

*23<sup>rd</sup> National*  
**TANKS**  
**CONFERENCE**  
[www.neiwpc.org/tanksconference](http://www.neiwpc.org/tanksconference)  **EXPO**



Photograph courtesy Greater Boston Convention & Visitors Bureau



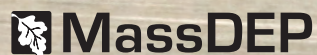
New England Interstate Water  
Pollution Control Commission



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



Association of State and Territorial  
Solid Waste Management Officials



Massachusetts Department of  
Environmental Protection



Massachusetts Department of  
Revenue





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## 22nd National Tanks Conference and Expo Program Booklet, 2010

A production of the New England Interstate Water Pollution Control Commission; in conjunction with the Office of Underground Storage Tanks, U.S. Environmental Protection Agency; Association of State and Territorial Solid Waste Management Officials; the Massachusetts Department of Environmental Protection; and the Massachusetts Department of Revenue.

Photography courtesy Greater Boston Convention & Visitors Bureau, unless otherwise noted.





September 2010

Dear Colleague,

On behalf of the conference sponsors, it is our pleasure to welcome you to Boston for the 22<sup>nd</sup> National Tanks Conference and Exposition. While Boston is one of America's oldest cities, it remains young at heart, and we are thrilled to be meeting in a place long heralded for its energy and innovative spirit. Let us all carry this energy and enthusiasm for innovation with us as we participate in the conference's multitude of learning and networking opportunities.

The 2010 agenda features sessions covering an exceptionally wide range of topics, including operator training, remediation technologies, and vital financial issues. This year, we are also providing opportunities for participation by those unable to attend in person. As noted in the agenda, several sessions are offered as webinars, which will be archived on the conference website with the rest of the presentations.

Since we are now holding this event every 18 months rather than every year, considerable time has elapsed since our last national gathering. We have much to discuss, much to share, and much to learn from each other. We urge you to fully embrace this rare opportunity when the tanks community comes together as one. Thank you for joining us.

Sincerely,

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

Carolyn Hoskinson  
Director  
Environmental Protection Agency  
Office of Underground Storage Tanks

Gordon Bullard  
Executive Director, UST Fund

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

Laurie Burt  
Commissioner  
Massachusetts Department of Environmental  
Protection



### Massachusetts Underground Storage Tank (UST) Program

In July 2009, state legislation transferred responsibility for administration of certain aspects of the Massachusetts UST Program, including registration, operation, and maintenance of USTs, from the Massachusetts Department of Fire Services to the Massachusetts Department of Environmental Protection (MassDEP). In addition, at that time, MassDEP assumed responsibility for implementing the requirements of the National Energy Policy Act of 2005.

The Massachusetts approach to overseeing UST systems relies on the expertise of three state agencies:

**The Department of Fire Services**, with expertise in public safety, fire and explosion issues, oversees the installation and removal of UST systems ([www.mass.gov/dfs](http://www.mass.gov/dfs)). Local fire departments implement DFS' regulations through the local licensing and permitting of UST systems that store flammable and combustible materials.

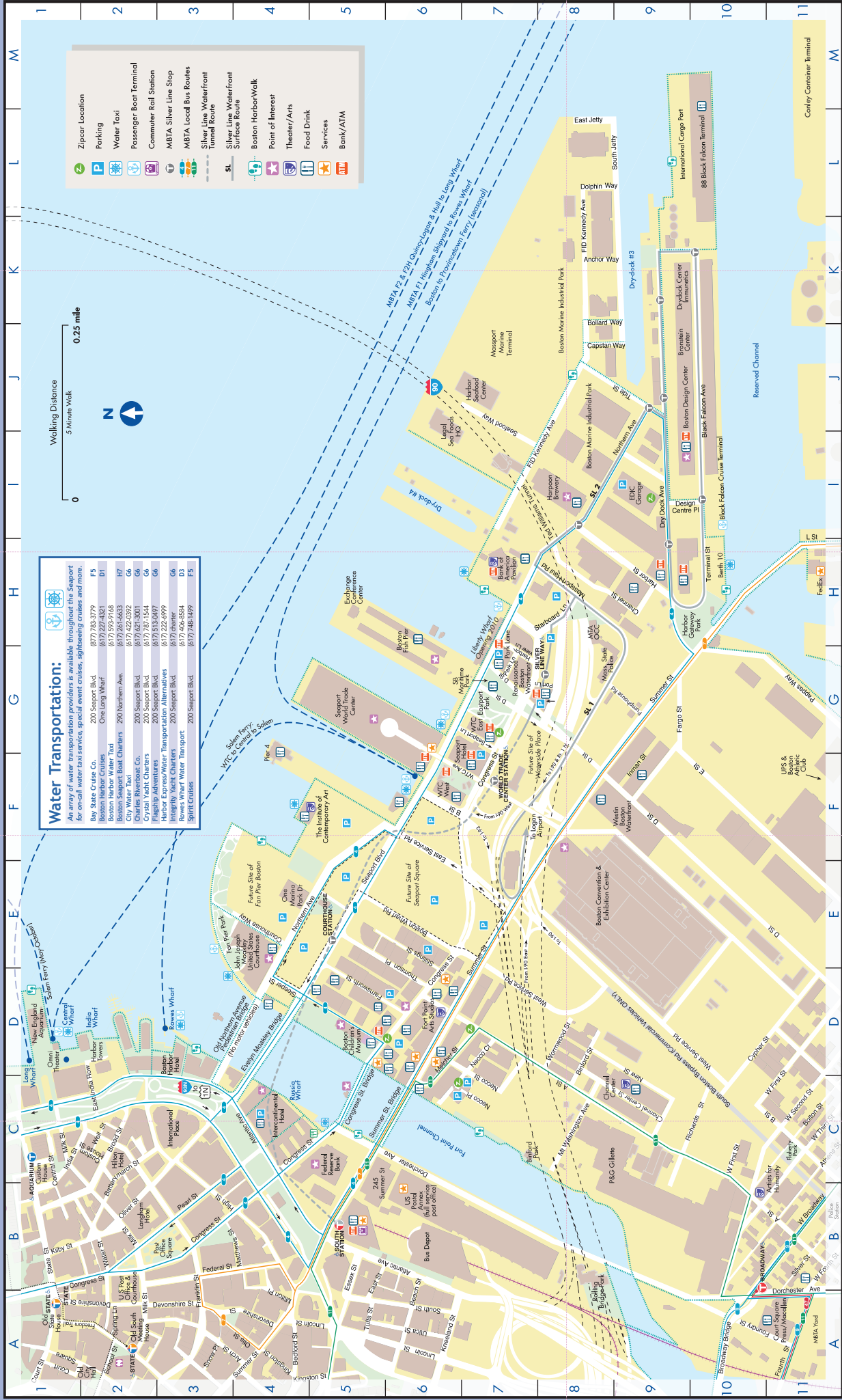
**The MassDEP – Bureau of Waste Prevention**, with expertise in developing and implementing pollution prevention programs, works to ensure USTs are properly constructed, registered, operated, and maintained in order to prevent UST systems from leaking to the environment.

MassDEP oversight of UST systems relies on Third Party Inspection of all UST systems statewide, once every three years, in conjunction with MassDEP audit inspections and timely enforcement to ensure proper UST system operation and maintenance over time. In addition, the program provides active compliance assistance to the regulated community via the MassDEP web page ([www.mass.gov/dep/toxics/ust](http://www.mass.gov/dep/toxics/ust)) and a hot-line (617-556-1035 Ext #2) to answer any questions the public or regulated community may have. Online owner/operator training is planned for 2012.

**The MassDEP – Bureau of Waste Site Cleanup**, with expertise in assessing and remediating releases to the environment, regulates the release reporting and remediation of leaking UST systems ([www.mass.gov/dep/cleanup](http://www.mass.gov/dep/cleanup)). If there is a release or a threat of a release to the environment from a UST system, the assessment and cleanup must be conducted under the oversight of a Licensed Site professional (LSP) in accordance with the Massachusetts Contingency Plan (MCP).

**The Massachusetts Department of Revenue**, with expertise in financial management programs, administers the Underground Storage Tank Petroleum Product Cleanup Fund, an EPA-approved state assurance fund that assists eligible UST owners in meeting the federal and state UST financial responsibility requirements. The fund reimburses UST owners for cleanup costs as a result of petroleum products released to the environment from leaking USTs ([www.mass.gov/ust](http://www.mass.gov/ust)).

# South Boston Waterfront Map



**Water Transportation:**

An array of water transportation providers is available throughout the Seaport for on-call water taxi services, special event cruises, sightseeing cruises and more.

Bay State Cruise Co.	200 Seaport Blvd.	877 783-3779	F3
Boston Harbor Cruises	One Long Wharf	617 222-4321	D1
Boston Harbor Water Taxi		617 542-9168	H7
City Water Taxi	290 Northern Ave.	617 422-0392	G6
Charles Riverboat Co.	200 Seaport Blvd.	617 621-3001	G6
Cystal Yacht Charters	200 Seaport Blvd.	617 789-1544	G6
Flagship Adventures	200 Seaport Blvd.	617 519-0897	G6
Intrepid Yacht Charters	200 Seaport Blvd.	617 406-8979	G6
Rowes Wharf Water Transport	200 Seaport Blvd.	617 406-8584	D3
Spirit Cruises	200 Seaport Blvd.	617 748-1499	F3

Walking Distance  
0 0.25 mile

5 Minute Walk

N

- Zipcar Location
- Parking
- Water Taxi
- Passenger Boat Terminal
- Commuter Rail Station
- MBTA Silver Line Stop
- MBTA Local Bus Routes
- Silver Line Waterfront Tunnel Route
- SL
- Silver Line Waterfront Surface Route
- Point of Interest
- Theater/Arts
- Food/Drink
- Services
- Bank/ATM

## Conference Information

### Registration and Information Desk Hours

#### Westin Waterfront Hotel – Harbor Level

Sunday, September 19	12:00p.m. to 6:00 p.m.
Monday, September 20	7:00 a.m. to 5:00 p.m.
Tuesday, September 21	7:00 a.m. to 5:00 p.m.
Wednesday, September 22	7:00 a.m. to 10:00 a.m.

### Lost & Found/Message Board

Located at the Conference Registration and Information Desk on the Harbor Level.

### ATM

There are two ATMs located in the Westin. One is located by Starbucks and the other is located next to the bellman stand.

### Business Centers/Office Supplies

The Penfield's Business center is located in the lobby level of the hotel, adjacent to Starbucks. It features an array of office amenities designed to help you maintain productivity throughout your stay, from High Speed Internet Access and parcel services to color printers and secretarial assistance.

Tel: (617) 532-4635

Monday – Friday	7:00 a.m. to 9:00 p.m.
Saturday – Sunday	10:00 a.m. to 6:00 p.m.

### Conference Transportation

A water taxi will be available for those National Tanks Conference participants staying at the Hyatt Harborside Hotel. Each participant will receive a free round trip voucher from the hotel for each day the participant stays at the hotel. More information will be provided by the Hyatt Harborside Hotel to guests.

### Attire and Badges

The attire for the 22nd National Tanks Conference will be "business casual." 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.

### Medical Information and Pharmacy

Massachusetts General Hospital – 55 Fruit Street, Boston  
Tel: (617) 726-2000; [www.mgh.harvard.edu/](http://www.mgh.harvard.edu/)

Boston Medical Center – 1 Boston Medical Place, Boston  
Tel: (617) 638-6800; <http://www.bmc.org>

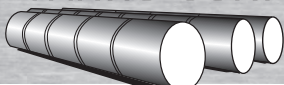
CVS Pharmacy, 423 West Broadway – see the Bellman for directions.

### 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 elevators in the event of a fire. Hotel staff will direct guests to the nearest emergency exit. In the event of a medical or fire emergency, contact hotel security immediately by pressing "0" on a hotel phone and asking for security.

### Airport Transportation

Ask at the Westin Hotel front desk for information, located in the lobby.





## Conference Information

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### National Tanks Exposition Hours

#### Expo Hours and Poster Sessions

Monday, September 20 10:00 a.m. to 7:00 p.m.

Tuesday, September 21 8:00 a.m. to 5:00 p.m.

Wednesday, September 22 8:00 a.m. to 12:00 p.m.

Poster "tours" will be conducted during the Monday Welcome Reception and the Tuesday Expo and Poster Session.

#### Breakfast Plenary and Luncheon

The Monday morning breakfast plenary will be held on the Galleria Level.

Monday, September 20 8:00 a.m. to 10:00 a.m.

The Tuesday luncheon, with guest speaker Ronald Killian from Massachusetts Department of Transportation, will be held on the Galleria Level.

Tuesday, September 21 11:45 a.m. to 1:15 p.m.

#### Welcome Reception

The Monday evening Welcome Reception is located on the Galleria Level. Your conference badge is your ticket in!

Monday, September 20 5:00 p.m. to 7:00 p.m.

#### 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 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.

Please leave your Individual Session Forms with the room moderator before leaving the session.

#### 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 tanks conference experience.

Please leave your Individual Session Forms at the Registration/Information Desk.

