

20th Annual National  
**TANKS  
CONFERENCE  
& EXPO**



[www.neiwpcc.org/tanksconference](http://www.neiwpcc.org/tanksconference)



New England Interstate Water  
Pollution Control Commission



Office of Underground Storage  
Tanks, U.S. Environmental  
Protection Agency

**ASTSWMO**

Association of State and Territorial  
Solid Waste Management Officials



Georgia Department  
of Natural Resources





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## Contents

Welcome Letter.....	1
Water Conservation Note .....	2
Downtown Atlanta Map.....	3
General Information.....	4
Conference Site Floor Plan .....	6
Agenda .....	8
Exhibitor Profiles .....	12
EPA Regional UST/LUST Programs.....	17
UST State Program Approval Status .....	17
EPA Office of Underground Storage Tanks.....	18
Poster Sessions .....	19
Session Abstracts .....	20
Speaker Bios.....	28
Conference Attendees.....	36
Planning Team .....	44



March 2008



Dear Colleague,

On behalf of the New England Interstate Water Pollution Control Commission, EPA's Office of Underground Storage Tanks and Region 4, the Environmental Protection Division of the Georgia Department of Natural Resources, and the Association of State and Territorial Solid Waste Management Officials, it is our pleasure to welcome you to Atlanta and the 20th Annual National Tanks Conference and Exposition. We are thrilled to once again bring together the underground storage tanks community for this annual event, which affords such tremendous opportunities for learning and for making progress on the many challenges that we face.

This year's event is especially significant because of the milestone captured in our theme, "20 Years of Partnerships for Protection." We are indeed convening for the twentieth time, extending a tradition that began in 1988 in Santa Fe, New Mexico. The event has grown significantly since that first gathering, but in one fundamental way, nothing has changed. This year, as in 1988 and every year since, the goal of the conference is to leave you saturated with powerful new ideas and energized about applying the lessons learned to your daily work.

We are again offering three concurrent session tracks—Contamination and Cleanup, Prevention, and Policy—as well as a number of outstanding workshops, which run throughout the conference. Please look closely at the agenda and abstracts before making your choices. If you are unable to attend a desired session, bear in mind that most session presentations will be available for download via the conference website ([www.neiwpcc.org/tanksconference](http://www.neiwpcc.org/tanksconference)).

We've come a long way on tanks issues over the past two decades, but as we all know, much more work remains to be done. Over the next few days here in Atlanta, we will encounter a bounty of opportunities for learning and networking, and for setting the stage for great progress in the months and years ahead. We urge you to share your knowledge, learn from others, and make the most of your participation in this great tradition. Let us make our twentieth conference our most memorable yet. Thank you for joining us.

Ronald F. Poltak  
Executive Director  
New England Interstate Water  
Pollution Control Commission

Cliff Rothenstein  
Director  
Office of Underground Storage Tanks  
U.S. Environmental Protection Agency

Carol A. Couch  
Director  
Environmental Protection Division  
Georgia Dept. of Natural Resources

Mary T. Zdanowicz  
Executive Director  
Association of State and Territorial Solid Waste  
Management Officials

*Beginning in 2007 and continuing into 2008, the southeastern region of the United States, and the greater Atlanta area in particular, suffered record-setting drought conditions. In September, Georgia Environmental Protection Division Director Carol A. Couch said, "The drought of 2007 has reached historic proportions, so it's critical that we take immediate action to ensure that Georgians have a sufficient supply of safe drinking water."*

*We are including this notice in your conference packet as a reminder to do our part, where possible, to conserve water resources during our visit to the "Peach State." Thank you for your assistance. Enjoy the Conference!*



# What can you do to conserve water during your stay in Georgia?

## Every Drop Counts

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Water is a precious resource in Georgia and its neighboring states. Growing populations and ongoing drought are squeezing our water resources dry, causing natural habitat degradation and impacting our everyday use of water. We have no choice but to pay more attention to how we are using water, and how we may be wasting it. We must bridge the gap between our understanding of how important water is to our survival and what we can do to ensure that we have an adequate supply of clean water for years to come.

Below is a list of many simple ways we can take action and conserve water.

- Avoid flushing the toilet unnecessarily.
- Dispose of tissues, insects and other similar waste in the trash rather than the toilet.
- Take shorter showers. Try a "Navy" shower: Get wet, turn off the water, soap and scrub, then turn the water on to rinse.
- In the shower, instead of increasing the hot or cold water flow to adjust the water temperature, try decreasing the flow to achieve a comfortable water temperature.
- Use the minimum amount of water needed for a bath by closing the drain first and filling the tub only 1/3 full. The initial burst of cold water can be warmed by adding hot water late.
- Don't let the water run while shaving, washing your face, or brushing your teeth.

For more info: [www.dca.state.ga.us](http://www.dca.state.ga.us)

## Understanding Drought

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### What is drought?

Drought is any shortage of water that causes related complications.

### Who decides we are in a drought?

Georgia has a State Drought Response Committee. The committee is comprised of governmental agencies, agriculture representatives, hydrologists, business representatives, climatologists, environmental organizations, and state water professionals.

### How do we know we are in a drought?

Drought indicators are used to help detect, characterize, and monitor changing climatic and soil conditions indicating a drought exists. In Georgia the State Drought Response Committee studies precipitation, reservoir levels, groundwater levels, and stream flows. If these indicators are below average, then a declaration of drought is issued with a mandated response level, including outdoor watering restrictions.

### When are we out of drought?

All drought indicators must be normal for four months and the State Drought Response Committee and EPD Director approve the change.

### Where can I go to find out more about drought?

Georgia Water Conservation: [www.conservewatergeorgia.net](http://www.conservewatergeorgia.net)

US Geological Survey Drought Watch: <http://ga.water.usgs.gov/news/drought99>

Palmer Drought Index for Georgia: <http://interests.caes.uga.edu/drought/General.htm>

National Drought Mitigation Center: <http://drought.unl.edu>

Drought Conditions Website: [www.weather.gov/oh/hic/current/drought](http://www.weather.gov/oh/hic/current/drought)

# atlanta downtown area walking map





## conference information

### Conference Registration and Information Desk Hours

#### Located on Level One

Sunday, March 16.....11:30 a.m. – 4:00 p.m.  
Monday, March 17 ..... 7:00 a.m. – 5:00 p.m.  
Tuesday, March 18 ..... 7:00 a.m. – 5:00 p.m.  
Wednesday, March 19.....8:00 a.m. – 11:30 a.m.

### Lost & Found and Message Board

Located at the Conference Registration and Information Desk.

### ATM

Located on Level Three of the Hotel

### Business Centers/Office Supplies

The UPS Store is located on Level One in the Sheraton Atlanta Hotel.

**Tel:** (404) 521-0122; **Email:** staff5192@theupsstore.com  
www.theupstore.com

M – F ..... 7:00 a.m. – 7:00 p.m.  
Sat..... 9:00 a.m. – 3:00 p.m.  
Sun .....CLOSED

### Airport Transportation

Check at Bellstand for information.  
Located on Level Two by the entrance.

### Medical Information

*Emory Crawford Hospital* – 550 Peachtree St. NE, Atlanta  
**Tel:** (404) 686-4411; www.emoryhealthcare.org

*Piedmont Hospital* – 1968 Peachtree Rd. NW, Atlanta  
**Tel:** (404) 605-5000; www.piedmonthospital.org

*Atlanta Medical* – 265 Boulevard NE, Atlanta  
**Tel:** (404) 522-8704

### Pharmacy

Walgreen's located 8 blocks from the hotel at Piedmont & North Avenue.

See Bellman for directions.

### Fire Emergency Information

All guestrooms have a pre-printed map of the nearest emergency exit; the map is posted on the back of each guest room door for quick access. Please take a moment to review. Emergency exit signs are positioned in the hallways to direct you to the closest available exit.

Do not use the elevators in the event of a fire.

Hotel Staff will direct guests to the International Boulevard side of the building.

**In the event of a medical or fire emergency, contact hotel security immediately by pressing "O" on a hotel phone and asking for security.**

### Badges

Please wear your badge during the conference as it identifies you as a participant.

Badges are coded for easy recognition of different types of attendees. This year's badges are coded as follows:

Categories:

PURPLE    ATTENDEE

RED        EXHIBITOR

YELLOW    EXHIBIT HALL ONLY

National Tanks Ribbon Cutting Ceremony and Exposition Hours

Ribbon Cutting Ceremony

Monday, March 17 ..... 10 a.m. outside of the Georgia Halls

Expo Hours and Poster Sessions

Monday, March 17 ..... 10:00 a.m. – 5:00 p.m.

Tuesday, March 18 .....8:00 – 11:30 a.m. and 1:30 – 5:00 p.m.

Wednesday, March 19.....8:30 – 11:30 a.m.

Poster Sessions - located in the Georgia Prefunction Area of Georgia Halls on Level One.

Welcome Reception

20 Years of Partnerships for Protection

Monday, March 17 ..... 5:00 – 7:00 p.m.

Garden Courtyard – Level Two

Your conference badge is your ticket in.

Plenary Session

The Monday morning breakfast plenary will be held at 8 a.m. in Capitol Ballrooms North/Center located on Level One.

The Tuesday luncheon plenary, with guest speaker Lans Rothfusz, Meteorologist in Charge, National Weather Service, will be held at 11:30 a.m. in Capitol Ballrooms North/Center located on Level One.

Tickets are required for both of these meal functions.

Individual Session Evaluation Forms

Your opinion is important to us!

Individual Session Forms will be available in each session room. Please take a moment to fill out the appropriate form.

This valuable feedback is passed on to the moderators and speakers so we can continue to improve the sessions and make them as meaningful and useful as possible for all attendees.

Conference Evaluation Forms

Your opinion is important to us!

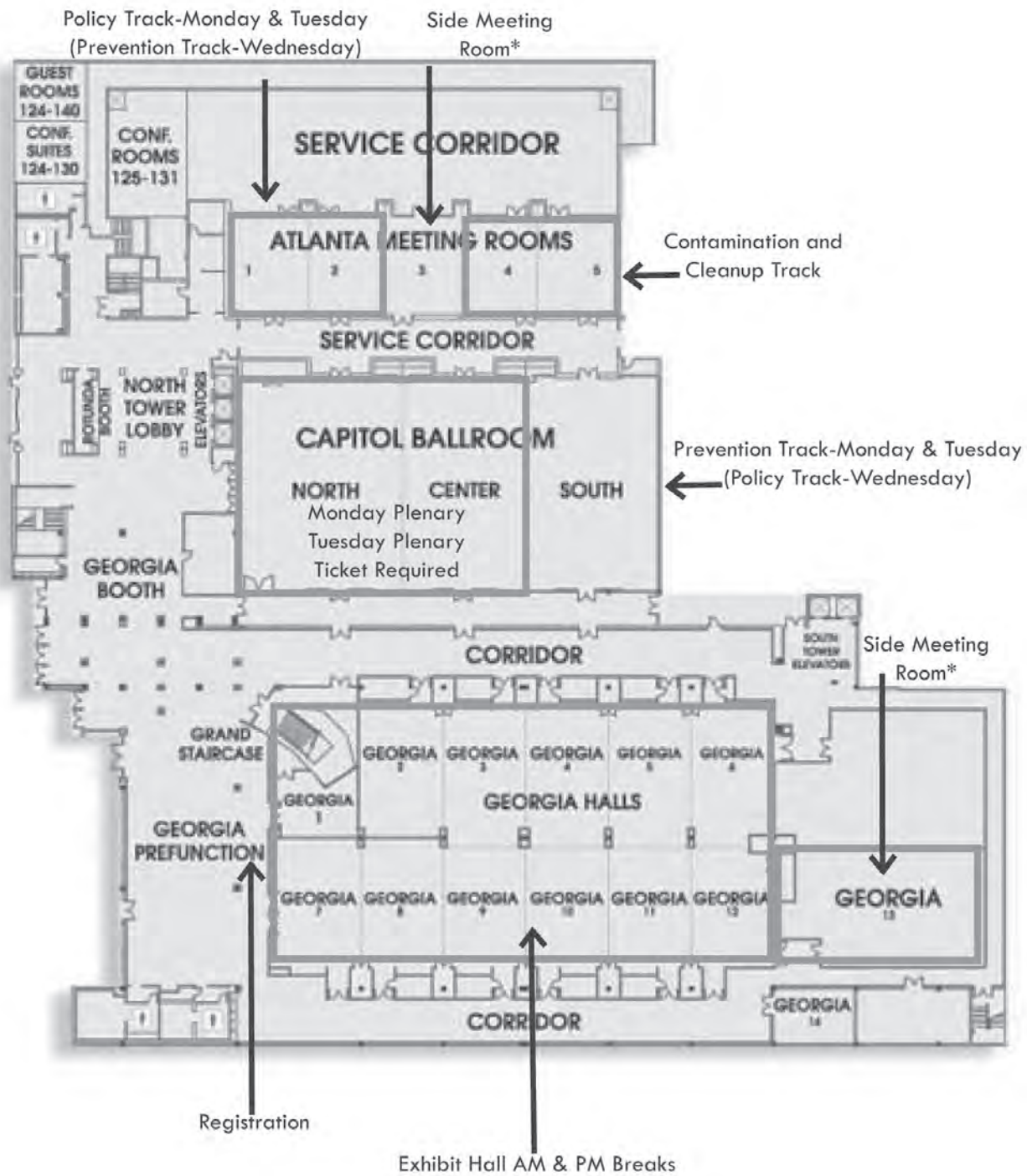
Conference Evaluation Forms are extremely valuable to the National Tanks Planning Committee when preparing for the following year’s conference. All forms are individually evaluated to ensure we are providing all attendees with a high quality experience.

Please leave your Conference Evaluation Form at the Registration/Information Desk.

Thank you for your time.

# the sheraton atlanta hotel floor plan

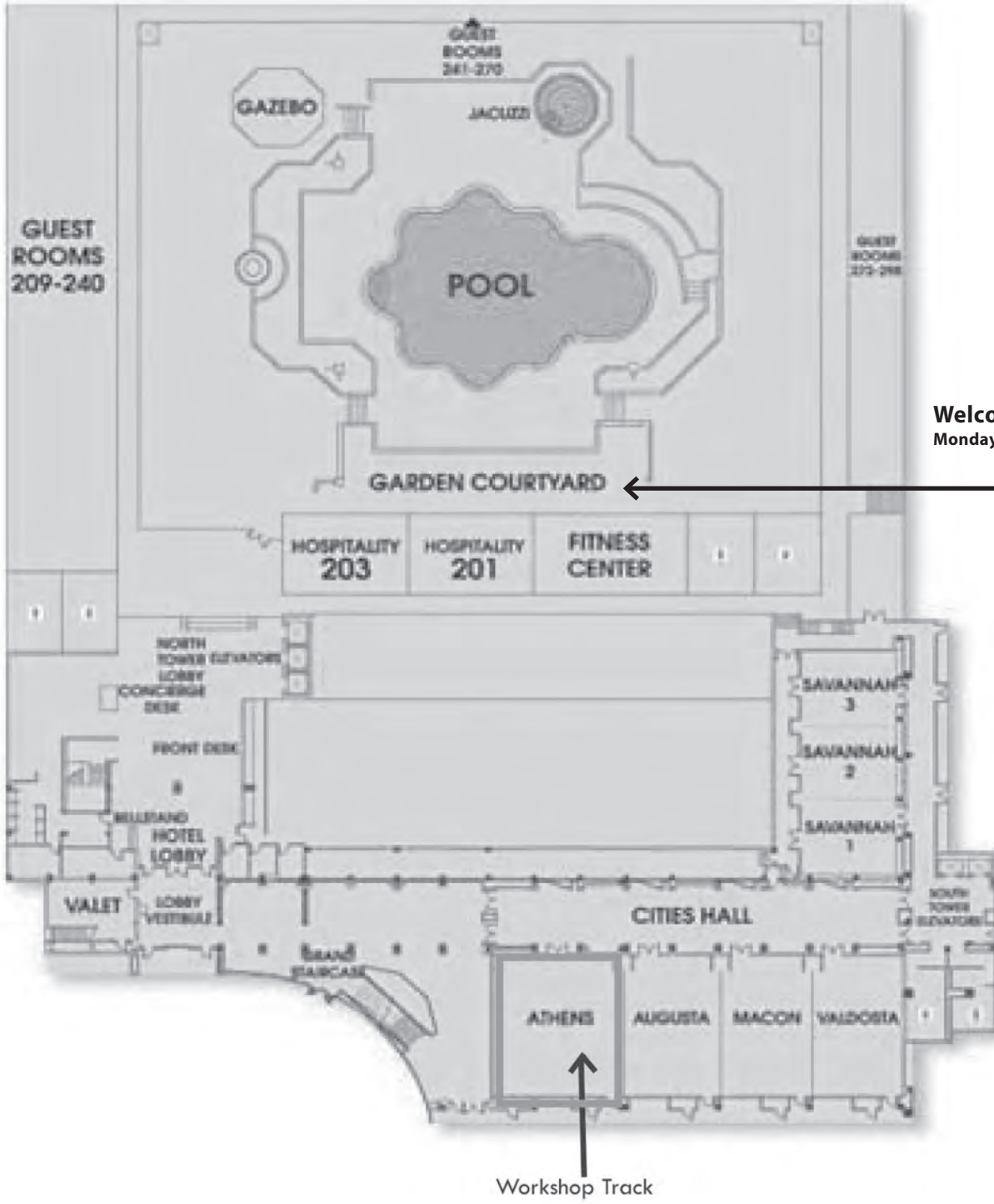
## LEVEL ONE



\*You must have reserved a room in advance.



