THE SHORT COURSE so that we can order the appropriate number of test kits.

DIRECTIONS: To get to O'Brien & Gere, take Route 690E to 481 North. Take Route 298 exit, the first exit after the Thruway, and turn right at the end of the exit ramp. Take the first left onto Brittonfield Parkway. O'Brien & Gere is the third building on the left. Parking is to the left of the front entrance.

Calendar

February 26, 2004	CNYAPG Monthly Dinner Meeting, O'Brien & Gere Office, Syracuse, N.Y. Karen A. Peluso, Introduction to the EPA Triad Approach to Site Characterization . From 5:00 to 6:00 p.m. free workshop regarding immunoassay training from 6:00 to 7:00 p.m. there will be a social hour, followed by dinner at 7:00 p.m. Our speaker's talk will begin at 7:30 p.m.
March 18, 2004	CNYAPG Monthly Dinner Meeting, Genesee Inn, Syracuse, N.Y. Dr. David Miller (SUNY Cortland). The use of GPS in Retracing Lewis and Clarks Expedition . From 5:30 to 6:15 p.m. there will be a social hour, followed by dinner at 6:15 p.m. Our speaker's talk will begin at 7:00 p.m.
April 2004	Annual CNYAPG Field Trip to Howes Caverns (further details will follow).
May 2004	CNYAPG Monthly Dinner Meeting, Syracuse, N.Y. Bill Kappel (USGS). The hydrogeology and brines associated with Onondaga Valley and Onondaga Lake . (further details will follow).

Our President's Voice –

Dr. Todd Rayne of Hamilton College gave an interesting and informative program this past Thursday regarding the use of numerical modeling to predict the effects of land use on stream flow and temperature. I would like to thank the thirty or so hearty souls that braved the sub-zero temperatures and blustery winds to make this meeting a success! Here at the beginning of a new year I urge you to invite your colleagues to attend our programs, and also to donate your time to benefit our association. Soon I will be developing a slate of nominees for two CNYAPG director positions and all officer positions, and would appreciate any suggestions from our members. Again, a diverse and involved membership is essential to the continued health and vigor of the CNYAPG, please get involved!

We also had a brief updated from Marjory Rinaldo-Lee (NYSCPG) regarding the status of licensure of professional geologists in New York State. We must continue to support the NYSCPG in this worthy endeavor, and keep pressure on our Assembly representatives to move the bill forward to a vote in 2004.

David Lay

Membership news – For those of you, who have not yet renewed your membership, please do so now!

To renew your membership or become a new member, simply complete the membership form which is available on our website at www.cnyapg.org! Membership is only \$25 per year and all money received is used for these newsletters and our monthly meetings.

HMPGA Workshop – April 19, 2004:

On Monday, April 19, 2004, HMPGA is hosting a one day workshop is entitled: "**Advances in Hydraulic Testing for Improved Site Characterization: New Concepts, Field Methods, and Data Analysis Techniques**" at the Holiday Inn - Turf, located on Wolf Road in Albany, N.Y. The main instructor and course designer is Jim Butler, Ph.D., P.G., from the Kansas Geological Survey a nationally recognized teacher with superb material. Jim is essentially changing how the industry conducts hydraulic testing, specifically slug and pumping tests, for application to hydrogeologic site characterization. Dr. Butler's applied work differs from other researchers because he accounts for the test design as well as field methods and updating data analysis methods.

More detailed information (Date, cost, instructor abstract, Continuing Education Unit (CEU) information, short course outline and schedule, registration form, directions, etc.) is provided in the following web link: <http://www.hmpga.org/Course.htm>

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