## Agenda for Sunday, September 19

11:00-6:00	<b>Conference Registration/ Information Desk Open – Location: Harbor Level</b> <b>Exhibitor Check-In/Move-In – Location: Galleria Level</b> <b>Poster Check-In/Setup – Location: Galleria Level</b>			
1:00-3:00	<b>LNAPL Workshop</b> <i>Don Lundy, ES&amp;T</i>  <b>Douglas</b>	<b>Petroleum Brownfields Workshop</b> <i>Jim Rocco, Vita Nuova LLC</i>  <b>Faneuil</b>	<b>Clean-Up Optimization Workshop</b> <i>Charles Whisman, GES</i>  <b>Adams</b>	<b>Petroleum Vapor Intrusion Workshop</b> <i>Matt Young, EPA OUST</i>  <b>Alcott</b>
3:00-3:15	<b>Break</b>			
3:15-5:00	<b>LNAPL Technology Update Workshop</b> Cont.  <b>Douglas</b>	<b>Forensics Workshop</b> <i>Brian Murphy, Exponent, Inc.</i>  <b>Faneuil</b>	<b>Cleanup Optimization Workshop</b> Cont.  <b>Adams</b>	<b>Petroleum Vapor Intrusion Workshop</b> Cont.  <b>Alcott</b>

Agenda as of 9/10/10



## Agenda for Monday, September 30

7:00-5:00	<b>Conference Registration/ Information Desk Open- Location: Harbor Level</b>			
7:00-7:45	<b>Mandatory Speaker/ Moderator Breakfast – Lewis</b>			
8:00-10:00	<b>Breakfast Plenary – Galleria Level</b> Moderator: <b>Ronald Poltak</b> , Executive Director, New England Interstate Water Pollution Control Commission Speakers: <b>Laurie Burt</b> , Commissioner, Massachusetts Department of Environmental Protection <b>Ira Leighton</b> , Deputy Regional Administrator, U.S. Environmental Protection Agency Region 1 <b>Tom McClure</b> , Confederated Salish and Kootenai Tribes of the Flathead Reservation <b>Carolyn Hoskinson</b> , Director, U.S. Environmental Protection Agency Office of Underground Storage Tanks			
10:00-10:30	<b>Break</b>			
10:00-7:00	<b>Exhibit Booths and Poster Area Open – Galleria Level</b>			
10:30-12:00	<b>Tribal Only Meeting</b> <i>Robert Largent, Cherokee Nation</i>  <b>Burroughs</b>	<b>No Rust for USTs - Corrosion Protection</b> <i>Betty Lamp, VA DEQ</i>  <b>Harbor I</b>	<b>State, Territorial, and EPA Program Managers Session</b> <i>Russ Brauksieck, NYS DEC</i> <i>Carolyn Hoskinson, EPA OUST</i> <b>Harbor II</b>	<b>Biofuels Remediation</b> <i>Dan Manweiler, VA DEQ</i>  <b>Harbor III**</b>
12:00-1:30	<b>Lunch (on your own)</b>			
1:30-3:00	<b>State Fund Administrators Open Forum</b> <i>Chuck Schwer, VT DEC</i> <i>Chuck Williams, FL DEP</i> <b>Burroughs</b>	<b>Vapor Intrusion</b> <i>Gary Lynn, NH DES</i>  <b>Harbor I</b>	<b>Operator Training - What Are States Doing</b> <i>Tim Smith, EPA OUST</i>  <b>Harbor II</b>	<b>Spill Prevention? Or Fantasy?</b> <i>Mahesh Albuquerque, CO OPS</i>  <b>Harbor III</b>
3:00-3:30	<b>Break: Visit the Exhibit Booths and Poster Session Area – Galleria Level</b>			
<i>** This session will be offered as a live webcast</i>				
3:30-5:00	<b>Private Insurance</b> <i>Cho Yi Kwan, EPA OUST</i>  <b>Burroughs</b>	<b>LNAPL</b> <i>Steve Reuter, NM ED</i>  <b>Harbor I</b>	<b>Tribal/EPA Meeting</b> <i>Robert Largent, Cherokee Nation</i> <i>Bill Lienesch, EPA OUST</i> <b>Harbor II</b>	<b>LSI – Leak Scene Investigations</b> <i>Carol Eighmey, MO PSTIF</i>  <b>Harbor III**</b>
5:00-7:00	<b>Welcome Reception, Exposition, and Poster Session – Galleria Level</b>			
<i>** This session will be offered as a live webcast</i>				

### Side Meetings:

10:30 AM-12:00 PM

EPA Managers Only Meeting

Location: *Carlton*

12:00 PM – 5:00 PM

Petroleum Brownfields Office Hours

Location: *Griffin*

# Agenda for Tuesday, September 21

7:00-5:00	<b>Conference Registration/ Information Desk Open – Location: Harbor Level</b>			
7:00-7:45	<b>Mandatory Speaker/ Moderator Breakfast – Lewis</b>			
8:00-6:00	<b>Exhibit Booths and Poster Area Open – Galleria Level</b>			
8:00-9:30	<b>Cost Control Roundtable</b> <i>Chuck Williams, FL DEP</i>  <b>Burroughs</b>	<b>Remedial Technologies</b> <i>Jeff Kuhn, MT DEQ</i>  <b>Harbor I</b>	<b>My Worst Nightmare – Leak Case Studies</b> <i>Dan Manweiler, VA DEQ</i>  <b>Harbor II</b>	<b>Biofuels &amp; Leak Detection</b> <i>Andrea Barbery, EPA OUST</i>  <b>Harbor III**</b>
9:30-10:00	<b>Break – Galleria Level</b>			
10:00-11:30	<b>Petroleum Brownfields: Collaborating on Corridors</b> <i>Steve McNeely, EPA OUST</i> <i>Shri Parikh, EPA R1</i> <b>Burroughs</b>	<b>How Far Under: Digging a way out of UST Cleanup Backlog</b> <i>Matthew Young, EPA OUST</i> <b>Harbor I</b>	<b>Mid-Level Ethanol Blends</b> <i>Andrea Barbery, EPA OUST</i> <b>Harbor II</b>	<b>Improving Inspections</b> <i>Andrea Zajac, MI DNRE</i> <b>Harbor III</b>
11:45-1:15	<b>Luncheon– Galleria Level</b>  <b>“The Big Dig- Some Lessons Learned”</b> Moderator: <b>Dania Rodriguez</b> , Deputy Executive Director, Association of State and Territorial Solid Waste Management Officials Speaker: <b>Ronald Killian</b> , Manager of Environmental Permits & Procedures, Massachusetts Department of Transportation			
1:15-2:00	<b>Exposition and Poster Area Open – Galleria Level</b>			
1:30-5:00	<b>Bulk Fuel &amp; Marine Terminal Tour – Meet at Registration Desk</b>			
2:00-3:30	<b>Community Engagement Session</b> <i>Barbara Grimm-Crawford, EPA OUST</i>  <b>Burroughs</b>	<b>Fate and Transport</b> <i>Steve Reuter, NM ED</i>  <b>Harbor I</b>	<b>Ultra Low Sulfur Diesel</b> <i>Bob Renkes, PEI</i>  <b>Harbor II</b>	<b>The Most Important and Overlooked Leak Prevention Opportunity – A Good Install!</b> <i>Robert Largent, Cherokee Nation</i> <b>Harbor III</b>
3:30-4:00	<b>Break – Galleria Level</b>			
4:00-5:00	<b>Do We Have Enough Money? - An Actuarial Perspective</b> <i>Gordon Bullard, MA DOR</i> <b>Burroughs</b>	<b>Long-Term Stewardship at LUST Sites</b> <i>Jennifer Steffes, CO OPS</i> <b>Harbor I</b>	<b>Energy Policy Act: Case Studies</b> <i>Jennifer Pruett, NM ED</i> <b>Harbor II</b>	<b>The Latest and Greatest in Leak Prevention</b> <i>Tracie Donaldson, EPA R6</i> <b>Harbor III**</b>
<b>** This session will be offered as a live webcast</b>				

## Side Meetings:

8:00 AM – 9:00 AM	U.S. EPA Attorneys’ Meeting	Location: <i>Griffin</i>
9:00 AM – 9:30 AM	U.S. EPA and State UST Attorneys’ Meeting	Location: <i>Griffin</i>
8:00 AM – 12:00 PM	Petroleum Brownfields Office Hours	Location: <i>Carlton</i>
5:00 PM - 7:00 PM	EPA Enforcement Only Meeting	Location: <i>Griffin</i>



## Agenda for Wednesday, September 22

7:00-10:00	<b>Conference Registration/ Information Desk Open – Location: Harbor Level</b> <b>Exhibit Booths and Poster Session Area Open – Galleria Level</b>			
7:00-7:45	<b>Mandatory Speaker/ Moderator Breakfast – Lewis</b>			
8:00-9:30	<b>Operator Training Workshop</b> <i>Ben Thomas, PTS</i>  <b>Burroughs</b>	<b>Site Assessment</b> <i>Tom Fox, CO OPS</i>  <b>Harbor I</b>	<b>State/EPA Meeting</b> <i>Julius Shapiro, ASTSWMO</i> <i>Mark Barolo, EPA OUST</i> <i>Adam Klinger, EPA OUST</i>  <b>Harbor II</b>	<b>Enforcement – Good, Bad, or Ugly</b> <i>Warren Roan, Navajo Nation EPA</i>  <b>Harbor III</b>
9:30-10:30	<b>Exposition Raffle, Poster Area Open – Galleria Level</b>			
10:30-12:00	<b>Community Engagement Workshop</b> <i>Barbara Grimm-Crawford, EPA OUST</i>  <b>Burroughs</b>	<b>Green Remediation</b> <i>Stephen Dymont, EPA OSRTI</i>  <b>Harbor I</b>	<b>Legal Issues</b> <i>Kevin Horrigan, MA DOR</i>  <b>Harbor II</b>	<b>Good Tank Management</b> <i>Carol Eighmey, MO PSTIF</i> <i>Shri Parikh, EPA R1</i>  <b>Harbor III</b>
12:00	<b>Adjourn</b>			

### Side Meetings:

1:30 PM – 5:00 PM	ASTSWMO LUST Task Force Sponsored “Fuel Oxygenates and Additives” Meeting	Location: <i>Griffin</i>
1:00 PM – 6:00 PM	National Work Group on Leak Detection Evaluations	Location: <i>Burroughs</i>

### Thursday Meetings, September 23, 2010

8:00 AM – 12:00 PM	National Work Group on Leak Detection Evaluations	Location: <i>Burroughs</i>
6:00 PM – 9:00 PM	National Work Group on Leak Detection Evaluations	Location: <i>Burroughs</i>

### Friday Meetings, September 24, 2010

8:00 AM – 12:00 PM	National Work Group on Leak Detection Evaluations	Location: <i>Burroughs</i>
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## Exhibitor Profiles

### Ameron International

9720 Cypresswood Drive, Suite 325  
Houston, TX 77070  
Tel: 832-912-8282  
Contact: Catherine Cuffe  
Email: ccuffe@ameronfpd.com  
<http://www.ameron-fpg.com>



Booth 25

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 a complete UL Listing for all products and fuel types. The coaxial piping can be continuously monitored using pressure or vacuum and Ameron has patented the only hydrostatic monitoring system that satisfies ILLM requirements for product piping in California and Listed by the NWGLDE.

### API

1220 L Street NW  
Washington, DC 20005  
Tel: 202-682-8053  
Contact: Whitney Medina  
Email: medinaw@api.org  
<http://www.api.org>

Booth 19

API is the primary trade association serving the worldwide oil and natural gas industry. API develops technical standards and publications, as well as training and qualification programs to help the industry keep abreast of advances and regulations in the industry.

### ARID Technologies, Inc.

323 S Hale Street  
Wheaton, IL 60187  
Tel: 630.681.8500  
Contact: Michael Heffernan  
Email: mheffernan@aridtech.com  
<http://www.ARIDtech.com>



Booth 23

ARID Technologies, Inc. is the industry leader in fuel vapor recovery systems providing membrane based systems for both retail stations and bulk cargo loading terminals with vapor recovery efficiencies > 99% (confirmed by 3rd Party testing). The PERMEATOR "back-end" vapor containment system attaches to retail station's storage tank vent lines and is compatible with any "front-end" Stage II Vacuum-Assisted Vapor recovery system. The ARID CRU allows higher rack loading rates while reducing emissions at terminals.

### Bristol Environmental Remediation Services

111 W. 16th Ave. Third Floor  
Anchorage, AK 99501  
Tel: (907)563-0013  
Contact: Scott Ruth  
Email: sruth@bristol-companies.com  
<http://www.bristol-companies.com>



Booth 26

BERS is a 100% Native American-owned company, a certified 8(a) business, and a wholly owned subsidiary of Bristol Bay Native Corporation. Our services include environmental site characterizations and investigations; 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.

### CGRS, Inc

PO Box 1489  
Fort Collins, CO 80522  
Tel: (970) 493-7780  
Contact: Eric Hick  
Email: stasie@cgrs.com  
<http://www.cgrs.com>



Booth 20

CGRS provides services specifically designed to assist fuel facility owners and operators with their petroleum storage, handling and regulatory compliance needs.

### Containment Solutions, Inc.

5150 Jefferson Chemical Road  
Conroe, Texas 77301  
Tel: (877) CSI-TANK  
Contact: David Heiman  
Email: dheiman@csiproducts.com  
<http://www.containmentsolutions.com>



Booth 05

Containment Solutions, Inc. (CSI) specializes in the manufacturing of underground fiberglass storage tanks (500 - 60,000 gal.) designed with rust-resistant fiberglass for safe, long term containment of petroleum, Urea DEF, 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 to several LEED points in "green-building" applications.