## LEVEL TWO



# agenda for sunday, march 16, 2008

## Sunday, March 16, 2008

<b>Workshops</b> Lead: Stephen Reuter, NM	
12:30 – 4:30 Location: Augusta - Level Two (preregistration required)	<b>Inventory Control: A New Look at an Old Method of Leak Detection</b> Marcel Moreau, Marcel Moreau Associates
12:30 – 4:30 Location: Macon - Level Two (preregistration required)	<b>Assessing Vapor Intrusion at Petroleum Release Sites</b> Harley Hopkins, American Petroleum Institute Blayne Hartman, H&P Mobile Geochemistry Todd Ririe, BP Robin Davis, Utah Department of Environmental Quality

<b>Sunday Registration and Exhibitor Set-Up</b>	
11:30 – 4:00	<b>Conference Registration/ Information Desk Open:</b> Rotunda Booth- Level One
2:00 – 6:00	<b>Poster Session Area Open:</b> Georgia Prefunction
2:00 – 6:00	<b>Exhibit Set-Up:</b> Georgia Halls

6:00 – 7:00 p.m. ASTSWMO Task Force Chairs and Co-Chairs Meeting      Location: Georgia 13 - Level One

agenda as of 2/19/08



# agenda for monday, march 17, 2008

## Monday, March 17, 2008

7:00 – 5:00	<b>Conference Registration/ Information Desk Open:</b> Georgia Prefunction <b>Poster Session Area Open:</b> Georgia Prefunction			
8:00 – 10:00	<b>Breakfast Plenary (ticket required):</b> Capitol Ballroom North and Center  Moderator: <b>Ronald Poltak</b> , Executive Director, New England Interstate Water Pollution Control Commission Speakers: <b>Carol Couch</b> , Ph.D. Director, Environmental Protection Division, Georgia Department of Natural Resources <b>Russ Wright</b> , Deputy Regional Administrator, U.S. Environmental Protection Agency Region 4 <b>Principal Chief Michell Hicks</b> , Eastern Band of Cherokee Indians <b>Cliff Rothenstein</b> , Director, U.S. Environmental Protection Agency Office of Underground Storage Tanks			
10:00 – 10:30	<b>Expo Opening and Ribbon Cutting Ceremony:</b> Georgia Halls (Refreshments Available)			
10:00 – 5:00	<b>Exhibits Open:</b> Georgia Halls			
	<b>Prevention</b> Track Leaders: Laura Fisher-Chaddock, CA Marshall Mott-Smith, FL	<b>Contamination/ Cleanup</b> Track Leaders: Jennifer Steffes, CO Richard Spiese, VT	<b>Policy</b> Track Leaders: Stuart Gray, EPA Region 1 Michael Sexton, VA	<b>Workshops</b> Track Leader: Stephen Reuter, NM
10:30 – 12:00	<b>Leak Detection Performance</b>  Moderator: Tim Smith, EPA OUST  <b>Capitol Ballroom South Level One</b>	<b>Investigative Tools</b>  Moderator: John Gould, CO  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>States Only Meeting</b>  Moderators: Dick Swanson, GA Marshall Mott-Smith, FL  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>Tribal Only</b>  Moderators: Carl Jeffries, ITCA Robert Largent, ITEC  <b>Athens Level Two</b>
12:00 – 1:30	<b>Lunch (on your own)</b>			
1:30 – 3:00	<b>Secondary Containment</b>  Moderator: Laura Fisher-Chaddock, CA  <b>Capitol Ballroom South Level One</b>	<b>Petroleum Brownfields: Implementation Experiences</b>  Moderator: Steven McNeely, EPA OUST  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>Tribal/EPA</b>  Moderators: Carl Jeffries, ITCA & Bill Lienesch, EPA OUST  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>Catastrophic Release</b>  Moderator: Stephen Reuter, NM  <b>Athens Level Two</b>
3:00 – 3:30	<b>Break (Refreshments Available):</b> Georgia Halls			
3:30 – 5:00	<b>Inspections</b>  Moderator: Bill Truman, EPA Region 4 <b>Capitol Ballroom South Level One</b>	<b>Vapor Intrusion</b>  Moderator: John Menatti, UT  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>Experiences in Underground Storage Tank Compliance Training</b>  Moderator: Robert Largent, ITEC  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>Pulling it All Together: A Petroleum Brownfields Implementation Strategy</b>  Moderator: David Lloyd, EPA OSWER  <b>Athens Level Two</b>
5:00 – 7:00	<b>Welcome Reception: 20 Years of Partnerships for Protection</b> Garden Courtyard (Your Conference Badge is Your Ticket In)			

10:30 – 12:00 p.m. EPA Managers Meeting  
1:30 – 2:30 p.m. EPA Attorneys Meeting  
2:30 – 3:30 p.m. EPA and State Attorneys Meeting

Location: Salon E – Level Three  
Location: Atlanta 3 – Level One  
Location: Atlanta 3 – Level One

# agenda for tuesday, march 18, 2008

## Tuesday, March 18, 2008

7:00 – 5:00	<b>Conference Registration/ Information Desk Open:</b> Georgia Prefunction			
7:00 – 5:00	<b>Poster Session Area Open:</b> Georgia Prefunction			
8:00 – 11:30	<b>Exhibits Open:</b> Georgia Halls			
	<b>Prevention</b> Track Leaders: Laura Fisher-Chaddock, CA Marshall Mott-Smith, FL	<b>Contamination/ Cleanup</b> Track Leaders: Jennifer Steffes, CO Richard Spiese, VT	<b>Policy</b> Track Leaders: Stuart Gray, EPA Region 1 Michael Sexton, VA	<b>Workshops</b> Track Leader: Stephen Reuter, NM
8:00 – 9:30	<b>Leak Streaks</b> Moderator: Marshall Mott-Smith, FL  <b>Capitol Ballroom South Level One</b>	<b>Alternative Fuels</b> Moderator: Peter Rollo, DE  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>Expediting Enforcement</b> Moderator: Randall Mann, TN  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>Streamlining Inspection Programs with Database Technology</b> Moderator: Svetlana Zenkin, EPA Region 9 <b>Athens Level Two</b>
9:30 – 10:00	<b>Break (Refreshments Available):</b> Georgia Halls			
10:00 – 11:30	<b>Management Operations</b> Moderator: Richard Strickfaden, GA  <b>Capitol Ballroom South Level One</b>	<b>Innovative Technologies Part 1</b> Moderator: Stephen Reuter, NM  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>Getting to Closure</b> Moderator: Robin Hughes, EPA OUST  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>Operator Training</b> Moderator: Tim Smith, EPA OUST  <b>Athens Level Two</b>
11:30 – 1:30	<b>Luncheon (ticket required):</b> Capitol Ballroom North and Center  <i>The Challenges of Climate Change</i> <b>Lans P. Rothfusz</b> , Meteorologist In Charge, National Weather Service			
1:30 – 5:00	<b>Site Revitalization Tour- Buckhead Village and Atlantic Station</b> <b>Bus will leave promptly at 1:30 p.m.</b> Meet at 1:25pm at the Registration Area. Wear comfortable walking shoes. (Pre-registration required)			
1:30 – 3:00	<b>Alternative Fuels – An Overview</b> Moderator: Andrea Barbery, EPA OUST  <b>Capitol Ballroom South Level One</b>	<b>Innovative Technologies Part 2</b> Moderator: Jeff Kuhn, MT  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>Improving Compliance Implementation</b> Moderator: Carl Jeffries, ITCA  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>Accelerated Remediation Technologies (ART) In Well Technology</b> Moderator: Marco Odah, Accelerated Remediation Technologies, Inc. <b>Athens Level Two</b>
3:00 – 5:00	<b>EXPO (Refreshments Available):</b> Georgia Halls			

## Tuesday, March 18, 2008 - MEETINGS

4:30 – 5:30 p.m. EPA Region 3 – All States Meeting  
5:00 – 7:00 p.m. EPA Region 2 – All States Meeting

Location: Georgia 13 – Level One  
Location: Atlanta 3 – Level One

agenda as of 2/19/08



# agenda for wednesday, march 19, 2008

## Wednesday, March 19, 2008

8:00 – 11:30	<b>Conference Registration/ Information Desk Open:</b> Georgia Prefunction Area			
	<b>Prevention</b>  Track Leaders: Laura Fisher-Chaddock, CA Marshall Mott-Smith, FL	<b>Contamination/ Cleanup</b>  Track Leaders: Jennifer Steffes, CO Richard Spiese, VT	<b>Policy</b>  Track Leaders: Stuart Gray, EPA Region 1 Michael Sexton, VA	<b>Workshops</b>  Track Leader: Stephen Reuter, NM
8:30 – 10:00	<b>Alternative Fuels- Policy and Standards</b>  Moderator: Tom Collins, IA  Session Organizer: Andrea Barbary, EPA OUST <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>LUST and Drinking Water Wells</b>  Moderator: Victoria Matthews, EPA Region 7  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>EPA/State</b>  Moderators: Dick Swanson, GA Cliff Rothenstein, EPA OUST  <b>Capitol Ballroom South Level One</b>	<b>3-D and 4-D Site Characterization, Visualization Planning and Execution Strategies</b>  Moderator: Stuart McDonald, Aestus, LLC.  <b>Athens Level Two</b>
10:00 – 10:15	Break: Georgia Prefunction Area			
10:15 – 11:45	<b>UST Equipment Performance</b>  Moderator: Stephen Brown, FL  <b>Atlanta Rooms 1 &amp; 2 Level One</b>	<b>EDB/Lead Scavengers</b>  Moderators: Richard Spiese, VT Lisa Lewis, GA  <b>Atlanta Rooms 4 &amp; 5 Level One</b>	<b>Streamlining Facility Inspections</b>  Moderator: Fred McGarry, NH  <b>Capitol Ballroom South Level One</b>	<b>Protecting Transient Non- Community Water Systems through Operator Training</b>  Moderator: Kara Sergeant, NEIWPC  <b>Athens Level Two</b>
Noon	<b>Adjourn</b>			

## Wednesday, March 19, 2008 – MEETINGS

1:30 – 5:00 p.m.	ASTSWMO Fuel Oxygenates & Additives Work Group	Location: Georgia 2 & 3 – Level One
1:30 – 5:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Atlanta 3 – Level One
1:30 – 5:00 p.m.	ASTSWMO UST Task Force Meeting	Location: Georgia 13 - Level One

## Thursday, March 20, 2008 – MEETING

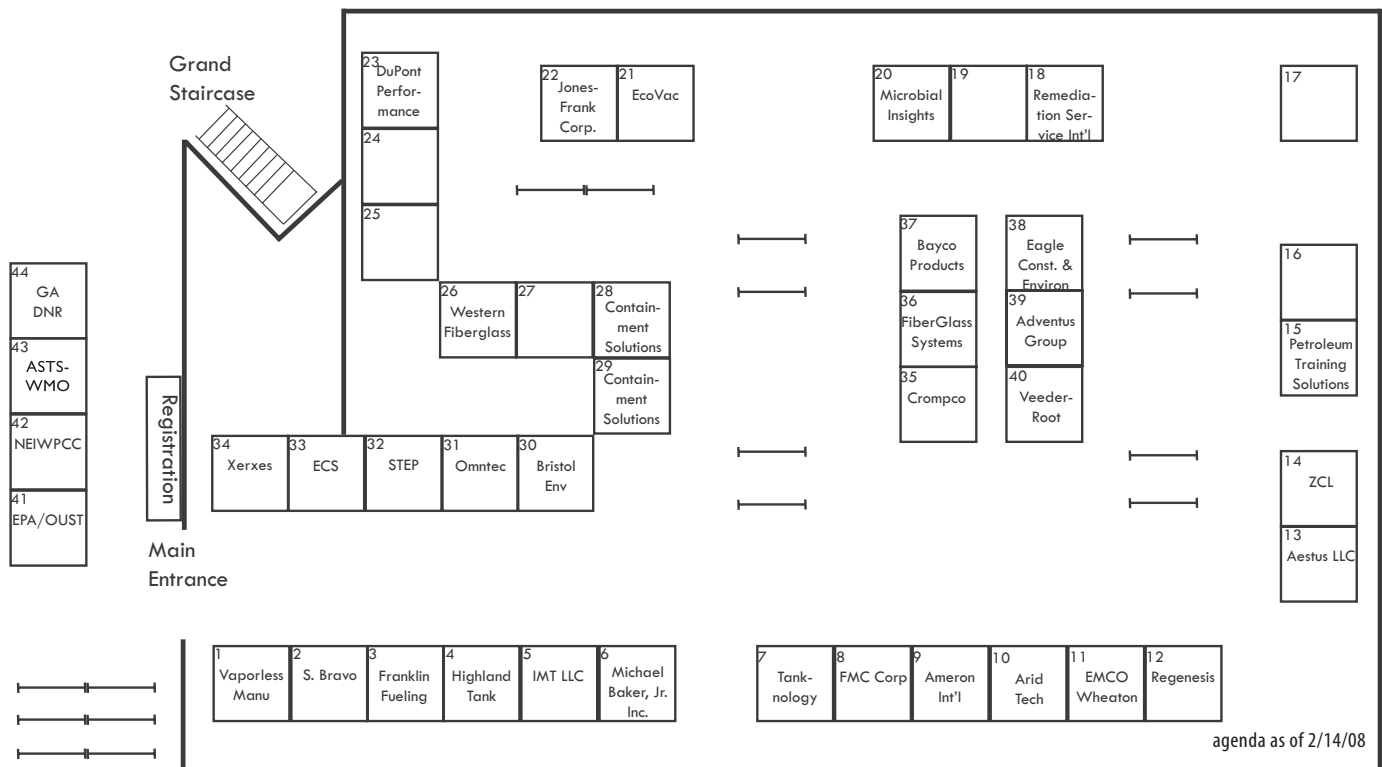
8:00 – 5:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Athens - Level Two
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## Friday, March 21, 2008 – MEETING

8:00 – 5:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Athens – Level Two
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agenda as of 2/19/08

# exhibitor profiles



## Adventus Group

2871 W. Forest Road, Suite 2  
Freeport, IL 61032  
Tel: 860-295-8661  
Contact: Mike Mueller  
Email: Mike.Mueller@AdventusGroup.com  
www.adventusgroup.com



*Proven Soil, Sediment, and Groundwater Remediation Biotechnologies*

Booth 39

The Adventus Group provides the environmental remediation industry with a portfolio of innovative technologies, including those exclusive to affiliated companies EnviroMetal Technologies, Adventus Americas, and select strategic partners. Our business model is to support site owners, environmental engineers, and diverse consulting professionals exceed their client's expectations by providing unbiased design, and selection of the most cost effective remediation strategies available.

## Aestus, L.L.C.

2605 Dotsero Court  
Loveland, CO 80538  
Tel: 888-436-8729  
Contact: Stuart W. McDonald, P.E.  
Email: swm@aestusllc.com  
www.aestusllc.com



Booth 13

Aestus was founded by environmental engineers and university academicians to address the largest challenge facing the LUST industry; incomplete site characterization which leads to inadequate site remediation solutions. Aestus, LLC's proprietary GeoTrax Survey™ technology is the "CAT-Scan/MRI/X-Ray" of the environmental industry providing continuous high resolution 2-D, 3-D & 4-D subsurface images which eliminate the need to "drill blind" on LUST and other sites. Benefits to our clients include lower overall project costs and rapid site closure.

## Ameron Fiberglass-Composite Pipe

9720 Cypresswood Drive, Suite 325  
Houston, TX 77070  
Tel: 832-912-8282  
Contact: Joie Folkers  
Email: marcom@ameronfpd.com  
www.dualoy-fuelhandling.com



Booth 9

Ameron Dualoy® fiberglass pipe products for underground use include coaxial (LCX) and single-wall products (3000/L). Coaxial pipe for marina and aboveground use is also available (MCX). Ameron has the most complete UL Listing for all products, services and fuel types. The coaxial piping can be continuously monitored using pressure or vacuum. Ameron has patented the only hydrostatic monitoring system that satisfies ILLM requirements for product piping in California and Listed by the NWGLDE.

## ARID Technologies, Inc.

323 S. Hale Street  
Wheaton, IL 60187  
Tel: 630-681-8500  
Contact: Michael Heffernan  
Email: mheffernan@ARIDtech.com  
www.ARIDtech.com



Booth 10

ARID Technologies' PERMEATOR, prevents the evaporative loss of gasoline vapors and resulting product loss from gasoline storage tanks. The system received CARB certification. Independent, third-party field tests confirmed the predicted evaporative losses and determined that PERMEATOR reduced the losses by 99.27%. Reduction of these emissions provides up to an annual 95% return on investment. PERMEATOR is offered with a 3 yr. parts and labor warranty, and over 300 systems are installed, worldwide.



**ASTSWMO**

444 North Capitol Street, N.W.  
Washington, DC 20001  
Tel: 202-624-7886  
Contact: Julius Shapiro  
Email: jshapiro@astswmo.org  
www.astswmo.org



Booth 43

ASTSWMO is a non-profit, non-partisan association organized in 1974 to represent State managers responsible for the regulation, and cleanup of underground storage tanks, hazardous waste, and other non-hazardous wastes. Our members are all State employees with technical backgrounds in engineering, geology, hydrology, etc., and are engaged in the day-to-day management of these State programs. In addition to State programs, they manage federally delegated programs, such as authorized UST Programs, and hazardous waste programs in the States.

**Bayco Products, Inc.**

640 S. Sanden Blvd.  
Wylie, TX 75098  
Tel: 800-233-2155  
Contact: Frank Leon  
Email: fleon@baycoproducts.com  
www.baycoproducts.com



Booth 37

Bayco designs and manufactures portable/rechargeable intrinsically safe personal task lights for maintenance and inspection technicians. Each of our products are engineered for the utmost in reliability and dependability while providing maximum personal agility and mobility. Bayco's intrinsically safe task lights are the only lighting solution when, explosion proof lighting isn't good enough. UL classified intrinsically safe, Class 1, Division 1 & 2, Groups C&D.

**Bristol Environmental Remediation Services, LLC**

111 W. 16th Avenue, Third Floor  
Anchorage, AK 99501  
Tel: 907-563-0013  
Contact: Patricia Curl  
Email: pcurl@bristol-companies.com  
www.bristol-companies.com



Booth 30

BERS is a 100% Native American-owned company and is a certified 8(a) business with the Small Business Administration. BERS is a wholly owned subsidiary of Bristol Bay Native Corporation (BBNC). Our services include environmental site characterizations, investigations, and scientific studies; hazardous materials removal and disposal; regulatory compliance; regulated UST/LUST closure; site demolition, deactivation and debris removal; and remedial design and installation. Remedial action projects include design of remedial systems; removal, destruction, and disposal of contaminants and wastes; and remedial system construction, operation, and monitoring.

**Containment Solutions**

5150 Jefferson Chemical Rd  
Conroe, TX 77301  
Tel: 936-756-7731  
Contact: David Heiman  
Email: dheiman@csiproducts.com  
www.containmentsolutions.com



Booth 28 & 29

Containment Solutions, Inc. (CSI) specializes in the manufacturing of underground fiberglass storage tanks (500 - 50,000 gal.) designed with rust-resistant fiberglass for safe, long term containment of petroleum, automotive and water storage; oil/water separators for storm water discharges and Fiberglass manholes, rehabilitation manholes and wetwells for the wastewater industry. CSI tanks can be manufactured to meet specific requirements including compartments and manways. CSI water tanks can contribute up to 7 LEED points in a green-building applications.

**CROMPCO, LLC**

1815 Gallagher Rd.  
Plymouth Meeting, PA 19462  
Tel: 800-646-3161  
Contact: Tony Bandiero  
Email: tony.bandiero@crompco.com  
www.crompco.com



Booth 35

CROMPCO is the nation's premier Underground Storage Tank, Line & Vapor Recovery Test Specialist. Our core services include Environmental Testing, Compliance Management, Tank Cleaning, Sump Reconditioning and Repair and Inspection & Training Services. Additional Services and Special Projects are obtainable.

