

Registration

The registration deadline is **November 12, 2008**. However, space is limited to 75 participants per location. Therefore, early registration is advised.

Register on-line at: www.newmoa.org/cleanup/cwm/data2008/

Logistics

The workshop will include a classroom session, focused on case studies, as well as three outdoor equipment demonstrations and two indoor exhibit areas with information about field analytical methods. Participants will be broken-up into smaller groups and will rotate to each of the five sessions. Following the break-out sessions, the groups will reconvene in the classroom for further discussion.

S₂C₂, Vironex, and ZEBRA are companies that provide subsurface characterization services using direct push (Geoprobe™) to advance sensors.

Directions and Accommodations

November 19, 2008: The Publick House
227 Main Street
Sturbridge, MA 01566
(508) 347-3313
www.publickhouse.com

November 20, 2008: New Hampshire Department of Environmental Services (NH DES)
29 Hazen Drive
Concord, NH 03302
(603) 271-3503
des.nh.gov/contactus/directions.htm

Payment

The Workshop fee is \$125 (\$40 for government and academia). Continental breakfast and lunch are included. Payment is required upon registration and prior to the workshop.

There are three ways to pay for this workshop:

- By check payable to NEWMOA, Federal ID# 042901917. Mail to 129 Portland Street, Suite 602, Boston, MA 02114-2014.

- By credit card payment via paypal. Please have your credit card ready when registering on-line.

- For staff from NEWMOA state programs only, NEWMOA can invoice your department. Please get prior permission from your director/supervisor.

Continuing Education Credit

NEWMOA has applied to the Massachusetts Licensed Site Professional and the Connecticut Licensed Environmental Professional boards for approval of the conference for at least 3.5 Continuing Education Credits (CEC). Check the workshop website for updates on CEC units status.

Workshop Fee & Deadline

The workshop fee is \$125 with a special rate of \$40 for government and academia. The workshop fee includes a continental breakfast and lunch. The **deadline** for registration is **November 12, 2008**.

Additional Information

If you have any questions regarding the Workshop, please contact Jennifer Griffith at NEWMOA at (617) 367-8558 ext. 303, jgriffith@newmoa.org.

Northeast Waste Management Officials' Association (NEWMOA)

NEWMOA is an interstate organization that was established by the New England Governors and recognized by the EPA in 1986. The Association's membership is composed of the state environmental agency directors of hazardous waste, solid waste, waste site cleanup, underground storage tank, and pollution prevention programs in Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont. NEWMOA helps states articulate, promote, and implement economically sound regional programs for the enhancement of environmental protection. NEWMOA promotes the efficient sharing of state and federal resources and assists states in information sharing, training, and education.

The workshop is made possible through funding from the US EPA Brownfields Program

GETTING MORE "BANG FOR YOUR BUCK": REAL-TIME DATA COLLECTION & INTERPRETATION FOR BETTER DECISION-MAKING



Sponsored By:

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Featuring Equipment Demonstrations
In the Field By:

S₂C₂ inc.

S₂C₂ Inc.



Vironex, Inc.

ZEBRA
Environmental
Corp.



Subsurface Sampling, Injection and Data
Collection for Environmental Professionals

Dates and Locations:

November 19, 2008	November 20, 2008
The Publick House	NH DES Offices
Sturbridge, MA	Concord, NH

Online registration at: www.newmoa.org/cleanup/cwm/data2008/

REAL-TIME DATA COLLECTION & INTERPRETATION

THE PROBLEM

Inadequate site characterization can lead to project delays, unnecessary expenses, and uncertain results. Using traditional site characterization methods to provide enough information to address financial uncertainties can be cost prohibitive and could discourage site redevelopment.

THE SOLUTION

A combination of improved upfront project planning, the use of innovative sampling methods and field-based characterization technologies, and the ability to interpret the data and adapt the work-plan in the field, has the potential to reduce the time and expense of performing a quality site characterization while simultaneously yielding better information to make informed decisions.

WORKSHOP OBJECTIVES

- ◆ The overall objective of this workshop is for attendees to learn how direct push (Geoprobe™) technology can be combined with various sensor technologies to more accurately characterize subsurface hydro-geologic conditions. Field-based analytical methods can be performed on soil and/or groundwater samples to provide additional key information.
- ◆ Participants will learn about the benefits of real-time data collection and analysis and how to use this data to improve site characterization and remediation decisions.
- ◆ They will view equipment and technologies used by three leading vendors in the Northeast, as well as field-based analytical methods from seven leading vendors.
- ◆ Participants will have ample opportunity for questions and comments, both in the field and during the classroom sessions.

AGENDA

- 9:00 Registration and Continental Breakfast**
- 9:30 Welcome and Introductions**
Jennifer Griffith — NEWMOA
- 9:45 Real-Time Data Collection and Interpretation:
“Why is it Important?”**
Stephen Dymont — U.S. EPA
- 10:30 Real World Integration of Real Time Data Sets:
A Case Study**
- ◆ **Direct-Sensing Tools**
 - ◆ **Mobile Laboratory**
 - ◆ **Data Visualization**
- Matthew Ruf — Director of Direct-Push Services, S₂C₂ Inc.
Todd Morgan — Director of Analytical Services, S₂C₂ Inc.
- 11:00 Break**
- 11:15 Search and Destroy Program: Transition from
Advanced Site Characterization to Remediation**
- ◆ **Coupling of site characterization techniques with targeted remedial design**
 - ◆ **How to design an in-situ injection pilot test**
- Mike Mazzaresse — Manager, Vironex, Inc.
- 11:45 Collection of Real-time Data to Optimize Subsurface
Investigations**
- ◆ **Membrane Interface Probe (MIP)**
 - ◆ **Electrical Conductivity (EC)**
 - ◆ **Hydraulic Profiling Tool (HPT)**
 - ◆ **Cone Penetrometer Testing (CPT)**
- Matt Ednie — Northeast Regional Manager, ZEBRA
William McAllister — Direct Sensing Specialist, ZEBRA

12:15 Lunch (provided)

1:00 There will be three field demonstrations and two exhibit areas. Participants will rotate every 20 minutes so they can participate in all five sessions.

Equipment Demonstrations (in the field)

- ◆ S₂C₂ Inc.
- ◆ Vironex, Inc.
- ◆ ZEBRA Environmental Corp.

Field Analysis Methods (exhibit hall)

- ◆ **Test Kits** = AQR Colortec; CAPE Technologies; Site Lab; Strategic Diagnostics (SDI); and XDS
- ◆ **Hand-Held** = Innov-X; and Niton.

3:00 Break

3:15 State Regulatory Perspective and Discussion
November 19th: Representatives from CT, MA, RI
November 20th: Representatives from ME, MA, NH, VT

4:00 Adjourn

WHO SHOULD ATTEND

- Consultants; local, state and federal regulatory staff; and facility representatives who deal with waste sites, including the following programs:
 - Brownfields
 - Voluntary Site Cleanup
 - USTs
 - RCRA Corrective Action
 - Superfund
 - Federal Facilities
- Massachusetts Licensed Site Professionals (LSPs), Connecticut Licensed Environmental Professions (LEPs), Professional Geologists (PGs), Professional Engineers (PEs), and other professional organizations.
- Public stakeholders and academic researchers in the field.