### Crompco

1815 Gallagher Road  
Plymouth Meeting, PA 19426  
Tel: (800) 646-3161  
Contact: Ed Kubinsky  
Email: lisa@mac4comm.com  
<http://www.crompco.com>



Booth 29

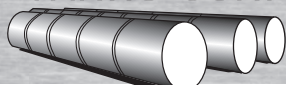
Crompco, the nation's leader in underground tank, line, and vapor recovery testing, is introducing new meter calibration solution that immediately stops profit loss and fuel shrink from meters. Instead of an open neck (traditional) can that is vulnerable to vaporization and human error, AccuMeasure(TM) is a closed loop system. The prover is precisely measured by a NIST traceable metrology lab to 1/100000 of a gallon, allowing incredible accuracy in testing, as well as re-calibration that approaches true zero. By calibrating meters as closely as possible to true zero, retailers benefit from:

- Improved profits as site shrink from meters is eliminated, ensuring that retailers gain the full value of every gallon of gasoline they purchase.

- Reduced compliance risk as meters are brought reliably within State Weights & Measures tolerances with the goal of calibrating the meter to "0".

- Increased time to spend managing the business rather than investigating inventory shortages.

Contact Bill Calloway at Crompco for more information at: 800.646.3161 or via email at [bill.calloway@crompco.com](mailto:bill.calloway@crompco.com), or visit us online at: [www.crompco.com](http://www.crompco.com).





## Exhibitor Profiles

### Diversified Products Mfg., Inc..

5523 Bassett Marysville Road  
Oroville, CA 95965  
Tel: (973) 886-9556  
Contact: Len Cutugno  
Email: lcutugno@optonline.net  
<http://www.dpm-llc.com>



Booth 27

Diversified Products Mfg. is the only authorized manufacturer of the patented Weaver line of products. DPM manufactures bulkhead fittings, flexible entry boots, test reducers, split repair boots and vacuum monitored fittings. We have a line of adhesives and filler material for both new construction and repair applications. We have also OEM and specialty products for the petroleum equipment industry including Dispenser Sumps, Transition Sumps, and Tank Sumps, in Poly and Fiberglass.

### DoubleTrac by OmegaFlex

451 Creamery Way  
Exton, PA 19341  
Tel: 6105247272  
Contact: David Strick  
Email: david.strick@omegaflex.net  
<http://www.doubletrac.net>



Booth 11

The DoubleTrac(R) semi-rigid piping system from OmegaFlex(R) offers a zero permeation UL971A listed double-wall pipe for UST and AST systems; ensuring an environmentally friendly and easy installation. DoubleTrac offers the user with the highest levels of safety while providing the most cost effective solution to the industry. Since 1975, OmegaFlex is the preeminent international producer of flexible metallic piping products..

### EcoVac Services

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



Booth 1

EcoVac Services provides mobile and innovative remedial solutions at UST sites throughout the United States. EcoVac is the world leader in mobile dual-phase/multi-phase extraction, having removed over 1,000,000 equivalent gallons of petroleum fuels from over 1,500 sites. EcoVac Services is also the nation's leading provider of surfactant remediation services, as well as a leading provider of ISCO services. The firm also provides treatability studies and R&D in our in-house laboratory.

### Emco Wheaton Retail

2300 Industrial Park Dr  
Wilson, NC 27893  
Tel: (252) 243-0150  
Contact: Betty West  
Email: baw@emcoretail.com  
<http://www.emcoretail.com>



Booth 22

Emco Wheaton Retail Corporation, Wilson, North Carolina, is a manufacturer and supplier of products to ensure the environmentally safe handling of liquid petroleum. Emco designs, engineers, and markets equipment for vapor recovery, spill containment, overfill prevention, and remediation including steel and composite manholes, used by retail gasoline service stations.

### Environmental Compliance Services, Inc.

588 Silver Street  
Agawam, MA 01001  
Tel: (800) 789-3530  
Contact: Nicole Ghedini  
Email: nghedini@ecsconsult.com  
<http://www.ecsconsult.com>



Booth 34

Established in 1982, ECS is a full-service environmental consulting firm. ECS is headquartered in Agawam, MA and has 11 offices throughout the Northeast, Midwest and Southeast, including two additional MA locations in Worcester and Woburn. Services include: air quality/ industrial hygiene; construction/development support; cost recovery; emergency response management; energy services (including geothermal); fuel system management; geotechnical engineering; health & safety training; landfill services; remediation; site assessment; sustainability planning; and telecommunications services.

### East Coast Associates, Inc.

204 Eagle Rock Ave  
Suite 201  
Roseland, NJ 07068  
Tel: 973-228-3448  
Contact: Mark Sisco

Email: bevp@eca93.com  
<http://www.estcst.com/>

Booth 10

Founded in 1993 by Mark Sisco, East Coast Associates, Inc. located in NJ is a manufacturer's representative firm specializing in the design, engineering and ultimate procurement of fuel storage, conveyance and supply system equipment for the commercial, industrial and retail petroleum industries. East Coast Associates, Inc. proudly represents some of the most respected and environmentally innovative manufacturers of petroleum related equipment in the Northeast and Mid-Atlantic states.

### Fiber Glass Systems

2700 West 65th Street  
Little Rock, AR 72209  
Tel: (501) 545-7234

Contact: Jack Bales  
Email: jack.bales@nov.com  
<http://www.fgspipe.com>



Booth 8

Fiber Glass Systems RED THREAD(R) IIA (RTIIA) fiberglass piping system is UL 971 Listed for all UL identified fuels & applications. RTIIA is also compatible with all Biodiesel blends & E85. The UL 971 Listed RTIIA double-wall bonded sump entry/termination fittings & vacuum monitoring of the interstitial space allow the Red Thread IIA system to meet California's definition of a Class 1 (leak prevention) system. UL 971 Listed sump entry fittings allow for Series Piping cost savings.

## Exhibitor Profiles

### Franklin Fueling Systems

6730 Marsh Rd.  
Madison, WI 53718  
Tel: 608-838-5685



**Franklin Fueling Systems**

Contact: Andrew Knapp  
Email: [knapp@franklinfueling.com](mailto:knapp@franklinfueling.com)  
<http://www.franklinfueling.com>

Booth 30

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.

### Groundwater & Environmental Services, Inc

1340 Campus Parkway, Suite C  
Neptune, NJ 07753  
Tel: (866) 518-7971 x 3694

Contact: Danielle Majka  
Email: [dmajka@gesonline.com](mailto:dmajka@gesonline.com)  
<http://www.gesonline.com>



Booth 2

Groundwater & Environmental Services, Inc. (GES) is celebrating its 25th year in service to the oil & gas industry. We offer compliance, remediation, and liability management services to clients ranging from major oils to independent marketers and refiners, at the local service station and the largest refineries, terminals, and pipeline systems across the US. Innovative technologies include Max-Ox aggressive chemical oxidation and I.C.E. AST vapor degassing.

### H&P Mobile Geochemistry, Inc.

2470 Impala Drive  
Carlsbad, CA 92010  
Tel: 760-804-9678

Contact: Louise Adams  
Email: [ladams@handpmg.com](mailto:ladams@handpmg.com)  
<http://www.handpmg.com>



Booth 18

H&P Mobile Geochemistry, Inc. is a unique, fixed based laboratory that specializes in soil gas analysis for Vapor Intrusion projects across the nation. H&P is an industry leader, with over 20 years of experience in analyzing soil gas samples with a VI focus. The H&P staff is also trained in the areas of soil gas probe installation and sampling, in order to provide you with a fully qualified support team for your next VI project. system to enhance industrial production capabilities.

### Highland Tank

One Highland Road  
Stoystown, PA 15563  
Tel: 814-893-5701

Contact: Stephen Mapes  
Email: [smapes@highlandtank.com](mailto:smapes@highlandtank.com)



Booth 21

Highland Tank is the leading manufacturer of steel storage tanks for gasoline and diesel motor fuels, heating oil, biofuels, chemicals, lube oil, and gaseous fuels, like propane. Our patented Oil/Water Separators, Oil/Sand Interceptors, and Advanced Filtration Systems offer superior wastewater treatment and oil spill control. We offer an extensive line of Grease Removal Devices, Grease Interceptors & Solids Strainers designed for removing fats, oils, and grease. And, we are the nation's premier manufacturer of carbon and stainless steel ASME Pressure Vessels and Atmospheric Water Storage Tanks.

### inFiberex

1000 Highland Ave, Suite 200  
Needham, MA 02494  
Tel: 1-781-453-3550



Contact: Boris Shtangeev  
Email: [shtangeev@insegment.com](mailto:shtangeev@insegment.com)

Booth 31

inFiberex is the developer of a new technology and manufacturing equipment that produces fiberglass pipes. All inFiberex pipes are produced onsite at a rate up to 45 meters per hour. Pipe diameters extend from 20 to 1,000 mm and pipe length is unlimited. inFiberex is currently offering its continuous fiberglass pipe technology and manufacturing equipment to partners interested in integrating this system to enhance industrial production capabilities.

### International Code Council

500 New Jersey Avenue, NW  
6th Floor  
Washington, DC 20001  
Tel: 1-888 (422-7233)

Contact: Robert Von Kampen  
Email: [rvonkampen@iccsafe.org](mailto:rvonkampen@iccsafe.org)  
<http://www.iccsafe.org>



Booth 39

The International Code Council (ICC) is a nonprofit organization with a long history of helping state agencies meet the UST/AST requirements established by the EPA. ICC currently has 18 certification programs that are recognized by the EPA as meeting the certification requirements of the Energy Policy Act of 2005. Numerous states now require individuals to pass exams in one or more of the UST/AST categories created by ICC. ICC's National UST Certification Program has been in place since 1993. ICC can develop a state-customized UST/AST certification, or provide a nationally recognized program that is already approved by the EPA. Please let us know how we can meet your needs.

*\*Official Bag Sponsor\**

### ION Science Americas LLC

35 Crossroad  
Waterbury, VT 05676  
Tel: 802 244 5153

Contact: Geoff Hewitt  
Email: [info@ionscience-americas.com](mailto:info@ionscience-americas.com)  
<http://www.ionscience.com>

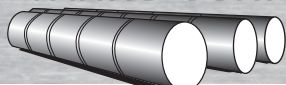
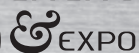


Booth 35

ION Science offers the most comprehensive line of state-of-the-art portable and continuous monitoring technology for TPH and VOC contamination and leaks into water and vapor. PhoCheck Tiger is a new generation handheld PID for VOCs with patented Fence Electrode and Anti-Contamination Technology that offers best accuracy together with extended field time and absence of humidity issues. Ideal for head-space or well monitoring. PetroSense PHA 100 handheld offers patented fiber optic chemical sensing technology for in situ direct measurement of BTEX in ground water with 98% correlation to EPA Method 8020. PetroSense CMS 100 combines a continuous PetroSense DHP probe with GPRS/web based data reporting for continuous monitoring for contamination and instant response to leaks. Certified to meet EPA UST standards for leak detection. GasClam is the world's first in situ ground gas monitor for VOC and landfill gas vapors and vapor intrusion. Measures methane, oxygen, carbon dioxide and pressure together with VOCs, carbon monoxide and hydrogen sulfide.

23<sup>rd</sup> National

TANKS CONFERENCE





## Exhibitor Profiles

### MobileWright Solutions, Inc.

30 Wing Road  
Lynnfield, MA 01940  
Tel: (781) 968-5245  
Contact: Dan Blake  
Email: dblake@mobilewright.com  
http://www.mobilewright.com



Booth 4

MobileWright Solution's UST Inspector software provides on-site data collection for state and federal UST compliance programs and petroleum distributors. The tablet or cell phone touch screen interface with wireless synchronization, on-site photo/signature capture, and mobile printing reduce the need for inspectors to come into the office to perform paperwork. This system can be customized and with integrated with the UST database of any private, state, federal, or tribal UST inspection program or hosted by MobileWright.

### Maine Dept. of Environmental Protection

17 State House Station  
Augusta, ME 04333-0017  
Tel: 207-287-7858  
Contact: Maine TankSmart Program  
Email: timothy.rector@maine.gov  
http://www.maine.gov/cgi-bin/online/tanksmart/index.cgi



Booth 17

TankSmart is a free, internet-based service for training operators of underground oil storage facilities. TankSmart links to Maine's TANKS database so that when a user logs in, the program generates the specific modules and test that are appropriate for that facility. Or, an operator may train on all of the modules and certify as a General Operator. In Maine, Class A and B operators are combined into one category. TankSmart is also available in a non-electronic print version.

### MK Environmental Inc

7150 South Madison  
Willowbrook, Illinois 60527  
Tel: 630 920 1104  
Contact: Edward Tung  
Email: etung@mkenv.com  
http://mkenv.com



Environmental Inc. Booth 24

MK Environmental is a diverse supplier of environmental remediation solutions. With factories in Illinois and Louisiana, as well as offices in Alabama and Tennessee, MK has provided over 700 dual phase extraction and treatment systems. Since 2005, MK has installed remediation equipment for over a dozen Electrical Resistive Heating (ERH) thermal remediation sites. In 2009, MK partnered with William Benni of IATM to provide highly accurate sophisticated three dimensional modeling of contaminant mass using only historical groundwater analytical and elevation data.

### NEIWPCC

116 John Street  
Lowell, MA 01852  
Tel: 978-323-7929  
Contact: Michele Piazza  
Email: mpiazza@neiwpcc.org  
http://www.neiwpcc.org



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, LUST, and State Funds matters nationwide.

### Nupi Americas Inc.

1511 Superior Way  
Houston, TX 77039  
Tel: 281-590-4471  
Contact: Blanca Hernandez  
Email: bhernandez@nupiamericas.com  
http://www.nupiamericas.com  
Manufacturer of high density pipe.