**DuPont Performance Elastomers**

300 Bellevue Parkway, Suite 300  
Wilmington, DE 19809  
Tel: 302-792-4170  
Contact: Ed Ferber  
Email: Edward.P.Ferber@dupontelastomers.com  
www.dupontelastomers.com



Booth 23

DuPont Performance Elastomers (DPE) is a leading global supplier of specialty elastomers building on more than 70 years of elastomers industry experience, providing innovative solutions to help our customers stay ahead of the competition. DuPont Performance Elastomers offers the technical knowledge and solutions that customers need to develop applications and get their products to market more quickly. DuPont Performance Elastomers manufactures Viton®, Kalrez®, Hypalon® and Neoprene. Vamac® is a product of DuPont and is brought to market by DPE. These products are well known for their performance in automotive applications.

**Eagle Construction & Environmental Services, L.P.**

PO Box 872  
Eastland, TX 76448  
Tel: 254-629-1718  
Contact: Johnny Cagle  
Email: johnnyc@ecesi.com  
www.ecesi.com



Booth 38

Eagle is a full service emergency response, environmental remediation and specialized construction company. Eagle's services cover client's needs, from the predictable and planned to the sudden emergency and disaster situation. Our capabilities range from environmental remediation and construction to waste management and transportation to Emergency Response Strike Teams. Visit our website www.ecesi.com for a full description of our capabilities and services.

**EcoVac Services**

105 Weatherstone Drive, Suite 610  
Woodstock, GA 30188  
Tel: 770-592-1001  
Contact: Nick Athens  
Email: nick.athens@ecovacservices.com  
www.ecovacservices.com



Booth 21

EcoVac Services is the world leader in mobile dual-phase/multi-phase extraction, having implemented the process over 8,000 times at over 1,500 sites throughout 40 states and Puerto Rico. EcoVac Services' patented SURFAC® (surfactant injection combined with dual-phase/multi-phase extraction) and ISCO-EFR® processes (in-situ chemical oxidation combined with dual-phase/multi-phase extraction) have been highly effective for free product and dissolved phase contaminant removal across many different and challenging hydrogeologic environments.

## exhibitor profiles

### Emco Wheaton Retail Corp.

2300 Industrial Park Drive  
Wilson, NC 27893  
Tel: 252-243-0150  
Contact: Betty West  
Email: baw@emcoretail.com  
www.emcoretail.com



Booth 11

Emco Wheaton Retail Corporation, Wilson, North Carolina, manufactures a wide range of products to ensure the environmentally safe handling of liquid petroleum. Products include vapor recovery and automatic nozzles, dispenser hardware, overfill prevention and spill containment devices, manholes including double wall and composites, and valves.

### Environmental Compliance Services, Inc.

607 North Avenue, Suite 11  
Wakefield, MA 01880  
Tel: 800-344-1958  
Contact: William J. Alpine Jr., Esq.  
Email: balpine@ecsconsult.com  
www.ecsconsult.com



Booth 33

Established in 1982, ECS is a pioneering environmental consulting firm with more than 200 professionals and offices throughout the Northeast, Midwest, and Southeast. ECS' full line of services includes site assessment, remediation and engineering, fuel system management, industrial hygiene services, cost recovery services, and health and safety training.

### Fiber Glass Systems

2700 West 65th Street  
Little Rock, AR 72209  
Tel: 501-618-2256  
Contact: Patty Tanner  
Email: patty.tanner@nov.com



Booth 36

Fiber Glass Systems RED THREAD® IIA fiberglass piping systems are UL 971 Listed for all UL identified fuels and applications, including 100% Ethanol and Methanol. Red Thread IIA piping systems are compatible with Biodiesel and E85. UL 971 Listed Red Thread IIA Double Wall Bonded Sump Entry/Termination Fittings and vacuum monitoring of the interstitial space have allowed the Red Thread IIA system to meet the state of California's definition of a Class 1 (Leak Prevention) System.

### FMC Corporation

1735 Market Street  
Philadelphia, PA 19103  
Tel: 815-228-1306  
Contact: Linda Osborne  
Email: linda.osborne@fmc.com  
www.klozur.com



Booth 8

FMC's safe and easy-to-use line of remediation products address both source and low level contaminant concentrations; Klozur® Activated Persulfate, PermeOx Plus®, Fenton's chemistry and Klozur CR™. FMC's chemistries are globally proven to successfully address a wide range of organic contaminants including petroleum hydrocarbons, chlorinated solvents, pesticides and other recalcitrant compounds. FMC offers technical support, safety training, laboratory services, handling equipment and a network of experienced remedial design contractors to insure safe/efficient use of our products.

### Franklin Fueling Systems

3760 Marsh Road  
Madison, WI 53718  
Tel: 608-838-5685  
Contact: Gary Saltz  
Email: saltz@franklinfueling.com  
www.franklinfueling.com



Booth 3

Franklin Fueling Systems is comprised of the industry's most extensive lines of fueling product solutions including: dispensing systems (Healy), fuel management systems (INCON), piping & containment (APT), submersible pumping systems (FE Petro), service station hardware & transport systems (EBW & Phil-Tite). Innovative products include: 4 hp variable speed submersibles for high volume sites, EVR approved Phase I & Phase II vapor recovery equipment, In-Station Diagnostics (ISD), fiberglass & poly sumps, UL flexible pipe.

### Highland Tank

One Highland Road  
Stoystown, PA 15563-0338  
Tel: 701-848-0122



Contact: John Campbell  
Email: jcampbell@highlandtank.com  
www.highlandtank.com

Booth 4

Highland Tank - The nation's leading producer of steel storage. A full-service tank company, we manufacture Aboveground & Underground tanks, Oil/water Separators Automatic and Passive Grease Interceptors, Pressure Vessels, tanks for Residential and Farm use, and a complete line of products for the Lube industry. We have a national distribution network and six state-of-the-art fabrication facilities. Our production capabilities in the industry are unmatched to meet your storage tank needs.

### IMT, LLC

2508 Ticheli Road  
Monroe, LA 71202  
Tel: 318-325-1830  
Contact: Charles Plummer, P.E., M.S.  
Email: rick.plummer@imtco.net  
www.imtco.net



Booth 5

IMT is a leading provider of soil and groundwater remediation equipment, and offers a full line of high quality products and services to environmental firms, industry, and government. IMT manufactures and assembles our equipment using the latest in innovative manufacturing technology. IMT offers new remediation equipment as well as used remediation equipment that has been refurbished. All of our remediation equipment comes with a one year warranty that is supported by an experienced engineering and technical support team.

### Jones-Frank Corp.

4240 Morris Field Drive  
Charlotte, NC 28208  
Tel: 704-393-8542 x 232  
Contact: Steve Bernstein  
Email: sbernstein@jones-frank.com  
www.jones-frank.com



Booth 22

Jones & Frank is a multi-branch Petroleum Equipment Services Provider operating from 9 branch offices located in the Southeast and Mid-Atlantic United States. We are a full-line consultant, distributor, 24/7 service and turnkey installation contractor, in business since 1947. We specialize in conventional and alternative fuel systems for the vehicular, motorized fueling & emergency power markets, representing the best-in-class product line manufacturers. We have 200+ employees working in over ten states.



**Michael Baker Jr., Inc.**

1304 Concourse Drive, Suite 200  
 Linthicum, MD 21090  
 Tel: 410-689-3424  
 Contact: Scott Allen  
 Email: [sallen@mbakercorp.com](mailto:sallen@mbakercorp.com)  
[www.mbakercorp.com](http://www.mbakercorp.com)



Booth 6

Michael Baker Corporation, provides engineering and operations and maintenance expertise for public and private sector clients worldwide. Our primary markets of focus are Environmental, Aviation, Facilities, Federal, Geospatial Information Technologies, Pipelines and Telecommunications, Transportation, and Water/Wastewater. With more than 4,500 employees in over 40 offices across the United States and Internationally, Baker is consistently ranked by Engineering News-Record among the top 10% of the 500 largest U.S. design firms.

**Microbial Insights**

2340 Stock Creek Blvd.  
 Rockford, TN 37853  
 Tel: 865-573-8188  
 Contact: Dora Ogles  
 Email: [dogles@microbe.com](mailto:dogles@microbe.com)  
[www.microbe.com](http://www.microbe.com)



Booth 20

Microbial Insights, Inc. (MI) is an environmental biotechnology laboratory which applies cutting edge molecular based diagnostic tools (MBTs) to assess the effectiveness of bioremediation. MBTs available from Microbial Insights, Inc. include: PLFA, Q-PCR, DGGE, mRNA, and SIP (Stable Isotope Probing). Two key analyses used in site evaluation are PLFA and Q-PCR. PLFA is an analysis used to obtain a broad overview of viable biomass, community structure, and metabolic activity. Q-PCR is a targeted approach used for the quantification of groups of organisms such as "known" dechlorinating bacteria (Dehalococcoides (Bio-Dechlor CENSUS), Dehalobacter, etc.), methanogens, sulfate reducing bacteria and many others.

**NEIWPC**

116 John Street  
 Boott Mills South  
 Lowell, MA 01852  
 Tel: 978-323-7929  
 Contact: Kara Sergeant  
 Email: [NTCinfo@neiwpc.org](mailto:NTCinfo@neiwpc.org)  
[www.neiwpc.org](http://www.neiwpc.org)



Booth 42

The New England Interstate Water Pollution Control Commission initiates pertinent research, conducts training seminars, coordinates national conferences, convenes workgroup discussions, and publishes *LUSTLine*, which for years has been the publication of record for UST and LUST matters nationwide.

**OMNTEC Mfg., Inc.**

1993 Pond Road  
 Ronkonkoma, NY 11779  
 Tel: 631-981-2001  
 Contact: Doreen Metz  
 Email: [doreenm@omntec.com](mailto:doreenm@omntec.com)  
[www.omntec.com](http://www.omntec.com)



Booth 31

OMNTEC Mfg., Inc., manufacturer of leak detection, tank gauging, pump control and wireless products for the petroleum industry, has developed the next Generation in tank monitoring systems. The OEL8000II not only decreases installation costs with its 4-wire network technology, It provides the user with unprecedented versatility in monitoring refrigeration, HVAC, air quality, bulk oil tanks and more.

**Petroleum Training Solutions**

73 Bell Street  
 Portland, Maine 04103  
 Tel: 800-505-7884  
 Contact: Betty Snowman  
 Email: [info@PetroleumTrainingSolutions.com](mailto:info@PetroleumTrainingSolutions.com)  
[www.PetroleumTrainingSolutions.com](http://www.PetroleumTrainingSolutions.com)



Booth 15

Three well-known UST experts have combined talents to provide the best selection of UST training resources available. Petroleum Training Solutions offers pain relief for your Energy Act headaches. We provide down-to-earth UST information you can use to comply with regulations, achieve best management practices, and protect your valuable assets. Training is available in classroom, online, and print formats.

**Regenesis**

115-B Broadus Avenue  
 Greenville, SC 29601  
 Tel: 864-240-9181  
 Contact: Drew Baird  
 Email: [dbaird@regenesis.com](mailto:dbaird@regenesis.com)  
[www.regenesis.com](http://www.regenesis.com)



Booth 12

For over a decade, Regenesis has excelled as a leader in the development and commercialization of advanced technologies for contaminated groundwater and soil remediation. Specializing in proven, low-cost enhanced bioremediation as well as advanced in-situ chemical oxidation, Regenesi's products have been applied on over 14,000 sites worldwide. Oxygen Release Compound (ORC®), Hydrogen Release Compound (HRC®), RegenOx™ and 3-D Microemulsion™ are a few of the core technologies that Regenesis offers and supports in the global remediation marketplace.

**Remediation Service Int'l**

4835 Colt Street, Unit D  
 Ventura, CA 93003  
 Tel: 800-368-8685 x 13  
 Contact: Kevin Fritz  
 Email: [Kevin.fritz@rsi-save.com](mailto:Kevin.fritz@rsi-save.com)  
[www.rsi-save.com](http://www.rsi-save.com)



Booth 18

RSI is a manufacturer of soil vapor extraction, dual phase extraction, groundwater treatment, tank de-gassing, and portable vapor treatment equipment. For over twenty years RSI has focused on improvements to existing soil vapor extraction techniques, data logging, improving the response, flow rate, and reducing emissions of our patented, Internal Combustion Engine portable treatment units. We also offer catalytic oxidizer, hydrophobic membrane, and electric generator options.

**S. Bravo Systems, Inc.**

2929 Vail Ave.  
 Commerce, CA 90040  
 Tel: 323-888-4133  
 Contact: Paola Recendez  
 Email: [Paola@sbravo.com](mailto:Paola@sbravo.com)  
[www.sbravo.com](http://www.sbravo.com)



Booth 2

S. Bravo Systems is the leading manufacturer of high performance secondary containment systems. Bravo offers complete secondary containment systems and support that incorporate innovative engineering, industry feedback, and unrivaled customer service to deliver high-end products that protect our ecosystem with a zero-leak standard. Bravo Systems has earned an unparalleled reputation by creating best-of-breed products that offer superb long-term quality and reliability.

## exhibitor profiles

### Society of Tank & Equipment Professionals

362 Carl Creek Trail  
Kennesaw, GA 30152  
Tel: 770-426-1133  
Contact: Bill Greer  
Email: billgreer@mindspring.com  
www.STEPonline.org



Booth 32

The Society of Tank and Equipment Professionals (STEP) is an association for individuals involved in the Petroleum Storage Tank (PST) industry to include marketers, PST Contractors/Environmental consultants, gas convenience store owners/operators, Fleet Owners/Operators, PST Testing/Service providers, etc. The mission of STEP is to be a source of information to its members on all state matters/issues pertaining to Petroleum Storage Tanks and related equipment within individual states. Membership is free.

### State of Georgia EPD

4244 International Parkway  
Suite 104  
Atlanta, GA 30354  
Tel: 404-362-2687  
Contact: Dick Swanson  
Email: richard\_swanson@dnr.state.ga.us  
www.gaepd.org



Booth 44

The State of Georgia Underground Storage Tank Management Program is an EPA-approved program that regulates the operation, closure, and release management of USTs in the State of Georgia. The USTMP works to prevent and clean up releases in the most cost-effective manner that is protective of human health and the environment, using risk-based corrective action and both established and cutting-edge technology. Funding for most clean-ups comes from the voluntary Georgia Underground Storage Tank (GUST) fund or from the responsible party. Historically, the USTMP has regulated 76,208 USTs over the course of the program, and overseen the closure of 46,177 UST systems. The USTMP regulates approximately 10,700 active facilities with about 30,000 active USTs. A total of 11,766 releases have been reported to the USTMP and 9,559 have been resolved.

### Tanknology

8501 N MoPac  
Expressway #400  
Austin, TX 78759  
Tel: 512-380-7146  
Contact: Miranda Clark  
Email: mclark@tanknology.com  
www.tanknology.com



Booth 7

Tanknology is the largest provider of UST compliance solutions in the world. Our crews provide testing and related services at more than 37,000 sites each year, for customers ranging from the largest oil companies to the smallest individual operators, in every corner of the country. Our services include compliance testing, including tanks, lines and leak detectors, secondary containment testing, cathodic protection services, ATG equipment installation and much more. Tanknology -- for all your compliance needs.

### U.S. EPA Office of Underground Storage Tanks

1200 Pennsylvania Avenue, NW Mail Code 5401P  
Washington, DC 20460  
Tel: 703-603-7171  
Contact: Karen Ellenberger  
Email: ellenberger.karen@epa.gov  
www.epa.gov/oust



Booth 41

The U.S. Environmental Protection Agency's Office of Underground Storage Tanks (OUST) works with its partners - EPA regions, states, local governments, tribes, regulated community, and industry - to prevent and clean up releases from the nation's federally-regulated underground storage tanks. OUST's exhibit portrays the challenges ahead that we, along with our underground storage tank partners, can overcome.

### Vaporless Manufacturing, Inc.

8700 E. Long Mesa Dr.  
Prescott Valley, AZ 86314  
Tel: 928-775-5191  
Contact: Greg Young  
Email: vmi@vaporless.com  
www.vaporless.com



Booth 1

Company targets Best In Class solutions for line leak detection, AST overflow protection, line leak detector test equipment, & sump testing equipment. Electronic "problem solvers," the ARM and ISM products, provide solutions for thermal induced slow flow on line leak detection equipment. Education and certifications for line leak detector installation, catastrophic line leak detector testing & sump testing equipment. Equipment compatible with Ethanol, Methanol, Biodiesel, Aviation Fuel, typical gasoline and diesel.

### Veeder-Root Company

125 Powder Forest Drive  
Simsbury, CT 06089  
Tel: 860-651-2879  
Contact: Eva Chambers  
Email: echambers@veeder.com  
www.veeder.com



Booth 40

Veeder-Root is the world's leading supplier of automatic tank gauging and fuel management systems and one of the few companies in the industry to design, manufacture and service its own products, with tank monitoring systems in more than 500,000 underground storage tanks around the globe. Veeder-Root is also introducing a suite of Vapor Recovery Monitoring Products that allow end users to comply with new government regulations as well as protect the environment.

### Xerxes Corp.

7901 Xerxes Ave. S.  
Minneapolis, MN 55431  
Tel: 952-887-1828  
Contact: Kristi Peterson  
Email: kpeterson@xerxescorp.com  
www.xerxescorp.com



Booth 34

Xerxes Corporation is a leading national manufacturer of fiberglass underground storage tanks for the storage of petroleum and water/wastewater products with four manufacturing facilities strategically located nationwide. Tanks are available in single, double, or triple wall ranging in sizes from 600 to 50,000 gallons. Custom sizes and designs are also available. Xerxes also manufactures a unique, third party (UL) performance verified, line of oil/ water separators.

### ZCL Composites, Inc.

6907-36 Street  
Edmonton, Alberta Canada T6B 2Z6  
Tel: 604-209-1457  
Contact: Ron Koch  
Email: Ron.koch@zcl.com  
www.zcl.com

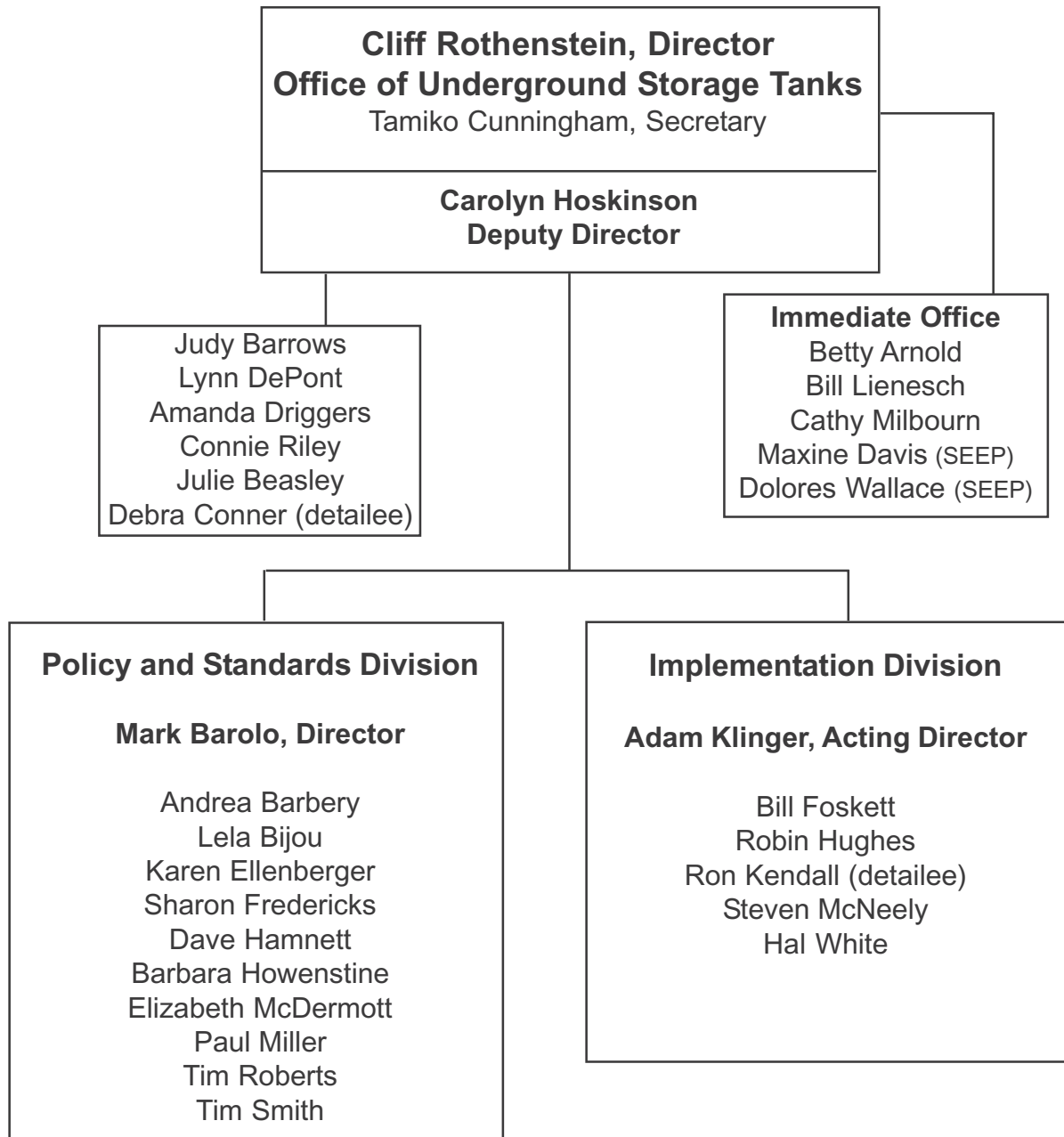


Booth 14

ZCL Composites's core business is the manufacture and sale of fiberglass underground and aboveground storage tanks and related products and accessories. Our vision is to be the leading global provider of environmentally friendly liquid storage solutions. ZCL has led the way in innovative fiberglass tank technology, from the ULC listed single wall storage tank in 1988, to the development and introduction of the first fiberglass reinforced plastic (FRP) double wall tank manufactured in Canada. The same proven technology and processes are used in ZCL's secondary containment and tank lining systems. The company continues to innovate with expanding product lines for the safe storage of petroleum products, hazardous liquids, sewage and water, as well liquid storage solutions for many industries. ZCL Composites Inc. remains committed to setting standards for economical, environmentally safe and long lasting liquid storage technology.









**Come Chat With Your Colleagues About Their Current Projects and New Ideas at the UST/LUST Expo Poster Session, Tuesday, March 18th, 3:00pm-5:00pm.** Don't miss the presentation of the prestigious Annual UST/LUST Poster Session Award. Posters will be on display all week. Poster Authors will be present Tuesday afternoon 3:00pm – 5:00pm. Poster Session Co-Moderators: **Matt Small**, US EPA, Region 9, and **Jim Weaver**, US EPA, NERL

**Production of Methane during Anaerobic Degradation of Ethanol in Gasoline;** John T. Wilson and Cherri Adair, USEPA Robert S. Kerr Environmental Research Center, Ada, OK, wilson.johnt@epa.gov

**Distribution of EDB at Gasoline Spill Sites;** John Wilson<sup>1</sup>, Cherri Adair<sup>1</sup>, and Hal White<sup>2</sup>, <sup>1</sup>USEPA Robert S. Kerr Environmental Research Center, Ada, OK, wilson.johnt@epa.gov, adair.cherri@epa.gov, <sup>2</sup>USEPA OUST, Washington DC, white.hal@epa.gov

**Natural Anaerobic Biodegradation of TBA in Aquifer Sediments at Gasoline Spill Sites;** Cherri J. Adair and John T. Wilson, USEPA Robert S. Kerr Environmental Research Center, Ada, OK, adair.cherri@epa.gov

**New Passive Diffusion Sampler to Measure Vertical BTEX Soil Gas Concentrations;** Cindy Paul, USEPA Robert S. Kerr Environmental Research Center, Ada, OK, paul.cindy@epa.gov

**U.S. Gasoline Composition;** Jim Weaver, USEPA National Exposure Research Laboratory, Athens, GA weaver.jim@epa.gov

**SiteRank A Model for Ranking Potential Impacts to Wells from Contaminant Sources;** Matt Small<sup>1</sup>, Jim Weaver<sup>2</sup>, Jack Hwang<sup>3</sup>, and Thomas Mohr<sup>4</sup>, <sup>1</sup>USEPA Region 9, San Francisco, CA, small.matthew@epa.gov, <sup>2</sup>USEPA, Athens, GA, <sup>3</sup>USEPA Region 3, Philadelphia, PA, <sup>4</sup>Santa Clara Valley Water District, Santa Clara, CA.

**A Higher Standard: One Creative Solution for Protecting Six Sacred Springs;** Mimi Newton and Matt Small, USEPA Region 9, San Francisco, CA, newton.mimi@epa.gov

**Developing Draft Cleanup Standards for the Navajo Nation;** Henry Haven, Navajo Nation EPA, Window Rock, AZ, hhavenjr@hotmail.com

**Compliance Assistance in Indian Country: Challenges and Successes;** Pinu'u Stout, Eight Northern Indian Pueblos Council, Albuquerque, NM pinuu.stout@gmail.com

**Full Scale Remediation of Residual Phase LNAPL Using Electrical Resistance Heating;** Jeffrey A. Kuhn<sup>1</sup>, Patrick Skibicki<sup>1</sup>, Ken Manchester<sup>2</sup>, <sup>1</sup>Montana Department of Environmental Quality, LUST Brownfields Section, Helena, Montana, <sup>2</sup>MSE Technology Applications, Butte, MT jkuhn@mt.gov

**Subsurface Petroleum Hydrocarbon Vapor Occurrence & Attenuation PART 1: Comparison of High-Quality Field Data in Utah to Sites Nationwide;** Robin V. Davis, P.G., Project Manager, Utah Department of Environmental Quality, LUST Program, rdavis@utah.gov

**Subsurface Petroleum Hydrocarbon Vapor Occurrence & Attenuation PART 2: Comparison of Nationwide Field Data to Two Vapor Models;** Robin V. Davis, P.G., Project Manager, Utah Department of Environmental Quality, LUST Program, rdavis@utah.gov

**Accelerated Site Cleanup Using Sulfate Enhancement Technology;** Mike Martinson, Jim Cuthbertson, Delta Consultants, Novi, MI, mmartinson@deltaenv.com

**Rapid Detection of Biological Contamination in Fuels and Fuel Storage Systems;** Howard Chesneau, and Edward English, Fuel Quality Services, Inc., Flowery Branch, GA, (800) 827-9790

**Using Parametric Cost Models to Forecast Underground Storage Tank Remediation Liability;** Andrew D. Schleppe and Mr. John E. Claypool, Earth Tech, Inc., Greenwood Village, Colorado, andrew.schleppe@earthtech.com

**Evaluation of Natural Attenuation Rates and Source Remediation at Three Sites with Long-Term Groundwater Monitoring Records;** David S. Wright<sup>1</sup> (Presenter), Thomas E. McHugh<sup>2</sup>, and Mark W. Malander<sup>1</sup>, <sup>1</sup>Exxon Mobil Environmental Services Company, <sup>2</sup>GSI Environmental, Inc., Houston, TX, mark.w.malander@exxonmobil.com

**Groundwater Considerations for Fuel Ethanol Releases;** Brent Stafford and Curt Stanley, Shell Global Solutions (US) Inc., brent.stafford@shell.com

**Demonstrating the In Situ Biodegradation Potential of Benzene, MTBE, and TBA Using Stable Isotope Probing and Bio-Sep® Beads;** J.L. Busch-Harris and K.L. Sublette, Center for Applied Biogeosciences, U. of Tulsa, Tulsa, OK; Greg Davis and Dora Ogles, Microbial Insights, Inc., Rockford, TN; Aaron Peacock, Haley and Aldrich, Inc., Oak Ridge, TN; William E. Holmes and David Harris, U. Cal-Davis, Davis, CA, kerry-sublette@utulsa.edu

**Oxidation of MTBE by the Ubiquitous Soil Nitrifying Bacterium, Nitrosomonas europaea;** Denise Aslett, Christy Smith, Alan House and Mike Hyman, North Carolina State University, michael\_hyman@ncsu.edu

**Identification of Genes Associated with aerobic TBA Metabolism in Aquincola Strain S1B1;** Kim Golart and Mike Hyman, North Carolina State University, michael\_hyman@ncsu.edu

**Impacts to Groundwater Following a Neat Ethanol Release onto Pre-Existing NAPL;** Brent P. Stafford, Shell Global Solutions (US) Inc., Houston, TX; William G. Rixey, University of Houston, Houston, TX; Natalie L. Cápiro, Georgia Institute of Technology, Atlanta, GA and Pedro J.J. Alvarez, Rice University, Houston, TX, brent.stafford@shell.com

**Impacts to Groundwater Following an E95 Release without Pre-Existing NAPL;** Brent P. Stafford, Shell Global Solutions (US) Inc., Houston, TX; William G. Rixey, U. of Houston, Houston, TX; Natalie L. Cápiro Georgia Institute of Technology, Atlanta, GA, Philip B. Bedient, and Pedro J.J. Alvarez, Rice U., Houston, TX, brent.stafford@shell.com

**Microbial Response to a Release of Neat Ethanol onto Pre-existing NAPL;** Natalie L. Cápiro Georgia Institute of Technology, Atlanta, GA, Marcio L.B. Da Silva Universidade Federal de Santa Catarina, Florianópolis, SC, Brazil, and Pedro J.J. Alvarez, Rice University, Houston, TX; William G. Rixey, University of Houston, Houston, TX, ncapiro@alumni.rice.edu

**Delayed Acetate and Methane Production Beneath Catastrophic Denatured-Ethanol Releases;** R. F. Spalding and M. J. Toavs, Department of Agronomy and Horticulture, U. of Nebraska, Lincoln, NE; M. E. Exner, School of Natural Resources, U. of Nebraska, Lincoln, NE; G. Hattan, Kansas Dept. of Health and Environment, Topeka, KS; M. A. Toso and T. Higgins, Minnesota Pollution Control Agency, St. Paul, MN, Roy Spalding rspalding1@unl.edu

**Simulating The Effect Of Aerobic Biodegradation On Soil Vapor Intrusion Into Buildings: Evaluation Of Low Strength Sources Associated With Dissolved Gasoline Plumes;** Lilian D. V. Abreu, Robert Ettinger, and Todd McAlary, Geosyntec Consultants, Inc., rettinger@geosyntec.com, labreu@geosyntec.com

**Resolving LNAPL Stability Using Tracers;** Tom Sale and Tim Smith, Colorado State University, saletm@engr.colostate.edu

**EHC-OTM: a Timed-Release, Buffered Source of Dissolved Oxygen and Inorganic Nutrients for In Situ Bioremediation of Petroleum Hydrocarbons;** Ravikumar Srirangam, Fayaz Lakhwala, James Mueller and Alan Seech, Adventus Americas Inc., Union, NJ, Ravi.Srirangam@AdventusGroup.com

**RemOx® EC Catalyzed Permanganate for NAPL Stabilization and Flux Reduction;** Fayaz Lakhwala, Ravikumar Srirangam, Jim Mueller, Joanna Moreno and Alan Seech - Adventus Americas Inc., Kelly Frasco and Matthew Diggins – Carus Corporation, Ravi.Srirangam@AdventusGroup.com

# pre-conference workshops / sunday, march 16, 2008

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pre-registration required

## **Inventory Control: A New Look at an Old Method of Leak Detection**

Sunday, March 16, 2008

Augusta, Level Two

12:30 - 4:30 PM

Presented by: **Marcel Moreau**, Marcel Moreau Associates

Inventory control has been used for fuel management and leak detection purposes for many decades. While simple in concept, the intricacies of interpreting inventory control data have led most tank owners and regulators to throw up their hands in despair. But armed with enough data, a few simple concepts, and electronic spreadsheet and graphing software, understanding what inventory control records are telling you is within the grasp of most anyone willing to pay attention.

### *Topics:*

- Fundamentals of Inventory Control, Daily vs. Cumulative Variance
- Evaluating Data Quality
- Common Errors and How to Spot Them: Bounce, Cross Drops, Calibration Errors
- Determining and Evaluating Data Trends: Meter Error, Theft, Temperature, Leaks

## **Assessing Vapor Intrusion at Petroleum Release Sites**

Sunday, March 16, 2008

Macon - Level Two

12:30 - 4:30 PM

Instructors: **Blayne Hartman**, H&P Mobile Geochemistry; **Todd Ririe**, BP; **Robin Davis**, Utah Department of Environmental Quality; **Harley Hopkins**, American Petroleum Institute

Biodegradation results in significant attenuation of petroleum vapors in the vadose zone. The goal of this workshop is to provide the most up-to-date, cost effective strategies for verifying bioattenuation and determining the significance of the vapor intrusion pathway. The workshop will emphasize site conceptual model development, collection of high quality data and data quality assessment.

### *Topics:*

- Petroleum vapor intrusion site conceptual model
- Development of site-specific conceptual models
- Assembling data for assessing bioattenuation
- Guidelines for locating soil gas sampling networks
- Soil gas sample collection, handling, analysis, and quality verification
- Indoor air sampling and analysis
- Observation of bioattenuation from well documented sites
- Results from recent research efforts



## prevention *capitol ballroom south, level one*

### Leak Detection Performance

10:30 AM to 12:00 PM

This session is designed to provide state UST programs with information on the performance of various leak detection systems used at typical gasoline service stations. Topics include automatic tank gauging systems and electronic and mechanical line leak detectors. The session will also provide information on interstitial monitoring of secondarily contained areas using vacuum and leak detection challenges posed by high throughput facilities such as truck stops.

**Scott Bacon**, California State Water Resources Control Board; **Steve Bernstein**, Jones & Frank Corporation;  
**Wayne Geyer**, Executive Vice-President, Steel Tank Institute; **Ed Kubinsky**, Special Projects Manager, Crompco, LLC

Moderated by **Tim Smith**, Environmental Protection Specialist, U.S. Environmental Protection Agency OUST

### Secondary Containment

1:30 PM to 3:00 PM

In this session attendees will learn how states have implemented or are in the process of implementing the secondary containment provisions of the Energy Policy Act of 2005. Speakers will discuss how secondary containment has evolved in their jurisdictions including the successes, setbacks, and program adjustments. Attendees will also have the opportunity to learn and ask questions regarding API's RP 1615 - Installation of Underground Petroleum Storage Systems, and current field testing of secondary containment systems.

**Kevin Henderson**, Compliance & Enforcement Manager, Mississippi Department of Environmental Quality;  
**Laura Fisher-Chaddock**, Chief, California State Water Resources Control Board; **James White**, Regulatory Affairs Policy Advisor, BP America;  
**Edward S. Kubinsky**, Special Projects Manager, Crompco, LLC

Moderated by **Laura Fisher-Chaddock**, Chief, California State Water Resources Control Board

### Inspections

3:30 PM to 5:00 PM

With the onset of the three-year inspection cycle mandated by the provisions under the Energy Policy Act, more and more states will find that their present resources may be able to handle the task. This session will offer some ideas that states can explore to meet their inspection needs in the years to come.

**Marc Roy**, Spills, UST, and Waste Prevention Section Chief, Vermont Department of Environmental Conservation; **Carol Eighmey**, Executive Director, Missouri Petroleum Storage Tank Insurance Fund; **Tom Walter**, Compliance Division Chief, Maryland Department of the Environment

Moderated by **Bill Truman**, UST Section Chief, U.S. Environmental Protection Agency Region 4

## contamination and cleanup *atlanta rooms 4 & 5, level one*

### Investigative Tools

10:30 AM to 12:00 PM

As the environmental industry evolves, new techniques continue to be developed to interpret and correlate field data with actual subsurface conditions. This session will include presentations of new field techniques and equipment that can provide more detailed determinations of contaminant mass and the distribution of contaminants in the subsurface. Also included will be a discussion of one state's policy regarding the data needed to adequately assess the stability of groundwater contaminant plumes.

**Cynthia Paul**, Environmental Scientist, U.S. Environmental Protection Agency, Region 6; **Thomas Lains**, Project Environmental Analyst, Oklahoma Corporation Commission; **Ken Koon**, Chief, Tanks Section, Missouri Department of Natural Resources

Moderated by **John Gould**, Colorado Department of Labor and Employment

### Petroleum Brownfields: Implementation Experiences

1:30 PM to 3:00 PM

The 2002 passage of the Brownfields Law focused greater attention on the revitalization of service stations and other petroleum sites. The growing interest in the revitalization of these sites also places greater attention on the need to enhance public-private partnerships to help identify and convey information regarding common misconceptions and successful approaches associated with their revitalization. An assortment of implementation hurdles are known to impede the revitalization of such sites. This session will provide insights into approaches used by your peers to enhance their assessment, cleanup, and revitalization. Time will be allotted at the end of the session for questions and discussions of ongoing activities, so please come prepared to participate.