Booth 32

### OPW.

9393 Princeton-Glendale Road  
Hamlet, OH 45240  
Tel: 800-422-2525  
Contact: Kelly Klodell  
Email: kklodell@opw-fc.com  
http://www.opwglobal.com



Booth 40

OPW is the global leader in commercial and retail fueling equipment, offering everything from dispensing nozzles for vapor recovery, gasoline, diesel, LPG, Hydrogen and CNG to swivels, breakaways, valves and fittings, underground and above ground storage tank equipment, spill containers, overfill prevention devices, secondary containment sumps and flexible piping, tank gauging equipment and automated fuel management systems. With sales offices on six continents, manufacturing operations in North America, South America, Asia and Europe, and more than 1,000 distributors worldwide, we are One Company, One World, One Source, Leading The Way in creating innovative fueling solutions to fuel the world today, tomorrow and into the future.

*\*Official Name Tag Lanyard Sponsor\**

### Petroleum Training Solutions

PO Box 80265  
Saukville, WI 53080  
Tel: (866) 301-8265  
Contact: Kimberly Deniswicz  
Email: kimberlyd@purporaengineering.com  
www.USTtraing.org



Booth 28

In 2003, three small-business training consultants decided to join forces and offer the UST community their combined talents. Together, we strive to provide the nation's highest quality education to the petroleum UST industry. We are passionate about reducing the risk that petroleum poses to the environment through practical, meaningful and cost-effective education.

### PASS

PO Box 2353  
Muncie, Indiana 47307  
Tel: 8667350201  
Contact: Kevin Butler  
Email: kevin@passtesting.com  
http://passtesting.com



Booth 15

In 2003, three small-business training consultants decided to join forces and offer the UST community their combined talents. Together, we strive to provide the nation's highest quality education to the petroleum UST industry. We are passionate about reducing the risk that petroleum poses to the environment through practical, meaningful and cost-effective education.

## Exhibitor Profiles

### Regenesis

1011 Calle Sombra  
San Clemente, California 92673  
Tel: 949-366-8000  
Contact: Maureen Dooley  
Email: LMuggee@Regenesis.com  
<http://www.regenesis.com>



Booth 9

REGENESIS is the leader in proven, cost-effective technologies for contaminated site remediation. Over the past 16 years the Company has created an industry based around the use of injectable substrates for in-situ soil and groundwater remediation. It started in 1994 with the development of Oxygen Release Compound (ORC(R)) to enhance aerobic bioremediation. From there REGENESIS began developing other paradigm shifting technologies such as Hydrogen Release Compound (HRC (R)), ORC Advanced (R), RegenOx(R) in-situ chemical oxidation (ISCO), 3D Microemulsion (3DMe)(R), Metals Remediation Compound (MRC(R)), and Bio-Dechlor INOCULUM bioaugmentation. Cumulatively REGENESIS products have been successfully applied on over 16,000 sites worldwide by a range of engineering and environmental consulting firms. For more information or a free technology application design and cost estimate please visit [www.regenesis.com](http://www.regenesis.com).

### STI/SPFA

944 Donata Ct.  
Lake Zurich, IL 60047  
Tel: (847) 438-8265  
Contact: Vivian Bartt  
Email: [vbartt@steeltank.com](mailto:vbartt@steeltank.com)  
<http://www.steeltank.com>



Booth 7

STI/SPFA is a trade association representing fabricators of steel construction products, such as storage tanks, pressure vessels, and pipelines, providing industry with education and expertise with codes and regulatory issues, and offering certification of tank inspectors and corrosion testers. STI develops standards and recommended practices, while licensing and providing QC of sti-P3, ACT-100, ACT-100-U, and Permatank steel USTs. Such tanks are protected from external corrosion, while providing structural integrity and fuel compatibility.

### Tanknology Inc

11000 N. MoPac Expressway  
Suite 500  
Austin, TX 78759  
Tel: (928) 468-6655  
Contact: Wanda Randall  
Email: [wrandall@tanknology.com](mailto:wrandall@tanknology.com)  
<http://www.tanknology.com>



Booth 38

Tanknology is the largest provider of UST compliance solutions in the world. Our crews provide testing and related services at more than 39,000 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.

### TMC Services, Inc.

One William Way  
Bellingham, MA 02019  
Tel: 508-966-6000  
Contact: Kelly Dillon  
Email: [kdillon@hazmatt.com](mailto:kdillon@hazmatt.com)  
<http://www.hazmatt.com>



Booth 6

TMC is one of New England's leading full-service environmental contracting companies offering specialized services to their clients; from the local home owner to the federal government. They provide environmental, construction, and abatement services to owners, general contractors, engineers, and municipal and government agencies, as well as offer 24-hour emergency response across four different regions. Their technical abilities, as well as approach to various problems, largely separate them from their competitors.

### Vaporless Manufacturing, Inc.

8700 E. Long Mesa Dr.  
Prescott Valley, AZ 86314  
Tel: 928-775-5191  
Contact: Greg Young  
Email: [vmi@vaporless.com](mailto:vmi@vaporless.com)  
<http://www.vaporless.com>



Booth 33

Company targets Best In Class solutions for line leak detection, AST overflow protection, tank, line leak detector, and sump testing equipment. 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, precision tank testing, and sump testing equipment. Equipment compatible with Ethanol, Methanol, Biodiesel, Aviation Fuel, typical gasoline and diesel.

### Veeder-Root

125 Powder Forest Drive  
Simsbury, CT 06070  
Tel: (860) 651-2879  
Contact: Eva Chambers  
Email: [echambers@veeder.com](mailto:echambers@veeder.com)  
<http://www.veeder.com>



Booth 37

Veeder-Root [[www.veeder.com](http://www.veeder.com)] is a leading global supplier of automatic tank gauging and fuel management systems, including the Red Jacket(R) brand of submersible pumps and pressurized line leak detectors. Veeder-Root and Red Jacket brands are both market leaders with a tradition of excellence in the petroleum industry. Veeder-Root is headquartered in Simsbury, Connecticut.

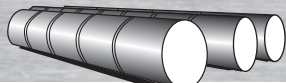
### Xerxes Corporation

7901 Xerxes Ave South  
Minneapolis, MN 55431  
Tel: 952-887-1828  
Contact: Kristi Peterson  
Email: [kpeterson@xerxescorp.com](mailto:kpeterson@xerxescorp.com)  
<http://www.xerxes.com>



Booth 36

Xerxes Corporation, together with its parent company ZCL Composites Inc., is North America's largest manufacturer of U.L. listed fiberglass underground storage tanks, with six manufacturing facilities. Xerxes fiberglass tanks are UL listed for storage of up to 100% ethanol and offer distinct advantages in this age of microbial corrosion and ULSD rust concerns. Xerxes also offers the ZCL Phoenix System, a unique ULC listed product that upgrades in-service steel or fiberglass single-wall tanks to a secondarily contained system. Visit our Web site at [www.xerxes.com](http://www.xerxes.com).





## Exhibitor Profiles

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### **Xitech Instruments, Inc.**

6 Camino De Los Desmontes

Placitas, NM 87043

Tel: (505) 867-0008

Contact: Dwight Patterson

Email: [xitechinc@xitechinc.com](mailto:xitechinc@xitechinc.com)



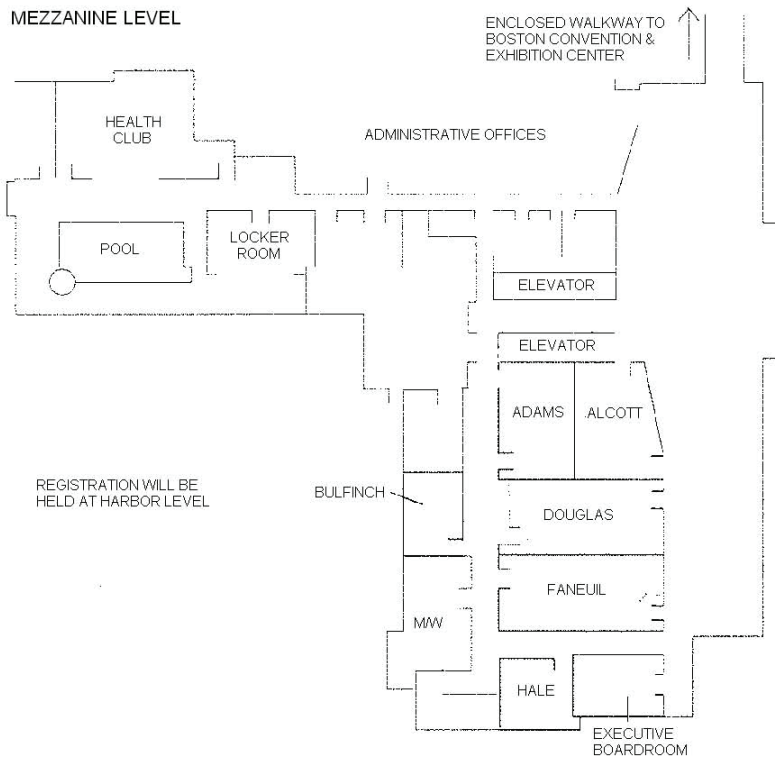
Booth 3

Xitech Instruments, Inc. has established itself as a leader in the global environmental cleanup equipment market. We are a family-owned business that has been perfecting pneumatic skimming technology for over 20 years. Our mission is to provide the highest quality products and services to the environmental sector. We add value to every operation by providing you with the best equipment for your site. Our goal is to maximize free product recovery, while minimizing maintenance and recovery of groundwater. Over the past 20 years Xitech has had the opportunity to demonstrate the power of our recovery systems in a countless variety of applications. Every situation is unique, and we have the technical experience and reliable equipment needed to achieve success in any operation on any site.

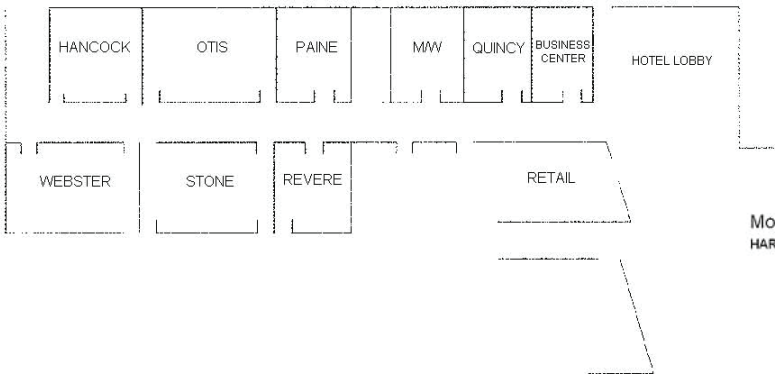
# Westin Waterfront Hotel Floor Plan

## Sunday Workshops Floor Plan

### MEZZANINE LEVEL

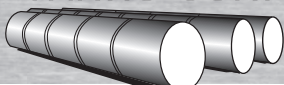
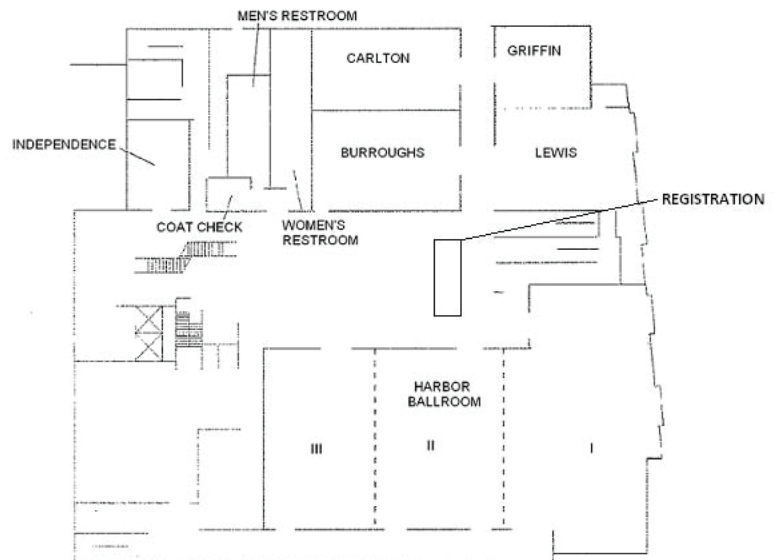


### LOBBY LEVEL



## Monday - Wednesday Conference Floor Plan

### HARBOR LEVEL





# EPA Regional UST/LUST Programs

## Region 1

Stuart Gray, RPM  
 Andrea Beland  
 Joan Coyle  
 Susan Hanamoto  
 Shri Parikh  
 Kim Schweisberg  
 Claire Willscher  
 Jeff Fowley,  
 Regional Counsel

## Region 2

Dennis McChesney, RPM  
 Rebecca Jamison  
 Margaret Halley  
 William Sawyer,  
 Regional Counsel

## Region 3

Claudette Reed, RPM  
 Joanne Cassidy  
 Jack Hwang  
 Marie Owens  
 Carletta Parlin  
 Benjamin Fields,  
 Regional Counsel  
 Mary Coe,  
 Regional Counsel  
 (UST Enforcement)

## Region 4

Bill Truman, RPM  
 Aaryn Jones  
 Mallory Miller  
 Ben Singh  
 Winston Smith  
 Jason Poe  
 Terry Self  
 Adam Dilts,  
 Regional Counsel

## Region 5

Laura Lodisio, RPM  
 Fred Becker, SEE  
 Burdell Chapman, SEE  
 Arturo Cisneros  
 Gaye Cuerington, APA  
 Cindy Dabner  
 Brian Freeman  
 Erin Galbraith  
 Kevin Hill  
 Sharon Lowery-Martin  
 Estelle Patterson  
 Mark Restaino  
 Sandy Siler  
 Tom Tsai  
 Thomas Kenney,  
 Regional Counsel