**William R. Chapman**, Senior Geologist, Virginia Department of Environmental Quality; **Gary Lynn**, Petroleum Remediation Section Manager, New Hampshire Department of Environmental Services; **Jim Glass**, Environmental Specialist, Oregon Department of Environmental Quality

Moderated by **Steven McNeely**, Environmental Scientist, U.S. Environmental Protection Agency OUST

### Vapor Intrusion

3:30 PM to 5:00 PM

Vapor intrusion is the migration of vapors from subsurface contamination through vadose zone soils and into buildings. Contaminant plumes can migrate under buildings and carcinogenic petroleum compounds, such as benzene, can volatilize from contaminated soil and groundwater and migrate upward through vadose zone soils into buildings. Vapor intrusion has been an environmental concern for many years. Fire departments and utility companies have reported many instances of petroleum vapors in storm drains, sewers, basements, and buildings. This session will present information on vapor intrusion investigative strategies used by the Minnesota Pollution Control Agency, vapor intrusion case studies compiled by the Utah Department of Environmental Quality, and innovative methods for determining the attenuation of vapors by building slabs.

**Tom Higgins**, Hydrogeologist, Minnesota Pollution Control Agency; **Robin Davis**, Geologist, Utah Department of Environmental Quality; **Blayne Hartman**, President, H&P Mobile Geochemistry

Moderated by **John Menatti**, Utah Department of Environmental Quality

### policy *atlanta rooms 1 & 2, level one*

#### States Only Meeting

10:30 AM to 12:00 PM

Moderated by **Dick Swanson**, Program Manager, Georgia Department of Natural Resources, and **Marshall Mott-Smith**, Administrator, Florida Department of Environmental Protection

#### Tribal/EPA

1:30 PM to 3:00 PM

Moderated by **Carl Jeffries**, UST Program Coordinator, Inter Tribal Council of Arizona, Inc., and **Bill Lienesch**, Program Advisor, U.S. Environmental Protection Agency, OUST

#### Experiences in Underground Storage Tank Compliance Training

3:30 PM to 5:00 PM

Around 1995 "service stations" began to disappear and the C-store concept blossomed. At the same time the full implementation of 40 CFR 280 was coming about and a new paradigm was, and is, a qualified and motivated merchandise manager who excels in customer service, but never noticed there were manhole covers in the concrete at the gas station. To teach these managers about UST compliance has meant developing and trying out a number of different training approaches and finding out what the current managers really need to know and what are good ways to train people on it. Today the Energy Act of 2005 has made owner operator Training a requirement. How are you going to get your owners and operators trained to be compliant with UST regulations? Take a shortcut in the process of developing an owner operator compliance training and learn from professionals who have gone through the process.

**Michael C. Whittington**, Assistant General Counsel, Army & Air Force Exchange Service; **Robert Largent**, Environmental Specialist II, Inter Tribal Environmental Council; **David Beaudin**, Massachusetts State Fire Marshal's Office

Moderated by **Robert Largent**, Environmental Specialist II, Inter Tribal Environmental Council

### workshops *athens, level two*

#### Tribal Only

10:30 AM to 12:00 PM

The Tribal Only Session is designed prior to the Tribal/EPA session so that Tribal Governmental staff can discuss tank issues of concern that can be written down during the session. The list of tank issues will then be used in the Tribal/EPA session. Many Tribal tank issues are quite similar regionally, and quite different across the country. Organizing the Tribal tank issues prior to the Tribal/EPA session will focus the issues of concern and hopefully enlighten both Tribes and EPA concerning those issues.

Moderated by **Carl Jeffries**, UST Program Coordinator, Inter Tribal Council of Arizona, Inc., and **Robert Largent**, Environmental Specialist II, Inter-Tribal Environmental Council

#### Catastrophic Release

1:30 PM to 3:00 PM

Petroleum catastrophic releases can happen at any time and just about anywhere. USTs are located near waterways, public drinking water supplies and near fragile ecosystems. When responding to petroleum releases, prior planning for emergency response, community information, intra-agency cooperation, and immediate action to the spill must be a priority. The agencies involved must develop MOAs/MOUs with state, tribal, and federal agencies to get the cleanup work to protect the environment and local communities that might be impacted. This year in Cherokee, North Carolina, one such petroleum release occurred near the municipal drinking water supply. The Eastern Band of Cherokee Environmental Programs discovered a major petroleum release from a UST facility within 100 feet of the drinking water intake of Cherokee.

**Jamie Long**, Eastern Cherokee Nation; **Dorothy Malaier**, Chief, UST Corrective Action Section, Alabama Department of Environmental Management; **Winston Smith**, UST Inspector, U.S. Environmental Protection Agency, Region 4

Moderated by **Stephen Reuter**, Geologist Manager, New Mexico Environment Department



### **Pulling It All Together: A Petroleum Brownfields Implementation Strategy**

3:30 PM to 5:00 PM

The revitalization of petroleum brownfields can be greatly enhanced through the development of a comprehensive understanding of the unique implementation challenges that these often smaller sites pose to public and private stakeholders, challenges that can and are being addressed through the use of available tools, incentives, and partnerships. The approaches and tools used in the revitalization of petroleum brownfields have been around for years and are often overlooked. This session will describe ongoing efforts to develop and issue a publicly available petroleum brownfields implementation strategy that provides a framework to facilitate better communications and coordination among public and private stakeholders, maximize existing partnerships, enhance the delivery of targeted assistance, and capture and convey "lessons learned."

**Paul Connor**, Executive Director, National Association of Local Government Environmental Professionals (NALGEP); **Nicole Clarke**, SRA International, Inc.; **Steven McNeely**, Environmental Protection Specialist, U.S. Environmental Protection Agency OUST

Moderated by **David Lloyd**, Director of the Office of Brownfields and Land Revitalization, U.S. Environmental Protection Agency OWSER

## session abstracts / tuesday, march 18, 2008

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### **prevention** *capitol ballroom south, level one*

#### **Leak Streaks**

8:00 AM to 9:30 AM

This session will provide information about the latest trends in leaks from UST Systems. Field-verified data from inspectors and investigations from Iowa, South Dakota, and Florida, as well other states, will be presented, along with information about trends in UST system equipment performance and leak detection performance.

**Marshall Mott-Smith**, Administrator, Storage Tank Regulation Section, Florida Department of Environmental Protection; **Pat Rounds**, President, Rounds & Associates; **Alan Bakeberg**, Director of Engineering, South Dakota Petroleum Release Compensation Fund

Moderated by **Marshall Mott-Smith**, Administrator, Florida Department of Environmental Protection

#### **Management Operations**

10:00 AM to 11:30 AM

This seminar covers the operation and maintenance procedures of facilities that can improve compliance. It will be shown how PEI's new recommended practices can be used as a monthly maintenance tool to improve compliance. Also, how government partnerships can set the example for compliance. Finally, truck stops with high throughput volume will be examined for adequate release detection methods.

**Steve Purpora**, President, Purpora Engineering, LLC; **Marcel Moreau**, President, Marcel Moreau Associates

Moderated by **Richard Strickfaden**, Manager, Georgia Department of Natural Resources

#### **Alternative Fuels - An Overview**

1:30 PM to 3:00 PM

Is your state on the biofuels "bandwagon"? If it's not already, the Energy Independence and Security Act of 2008 guarantees that you will see a gradual increase of renewable fuels produced and sold in the United States. But how will these fuels affect the current distribution system? In this session, speakers will give an overview of alternative fuels—including ethanol, biodiesel, ULSD, and a number of up-and-coming fuels—and their effects on underground storage tank systems. Ed English will explain material compatibility of UST system components with ULSD, biodiesel, and ethanol blends. Tom Schruben will discuss the future of alternative fuels, their impact on UST systems, and preventative measures to minimize releases. Robert Hodam will present information on biodiesel quality, biodiesel oxidation by-products, and their corrosive effects on metals and non-metals.

**Ed English**, Vice President and Technical Director, Fuel Quality Services, Inc.; **Tom Schruben**, Partner, ACRM; **Robert Hodam**, Alternative Fuels and Climate Change Coordinator, California State Water Resources Control Board

Moderated by **Andrea Barbary**, U.S. Environmental Protection Agency OUST

## contamination and cleanup *atlanta rooms 4 & 5, level one*

### Alternative Fuels

8:00 AM to 9:30 AM

Three speakers in this session discuss aspects of introducing large quantities of ethanol into the nation's fuel supply, including the risk of increased size and severity of potential impacts from spills because of the large volumes of ethanol shipped by rail, increased risk of explosions at spill sites from methane generated by ethanol degradation, altered contamination migration pathways, and the need for revised spill site investigation procedures to more accurately assess potential risks at ethanol spill sites.

**Mark Toso**, Hydrogeologist, Minnesota Pollution Control Agency; **John Wilson**, Research Microbiologist, U.S. Environmental Protection Agency; **Bill Rixey**, Associate Professor, University of Houston

Moderated by **Peter Rollo**, Engineer, Delaware Department of Natural Resources & Environmental Control

### Innovative Technologies Part 1

10:00 AM to 11:30 AM

As our industry matures, the easier sites are closed and our budgets shrink under legislative initiatives. Now, more than ever, it is important to be creative and try innovative approaches to old problems. This session will showcase emergent technologies as well as provide updates on new technologies that have been tried across the country.

**Virginia Esmond**, Environmental Specialist, Oregon Department of Environmental Quality; **Stephen G. Reuter**, New Mexico Environment Department; **Marco Odah**, Principal, ART Technologies, Inc.; **Jeff Kuhn**, Manager, Montana Department of Environmental Quality

Moderated by **Stephen Reuter**, Geologist Manager, New Mexico Environment Department

### Innovative Technologies Part 2

1:30 PM to 3:00 PM

"Nothing Ventured, Nothing Gained" The need to treat an increasing number of contaminants of concern and more stringent state cleanup standards for soil and groundwater are again focusing regulatory agency efforts on the hunt for more innovative and cost-effective remediation technologies. In the early 1990s EPA OSWER, and subsequently OUST, implemented a strong state initiative to foster the use of innovative cleanup technologies. At that time, technologies such as soil vapor extraction and air sparging were considered "innovative." Although the focus of EPA and states shifted away from this important area by the late 1990s, recent advances in innovative remediation technologies have increased our ability to more cost-effectively treat a broader spectrum of contaminants, including some of the more recalcitrant oxygenates and fuel additive compounds. This session will highlight the successful use of several innovative remediation technologies including ozone-sparging, bioreactors, and phytoremediation.

**Joseph O'Connell**, President and Principal Engineer, Environmental Resolutions, Inc. (ERI); **Rick Plummer**, Principal and Senior Engineer, Innovative Manufacturing and Technology (IMT); **James E. Landmeyer**, Research Hydrologist, U.S. Geological Survey

Moderated by **Jeff Kuhn**, Manager, Montana Department of Environmental Quality

## policy *atlanta rooms 1 & 2, level one*

### Expediting Enforcement

8:00 AM to 9:30 AM

Regulatory agencies often find themselves without sufficient resources to meet their objectives. The signing of the Energy Act of 2005 has placed a host of new mandates on these agencies and they have begun to consider augmenting their programs with methods that will assist them in meeting these directives. This session will explore expedited enforcement processes that various states have implemented or are developing to deal with the increasing number of pending enforcement actions resulting from more frequent inspections. Come learn about some of these concepts that are proving useful in this area.

**Dave Belyea**, Regional Manager, Tanks Program, Oregon Department of Environmental Quality; **Herbert Meade**, Administrator, Oil Control Program, Maryland Department of the Environment; **Rhonda Key**, Environmental Specialist 4, Tennessee Department of Environment and Conservation

Moderated by **Randall Mann**, UST Compliance/Enforcement Program Manager, Tennessee Department of Environment and Conservation

### Getting to Closure

10:00 AM to 11:30 AM

Since the inception of EPA's Underground Storage Tank cleanup program, over 350,000 sites have reached closure. This is no small achievement. However, the number of cleanups completed nationally has declined in recent years. This session will describe EPA's current Phase 2 Backlog Study and we will hear from two states that have developed similar initiatives within their own programs to evaluate their backlog of open sites. We will hear lessons learned from states and an outline of EPA's effort. We hope to discuss several different techniques and lenses through which to look at open cleanup sites and how to develop strategies for completing more cleanups where possible.

**Patrick Boettcher**, Hydrologist, Delaware Department of Natural Resources and Environmental Control; **Dave Belyea**, Regional Tanks Program Manager, Oregon Department of Environmental Quality

Moderated by **Robin Hughes**, Environmental Protection Specialist, U.S. Environmental Protection Agency OUST



### Improving Compliance Implementation

1:30 PM to 3:00 PM

Throughout the United States many USTs are located on Tribal, State, and Federal lands, often in a checkerboard fashion. Collaboration between these agencies is a must when UST compliance is waning in these areas. This collaboration must include the integration of inspector training, communication, and coordination. With today's limited tank funding, cooperation between agencies can mean improved owner/operator compliance training, less duplication, and a reduction of program costs. US EPA Regions, States, and Tribes have been working with varying degrees of success to accomplish this task.

**Mike Ezell**, Public Health Environmentalist, Washoe Country District; **Jim Greeves**, UST Inspector, U.S. Environmental Protection Agency Region 10; **Kelly Wright**, Environmental Programs Director, Shoshone-Bannock Tribes

Moderated by **Carl Jeffries**, UST Program Coordinator, Inter Tribal Council of Arizona, Inc.

## workshops *athens, level two*

### Streamlining Inspection Programs with Database Technology

8:00 AM to 9:30 AM

We will focus on the use of technology to streamline inspections and information management in UST programs. First, speakers from several states already using advanced technology, such as PDAs and online databases, will demonstrate the benefits of using this technology. Then, EPA Region 9 will present its database, USTRAC, which several other Regions and state programs have also picked up. Finally, we will discuss the potential for a national database, and how states and EPA can collaborate to help spread the benefits of technology to UST programs nationwide.

**Tom Beaulieu**, New Hampshire Department of Environmental Services; **Patrick Higgins**, Remot Technologies Program Manager, Florida Department of Environmental Protection; **John Kneece**, South Carolina Department of Health and Environmental Control; **Roxane Kwan**, Supervisor, Hawaii Department of Health

Moderated by **Svetlana Zenkin**, Environmental Scientist, U.S. Environmental Protection Agency Region 9

### Operator Training

10:00 AM to 11:30 AM

This workshop will provide a forum to present and openly discuss various alternative approaches to operator training. States are developing programs in response to operator training requirements mandated by EPA. In addition to employing training programs and relying on national or state-specific examinations, some states are exploring and developing alternative means of training UST operators. These means include state-lead training and state-specific web-based training. States are also reviewing existing training programs developed by owners and operators to determine if these programs are acceptable to meet the state's requirements. A major oil company representative will share his experience with training company operators and provide some insight from industry's perspective on meeting the new operator training requirements. Finally, both states and owner/operators alike are interested in developing and implementing not only comprehensive and cost effective training, but programs that are consistent, where at all possible, in as wide an area as possible. NEIWPCC is working with states in the Northeast region of the country to talk through the issues involved in establishing an operator training program that the Northeastern states can use.

**Rick Jarvis**, Idaho Petroleum Storage Tank Fund; **Bill Rule**, UST Program Manager, Montana Department of Environmental Quality; **Kara Sergeant**, Environmental Analyst, New England Interstate Water Pollution Control Commission; **Jim Howard**, Manager, Retail Maintenance, Hess Corporation

Moderated by **Tim Smith**, Environmental Protection Specialist, U.S. Environmental Protection Agency OUST

### Accelerated Remediation Technologies in Well Technology

1:30 PM to 3:00 PM

The ART technology is based on verified and established concepts and combines in situ air stripping, air sparging, soil vapor extraction, enhanced bioremediation/oxidation and subsurface circulation in an innovative wellhead system. The subsurface circulation process actively flushes residual contamination from the soil matrix and mobilizes it back to the well for further treatment. The circulation and extraction processes also actively and continuously provide significant boost to dissolved oxygen (DO) throughout the radius of influence. The system is designed to accommodate a four-inch well and is cost effective when compared with other remediation technologies, both as a retrofit of new or existing remediation systems. Additionally, based on typical ART removal rates, long-term costs are expected to be significantly reduced.

**Marco Odah**, Principal, Accelerated Remediation Technologies, Inc; **Tom Calabrese**, President, Genesis Project; **Mark Mitchell**, Principal Hydrogeologist, EnviroLogic Resources; **Timothy Danzer**, Senior Environmental Project Manager

Moderated by **Marco Odah**, Principal, Accelerated Remediation Technologies, Inc.

## prevention *atlanta rooms 1 & 2, level one*

### Alternative Fuels - Policy and Standards

8:30 AM to 10:00 AM

Fuel quality standards and UST systems have been directly affected by the increased production and use of renewable fuels, especially since the implementation of the Energy Policy Act of 2005. National and state requirements and incentives to increase the use of renewable fuels have also raised concerns about fuel quality and UST system compatibility. This session examines the impact renewable fuels, such as ethanol and biodiesel, have on fuel quality standards and UST equipment. The rapid growth of renewable fuels and the varying concentrations blended into gasoline and diesel require consideration of new or updated standards and equipment. Speakers will discuss the impact of renewable fuel growth on industry standards and provide a status report on the testing and research they are conducting.

**Wayne Geyer**, Executive Vice President, STI/SPFA, **Steve Howell**, Chairman, ASTM Biodiesel Task Force, MARC-IV;  
**Roland Riegel**, PDE, Flammable Liquids Containment Products, Underwriters Laboratories, Inc.

Moderated by **Tom Collins**, Environmental Specialist, Iowa Department of Natural Resources;

Session Organizer: **Andrea Barber**, U.S. Environmental Protection Agency, OUST

### UST Equipment Performance

10:15 AM to 11:45 AM

Expert UST inspectors with thousands of inspections and over 40 years of collective experience will provide the latest information about what is currently working in the field, and what is not. Kevin Henderson from Mississippi and Ernest Rogellin from Florida will present information and photographs from their inspections that depict problems and solutions with the entire underground storage tank system from nozzle to tank. Post presentation discussions will allow attendees to add their observations and discuss collective concerns and solutions.

**Kevin Henderson**, Compliance & Enforcement Manager, Mississippi Department of Environmental Quality;  
**Ernest M. Rogellin**, Environmental Manager, Pinellas County Health Department, Florida

Moderated by **Stephen E. Brown**, Southeast District Tanks Program Supervisor, Florida Department of Environmental Protection

## contamination and cleanup *atlanta rooms 4 & 5, level one*

### LUST and Drinking Water Wells

8:30 AM to 10:00 AM

This session focuses on the problems and issues involved with drinking water wells. One of the speakers will focus on MTBE in drinking water wells and the problems associated with addressing wells with that kind of contamination. Another speaker will discuss a process for collecting geological data and analyzing it to help predict where contamination may occur, best possible methods to address it for site investigation and remediation or releases and the extent of the damage. The process can be adapted to any area and is very useful.

**Rochelle Cardinale**, Environmental Specialist Senior, Iowa Department of Natural Resources; **Laura Luther**, Remediation Unit Chief, Missouri Department of Natural Resources; **Alexander Wardle**, Environmental Geologist, Virginia Department of Environmental Quality

Moderated by **Victoria Matthews**, Environmental Protection Specialist, U.S. Environmental Protection Agency Region 7

### EDB/Lead Scavengers

10:15 AM to 11:45 AM

After a brief review of the recent history of EDB/DCA research, two state speakers will discuss the results of lead scavenger research in their states. Next EPA speakers will present their work on the evaluation of lead scavengers in old product samples and recent findings in EPA's lead scavenger evaluation of groundwater samples sent to EPA by the states. Lastly, a state speaker will present the state's experience with lead scavengers. Speakers will take questions, and time permitting there will be a discussion of other states' experiences with lead scavengers.

**Richard Spiese**, Analyst V, Vermont Department of Environmental Conservation; **Lisa Lewis**, Coordinator/Hydrogeologist, Georgia Department of Natural Resources; **Jim Weaver**, Hydrologist, U.S. Environmental Protection Agency; **John Wilson**, Research Microbiologist, U.S. Environmental Protection Agency;  
**Mark Toso**, Hydrologist, Minnesota Pollution Control Agency

Moderated by **Richard Spiese**, Analyst, Vermont Department of Environmental Conservation, and **Lisa Lewis**, Coordinator/Hydrogeologist, Georgia Department of Natural Resources

## policy *capitol ballroom south, level one*

### EPA/State

8:30 AM to 10:00 AM

The following topics will be discussed in detail during this session:

- FY08 and 09 Federal Budgets.
- Alternative Fuels Issues.
- Top Issues from the Monday Morning Managers Only Meeting.

Moderated by **Dick Swanson**, Program Director, Georgia Department of Natural Resources and **Cliff Rothenstein**, Director, Environmental Protection Agency, Office of Underground Storage Tanks

### Streamlining Facility Inspections

10:15 AM to 11:45 AM

This session will review methods three states are now using to speed inspections of UST facilities. Rhode Island is using the Environmental Results Program and statistical analyses of UST facility releases to satisfy its legislature's requirement for bi-annual inspections. Florida's use of tablet PCs has helped it to speed through facility inspections, cutting time and manpower. Personal Digital Assistants used by New Hampshire's inspectors have standardized inspections, reduced paperwork and saved time.

**Ron Gagnon**, Division Chief, Rhode Island Department of Environmental Management; **Charles Harp**, Supervisor, Florida Department of Environmental Protection; **Thomas Beaulieu**, Chief, UST Compliance, New Hampshire Department of Environmental Services

Moderated by **Fred McGarry**, New Hampshire Department of Environmental Services

## workshops *athens, level two*

### 3-D and 4-D Site Characterization, Visualization Planning and Execution Strategies

8:30 AM to 10:00 AM

Over the past several years many new methods of 3-D and 4-D site characterization and data visualization have become available. However, clear decision rules for selecting appropriate methodologies based on technical merit and cost are not commonly available. Often more time and money are spent trying to manage problematic data sets versus collecting additional meaningful field data facilitating an improved understanding of subsurface conditions. This workshop examines proper project planning and execution protocols for a successful project yielding useful 3-D/4-D results that is completed within budget and on schedule.

**Stuart McDonald**, President, Aestus, LLC; **Todd Halihan**, Vice President, Research and Development, Aestus, LLC

### Protecting Transient Non-Community Water Systems through Operator Training

10:15 AM to 11:45 AM

More and more existing gas stations are expanding their business with mini mart/convenience store operations to increase their profit margin. Often, this means that the companies offer food and beverages for sale, sometimes prepared onsite. To prepare beverages such as coffee and fountain soda, they must either be hooked up to the local public drinking water supply or use an onsite well. The problem is that most who use a well do not know that the expansion means their well is now considered a transient non-community public water supply. States require that public water supplies be operated by a certified operator, who is responsible for arranging tests of the well and sending in results to the state department. Learn about NEIWPC's new TNC education and awareness program and how it can work for you!

**Ray Leather**, Director of Environmental Affairs, Warren Equities, Inc.; **Eric Arvedon**, Environmental Engineer, Massachusetts Department of Environmental Protection; **Kara Sergeant**, Environmental Analyst, New England Interstate Water Pollution Control Commission

Moderated by **Kara Sergeant**, Environmental Analyst, New England Interstate Water Pollution Control Commission



### **Eric Arvedon, Massachusetts Department of Environmental Protection**

Eric Arvedon is an Environmental Engineer with the Massachusetts Department of Environmental Protection. He has been with the state since receiving his master's degree in civil/environmental engineering from Northeastern University in 1982. While at MA DEP, he has directed the Emergency Response program, coordinating all aspects of the response and remediation of sudden releases of oil and hazardous materials to the environment. His oversight included O&M activities of many active and passive recovery systems and remediation activities at sites throughout Massachusetts. Many of these sites contained leaking underground storage tanks. In 1990 he became Chief of the LUST program, liaison to the Office of the State Fire Marshal (UST compliance) and U.S. EPA (LUST grant management). Some of the projects he has developed in this capacity include the Clean States Initiative, where all state agencies were accountable and responsible for upgrading their UST facilities and managing their hazardous materials and wastes.

### **Scott Bacon, California State Water Resources Control Board**

Scott Bacon is a Sanitary Engineering Associate with the California State Water Resources Control Board. He has worked in California's UST Leak Prevention program for seven years, helping to implement progressive environmental requirements such as periodic secondary containment testing, operator certification, and continuous vacuum/pressure interstitial monitoring. He has been a member of the National Work Group on Leak Detection Evaluations since 2003.

### **Alan Bakeberg, South Dakota Petroleum Release Compensation Fund**

Alan Bakeberg is the Director of Engineering at the South Dakota Petroleum Release Compensation Fund. He has over 20 years of experience in emergency spill response, site assessment and risk evaluation, remediation, cost recovery, and controlling costs associated with corrective action at petroleum release sites. In addition, his experience includes seven years as a private environmental consultant, three years as a state regulator working on surface water issues, and ten years with the South Dakota Petroleum Release Compensation Fund, where he was involved with the reimbursement of claims, controlling costs for corrective action, and pursuing cost recovery for negligent design, installation, and manufacturing. He has a bachelor's degree in geological engineering from the South Dakota School of Mines.

### **Thomas Beaulieu, New Hampshire Department of Environmental Services**

Tom Beaulieu is Chief of the UST Compliance Subsection in the New Hampshire Department of Environmental Services. He manages all elements of the program including inspector training, development of informational outreach guidance

documents and fact sheets, engineering plan review and installation inspections, scheduling of operational compliance inspections, rulemaking, and enforcement. He has 35 years of experience with NH DES of which 16 have been with the UST program. During the past few years, he has overseen the development and implementation of a Personal Digital Assistant (PDA) within the operational compliance inspection program. This allows inspectors to download facility information from the ORACLE database to a PDA, input on-site compliance information, print a compliance deficiency report for the owner/operator, then return to the office and wirelessly upload the information to the database. It effectively eliminates office paperwork and allows additional time for inspectors to be in the field.

### **Dave Belyea, Oregon Department of Environmental Quality**

Dave Belyea is the manager of the Tanks Program for Western Oregon. He has been with the Oregon Department of Environmental Quality as a compliance inspector, cleanup project manager and program manager since 1994. He began his experience with underground storage tanks in 1989, drafting regulations and implementing the new program for the Alaska Department of Environmental Conservation. He currently is a member of the ASTSWMO LUST Task Force and International Code Council UST/AST Exam Development Committee.

### **Steve Bernstein, Jones & Frank Corp.**

Steve Bernstein is the Vice President, Commercial Division, of Jones & Frank Corporation. He is a Licensed Fuel System Specialty General Contractor in two states, and has over 27 years of experience in the petroleum equipment industry (over 25 years with Jones & Frank and three years in Florida). He has held various positions in sales, operations and senior management, and has worked in over eight states. He is an active consultant, giving seminars and talks on State/EPA/Fire Code LRPPs, and he is also a highly recognized Industry Applications Consultant. He is a member of PEI, NFPA, STI and several other industry organizations. He has a bachelor's degree from Gardner-Webb University.

### **Patrick Boettcher, Delaware Department of Natural Resources and Environmental Control**

For the last two-and-a-half years, Patrick Boettcher has been a hydrologist with the Tank Management Branch in Delaware's Department of Natural Resources and Environmental Control. In addition to his primary role as a LUST project officer, he is the team leader for the branch's aggressive field sampling initiative, operates and maintains the branch's direct-push rig, and has taken on the responsibility of creating a new hydrogeologic investigation guidance document. He graduated from the University of Delaware with a bachelor's degree in geology in 2003. Following graduation and prior to his employment with the State of Delaware, he worked in the private sector as an

environmental consultant.

### **Tom Calabrese, Envirologic Resources, Inc.**

Tom Calabrese is a Principal Hydrogeologist at EnviroLogic Resources, and has been involved in a variety of UST and brownfield cleanups. He received his bachelor's degree in geology from Occidental College in 1981, and worked in groundwater exploration for three years before spending 10 years with an international environmental consulting firm. He founded EnviroLogic Resources in 1997, and is the principal investigator on projects ranging from UST decommissioning to Superfund RI/FS. During his career, he has been responsible for conducting projects related to investigation and cleanup, water quality and quantity, water rights, and stormwater throughout the West. He is a Registered Geologist in Oregon, Washington, and California, and a Certified Water Rights Examiner in Oregon.

### **Rochelle Cardinale, Iowa Department of Natural Resources**

Since 1999, Rochelle Cardinale has worked in a regulatory role with the Iowa Department of Natural Resources' Underground Storage Tank Section. Much of her experience has involved the impact of leaking UST sites on water supplies. This includes private and public water supply wells impacted by contaminants ranging from BTEX, TBA, MTBE, TCE, nutrients, as well as naturally-occurring compounds. Her experience demonstrates that general water quality can be impacted by contaminants through indirect mechanisms. Before joining Iowa DNR, she worked for eight years in environmental consulting in the Pacific Northwest, the South, and the Midwest. She graduated from Iowa State University in geology with an emphasis in hydrogeology and a minor in archaeology and anthropology. She completed graduate studies at Montana College of Mineral Science and Technology (now the University of Montana, Butte Campus) in hydrogeology. She has seen water supply impacts from the perspective of the environmental consultant, from the regulatory side, and from the public side through her experience with town hall community meetings and interactions with water supply operators.

### **William R. Chapman, Virginia Department of Environmental Quality**

William Chapman began his career in 1990 at the South Carolina Department of Health and Environmental Control. In 1993, he was hired by the Remediation Program in the Northern Virginia Regional Office of the Virginia DEQ. Since 1990, the regional office has had approximately 5,500 confirmed petroleum release cases reported and at any one time, regional case managers may handle close to a hundred investigations, corrective actions, as well as the associated reimbursement. In addition to petroleum investigations, he has reviewed and consulted on many Voluntary Remediation Program applications and Brownfields Redevelopment

projects in the Northern Virginia area. He is a graduate of Clemson University.

### **Nicole Clarke, SRA International**

Nicole Clarke has more than seven years of experience in environmental communications. During her four years at SRA, she has supported projects in various OSWER cleanup programs. She helped the State of Delaware remotely collect and analyze data on post-remedial LUST site use, and she supported the development of EPA Region 3's Land Revitalization Land Use Inventory. She provided direct community outreach and technical support to Hazleton, Pennsylvania, and site-specific redevelopment planning support to Weirton, West Virginia. She has facilitated or supported more than 25 outreach workshops and conferences. Prior to joining SRA, she worked as a Project Assistant at Bowne DecisionQuest (BDQ) supporting Fortune 100 companies in building their client base and improving community relations through emergency response planning and outreach efforts. She has a bachelor's degree in environmental science from Allegheny College.

### **Paul Connor, National Association of Local Government Environmental Professionals**

Paul Connor is an attorney with the law firm of Spiegel and McDiarmid in Washington, D.C., and the executive director of the National Association of Local Government Environmental Professionals (NALGEP). He specializes in environmental law and provides day-to-day management services for NALGEP, a national nonprofit organization. Before joining NALGEP, he worked for nearly 20 years at U.S. EPA, where he led a division of 35 professional staff members in all aspects of EPA's five site remediation enforcement programs: Brownfields, the Oil Pollution Act, RCRA Corrective Action, Superfund, and Underground Storage Tanks. He holds a law degree from the Northwestern School of Law at Lewis and Clark College and a bachelor's degree from Western Washington University.

### **Carol A. Couch, Georgia Department of Natural Resources**

Dr. Carol A. Couch is the Director of the Environmental Protection Division of the Georgia Department of Natural Resources. Appointed in 2003, she is the first woman to lead EPD in its 35-year history. As Director, she is responsible for an 850-person agency that implements and enforces 26 state and four federal laws designed to protect, conserve and restore Georgia's environmental resources. She chairs the Water Council, a coordinating committee charged with overseeing the development of a comprehensive statewide water plan. She also serves on the Board of Directors of the Clean Air Campaign and is on the Board of Trustees of the Livable Communities Coalition. Before joining EPD, she was a member of the U.S. Geological Survey, leading nationally distributed, multidisciplinary teams of engineers, hydrologists, chemists and biologists in the design, conduct and

reporting of water resource investigations. She also served as Southeastern Regional Biologist in the Southeastern Region, and as Hydrologist in the Georgia District of the USGS Water Resources Division. She has her Ph.D. in ecology from the University of Georgia, as well as master's and bachelor's degrees from the University of South Carolina and the Georgia Institute of Technology, respectively. Her graduate studies focused on the ecology of coastal rivers and estuaries.

### **Timothy Danzer, Free Flow Technologies**

Timothy Danzer, a Senior Environmental Project Manager at Free Flow Technologies, has more than 19 years of experience in hazardous waste investigations, remediation and environmental permitting and auditing. He has been responsible for project budgets, scheduling accountability for technical aspects of projects, and coordination with clients. Additional responsibilities include conducting site investigations, managing field activities, preparing environmental permits and reports, providing remediation and contractor oversight, preparing hazardous waste management plans and procedures, and negotiating with state agencies. He has professional affiliations with the Federation of Environmental Technologists and the Academy of Certified Hazardous Materials Managers. He has been with Free Flow since the company was founded in 1998.

### **Robin Davis, Utah Department of Environmental Quality**

Since 1976, Robin Davis has worked for the states of California, Arizona, and Utah in hydrologic investigations and petroleum remediation. She has helped develop state guidance for risk-based corrective action, for monitored natural attenuation, and for site investigations. Her most recent work includes optimizing site investigations for studying the vapor intrusion pathway, and the study of subsurface petroleum hydrocarbon vapor occurrence and attenuation at sites in the United States and Canada. She holds a bachelor's degree in geology.

### **Carol Eighmey, Missouri Petroleum Storage Tank Insurance Fund**

Carol Eighmey has served as Executive Director of Missouri's Tank Fund for 10 years and has been doing "tanks work" for 14 years. She has served on several EPA workgroups, is a member of the State Fund Administrators' Task Force, and serves on the Board of Directors for NatLUST, a non-profit corporation providing liquidity to state tank funds. Her background includes work for the state environmental regulatory agency, associations, and private sector experience in banking and insurance. She has a B.S. in applied physics and a master's degree in engineering management.

### **Edward English, Fuel Quality Services, Inc.**

Edward English is Vice President and Technical Director for Fuel Quality Services. He oversees all aspects directly related to research, development,

and deployment of chemicals for use by clients in the production of petroleum and biomass fuels from production to end user. He is recognized nationally for his knowledge of materials compatibility and alternative fuels, and has been a guest speaker for EPA, the Petroleum Equipment Institute, and various trade associations. Before joining Fuel Quality Services, he worked in the nuclear power industry, where his focus was on the design and implementation of corrosion control programs for pressurized water reactors.

### **Virginia Esmond, Oregon Department of Environmental Quality**

Virginia Esmond is an Environmental Specialist III with the Oregon Department of Environmental Quality. During her 18 years with Oregon DEQ, she has worked primarily in the Land Quality program as a cleanup site project manager. During the early years of the Underground Storage Tank Program, she helped write and develop guidance and policies for the program. She has also served on workgroups that have helped to develop the UST Cleanup Program. She has a bachelor's degree in environmental public health and has completed graduate courses in environmental engineering and applied mathematics.

### **Michael Ezell, Washoe County District Health Department**

Michael Ezell, a Senior Environmental Health Specialist with the Washoe County District Health Department, has 14 years of experience in various environmental health disciplines. He has been the UST/LUST program manager in Washoe County for the last five years. He has worked cooperatively with the Inter Tribal Council of Arizona, EPA Region IX, and the State of Nevada to facilitate inter-agency training opportunities in the areas of UST inspector certification training, advanced training for automatic tank gauges, LUST remediation training and, upcoming in April 2008, cathodic system testing. He has also participated in numerous joint inspection exercises with federal, state, local and tribal governments to normalize and refine UST inspection and documentation protocols.

### **Laura Fisher-Chaddock, California State Water Resources Control Board**

Laura Fisher-Chaddock is Chief of the Underground Storage Tank Leak Prevention Unit at the California State Water Resources Control Board (SWRCB). She has been involved in the implementation and development of California's UST Program for the past 13 years: She spent five years as a lead local agency field inspector and five years working for the UST Leak Prevention Unit before taking over as head of the unit three years ago. She also serves

## speaker bios

on a number of technical committees including Underwriters Laboratories (UL) 971, 58, 1316, 1746 and Petroleum Equipment Institute RP 900.

### **Wayne Geyer, Steel Tank Institute**

Wayne Geyer is the Executive Vice President of STI/SPFA (Steel Tank Institute and Steel Plate Fabricators Association). Employed with STI since 1985, he has participated in numerous conferences addressing underground and aboveground storage systems of hazardous liquids. He is a Professional Engineer and a member of the NFPA 30 Flammable and Combustible Liquids Code Committee. He is an active participant in the ULI standards-making process and also participates in NACE and various API and PEI workgroups. He represents STI as a member of the Safe Tank Alliance, whose members include NFPA, API, and OSHA, and he often participates in state and national regulatory rulemaking programs.

### **Jim Glass, Oregon Department of Environmental Quality**

Jim Glass is an Environmental Specialist with the Oregon Department of Environmental Quality. During his more than 25 years with Oregon DEQ, he has worked primarily in the Air Quality and Land Quality programs as an inspector and UST cleanup site project manager. He has been working in the Underground Storage Tanks Cleanup Program since March 1993 and is currently the Oregon DEQ (UST Petroleum Related) Brownfields Project Manager for state and federally funded projects throughout western Oregon.