## Region 6

Willie Kelley, RPM  
 Christine Cherrett  
 Tracie Donaldson  
 Sherry Fuerst  
 Audray Lincoln  
 Vic Palmer  
 Greg Pashia  
 Larry Thomas  
 Joe Womack  
 Bruce Jones,  
 Regional Counsel

## Region 7

Margaret Stockdale, RPM  
 Bjorn Brinkman  
 Wilfredo Chapparo  
 Robert Coleman  
 Richard Farrar  
 Linda Garwood  
 Paula Higbee  
 Victoria Matthews  
 Connie Novak  
 Peter Sam  
 Raymond Bosch,  
 Regional Counsel

## Region 8

Janice Pearson, RPM  
 Nadine Carlile, SEE  
 Francisca Chambus  
 Ray Faliskie  
 Darla Hohman  
 Lisa Luebke  
 Tillman McAdams  
 Bob Ward,  
 Regional Counsel

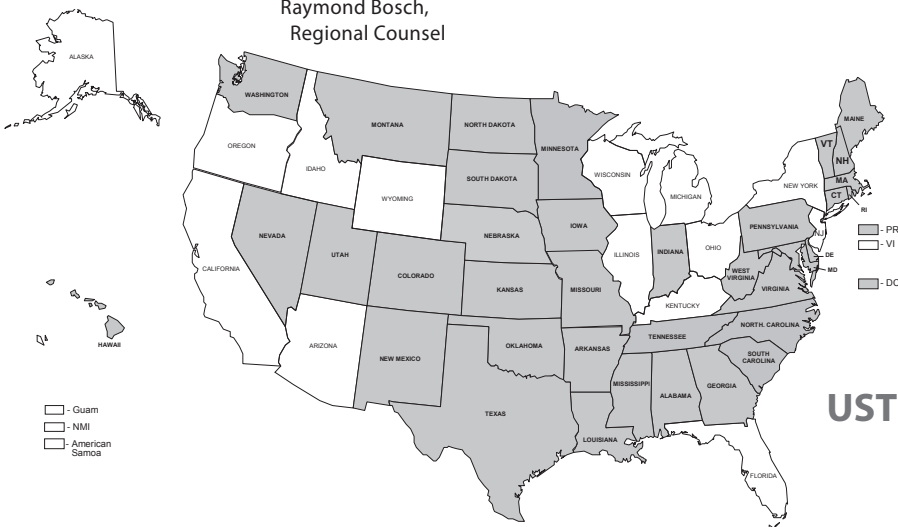
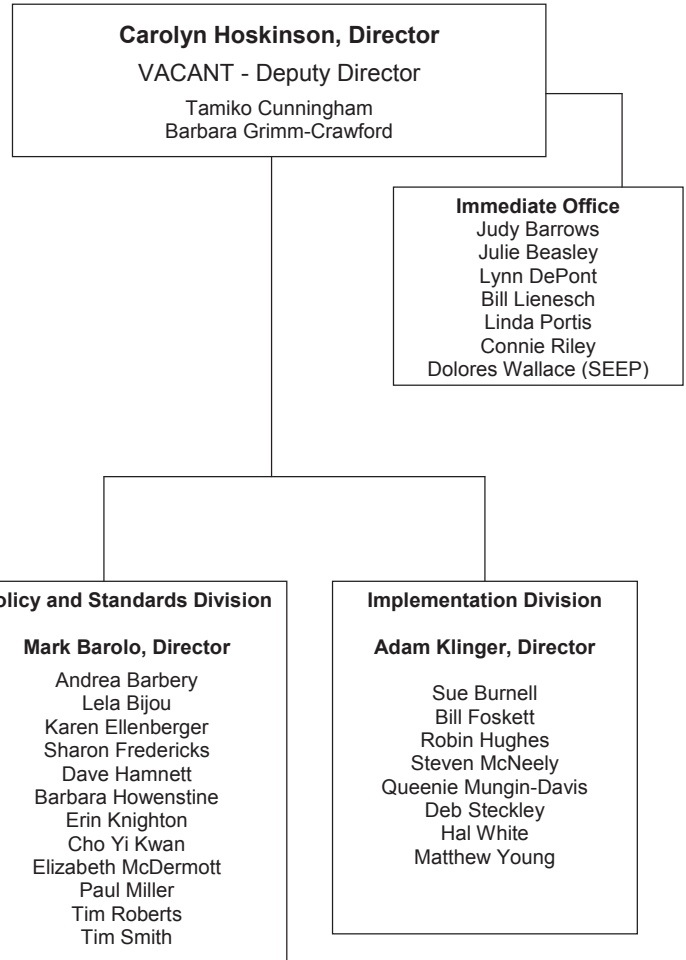
## Region 9

Steven Linder, RPM  
 Laurie Amaro  
 Agnes Chan  
 Joel Coffman  
 Mary Keil  
 Eric Magnan  
 Bobby Ojha  
 Bob Pallarino  
 La Donna Thomas  
 Carl Warren  
 Mimi Newton,  
 Regional Counsel

## Region 10

Peter Contreras, RPM  
 Todd Bender  
 Carlo Bertani  
 Charlotte  
 Boulind-Yeung  
 Anne Christopher  
 Jim Greeves  
 Katie Griffith  
 Ben Horwitz  
 Phil Nennering, HIS  
 Ron Rau  
 Eric Sirs  
 Shaunesy Walden  
 Deborah Hilsman,  
 Regional Counsel

# EPA Office of Underground Storage Tanks



### Approval Status

Final – 36 States, District of Columbia, Puerto Rico

July 2010

## UST State Program Approval Status August 2010

## Poster Sessions

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Don't miss the walking poster sessions hosted by noted EPA ORD scientists and experts in the field! These walking tours will include a brief introduction to the poster session followed by a two to three minute presentation from each of the poster authors. You will have ample time to discuss questions in more depth with all of the poster authors following the tour.

Posters will be on display during the entire conference.

### Poster Authors will be Present:

Monday 5:00-7:00 PM

• Annual UST/LUST Poster Session Award: Monday 6:00 PM

Tuesday 1:15-2:00 PM

During Breaks Each Day

### Poster Session Moderators:

Matt Small, U.S. EPA, Region 9

Jim Weaver, U.S. EPA, NERL

### UST compatibility/compliance

**Kentucky 2010 Environmental Stewardship Calendar for Gasoline Stations**, Virginia Lewis, Kentucky DEP [virginia.lewis@ky.gov](mailto:virginia.lewis@ky.gov)

**Summary of New Requirements for Connector Pipe & Containment Sumps**, Roland Riegel, Underwriters Labs Inc., [roland.a.riegel@us.ul.com](mailto:roland.a.riegel@us.ul.com)

**Compliance Assistance in Indian Country: Continued Successes**, Pinu'u Stout, Eight Northern Indian Pueblos Council, [pinuu.stout@gmail.com](mailto:pinuu.stout@gmail.com)

**UST Inspections Made Easy**, Omar Tyson, Connecticut DEP, STEU, [omar.tyson@ct.gov](mailto:omar.tyson@ct.gov)

**RE-Powering Former Gas Stations**, Deb Steckley, EPA Office of Underground Storage Tanks, [steckley.deb@epa.gov](mailto:steckley.deb@epa.gov); Caley Johnson, US Department of Energy, NREL, [caley.johnson@nrel.gov](mailto:caley.johnson@nrel.gov)

**New Mexico to Use GISST to Prevent LUST**, Suzan Arfman and Alex Harding, New Mexico Environment Department, [suzan.arfman@state.nm.us](mailto:suzan.arfman@state.nm.us)

**Inter Tribal Council of Arizona, Inc. UST CATS Program**, Elaina Doral

### LUST Cleanup

**Response and Clean-up of A Discharge of #2 Oil From a Fiberglass UST at A Maine Elementary School**, Stephen Brezinski, Maine DEP, [stephen.g.brezinski@maine.gov](mailto:stephen.g.brezinski@maine.gov)

**Fourth Annual Region 9 Tribal Leaking Underground Storage Tank Cleanup Summary Report**, Carl Warren, EPA Region 9, [warren.carl@epa.gov](mailto:warren.carl@epa.gov)

**Understanding the Impacts of Catastrophic Denatured Ethanol Releases in Real-World Situations**. Mary Exner, Roy Spalding, and Shane Jensen from University of Nebraska; Lincoln and Mark Toso, Tom Higgins and Adam Sekely, Minnesota Pollution Control Agency (MPCA), [mspalding1@unl.edu](mailto:mspalding1@unl.edu)

**Economic Evaluation of Natural Attenuation and Source Removal**, Elizabeth Montana, EPA/Georgia Institute of Technology; Jim Weaver, US EPA National Exposure Research Laboratory, [emontana3@gatech.edu](mailto:emontana3@gatech.edu)

**BioVapor (API) Indoor Vapor Intrusion model**, Tim McHugh, GSI Environmental Inc., [temchugh@gsi-net.com](mailto:temchugh@gsi-net.com)

**LUST Cleanup Footprint Calculator**, Eric Magnan and Steven Linder, EPA Region 9; Mike Martinson, Delta Environmental, [magnan.eric@epa.gov](mailto:magnan.eric@epa.gov)

**Ronan Electrical Resistance Heating Project**, Jeff Kuhn, Montana DEQ LUST Brownfields Section, [jkuhn@mt.gov](mailto:jkuhn@mt.gov)

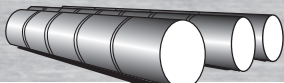
**Capture Zone Modeling**, Jim Weaver, EPA National Exposure Research Laboratory; Matthew Small, EPA Region 9; Jordan Ferguson, Independent EPA Contractor; Biplab Mukherjee, National Research Council Associate, [weaver.jim@epa.gov](mailto:weaver.jim@epa.gov)

**Alternative Screening Methodology for Vapor Intrusion Assessment at Petroleum Hydrocarbon Release Sites**, Matthew A. Lahvis and George E. DeVaul, Shell Global Solutions (US), Inc., [matthew.lahvis@shell.com](mailto:matthew.lahvis@shell.com)

**Introduction to GWSDAT: GroundWater Spatiotemporal Data Analysis Tool**, Wayne Jones and Mike Spence, Shell Global Solutions (UK); Matthew Lahvis, Shell Global Solutions (US), Inc., [Wayne.W.Jones@shell.com](mailto:Wayne.W.Jones@shell.com)

**Successful Application of Air Sparging to Remediate Ethylene Dibromide (EDB) in Ground Water in Kansas**, Emily McGuire, Kansas Dept. of Health & Environment; John T. Wilson, EPA, National Risk Management Research Laboratory, [emcguire@kdheks.gov](mailto:emcguire@kdheks.gov)

**Ethanol (E95) Release into Gasoline Residuals**, Juliana G. Freitas and James F. Barker, University of Waterloo, [jgardena@uwaterloo.ca](mailto:jgardena@uwaterloo.ca)



### LUST Recalcitrant Compounds

**Lead Scavengers in Product from LUST sites**, Jim Weaver and David C. Spidle, EPA National Exposure Research Laboratory, weaver.jim@epa.gov

**Potential Exposure to Gasoline Additives**, David C. Spidle and Jim Weaver, EPA National Exposure Research Laboratory, spidle.david@epa.gov

**Summary of Salient Findings of "Natural Attenuation of the Lead Scavengers 1,2-Dibromoethane (EDB) and 1,2-Dichloroethane (1,2-DCA) at Motor Fuel Release Sites and Implications for Risk Management" (EPA 600/R-08/107)**, John T. Wilson and Cherri Adair, EPA, National Risk Management Research Laboratory; Hal White, EPA Office of Underground Storage Tanks, Wilson.JohnT@epa.gov

**Dissipation of MTBE Ground Water Contamination Following the Connecticut Ban on MTBE Usage**, Graham J. Stevens, Gary A. Robbins, and Meredith Metcalf, Department of Natural Resources and the Environment, University of Connecticut, gary.robbs@snet.net

### LUST Biodegradation

**Monitoring Production of Methane from Spills of Gasoline at UST Release Sites**, Ken Jewell, EPA Office of Research and Development, jewell.ken@epa.gov

**Comparison of Sampling Methods to Document the Contribution of Aerobic Biodegradation to the Attenuation of Vapor Concentrations at UST Sites**, Cynthia J. Paul, John T. Wilson, and Ken Jewell, EPA, National Risk Management Research Laboratory; John Menatti and Robin Davis, Utah DEQ, Paul.Cindy@epa.gov

**Anaerobic Biodegradation of Biofuels and Proposed Biofuels (Ethanol, n-Propanol, iso-Propanol, n-Butanol) in Aquifer Sediment**, Cherri Adair and John T. Wilson, EPA, National Risk Management Research Laboratory, adair.cherri@epa.gov

**A Pilot-scale Investigation of Plume and Microbial Dynamics in Response to Continuous Injection of an Ethanol, Benzene, and Toluene Aqueous Mixture**, Amy L. Monier, Diego E. Gomez, Jie Ma, Zongming Xiu, and Pedro J.J. Alvarez, Rice University, Houston, TX; Yi Zhang, Yongzhi He, Irina Mamonkina, and William G. Rixey, University of Houston, Houston, TX; Brent P. Stafford, Shell Global Solutions, Houston, TX, wrixey@uh.edu

**Impact of Ethanol on Natural Attenuation of BTEX: Extrapolation from Field Experiments**, D. Mackay, E. Rasa, K. Scow, L. Foglia, and T. Ginn, University of California-Davis, dmackay@ucdavis.edu

**Anaerobic BTEX Biodegradation Using Sulfate Enhancement**, Jeff Burdick and Eric Nichols, Arcadis, jeff.burdick@arcadis-us.com

**Stable Isotope Probing Analysis of Commensalistic MTBE Biodegradation**, Denise Aslett and Michael Hyman, North Carolina State University, dmaslett@ncsu.edu



### Petroleum Vapor Intrusion Workshop

**Sunday, September 19, 2010, 1:00 to 5:00 PM**

**Location: Alcott (Westin Boston Waterfront)**

Presented by: **Robin Davis**, Geologist and Project Manager, Utah DEQ; **George DeVaul**, Senior Consultant, Shell Global Solutions; **Blayne Hartman**, Hartman Environmental Geoscience; **Thomas McHugh**, Vice President, GSI Environmental; **Todd Ririe**, Environmental Technology Coordinator, BP; **Matthew Young**, Environmental Protection Specialist, U.S. EPA OUST; **Robert Truesdale**, Senior Scientist, RTI International

This workshop covers considerations assessing and evaluating vapor migration from subsurface sources into buildings specific to petroleum hydrocarbons. Subjects include applicable conceptual models for the source, soil, and building enclosure; evidence for biodegradation including oxygen and petroleum vapor data summaries; collection and interpretation of data for petroleum sites; and the exclusion distance concept. Modeling approaches using the API BioVapor model ([www.api.org/vi](http://www.api.org/vi)) will be demonstrated. Case studies, incorporating petroleum biodegradation, with comparison to modeled estimates, will be included.

### Clean-Up Optimization Workshop

**Sunday, September 19, 2010, 1:00 to 5:00 PM**

**Location: Adams (Westin Boston Waterfront)**

Presented by: **Charles Blanchard**, Western Regional Engineering Manager, Groundwater and Environmental Services, Inc.; **Gerald Cresap**, Regional Engineering Manager, Groundwater and Environmental Services, Inc.; **David Demko**, Geologist, Groundwater and Environmental Services, Inc.; **John Sohl**, Chief Executive Officer, COLUMBIA Technologies; **Charles Whisman**, Senior Vice President of Engineering, Groundwater and Environmental Services, Inc.

This workshop will present the latest in implementing aggressive remediation technologies, including enhanced site assessment, real-time feasibility testing, optimizing conventional and aggressive remediation technologies via design and O&M modifications, and much more. The strategies to be discussed in this session will include:

- Remediation Optimization Using Direct Sensing Technologies and SmartData Solutions® to Reduce Remediation Costs via Source Area Delineation and Performance;
- Real-Time Feasibility Testing to Assess Numerous Remediation Technologies in One Event;
- Improving Well Efficiency to Enhance System Performance;
- System Optimization During System Design and Operation to Enhance Conventional Remediation Technologies;
- Chemical Oxidation – How Oxidants Work; and,
- Chemical Oxidation – Lessons Learned and What to Watch Anticipate.

### Petroleum Brownfields Workshop

**Sunday, September 19, 2010, 1:00 to 3:00 PM**

**Location: Faneuil (Westin Boston Waterfront)**

Presented by: **Jim Rocco**, TITLE, Sage Risk Solutions LLC; **Tom Schruben**, Independent Environmental Risk Management Consultant

The workshop will be geared towards the broad spectrum of stakeholders associated with petroleum brownfield properties to help potential stakeholders grasp a better understanding of their respective roles, responsibilities, and opportunities. The workshop will be presented by private-sector and public-sector practitioners with extensive expertise in redeveloping contaminated properties. It will include presentations on a broad range of financial, regulatory and community issues associated with the cleanup and redevelopment including topics such as engaging stakeholder groups, developing goals, identifying intervention options, conducting due diligence, identifying redevelopment barriers, evaluating potential risks/liabilities, and selection of risk management tools.

To address the unique nature of brownfields properties and enhance stakeholder engagement in the revitalization process, the USEPA Office of Underground Storage Tanks is proposing to develop a workbook focused specifically on petroleum brownfields and enhanced stakeholder engagement. This workbook will build upon the risk management concepts outlined in the USEPA Region 1 "Risk Management Workbook for Municipalities and other Government Entities Addressing Revitalization of Contaminated Properties," which is targeted for release in spring of 2010. Intertwined in the presentation will be a case study and break-out sessions to provide the attendees with the opportunity to gain hands-on experience in the concepts presented and the use of the worksheets and pro forma provided in the workbook. The workshop will also provide a mechanism to receive input and feedback from the participants to help guide the content and format of the workbook.

### Light Non-Aqueous Phase Liquid (LNAPL) Workshop

**Sunday, September 19, 2010, 1:00 to 5:00 PM**

**Location: Douglas (Westin Boston Waterfront)**

Presented by: **Ray Leather**, Vice President of Affairs, Cumberland Gulf Group of Companies; **Don Lundy**, ES&T, Div. of Groundwater & Environmental Services, Inc.; **Pamela Trowbridge**, Licensed Professional Geologist, Pennsylvania DEP

The workshop will provide an overview of the LNAPL remedial technology selection framework, introduce attendees to the remedial technology information contained in the document, and teach attendees how to apply the framework by case example. Attendees will gain a better appreciation for the importance of developing a sound LNAPL conceptual site model, a better understanding of how to set remedial objectives for LNAPL sites, and learn how to use a tool designed to facilitate remedial technology selection. This workshop will benefit regulators, site owners, and environmental consultants and equip them to make better remedial technology selection decisions. The target audience is environmental professionals with responsibilities as project managers, owner/operators, and regulatory decision-makers involved with sites impacted by petroleum hydrocarbon liquids. This will be an opportunity for learning about LNAPL behavior in the subsurface, methods for investigating the spatial distribution, volume, mobility, and recoverability of LNAPL in contact with groundwater, assessing plume migration and exposure risks, and approaches for developing an LNAPL conceptual site model for mitigating LNAPL mobility and toxicity, with suggestions for endpoint negotiations with stakeholders.

### Petroleum Forensics Workshop

**Sunday, September 19, 2010, 3:15 to 5:00 PM**

**Location: Faneuil (Westin Boston Waterfront)**

Presented by: **Brian Murphy**, Exponent, Inc.

Petroleum/Tanks Forensics seeks answers to questions such as: Is a tank leaking? Which tank is leaking? Whose tank is leaking? When did a tank start leaking?

Topics will include: Normal and abnormal mass balance relationships at a retail petroleum outlet when vapor recovery and seasonal temperature variations are taken into account; methods for chemical and isotopic fingerprinting petroleum products; age-dating methods for diesel and gasoline products including an update on the Christensen and Larsen method; age dating dissolved phase plumes based on MTBE plume length; and other information available for dissolved phase plumes.

**8:00 am - 10:00 am**

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### **Breakfast Plenary – Galleria Level**

**Laurie Burt**, Commissioner, Massachusetts Department of Environmental Protection; **Ira Leighton**, Deputy Regional Administrator, U.S. Environmental Protection Agency Region 1; **Tom McClure**, Confederated Salish and Kootenai Tribes of the Flathead Reservation; **Carolyn Hoskinson**, Director, U.S. Environmental Protection Agency Office of Underground Storage Tanks

Moderated by **Ronald Poltak**, Executive Director, New England Interstate Water Pollution Control Commission

**10:30 am - 12:00 pm**

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### **Tribal Only Meeting, Burroughs**

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

### **No Rust for USTs - Corrosion Protection, Harbor I**

Cathodic protection is one of the more complex and sometimes confusing areas of the UST regulations. This session will allow inspectors to share experiences and learn from other states. First we will hear two different states' experiences with impressed current (rectifier) systems: Kansas' requirements for rectifier log review stemming from a fire; and Utah's experiences with tanks that use statistical analyses to justify the use of impressed current CP. We will then switch to galvanic (sacrificial anode) CP with an overview of the Steel Tank Institute's Recommended Practice for the Addition of Supplemental Anodes to sti-P3® USTs. Plenty of time will be incorporated for questions and information sharing.

**Lorri Grainawi**, Director of Technical Services, Steel Tank Institute/Steel Plate Fabricators Association; **Doug Hansen**, UST Compliance Program Manager, Utah DEQ; **Michael L. Pomes**, Chief of Preventive Unit, Kansas DHE; Moderated by **Betty Lamp**, Virginia DEQ

### **State, Territorial, and EPA Managers Session, Harbor II**

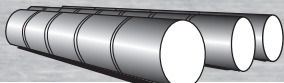
This session will feature a discussion of key programmatic issues between States and Territorial Program Managers and EPA OUST Managers. Please note that this meeting is for State, Territorial, and EPA Program Managers only.

Moderated by **Russ Brauksieck**, TITLE, New York State DEC and **Carolyn Hoskinson**, EPA OUST

### **Biofuels Remediation, Harbor III**

The emergence of biofuels in the energy supply brings some new challenges and precautions to bear. Progress both in the field and lab on biofuel biodegradation shows how apt these leaks may be to develop methane concerns. This session will explore the unexpected behavior of ethanol over time at three Midwestern rail spills. Data arriving from bench studies on decay for several biofuels are analyzed, and we'll look at ways to use ground water monitoring wells to sample soil gases. This session has much to offer on the cautions inherent with these new fuels.

**Cherri Adair**, Environmental Scientist, U.S. EPA; **Ken Jewell**, Environmental Scientist, U.S. EPA; **Roy Spaulding**, Professor, University of Nebraska-Lincoln; Moderated by **Daniel Manweiler**, Groundwater Manager, Virginia DEQ





1:30 pm - 3:00 pm

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### State Fund Administrators Open Forum, Burroughs

This session is designed to allow for discussion amongst State Fund Administrators concerning key issues affecting state funds. State Fund Administrators registered for the conference will be contacted prior to the conference to solicit topics of discussion. Chuck Schwer and Chuck Williams will moderate the session. They will review the topics prior to the conference, will organize the topics and be prepared to facilitate discussion. The session will be kicked off by getting a summary of the annual state fund survey from Lynda Provencher of Vermont.

**Lynda Provencher**, Vermont DEC; Moderated by **Chuck Schwer, Section Chief, Vermont DEC and Chuck Williams, Environmental Administrator, Florida DEP**

### Vapor Intrusion, Harbor I

This session will provide information on vapor intrusion of petroleum hydrocarbons. The session will start with a summary of the current status of EPA's petroleum vapor intrusion guidance. Next an overview of the lessons learned from approximately 90 soil gas sampling case studies in Tennessee will be provided; the overview will then be complemented by a detailed vapor intrusion case study on a residential property in Virginia. The final presentation will evaluate several vapor intrusion sampling methodologies. Active and passive sampling approaches will be compared. Since active (pumped) sampling can pull up vapors from more contaminated deeper soils, the potential for overestimation of benzene concentrations will be discussed.

**William Chapman**, Senior Geologist, Virginia DEQ; **Cynthia Paul**, Environmental Scientist, U.S. EPA; **Matthew Young**, Environmental Protection Specialist, U.S. EPA, OUST; **Robert Truesdale**, Senior Scientist, RTI International; Moderated by **Gary Lynn, New Hampshire DES**

### Operator Training - What Are States Doing: An Overview and Specifics on Two Select States, Harbor II

This session will provide a general overview of some choices that states have made to implement their operator training requirements. Using Colorado and Vermont as examples, this session will provide specific information on choices these states made that are working and those that did not quite meet the mark.

**Greg Johnson**, Manager of Petroleum Inspection Program, Colorado Division of Oil and Public Safety; **Ted Unkles**, Program Coordinator, Vermont Department of Environmental Conservation; Moderated by **Tim Smith, TITLE, U.S. EPA OUST**

### Spill Prevention? Or Fantasy? Harbor III

Despite advances in UST equipment design and materials, many releases continue to occur due to spills and overfills during delivery. Spills during delivery usually result from human error and can be avoided if everyone involved in the fuel delivery understands equipment limitations and follows industry standard practices for tank filling. Periodic visual inspection of spill prevention equipment including spill buckets, overfill prevention devices, sumps and secondary containment, can go a long way towards spill prevention. This session will begin with a presentation on spill buckets, one of the weakest components of UST systems and a primary source for releases. The next presentation will focus on overfill prevention devices and their functionality, followed by a presentation on spill prevention problem areas often identified during compliance inspections.

**Dan Crawford**, Environmental Supervisor, Murphy Oil USA; **Kenneth Earnest**, Chief Operating Officer, Kadence Consultants, Inc.; **Kevin Henderson**, UST Manager, Mississippi DEQ; **Robert Schlegel**, Petroleum Inspector, Colorado Department of Labor and Employment; Moderated by **Mahesh Albuquerque, Director, Colorado Division of Oil and Public Safety**

3:30 pm - 5:00 pm

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### Private Insurance and Financial Responsibility, Burroughs

This session focuses on the use of private insurance as a mechanism to meet the UST financial responsibility requirements. Speakers on this panel will provide an overview of common notable issues related to insurance policies that regulators should be aware of, and the results of a recent survey of tank owners that use private insurance in Michigan. A brief update on the private insurance evaluation being conducted by OUST will also be provided.