### **Jim Greeves, U.S. Environmental Protection Agency**

Jim Greeves recently joined EPA Region 10's UST inspector team, after serving as a member of the region's Indian Lands Team since 2002. He has conducted UST inspections, been a guest instructor for ITCA around the country, and trained the first Tribal Inspector with the Shoshone-Bannock Tribe to receive federal UST inspector credentials. Previously, he worked for the State of Washington's UST insurance program, the Pollution Liability Insurance Agency, managing home heating oil cleanups and UST claims. Before PLIA, he conducted UST inspections for the Washington Department of Ecology's Eastern Regional office for 10 years. He graduated from Eastern Washington University in geology and is a licensed geologist in the State of Washington.

### **Todd Halihan, Oklahoma State University and Aestus, LLC**

Dr. Todd Halihan is an Associate Professor for the School of Geology at Oklahoma State University. His expertise includes developing high resolution Electrical Resistivity Imaging (ERI) methods for site characterization and monitoring of sites impacted by Non-Aqueous Phase Liquids (NAPLs). In addition, he invented a direct-push method for performing cross-borehole ERI evaluation of LNAPL plumes,

and integrated subsurface imaging techniques for detecting cavities in karst environments. He has experience with other geophysical survey technologies including ground-penetrating radar and electromagnetic surveys. His hydrogeological experience includes developing analytical models for fractured and karstic aquifers and well-testing techniques. He has characterized numerous sites throughout the United States and other countries.

### **Charles Harp, Florida Department of Environmental Protection**

Charles Harp has worked for the Florida Department of Environmental Protection for approximately 25 years, first with the Bureau of Marine Resource Regulation and Development, and later in the Wetland Resource Program in the DEP's Northwest District. Currently, he is the supervisor of the Northwest District's Petroleum Storage Tanks Program. The program is responsible for compliance, enforcement, and cleanup at roughly 2,100 petroleum facilities. He has also worked in environmental consulting and in the construction industry. He holds a bachelor's degree in political science and a master's degree in biology with an emphasis in marine science from the University of South Alabama.

### **Blayne Hartman, H&P Mobile Geochemistry**

Dr. Blayne Hartman is a nationally recognized expert on soil vapor sampling, soil vapor analysis, and vapor intrusion. He has provided training on soil gas methods and vapor intrusion to county and state regulatory agencies in over 30 states, many of the EPA regions, the Department of Defense, and numerous stakeholder groups and consultants. He has written numerous articles on the collection, analysis, and interpretation of soil vapor data, including chapters in four textbooks. He has participated in technical workgroups on soil vapor methods for EPA, CA-EPA, CA Regional Water Boards, the County of San Diego, ITRC, and ASTM. He has reviewed and edited instructional manuals for EPA OUST and Superfund groups, and lectured on soil gas methods in the EPA-OSWER vapor intrusion seminars. Over the past four years, he has been a contributing author and editor to vapor intrusion and soil gas guidance documents from EPA, CA-EPA, San Diego County, ITRC, DOD, and API, as well as to more than 20 individual state documents.

### **Kevin Henderson, Mississippi Department of Environmental Quality**

Kevin Henderson has been with Mississippi DEQ since 1988 and joined the UST program in 1991. He has been the Compliance and Enforcement Manager for the UST Branch since 1994. He is probably best known for his contributions to cathodic protection and thermoplastic flexible piping, having given numerous presentations and authored various papers on these subjects. He is a member of several Underwriters Laboratories standards technical panels including 58 (tanks) and 971 (nonmetallic

piping) that are currently revising the UL standards that apply to UST systems. He is a professional geologist and has a bachelor's degree in geology and a master's in geological engineering.

### **Chief Michell Hicks, Eastern Band of Cherokee Nation**

Principal Chief Michell Hicks has held various positions with the Cherokee Nation dating back to 1987 when he began his service as Assistant Business Manager for the Eastern Band. In 1990, he became the Finance Officer with the Qualla Housing Authority, and from 1990 to 1996, he served as a Certified Public Accountant with Mahoney, Cohen and Co. in their New York and Cherokee offices. In 1996, he returned to tribal service as Executive Director of Budget and Finance, until his election to the Office of Principal Chief of the Eastern Band in 2003, and his subsequent reelection in 2008. He is a member of the American Institute of Certified Public Accountants, the North Carolina Association of CPAs, and the Government Finance Officers Association. He serves on a joint tribal, state and local government committee focused on Homeland Security, and on the boards of the Museum of the Cherokee Indian and the Cherokee Preservation Foundation. He is a member of the Cherokee Historical Association and North Carolina Citizens for Business and Industry. He holds an associate's degree in accounting from Southwestern Community College and a bachelor's in business management from Western Carolina University.

### **Patrick Higgins, Florida Department of Environmental Protection**

Patrick Higgins has worked as an environmental professional for the past 17 years, with prior experience in the biotechnology industry, consulting with domestic and international clientele. Currently, he is REMOT Technologies Project Manager in the Remote Technologies Center of Excellence (RTCE), within the Florida Department of Environmental Protection's Office of Technology and Information Services. New mobile technologies have created incredible opportunities for organizations to empower field staff with IT resources previously available only to those within the walls of headquarters. The mission of RTCE is to knock down the walls, design systems to push down the decision making process, and support point-of-observation data collection. RTCE champions innovation and encourages introduction of new technologies to the remote user community. To accomplish these



functions, the RTCE system design is flexible, reliable and under constant review. He holds a bachelor's degree from California State University, Bakersfield, and a master's in public administration from the University of Alaska, Juneau.

**Tom Higgins, Minnesota Pollution Control Agency**

Tom Higgins is a Hydrologist with the Minnesota Pollution Control Agency. He has been with MPCA for the past five years and has played an active role in developing guidance for the vapor intrusion pathway in the Petroleum Remediation Program and the Petroleum Brownfields Program. He has also participated as a team member and Internet-based training instructor for the ITRC vapor intrusion team. He received undergraduate degrees in biology and environmental geology from Minnesota State University, Mankato, and attended the University of Minnesota for his graduate degree in environmental chemistry.

**Robert Hodam, California State Water Resources Control Board**

Robert Hodam has 25 years of public and private international experience in the research and commercialization of energy derived from biomass including ethanol, methanol, biodiesel, gasoline, methane, and syngas. Currently he is the Alternative Fuels and Climate Change Coordinator for the Division of Water Quality, California Water Resources Control Board. He holds graduate degrees in environmental engineering from Stanford University and systems analysis from the University of Southern California.

**Harley Hopkins, American Petroleum Institute**

Harley Hopkins is a manager in the Regulatory and Scientific Affairs Department of the American Petroleum Institute (API). Since 1991, he has managed research projects on the fate, transport and remediation of petroleum hydrocarbons in soil and groundwater, resulting in numerous API publications. He provides technical assistance within API on oil and natural gas waste, vapor intrusion and free-product remediation. He is a Certified Professional Geologist in the State of Virginia.

**Jim Howard, Hess Corporation**

Jim Howard is the Manager of Retail Maintenance Programs for Hess Corporation. He has been with Hess for over 20 years, the first nine years in Retail Operations and the last 11 years in Retail Maintenance. He is responsible for Facilities Maintenance and Underground Storage Tank Compliance at over 1,000 locations in 13 states along the East Coast. He is a member of the Petroleum Equipment Institute, serving on the PEI

RP500 (Recommended Practices for Inspection and Maintenance of Motor Fuel Dispenser Equipment) and RP900 (Recommended Practices for Inspection and Maintenance of Underground Storage Tank Systems) Committees.

**Rick Jarvis, Idaho Department of Environmental Quality**

Rick Jarvis is the Underground Storage Tank and Leaking Underground Storage Tank Program Coordinator for Idaho's Department of Environmental Quality. He has been with the state for 22 years, of which 20 have been associated with the UST program. He participated in the development of the online basic training program for UST inspectors and was on the workgroup that prepared the operator training guidance. He is considered the UST technical expert for the state, and is currently in the final stages of obtaining legislative approval of a state UST program that includes the federal UST rules and all the requirements of the 2005 Energy Act. He continues to conduct UST inspections to maintain a connection to program issues in the field. He has a master's degree in environmental planning and over 29 years of experience in environmental work.

**Rhonda Key, Tennessee Department of Environment and Conservation**

Rhonda Key has over eight years of environmental experience: four years with the South Carolina UST compliance section, one year with the South Carolina Solid Waste Enforcement section, and over three years with the Tennessee UST Enforcement section. During her four years with the South Carolina UST program, she conducted inspections, handled compliance follow-up, and worked with financial responsibility. She graduated from the University of South Carolina with a B.S degree in biology.

**John Kneece, South Carolina Department of Health and Environmental Control**

John Kneece has been with SC DHEC's UST Program since 1992 as an inspector, compliance coordinator, trainer, and manager. He trains, equips, and directs 12 compliance inspectors who conduct more than 4,000 compliance inspections annually with the assistance of four office staff members who support compliance activities, outreach, and education as well as conduct follow-up to compliance inspections. Innovations in the SC program include a PDA application that facilitates inspections and data updates, central office follow-up to inspections, customized compliance plans, operations training, on-the-spot NOV's, and on-the-spot SOC determination. He served as a member of the National Work Group on Leak Detection Evaluations (team leader for pipeline and non-volumetric tank testing) from 1998 to 2008. He has a bachelor's degree in biology from Clemson University and a master's in education from Troy State University.

**Ken Koon, Missouri Department of Natural Resources**

Ken Koon began with MoDNR in 1999 as a Remediation Project Manager in the Tanks Section, overseeing tank cleanup projects and participating in quality assurance project plans, abandoned tank site investigations, state-led tank closure and cleanup, landfarm studies and other research. He then accepted a position with the department's Brownfields Voluntary Cleanup Program, where he took on the challenges of developing the Drycleaning Environmental Response Trust Fund, a state cleanup fund that provides reimbursement for the cleanup of contamination from dry cleaning facilities. He became the Tanks Section Chief in December 2005. Before joining MoDNR, he spent seven years with an environmental laboratory doing field sampling, soil sampling and toxicological testing. He is a member of the National UST Task Force for the Association of State and Territorial Solid Waste Management Officials. He holds a bachelor's degree and a master's in biology from Pittsburg State University.

**Ed Kubinsky, Crompco, LLC**

Ed Kubinsky has been employed by Crompco, LLC, since 1993. He was Field Technician Foreman from 1994 to 2001, when he assumed his current position as Special Project Manager. His responsibilities include compliance management for customers, regulatory interpretation, and maintaining all Crompco employee licenses and certifications. He is also responsible for training new employees and retraining current employees. He holds several manufacturer certifications for tightness testing methodologies as well as numerous state-issued licenses and certifications for conducting testing activities on regulated UST systems. These include certifications for EZY-3 Locator Plus; Petro-Tite Line/LD Test; Veeder Root Level 4; NACE CP Tester; ICC Certified U3 UST Tank Tightness Tester and U4 UST Cathodic Protection; PA, NJ, and WV DEP Certified Tester; and CT Department of Consumer Protection Certified Repairer of Weighing and Measuring Devices (Stage II Testing).

**Jeffrey Kuhn, Montana Department of Environmental Quality**

Jeffrey Kuhn is a hydrogeologist with 21 years of professional experience in the assessment and remediation of environmentally contaminated sites. He is the Chief of the Montana DEQ LUST Brownfields Section, and he speaks nationally and internationally on fuel oxygenate and additives issues. He chairs the ASTSWMO Fuel Oxygenates and Additives Workgroup. He is a frequent contributor to *LUSTLine* and is closely following the national interest in ethanol and alternative fuel oxygenates. He spends part of each summer teaching courses for the Glacier Institute on geology, climate change, and natural history in Glacier National Park, where

he formerly worked as a seasonal ranger. He also teaches earth science as an adjunct professor at Carroll College in Helena, MT. He holds a bachelor's degree in geology from Juniata College, Pennsylvania, and a master's degree in geology from the University of Montana.

### **Roxane Kwan, Hawaii Department of Health**

Roxanne Kwan is the Supervisor of Underground and Leaking Underground Storage Tank Programs in the Hawaii Department of Health's Solid and Hazardous Waste Branch. She was the Database Manager for the UST program since the inception of the program in 1986, and has overseen the UST prevention program, developed state UST rules, and worked with inspectors to track UST facilities and maintain the proper notifications and closures. In 2004, she became the supervisor for both the UST prevention program and the leaking UST program that oversees the cleanup of contaminated sites. She has a bachelor's degree in nursing and an associate's degree in computer programming, both from the University of Hawaii.

### **Thomas Lains, Oklahoma Corporation Commission**

Tom Lains worked in the petroleum and minerals exploration fields as a geologist for several independent oil companies from the mid-1970s through the mid-'90s. Following completion of an engineering degree at the University of Oklahoma, he joined the Petroleum Storage Tank Division of the Oklahoma Corporation Commission, where he has worked for the last ten years. He has co-authored and co-teaches a continuing education course on site characterization for government and private industry.

### **James Landmeyer, U.S. Geological Survey**

Jim Landmeyer has been a research hydrologist with the U.S. Geological Survey since 1990. His lab is located at the South Carolina Water Science Center in Columbia, SC. He has been interested in the factors that control the fate of common and emerging groundwater contaminants, such as MTBE, alcohol alternatives, as well as historical fuel additives such as EDB. He also pursues innovative technologies to remediation of contaminated systems such as monitored natural attenuation, stable isotope forensics, engineered bioremediation, and phytoremediation. He has a Ph.D. in geology/chemistry from the University of South Carolina.

### **Robert Largent, Cherokee Nation**

Robert Largent provides UST consultation on the design and installation of new systems, compliance, repairs, removals, and LUST cleanup. He teaches owner/operator training, UST compliance, corrosion prevention, 40-hour Hazwopper, and trains new UST inspectors. He moderates and presents UST issues at national conferences and meetings, and has authored national UST and LUST regulations and national grants and manages budgets for these

grants. He contributed to the tribal UST strategy and helped develop innovative UST technologies, including a VOC tool and strategic uses for GIS. He is also an adjunct professor, teaching environmental management. He has a bachelor's degree in environmental science and a master's in environmental management, as well as licenses for NACE CP testing, UST Inspections, and Sanitarian and Environmental Specialist. He has certifications for GPS, GIS and HTML Web development.

### **Ray Leather, Warren Equities, Inc.**

Ray Leather is the Director of Environmental Affairs for Warren Equities, a multi-brand distributor of petroleum products at approximately 600 stations in 10 states in the Northeast and Mid-Atlantic. He is responsible for environmental compliance including operator training, emergency response, site assessment and remediation. He has worked in the petroleum industry since 1974 and has participated as a member of API and state regulatory committees. He has a bachelor's degree in civil engineering from Merrimack College, a master's in energy management and power from the University of Pennsylvania (where he was a National Science Foundation Fellow), and an M.B.A. from the University of Houston. He is a Registered Petroleum Operations Engineer, a Registered Professional Engineer, a Licensed Site Professional in Massachusetts, and a Registered Environmental Assessor I in California.

### **Gary Lynn, New Hampshire Department of Environmental Services**

Gary Lynn manages the Petroleum Remediation Section at New Hampshire's Department of Environmental Services. He is a professional engineer with 30 years of experience in process engineering, environmental consulting, and with state regulatory agencies. Before taking over the petroleum remediation program at NH DES, he managed the agency's cleanup program at Pease Air Force Base, and was the first coordinator of the Brownfields program. He has a bachelor's degree in chemical engineering and chemistry from Northwestern University and a master's in civil engineering with environmental specialization from Virginia Polytechnic Institute and State University.

### **Dorothy Malaier, Alabama Department of Environmental Management**

Dorothy Malaier has been employed with the Alabama Department of Environmental Management since 1987. For 16 years, she has worked in the UST program overseeing the corrective action program, and is involved in the administration of the Alabama Underground and Aboveground Storage Tank Trust Fund. She holds bachelor's and master's degrees in geology from the University of Alabama, and is a Licensed Professional Geologist. She currently serves on the Alabama Board of Licensure for Professional Geologists.

### **Stuart McDonald, Aestus, LLC**

Stuart McDonald is the founder of Aestus, LLC, which has offices in Colorado, Oklahoma, and New York, and was established to solve one of the most complex problems facing the environmental cleanup industry: inadequate site characterization techniques. By drawing from his background as an environmental consultant with Canonic Environmental and Harding Lawson Associates, and enlisting the assistance of Oklahoma State University, he has successfully developed and marketed a proprietary high resolution electrical resistivity imaging (ERI) technology (GeoTrax Survey) to more cost-effectively locate subsurface environmental impacts and visualize them in 2-D, 3-D, and 4-D. Aestus has worked at numerous LUST and other environmental sites across the United States and internationally. He earned his civil/environmental engineering degree at the University of Delaware.

### **Steven McNeely, U.S. Environmental Protection Agency**

Steven McNeely is an Environmental Protection Specialist with EPA's Office of Underground Storage Tanks. He has coordinated efforts to improve the operation and performance of state UST/LUST programs for over 20 years. He served as a project officer managing EPA's petroleum risk-based corrective action (RBCA) training cooperative agreement ASTM until 1998. Currently he serves as the petroleum revitalization liaison between the Office of Brownfields and Land Revitalization, EPA headquarters, regional and state UST/LUST programs, and other public-private entities to help streamline the implementation of petroleum provisions of the Brownfields Law, and he manages an analogous work assignment. In June 2008 he received an Award for Outstanding Collaborative Problem Solving with colleagues from EPA Region 9 for their leadership and support of Arizona's Route 66 Partnership.

### **Herbert Meade, Maryland Department of the Environment**

Herbert Meade is the Program Administrator for the Maryland Department of the Environment's Oil Control Program. The program is responsible for the regulatory oversight of the transportation, storage and remediation of petroleum products. As the administrator of the program, he is responsible for a staff of 48 employees and a yearly budget of over \$6 million. He is the main author of Maryland regulations pertaining to oil pollution and storage tank management. He has been employed by the State of Maryland since 1978.

### **Mark Mitchell, Genesis Project, Inc.**

Mark Mitchell is the President and Principal Hydrogeologist at Genesis Project, based in Smyrna, Georgia. He has over 22 years of experience, specializing in the implementation of hydrogeologic investigations associated with the assessment

and remediation of groundwater and soils contamination. His regulatory expertise is within the RCRA, CERCLA, Brownfields, Hydrocarbon, and State Superfund arenas. During his career, he has been responsible for managing multi-disciplined projects, including strategic planning, site investigation, as well as remedial alternative development and implementation. Prior to co-founding Genesis Project, he was a Principal Scientist/Office Manager for Geraghty & Miller in Atlanta, and a Staff Geochemist at the Hanford Nuclear site in Washington State.