**Keith Cannon**, Principal, Custom Environmental Insurance; **Sharon Goble**, Environmental Quality Specialist, Michigan Department of Natural Resources and Environment; Moderated by **Cho Yi Kwan, U.S. EPA OUST**

### LNAPL, Harbor I

Light Non-Aqueous Phase Liquids (LNAPLs) have been a driver of corrective action since the beginning of the national tanks program. Most States have regulations that describe corrective action to recover LNAPLs "to the maximum extent practicable". It's been almost 25 years since it all began. What is the State of Art in LNAPL recovery? What is the current thought on the behavior of LNAPL in the subsurface? Is it time for us to revisit our regulations and approaches to conducting LNAPL corrective action? All this and more will be revealed by three speakers discussing a study of LNAPL plume stability, describing the latest in LNAPL conceptual site model application for remediation selection, design and determining remediation endpoints, and describing an innovative technology for addressing LNAPL remediation.

**Don Lundy**, Principal Hydrogeologist, ES&T Division of Groundwater & Environmental Services; **James Begley**, Environmental Engineer, MT Environmental Restoration; **Mary Ann Parcher**, Principal Scientist, Groundwater & Environmental Services, Inc.; Moderated by **Steve Reuter, Geologist Manager, New Mexico Environment Department**

### Tribal/EPA Meeting, Harbor II

Moderated by **Bill Lienesch, TITLE, U.S. EPA OUST**; **Robert Largent, Environmental Specialist II, Inter-Tribal Environmental Council Cherokee Nation**

### L.S.I. - Leak Scene Investigations, Harbor III

The phone rings. There's fuel seeping through cracks in the pavement at a truck stop. What do you do? You order the owner to shut down his tank system and hire an environmental response team. You require line and tank tightness tests before you let the owner operate again. But when the emergency is over, do you really know exactly what leaked and why? And do you have information that will help prevent similar leaks elsewhere?

UST regulators, inspectors, and fund managers will benefit from this lively session. You'll get real-life, practical advice on how to better identify the "sources and causes" of leaks; how to improve your Leak Scene Investigations; how to work with owners, contractors, equipment manufacturers and testing labs to identify what leaked and why; and how to use those insights to improve your regulatory program.

**Peter Rollo**, Engineer IV, Delaware DNREC; **Tom Schruben**, Environmental Risk Management Consultant; Moderated by **Carol Eighmey, TITLE, Missouri PSTIF**

8:00 am - 9:30 am

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### Cost Control Roundtable, Burroughs

This session will examine several tools and/or processes used by state cleanup funds to control eligible petroleum cleanup expenditures. In a roundtable format, several different panel members will give short 10 minute presentations about how their state successfully uses a particular cost control tool or process. Facilitators will then moderate a discussion among session attendees about what cost control approaches have proven successful in their state fund program or which have not worked out as anticipated and the underlying reasons why.

**Dorothy Malaier**, Chief, UST Corrective Action Section, Alabama Department of Environmental Management; **David Chambers**, Section Supervisor, Petroleum Remediation Section Nebraska DEQ; **Kevin Beery**, Environmental Scientist/Geologist, Utah DEQ; Moderated by **Chuck Williams, Environmental Administrator, Florida DEP**

### Remedial Technologies, Harbor I

This session will start with a side-by-side evaluation of various in-situ chemical oxidization (ISCO) materials currently used to remove BTEX and GRO compounds from soil and groundwater. Speakers will evaluate costs of various ISCO approaches for use in a range of contaminant concentrations, and compare these costs to other available remedial technologies. Case incidents of specific sites will be presented where ISCO was implemented as the primary remediation alternative. The second presentation provides an overview of a project in Kansas where a BTEX/EDB plume was successfully remediated using soil vapor extraction and air sparging. This talk will discuss the assessment and remediation phases of the project, including remediation system design criteria, and system costs and performance. The final presentation describes the results of MTBE and TBA degradation under field conditions at several sites in Maryland following implementation of Delta's Sulfate Enhanced Biodegradation (SEB) process. The SEB process utilizes magnesium sulfate applications. Final SEB treatment results and associated implementation costs from field applications will be presented.

**Emily McGuire**, Professional Geologist, Kansas DHE; **Benjamin Hansen**, Project Manager and Geologist, Delta Consultants; **Jesse Taylor**, Geologist, Remington Technologies; **John Gould**, Environmental Protection Specialist, Colorado Division of Oil & Public Safety; Moderated by **Jeff Kuhn, Hydrogeologist, Montana DEQ, LUST Brownfields Section**

### My Worst Nightmare – Leak Case Studies, Harbor II

Why, sometimes, do leaks seem like nightmares; able to evade all efforts to keep them at bay? It may be that the devil lies in the details. John Wagner probes some technical points with CSLD, looks for clues from SCRs, and argues why operator training is paramount to find leaks hidden from ordinary inspections. Study a case with Bob May to learn why large product loss occurred at his site with the ELLDs in full compliance all the while. Owners and regulators willing to go a bit beyond the norm may avoid their worst nightmares by attending this beneficial session!

**Robert May**, Senior Engineer, Synergy Environment Inc.; **John Wagner**, Environmental Manger and Environmental Health Specialist, Southern Nevada Health District; Moderated by **Dan Manweiler, Groundwater Manager, Virginia DEQ**

### Biofuels & Leak Detection, Harbor III

With state and federal mandates encouraging the increased use of biofuels in our fuel supply, one of the key issues for many UST programs has been whether or not existing UST system equipment is capable of handling these new fuels. In particular, leak detection equipment is not tested with biofuels, which have different properties than petroleum, and may affect operability. In this session, panelists will discuss the effects of biofuels and biofuel blends may have on leak detection equipment, and describe the status of testing being done to ensure existing equipment can handle increased biofuel blends. A member of the National Work Group on Leak Detection Evaluations will also discuss a proposal to accept up to 20% biodiesel blends under the current protocols.

**Kent Reid**, Vice President of Strategic Development, Veeder-Root; **Joe Carvitti**, Civil/Environmental Engineer, Battelle Memorial Institute; **Curt Johnson**, Environmental Engineer, Alabama Department of Environmental Management; Moderated by **Andrea Barbery, EPA OUST**



10:00 am - 11:30 am

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### **Petroleum Brownfields: Collaborating on Corridors, Burroughs**

Several panel members representing local and federal programs will discuss aspects of their interests and resources in support of petroleum brownfield corridor revitalization efforts. These partners will have handouts that describe their services and examples of their assistance. Some of the items to be addressed include but are not limited to:

- Fostering community/stakeholder involvement;
- Developing and using partnership opportunities;
- Identifying a wide range of available resources;
- Describing how to leverage technical assistance; and
- Promoting anticipated outcomes and accomplishments.

The implementation challenges that a local official faces will be complemented with discussions by a variety of supporting EPA partners (e.g., Region 4, OBLR, OPEI, and OUST) to facilitate an open forum for attendees.

**Steve McNeely**, Petroleum Revitalization Liaison, U.S. EPA OUST; **Carol Tucker**, Brownfields Program Section Chief, U.S. EPA; **Robert Herrington**, Planning Manager, Sarasota/Manatee MPO; **Miles Ballogg**, Director, Brownfields & Economic Development, Cardno TBE Group; **Channing Bennett**, Environmental Scientist, U.S. EPA Region 4; Moderated by **Shri Parikh**, Environmental Engineer, EPA Region 1; and **Steve McNeely**, Petroleum Revitalization Liaison, U.S. EPA OUST

### **How Far Under: Digging a Way Out of the UST Cleanup Backlog, Harbor I**

The Underground Storage Tank program has cleaned up almost 400,000 sites in its relatively short history, yet the program is still evolving. As leak prevention methods stem the tide of incoming cleanup sites and pressures to achieve cleanups are increasing, state programs are compelled to find innovative ways to investigate their cleanup backlog and complete cleanups. To do this, a useful concept to employ is the progress a release makes through the various stages of cleanup. Over the last two years, OUST has been pursuing a study using detailed information from 14 States to understand the pace of UST cleanups, including what stage of cleanup they are in, and to explore strategies, in partnership with States, to continue and accelerate such cleanups. This session will look at the stages of cleanup from regulatory and industry perspectives and will include a discussion of why releases might get "stuck" along the way. OUST will present the results of their study and facilitate an open discussion on the collaborative effort of working with States and Regions to develop and implement backlog reduction strategies.

**Sue Burnell**, Environmental Protection Specialist, U.S. EPA OUST; **Mike Martinson**, Senior Consultant, Delta Consultants; Moderated by **Matt Young**, Environmental Protection Specialist, U.S. EPA OUST

### **Mid-Level Ethanol Blends, Harbor II**

With concerns about the impending "blend wall," EPA is considering the use of mid-level ethanol blends such as E15. Many legacy UST systems, however, may be comprised of some components which were only designed and tested to accommodate ethanol blends of up to 10%, and little compatibility data exists for these materials. How will E15 affect these existing tank systems? In this session, panelists will discuss the status of materials testing being performed with mid-level ethanol blends, as well as the new issues this fuel blend may raise for station owners and regulatory agencies.

**Mike Kass**, Senior Materials Engineer, Oak Ridge National Laboratory; **Mahesh Albuquerque**, Director, Colorado Division of Oil and Public Safety; **R. Tim Columbus**, General and Legislative Counsel, Steptoe & Johnson LLP; Moderated by **Andrea Barbery**, EPA OUST

### **Improving Inspections, Harbor III**

This session will focus on two different aspects of UST inspections. The first speaker will deal with the common and unusual issues an inspector will face when performing a compliance inspection. This will show typical problems found and different ways of handling the violations. Our second speaker will detail South Carolina's inspection process and show us what worked there that has allowed them to achieve a 12-14 month inspection frequency for all UST facilities in the state.

**Eric Cathcart**, Program Manager, South Carolina DHEC; **Kris Shiffer**, Environmental Group Manager, Pennsylvania DEP; Moderated by **Andrea Zajac**, MI DNRE

**11:45 pam - 1:15 pm**

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### **Luncheon, Galleria Level**

#### **“The Big Dig- Some Lessons Learned”**

**Ronald Killian**, Manager of Environmental Permits & Procedures, Massachusetts Department of Transportation; Moderated by **Dania Rodriguez**, Deputy Executive Director, Association of State and Territorial Solid Waste Management Officials

**1:30 pm - 5:00 pm**

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### **Bulk Fuel & Marine Terminal Tour, Meet at Registration Desk**

**2:00 pm - 3:30 pm**

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### **Community Engagement at Tank Sites, Burroughs**

Community engagement at underground storage tank sites varies and is dependent on many factors including site location, severity of the release, impact to drinking water supplies, and impact to the local community or the environment. State, tribal, and EPA regional panel members will give short 10-15 minute presentations on real-life examples of how and when to involve the public in tank cleanup activities - sharing lessons learned and best practices. There will also be an interactive question and information sharing segment as we explore approaches for enhancing community engagement at tank sites. EPA's Office of Solid Waste and Emergency Response recently launched a Community Engagement Initiative to strengthen program efforts by consistently and effectively engaging local communities and their stakeholders in decision making processes.

**John Menatti**, Manager, Utah DEQ; **Janice Pearson**, Team Leader, U.S. EPA Region 8; **Randy Bettelyoun**, UST Program Manager, Oglala Sioux; **Bill Truman**, Regional Program Manager, U.S. EPA Region 4; Moderated by **Barbara Grimm-Crawford**, EPA OUST

### **Fate and Transport, Harbor I**

This session will be an eclectic examination of fate and transport application in the role of risk based decision making, predicting threats to sensitive receptors and understanding reticent contaminant plume dynamics. Three presentations will focus on the use of understanding the fate and transport of contaminants of concern in developing risk based site specific target levels, improvements in modeling the transport of contaminants from multiple LUST sites to water supply wells and a review of a study of the fate and transport of MtBE at a site with a plume that has persisted well after the source has been remediated.

**Ehsan Rasa**, PhD student, University of California, Davis; **Dawn Anderson**, Environmental Protection Specialist, Colorado Division of Oil and Public Safety; **Jim Weaver**, TITLE, U.S. EPA Office of Research and Development; Moderated by **Steve Reuter**, Geologist Manager, New Mexico Environment Department

### **Ultra Low Sulfur Diesel, Harbor II**

Some tank owners, service contractors and underground tank regulators have noticed corrosion and other issues in petroleum equipment that may be linked to the switchover to ultra low sulfur diesel (ULSD) fuel. Lorri Grainawi will provide background information on the subject, including results of an industry survey conducted earlier this year. Rick Chapman will then offer a possible explanation of the problem, discussing the formation and related problems with diesel soaps. Prentiss Searles will conclude the presentation by outlining with steps the Clean Diesel Fuel Alliance is taking with regard to the equipment-related issues surrounding ULSD.

**Rick Chapman**, Sr. Product Quality Advisor, BP; **Brian Knapp**, Policy Advisor, American Petroleum Institute; **Lorri Grainawi**, Director of Technical Service, Steel Tank Institute and Steel Plate Fabricators Association; Moderated by **Bob Renkes**, Executive Vice President and General Counsel, Petroleum Equipment Institute

### **The Most Important and Overlooked Leak Prevention Opportunity? A Good Install!, Harbor III**

This session will include updates on recent equipment advances, new recommended practices and advice from seasoned professionals on the issues to be cognizant of when overseeing a new installation.

**Erik Hick**, President and CEO, CGRS, Inc.; **James White**, HSSE Regulatory Affairs Manager, BP; **Ronald Laurence**, Mechanical Engineer, Stantec; Moderated by **Robert Largent**, Environmental Specialist II, Inter-Tribal Environmental Council Cherokee Nation

4:00 pm - 5:00 pm

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### **Do We Have Enough Money? – An Actuarial Perspective, Burroughs**

Regardless of how you approach the money question, the answer typically involves using some sort of algorithm to calculate an average site cleanup cost and applying it to all open sites. Calculating the average site cost is critically dependent on the assumptions made, and can vary widely. Understanding the limitations behind the average site cleanup cost number is critical to understanding what your Fund liabilities truly are. In this session, we will explore many of the key assumptions and conditions that can dramatically affect the calculation of the “average” site cleanup cost. We will then examine this topic from an actuarial perspective and learn how your view of your Fund's liabilities may clash with an actuary's view.