#### **Marcel Moreau, Marcel Moreau Associates**

Marcel Moreau has made a career of speaking, writing, and teaching about underground storage systems. He began with the Maine Department of Environmental Protection in 1983, spending four years working to develop Maine's regulatory program for underground systems. He then worked four years with an environmental engineering firm where his duties included inspecting hundreds of existing storage systems for military and utility clients, and developing conceptual designs for new storage systems. Since 1991, he has worked as an independent consultant providing information and educational services to regulators, installers, and storage system owners across the United States. Marcel has given dozens of presentations and seminars across the country and is widely acclaimed as a speaker and educator. He has been named the consultant to the Petroleum Equipment Institute for numerous Recommended Practices, is a regular contributor to *LUSTLine*, and has written dozens of articles for trade publications.

#### **Marshall Mott-Smith, Florida Department of Environmental Protection**

Marshall Mott-Smith is the Administrator of the Storage Tank Regulation Section in the Florida Department of Environmental Protection's Division of Waste Management. He began his work as an inspector in Fort Myers in 1977, and moved to the headquarters office in Tallahassee in 1980. He has experience in air pollution, solid waste management, hazardous waste, and has been the Administrator of the UST/AST Regulatory Program since 1986. He is a 1976 graduate of Florida State University with a B.S. in geography and a minor in geology. He has testified before Congressional committees on four occasions about UST/AST issues and has written numerous articles for national and international publications.

#### **Joseph O'Connell, ERI, Inc.**

Joseph O'Connell, the President and Principal Engineer of ERI, has 36 years of professional experience. His expertise includes chemical processes, critical path analysis, design, permitting, and remediation. He has been project manager for the remediation of an operating oil blending plant, where the major issue was to plan and schedule contaminant delineation and remediation

without disrupting daily production. Work included installation of shoring, excavation, and disposal of oily soil. Remediation was conducted in the street and under railroad tracks, as well as on the plant itself. He has also been the Principal Engineer for designing, permitting, installing, and operating numerous remediation systems. Systems installed include on-site air sparging, vacuum extraction, pump and treat, shoring and excavation, bioremediation, and fixation. Treatments of extracted vapors include thermal incineration and carbon absorption. Contaminants range from chlorinated hydrocarbons to gasoline-range hydrocarbons to metals. Work included cost analysis, soil modeling, prediction of extraction time, on-site setup, and final confirmation borings.

#### **Marco Odah, Accelerated Remediation Technologies**

Dr. Marco Odah is a principal engineer and founder of Accelerated Remediation Technologies, based in Overland Park, Kansas. He developed and patented the ART In-Well technologies for in-situ remediation of soil and groundwater. He supervised installations of the ART Technologies at more than 600 locations worldwide. He has more than 20 years of experience in designing and implementing soil and groundwater remedial technologies. He earned his Ph.D. at the University of Missouri/Kansas City and his M.S. and B.S. in civil engineering at the University of Kansas. He is a registered professional engineer in several states.

#### **Cynthia Paul, U.S. Environmental Protection Agency**

Cynthia Paul has been an Environmental Scientist with U.S. EPA's National Risk Management Research Laboratory in Ada, OK, for the past 14 years. Current research areas include vertical profiling of contaminants (VOCs, inorganics) in groundwater for risk assessment from vapor intrusion into residences and the calibration of models to evaluate vapor movement at UST sites by vertical profiling of contaminants in groundwater and soil gas. Previous research areas include permeable reactive barriers (PRBs) for in situ chromate and arsenic remediation, transport and fate of metals and natural attenuation of arsenic and chromium. She has participated in extensive field research that led to the development of low-flow sampling techniques for groundwater. She holds an M.S. in environmental science from the University of Oklahoma, Norman, and a B.S. in biology from East Central University, Ada, OK.

#### **Rick Plummer, Innovative Manufacturing and Technology, LLC**

Rick Plummer is a Principal and Senior Engineer with Innovative Manufacturing and Technology. With over 25 years of experience, he has engineered, designed, built, and operated equipment for hundreds of remediation projects. He began his career in 1979, designing and building oil and gas drilling equipment for a large independent

company in Louisiana. After earning a master's degree in civil engineering from Louisiana Tech University, he joined an environmental consulting firm to head its remediation department. He supervised 40 engineers, geologists, toxicologists, and environmental professionals involved in more than 200 environmental projects including site assessments, risk assessments, corrective action plans, remedial system design, and the sealing of design drawings, construction specifications and contractor bid documents. In 1999, Mr. Plummer started IMT, which has built more than 300 soil and groundwater remediation systems for customers across the United States.

#### **Ronald Poltak, New England Interstate Water Pollution Control Commission**

Ron Poltak has served as the Executive Director of NEIWPCC since 1983. Under his leadership, the Commission has dramatically increased its activities related to water quality, wastewater treatment, drinking water, and training, and expanded its focus to address issues such as underground storage tanks, nonpoint source pollution, and mercury contamination. Before joining NEIWPCC, Ron served as the director of the New Hampshire Division of Parks and Recreation. He also spent 15 years with the New Hampshire Governor's Office in various senior environmental positions. In total, Ron has spent more than 30 years in environmental policy development and implementation. In 2006, he received an EPA Lifetime Achievement Merit Award, which honors individuals who have shown particular ingenuity and commitment in their efforts to preserve the environment.

#### **Steve Purpora, Purpora Engineering, LLC**

Steve Purpora started his career as a testing assistant in 1972. Since 1980, he has been training technicians and inspectors all over the world. He continues his father's work running a Midwestern testing company while maintaining the training for PetroTite. He has formed NTCA to allow national companies to have local coverage for all their compliance needs. Recently he partnered with Ben Thomas and Marcel Moreau to form Petroleum Training Solutions to offer training for operators and inspectors.

#### **Stephen Reuter, New Mexico Environment Department**

Steve Reuter joined the New Mexico Environment Department's Underground Storage Tank Bureau in 1996. In 2000, he left his position to perform corrective action at Superfund sites, but in 2002 rejoined NMED where he currently oversees corrective action associated with petroleum storage tanks. Prior to joining state government, he worked extensively in the private sector: In 1990, he formed an independent consulting firm, after working for



## speaker bios

Exxon in Midland, Texas, at the height of the 1980s oil boom. He also worked for Century Geophysical Corporation in Grants, New Mexico. He holds a bachelor's degree in geology from Montclair State College in New Jersey and a master's degree from the University of Texas at El Paso (UTEP).

### **Roland Riegel, Underwriters Laboratories, Inc.**

Since 2003, Roland Riegel has been UL's Primary Designated Engineer for Flammable Liquid Containment Products. Key global responsibilities in this product group include technical oversight of UL certification consistency; representation on various Standard & Code technical committees, such as NFPA 30, 30A, 31, ASTM F15.10 and UL STPs; assessment of new and unusual or complex technical products; preparation and upkeep of global data sheets and form reports; and engineering support and training. He has been at UL for 22 years in three different engineering departments that provide overall safety assessments for certification of a broad range of mechanical and electrical residential, commercial and industrial products, and flammable liquid containment products.

### **Todd Ririe, BP**

Todd Ririe is the Environmental Technology Coordinator for BP in the Western United States. Since 1990, his primary responsibility has been on environmental projects primarily focused on petroleum hydrocarbon site assessment and application of effective remedial approaches to reach closure. Work has included projects throughout the United States, Southeast Asia, and South America. He has over 20 years of experience in applied geology, geologic instruction, and environmental applications of geology. He holds a bachelor's degree in geology from Cornell College and a Ph.D. in geology from the University of Iowa.

### **Bill Rixey, University of Houston**

Bill Rixey is an Associate Professor in the Department of Civil and Environmental Engineering at the University of Houston. His research focuses on the physicochemical aspects of contaminant transport and remediation processes in soil and groundwater with an emphasis on petroleum hydrocarbons and oxygenates. His current research addresses the physical-chemical issues associated with the behavior of ethanol-gasoline mixtures in the subsurface with the use of both lab-scale and large-scale experiments. Among his other professional activities, he serves as associate editor for the journal "Ground Water Monitoring and Remediation." He received his Ph.D. in chemical engineering from the University of California at Berkeley.

### **Ernest Roggelin, Pinellas County Health Department**

Ernest Roggelin has been with the Pinellas CHD since 1980 and joined the Storage Tank Program in

late 1989. He is the Environmental Manager of the Compliance and Cleanup sections, as well as one of the DEP-designated Statewide Trainers. He has made several presentations at U.S. EPA conferences on the Florida storage tank program, and has authored articles in *LUSTLine*. He is a member of several Underwriters Laboratories standards technical panels including 142 and 58 (tanks) and 971 (nonmetallic piping) that are currently revising the UL standards. He has a bachelor's degree in biology and a master's in zoology.

### **Cliff Rothenstein, U.S. Environmental Protection Agency**

Since 2000, Cliff Rothenstein has served as the Director of EPA's Office of Underground Storage Tanks (OUST), whose primary mission is to help ensure the nation's 640,000 active underground storage tanks are in compliance with federal requirements. OUST also provides resources to states and tribes to help them clean up petroleum releases so abandoned sites can be reused. With the passage of the Energy Policy Act of 2005, his staff has been leading EPA's effort to ensure the milestones and requirements under this new law are achieved. In 1997, he was appointed as EPA's Deputy Assistant Administrator for the Office of Solid Waste and Emergency Response. His accomplishments include developing EPA's position and strategies for Superfund, Brownfields, solid and hazardous waste; underground storage tank legislation; and EPA's regulatory agenda. He also served as EPA's chief negotiator on Superfund and solid and hazardous waste legislation, and directed the Administration's Congressional negotiating teams. Before joining EPA, he was a senior advisor to Senator Baucus on the Senate Environment and Public Works Committee. Highlights of his career on Capitol Hill include working on the 1990 Clean Air Act Amendments, the Federal Facilities Compliance Act, the Pollution Prevention Act, the Resource Conservation and Recovery Act, Brownfields and Superfund. For ten years prior to working for Senator Baucus, he specialized in EPA's economic and regulatory analysis, preparing detailed studies on the impact of major solid and hazardous waste regulations and reports to Congress on mining and oil and gas wastes. He holds a master's degree in public administration from the University of Washington and a bachelor's degree in political science from the University of California at Davis.

### **Lans P. Rothfusz, National Weather Service**

Lans P. Rothfusz is the Meteorologist in Charge (MIC) of the National Weather Service's (NWS) Weather Forecast Office in Peachtree City, Georgia. Since joining NWS in 1987, he has also served in Chattanooga, TN; Oklahoma City, OK; Fort Worth, TX; and Tulsa, OK, where he served as MIC for three-and-a-half years. He has been awarded the Department of Commerce's second-highest honor, a Silver Medal, for leading the development of StormReady, a program which recognizes communities well-

prepared for severe weather hazards. Since 1999, StormReady has directly improved preparedness and warning programs in over 1,200 communities throughout the nation. The office he supervises received a Department of Commerce gold medal for its performance during the active hurricane season of 2004, and a DOC bronze medal for performance during a Georgia tornado outbreak while Hurricane Katrina made landfall. He has authored technical papers on topics ranging from the heat index to decision support systems, and has appeared on programs such as NOVA, CNN's Future Watch, and National Geographic. The American Meteorological Society presented him with its prestigious Francis W. Reichelderfer Award for his leadership of weather support efforts for the 1996 Olympics in Atlanta. He is a member of several meteorological and emergency management professional organizations. He earned his bachelor's degree in meteorology from the University of Wisconsin-Madison and his master's in meteorology from the University of Oklahoma.

### **Patrick Rounds, Rounds & Associates**

Patrick Rounds is President of Rounds & Associates, a business consulting firm located in Waukee, Iowa, that specializes in loss control services for the petroleum marketing industry. R&A has conducted more than 15,000 third-party certified storage tank facility inspections in the United States. He is also President and CEO of Petroleum Marketers Management Insurance Company, a property and casualty insurance company specializing in petroleum storage tank pollution liability coverage. He was formerly the Administrator of the Iowa Comprehensive Petroleum UST Financial Responsibility Fund. He is a licensed attorney with 20 years experience in the environmental risk management industry.

### **Marc Roy, Vermont Department of Environmental Conservation**

Marc Roy has been with the Vermont DEC since 1990, and has been in charge of the state's UST Program for the past three years. He has also been in charge of implementing an Environmental Results Project, a Self-Certification Project for the UST sector, from the acceptance of an EPA Innovations Grant in 2004 through the first round of self-certifications.

### **Bill Rule, Montana Department of Environmental Quality**

Bill Rule has been Montana's UST Program Manager for eight years after a year-and-a-half with the state's Petroleum Fund. In that time he guided the

implementation of Montana's third-party inspection program with a delivery prohibition component. He was a member of EPA's Web-based Inspector Training Workgroup and has helped develop the draft Energy Bill guidelines for Operator Training. With Ben Thomas Associates, he helped design the nationally acclaimed TankHelper operator training. He is a graduate of Montana State University.

### **Thomas Schruben, American Cost Recovery Management**

Tom Schruben is an environmental risk management consultant and a Partner in American Cost Recovery. He started his professional career as an environmental engineer in 1981. In 1986, he joined EPA OUST to help write the federal UST regulations. While at EPA, he assisted state regulatory programs and State Funds with release prevention and corrective action issues. He has helped develop many of the ASTM site assessment and remediation standards. He joined the insurance industry in 1992 and directed the environmental division of United Capitol Insurance Company. In 2000 he became an independent environmental risk management consultant for tank owners and State Funds. He investigates UST failures, recovering costs from insurers, manufacturers of defective products, and negligent installers and release detection contractors.

### **Kara Sergeant, New England Interstate Water Pollution Control Commission**

Since 2001, Kara Sergeant has been an Environmental Analyst at NEIWPC, where she manages projects and coordinates activities related to underground storage tanks, and groundwater and source water protection. This includes planning and facilitating meetings of NEIWPC's Groundwater Managers Workgroup and Underground Storage Tank/Leaking Underground Storage Tank (UST/LUST) Workgroup. In 2004, she organized a joint meeting of the workgroups to improve cross-program coordination, and the success of this effort led to her subsequent facilitation of similar meetings in other parts of the country, as well as planning, moderating, and speaking about cross-program issues at conferences such as NEWWA's Stormwater Conference. She was instrumental in organizing three regional trainings titled "Assessment and Remediation of Oxygenates and Other Fuel Components." She holds a bachelor's degree in environmental science from Dickinson College and is pursuing a master's in urban and environmental policy and planning from Tufts University.

### **Richard Spiese, Vermont Department of Environmental Conservation**

Richard Spiese has been a site manager for the Vermont Waste Management Division for over 20 years, and has managed hundreds of LUST sites. For the last 12 years, he has been a member of the ASTSWMO LUST Task Force, serving as co-chair of

this committee for the last 10 years. He has also been a member of the Vermont Hazardous Materials Response Team and the Agency Spill Response Team for many years. He has spoken numerous times at regional and national conferences on LUST issues. He graduated from Pennsylvania State University with a B.S. in geological sciences and has taken numerous graduate classes at the University of Vermont.

### **Mark Toso, Minnesota Pollution Control Agency**

Mark Toso is a hydrogeologist in the Remediation Division at the Minnesota Pollution Control Agency. His responsibilities include technical oversight of investigation and remediation at large petroleum and chemical storage facilities, Superfund sites, and major pipeline releases. He also provides technical assistance for the emergency response program. He has worked at the MPCA for 15 years and is a registered professional geologist in Minnesota and Wisconsin. His prior work experience includes five years as a geologist in the private sector.

### **Tom Walter, Maryland Department of the Environment**

Tom Walter is the Chief of the Compliance Division for the Maryland Department of the Environment Oil Control Program. He has been a member of the program since 1976. He served on the Emergency Response Team for 11 years and was a field supervisor responsible for UST inspections, remediation, and enforcement for 17 years. As Chief of the Compliance Division, he manages Maryland's Third Party Inspection Program, and is responsible for UST and AST inspections, complaint investigations, enforcement, and cleanup actions.

### **Alex Wardle, Virginia Department of Environmental Quality**

Alex Wardle has worked for the Virginia DEQ since 2004. He is an environmental and engineering geologist with 20 years experience in foundation design, slope stability, and in investigating and remediating contaminated land. He has worked in Europe, North Africa, the Middle East, and the United States. He is a U.K.-chartered geologist, a Virginia professional geologist, and a European registered geologist. He received a bachelor's degree in geology and a master's degree in soil mechanics from London University's Imperial College of Science and Technology.

### **Michael Whittington, Army & Air Force Exchange Service**

Michael Whittington has been an attorney for 37 years, including four years as the Florida Bar ethics prosecutor, and the last 23 years as a full-time environmental attorney for government agencies. He has been a member of the Florida Bar environmental law section since 1977, an O&E member of the Petroleum Equipment Institute

since 2002, and an online PEI Forum moderator since 2008. His publications include six emergency planning and water regulation chapters in the "Environmental Law Deskbook" (Prentice Hall, 1995) and "Reporting Requirements under the Federal Emergency Planning and Community Right-to-Know Act" (Texas Bar Journal, June 1990). He received his B.A. and J.D. from the University of Florida and completed course work only for Environmental Law LLM, University of Utah Energy & Environmental Law Center.

### **John Wilson, U.S. Environmental Protection Agency**

John Wilson is a research microbiologist with U.S. EPA. He has worked on groundwater issues at the R.S. Kerr Center since 1978. He led the development of the U.S. EPA approach to evaluate Monitored Natural Attenuation of organic contaminants in groundwater. His personal research has focused on the natural biodegradation of BTEX compounds, ethanol, MTBE, TBA, EDB, and chlorinated solvents in groundwater.

### **Kelly Wright, Shoshone/Bannock Tribes**

Kelly Wright has worked for tribal environmental programs for more than a decade, and has been active in developing new state, county, federal, and tribal UST inspectors. He has been an integral instructor and on-site coordinator for the Inter Tribal Council of Arizona's UST/LUST inspector trainings. He has been a leader in the UST world, and was the first tribal inspector to gain the federal credential for USTs nationwide.

### **Russell L. Wright, Jr., U.S. Environmental Protection Agency**

Russ Wright is the Acting Deputy Regional Administrator (DRA) of EPA Region 4. From 2002 to 2006, he was the Assistant Regional Administrator for the Office of Policy Management, after serving for a year-and-a-half as Acting DRA and Special Assistant to the Regional Administrator. From 1994 to 2000, he served as Director in the Science and Ecosystem Support Division in Athens, Georgia. During his 35-year tenure, he has held various supervisory positions in the areas of water, waste, enforcement, field inspections, and environmental lab assessments. He worked for four years at EPA Headquarters in the Water and RCRA programs. He also worked as a team consultant performing environmental impact assessments for Mobil Oil. He is the recipient of numerous awards, including EPA's Donald J. Guinyard Pioneer Career Achievement Award in 2005, the President's Meritorious Award for Career Leadership in 2003, and EPA Special Act Awards for a broad range of tasks, such as innovations in the Superfund Remedial Site Cleanup Program, the development of a special relationship with Region 4 states for the implementation of the State Revolving Fund Program, and the



# conference attendees

Attendee list as of 02/13/08

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