**John Wade**, Senior Consultant, Pinnacle Actuarial Resources; **John Sherrill**, Illinois' LUST Program Remediation Coordinator, Illinois EPA; Moderated by **Gordon Bullard**, Executive Director UST, Massachusetts Department of Revenue

### **Long-Term Stewardship at LUST Sites, Harbor I**

With the advent of risk-based corrective action (RBCA) programs to address petroleum contamination, regulators are struggling with long-term stewardship of use limitations at these sites to ensure protection of human health and the environment. In this session two state programs, Utah DEQ and Pennsylvania DEP will present how long-term stewardship is being handled for RBCA sites.

**Paul Zahn**, LUST Section Manager, Utah DEQ; **Kurt Klappkowski**, Assistant Counsel, Pennsylvania DEP; Moderated by **Jennifer Steffes**, Environmental Protection Specialist, Colorado Division of Oil & Public Safety

### **Energy Policy Act: Case Studies, Harbor II**

The Energy Policy Act has required states, tribes and territories to re-vamp tanks programs by providing additional enforcement tools, adding new mandates and program features, and scheduling inspection frequency. This session will address how to comprehensively approach the Act's requirements, to better coordinate and streamline tanks programs. Several states (New Mexico and New Hampshire) will discuss how they initially planned to meet the goals of the Act, and lessons they have learned during implementation of the Act. The session includes presentations from both manager and inspector viewpoints. Documents and strategies developed for the Act will be described and provided. Audience participation will be encouraged!

**Jennifer Pruett**, Manager, New Mexico Environment Department; **Tom Gray**, Environmental Specialist, New Mexico Petroleum Storage Tank Bureau; **Tom Beaulieu**, Chief of UST Compliance Subsection, New Hampshire Department of Environmental Services; Moderated by **Jennifer Pruett**, Manager, New Mexico Environment Department

### **The Latest and Greatest in Leak Prevention, Harbor III**

Mechanical Line Leak Detectors: this difficult concept will be presented in a way that everyone can understand. Everything you need to know about how they are supposed to work and how they should be tested to ensure they are operating correctly.

Leak Prevention in Underground Piping Systems: new interstitial monitoring methods that will prevent low volume leaks from going undetected are presented. Presentation will focus on the function of the systems and the low cost, simplicity and availability of the components needed to assemble them.

**Kevin Henderson**, UST Manager, Mississippi DEQ; **Joie Folkers**, VP of Sales and Marketing, Ameron International; Moderated by **Tracie Donaldson**, EPA Region 6



8:00 am - 9:30 am

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### Operator Training Workshop, Burroughs

Operators Court 2013: How well the states implemented the operator training program. An interactive workshop.

It's fall 2013, and over 2,000,000 UST operators were supposed to have been trained. Join us for a futuristic "people's court" to judge how well states implemented the UST operator training program that should have been in place by August 8, 2012. On trial is Operator Training, accused by Environment of not doing enough to protect soil, groundwater and air. "Judge" Ellen Frye will make sure the trial proceeds in an orderly manner. Several "witness" states will offer strategies, facts and figures concerning their UST operator training programs. "Attorneys" Marcel Moreau and Ben Thomas will examine these witnesses to test their mettle. The Judge will instruct the audience (aka the Jury) to render a verdict: is operator training effective or ineffective in protecting our natural resources? The "trial" will no doubt provide spirited discussion and insight about what states are planning to do in anticipation of the 2012 operator training deadline and what some of the advantages and pitfalls of these strategies might be.

**Ben Thomas**, Petroleum Training Solutions; **Marcel Moreau**, Petroleum Training Solutions; **Marshall Mott-Smith**, President, Mott-Smith Consulting Group; **Jennifer Pruett, Manager**, New Mexico Environment Department; **Mahesh Albuquerque**, Director, Colorado Division of Oil and Public Safety; **Ellen Frye**, Enosis/LUSTLine; Moderated by **Ben Thomas**

### Site Assessment, Harbor I

Accurate and complete site assessment is critical to remediation. New methods are being developed to reduce costs and provide detailed information to speed closure. This session will explore:

- Remote sensing using continuous imaging processing of electrical resistivity data to optimally place LNAPL recovery wells;
- Impacts of changes in gasoline composition, including lead scavengers, ethanol, and the pending nationwide reduction in benzene content.; and,
- Computer modeling to correlate groundwater elevations to nearby stream flow measurements to predict the maximum depth of adsorbed hydrocarbons. Wells can then be installed deep enough to lower the water table and expose all impacted soil to SVE.

**Tom Fox**, Colorado Oil & Public Safety; **Stuart McDonald**, Founder, Aestus, LLC; **Jim Weaver**, U.S. EPA Office of Research and Development; **William Benni**, Founder, Improved Analysis through Modeling; Moderated by **Tom Fox, Colorado Oil & Public Safety**

### State/EPA Meeting, Harbor II

Moderated by **Russ Brauksieck, TITLE, New York State DEC**; **Mark Barolo, TITLE, EPA OUST**; and **Adam Klinger, TITLE, EPA OUST**

### Enforcement – Good, Bad, or Ugly, Harbor III

In this session, three topics will be covered concerning the enforcement and compliance of underground storage tank facilities from three different agencies that consist of the Tennessee Department of Environment and Conservation, U.S. EPA Region 2, and the Navajo Nation Environmental Protection Agency. Ms. Karen Stachowski, Attorney of the Tennessee Department of Environment and Conservation will discuss the expedited enforcement program along with the attorney of the Tennessee Office of Attorney General, Mr. George Bell. The two will focus on how they work cooperatively to address the enforcement initiative which focuses on bringing recalcitrant owners and/or operators into operational compliance and addressing concerns about protecting the state fund. Mr. Dennis McChesney of U.S. EPA Region 2 will discuss the how effective the Significant Operational Compliance (SOC) data measures the compliance status at UST facilities from the state's biannual reports. Mr McChesney will also discuss the increased the inspection cycle at UST facilities due to the requirements under the Energy Policy Act. Mr. Warren Roan of the Navajo EPA will discuss the increase in compliance rates on the Navajo Nation Indian Reservation at UST Facilities by conducting compliance inspections and issuing federal field citations to non-compliant facilities in addition to citing tribal law. The three agencies give a unique perspective on how to bring UST facilities into compliance under their jurisdiction and laws to protect human health and the environment.

**Karen Stachowski**, Assistant Commissioner, Tennessee DEC; **George Bell**, Senior Counsel, Tennessee Attorney General; **Dennis McChesney**, UST Team Leader, U.S. EPA Region 2; Moderated by **Warren Roan, Navajo Nation EPA**

9:30 am - 10:30 am

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**Expo Raffle, Galleria Level**

10:30 am - 12:00 pm

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### Community Engagement: How to Make Public Participation Work for You, Burroughs

This workshop will provide an overview of how to use public participation to improve site planning and key decision-making. It will examine effective public participation principles and key communication skills that are necessary to make them work. This workshop is tailored to the tanks program and focuses on activities that are appropriately scaled to tank sites. Workshop attendees will gain an understanding of the essentials of effective communication with the public, as well as some practical tips that can be put to immediate use. Engaging communities and their stakeholders in decision making processes is a priority for EPA's Administrator and Assistant Administrator for Solid Waste and Emergency Response.

**Doug Sarno**, Civil Engineer, Forum Facilitation Group; Moderated by **Barbara Grimm-Crawford**, TITLE, EPA OUST

### Green Remediation, Harbor I

At the last Tanks Conference we presented policy and management approaches to Green Remediation. This year's session will focus on remedial technologies and tools that can "green" your remedial programs, cut your environmental impact and CO<sub>2</sub> emissions, and hopefully save your program money. Three speakers will present hands-on tools or remedial technologies that can help your program and show actual technologies that cleanup sites while having a lesser overall environmental impact.

**Nick Athens**, Co-Founder/Owner, EcoVac Services; **Christopher Nelson**, Project Manager, Avanti; **Peter Murray**, Regional Sales Manager, Geotech Environmental Equipment, Inc.; Moderated by **Stephen Dymont**, Chemist, EPA OSRTI

### Legal Issues, Harbor II

This session will open with a case study regarding cleanups on tribal lands and will discuss several issues, including:

- The overlap of Federal, State and Tribal law regarding USTs;
- Whether the Tribe is a PRP as owner of the land;
- The interplay between the EPA Administrative order, the RCRA citizen Suit, and the Tribal court suit at the site; and
- Issues regarding indemnification, contribution and Payment for past and future costs.

The session will close with broad overview of recent Legal decisions regarding USTs and petroleum storage, including a recap of recent MTBE decisions

**William Alpine**, Corporate Counsel and Director of Cost Recover, Environmental Compliance Services, Inc.; **Jill Grant**, Partner, Nordhaus Law Firm, LLP; **Diane Malone**, Director – Navajo EPA Waste Compliance Department; Moderated by **Kevin Horigan**, Massachusetts DOR

### Good Tank Management, Harbor III

Regulators know what UST owners and operators are supposed to do? But do they really do it? What is it like to be on the receiving end of letters and inspection reports from multiple regulators in multiple states? Can you really train convenience store employees to manage tank systems? Come hear real-life stories from three speakers who have lots of experience with USTs! This session will provide insights into how to make your work more effective and productive, and how to boost the compliance rate among your UST owners/operators without more money or personnel.

**Brian Wiegert**, VP of Underwriting and Loss Control, Rounds & Associates; **Jennifer Celeste**, Manager of Products and Regulatory Support, Sunoco; **Scott Boorse**, Energy and Petroleum Operations Manager, Wawa, Inc.; Moderated by **Carol Eighmey**, Executive Director, Missouri PSTIF and **Shri Parikh**, Environmental Engineer, EPA Region 1

# Speaker Bios

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## **Cherri Adair, U.S. EPA**

Cherri Adair is an Environmental Scientist in the U.S. EPA Office of Research and Development, National Risk Management Laboratory, Ground Water and Ecosystem Restoration Division (GWERD), Subsurface Remediation Branch in Ada, Oklahoma. Her primary area of interest is conducting laboratory experiments on natural attenuation of BTEX compounds, fuel additives, and chlorinated solvents. She also provides field sampling support for an in-situ bioremediation of chlorinated solvents project. She received a B.S. in Biology from East Central University, Ada, OK, in 1996 and has worked for the U.S. EPA since 1999.

## **Mahesh Albuquerque, Colorado DOPS**

Mahesh Albuquerque is the Director of the Colorado Division of Oil and Public Safety. His responsibilities include oversight of Colorado's Petroleum Storage Tank Programs - UST/AST Inspection, LUST Remediation, Reimbursement Fund, and Weights & Measures, as well as several Public Safety Programs including Explosives, Boilers and Pressure Vessels, Conveyances, and Amusement Rides and Devices. Joining the Division eleven years ago, he has served as the Program Manager for Division's Petroleum Inspection Section, overseeing the permitting, installation, registration, inspection, compliance and closure of UST's and AST's within Colorado. He was also responsible for ensuring state wide compliance with weights and measures laws and regulations related to petroleum products, alternative and renewable fuels and oversight of the states product quality laboratory. He has participated on EPA's Significant Operational Compliance and Secondary Containment workgroups to assist with the development of EPA guidance documents. In addition to other rulemaking, he has been responsible for revising Colorado's Petroleum Storage Tank Regulations to address the UST provisions of the Federal Energy Policy Act of 2005. Prior to joining the Division, he spent eight years in the private sector as an environmental consultant. He received his B.S. and M.S. degrees in Geology from the University of Bombay, and is a registered professional geologist.

## **William Alpine, Environmental Compliance Services, Inc.**

William Alpine is Corporate Counsel and Director of Cost Recovery for Environmental Compliance Services, Inc. (ECS). ECS is an environmental consulting company specializing in providing a broad range of environmental services to its petroleum, institutional, governmental and educational clients. ECS's expertise encompasses such areas as remediation, due diligence, energy conservation and claim reimbursement services. His responsibilities include providing corporate legal guidance to the company's 200+ employees as well as overseeing the company's state reimbursement claims management program. Prior to coming to ECS, he worked for the Commonwealth of Massachusetts for

seventeen years, the last twelve of which he served as Executive Director of the Massachusetts Underground Storage Tank Cleanup Fund. He served as co-chair of the State Fund Administrators Task Force.

## **Dawn Anderson, Colorado Division of Oil and Public Safety**

Dawn Anderson is currently an Environmental Protection Specialist with the Colorado Division of Oil and Public Safety (OPS). After moving to Colorado in 1998, she spent five years working for two environmental consulting companies. In 2004, she joined OPS where she continues to review reports relating to assessment and corrective actions for petroleum spills from regulated tanks. She was the team lead for the OPS modeling group for determining the validity of fate and transport models submitted for contaminants in soil and groundwater. She received her BS in geology from Central Michigan University in 1994 and attended Southern Illinois University for graduate work in geology with an emphasis in hydrogeology.

## **Nick Athens, EcoVac Services**

Nick Athens is co-founder/owner of EcoVac Services, with over 28 years experience in the fields of remediation, environmental consulting, and oil & gas exploration and production. He has degrees in biology, chemistry, petroleum technology, as well as graduate coursework in hydrogeology. EcoVac Services is a 15 year old firm that is the world leader in mobile dual-phase/multiphase extraction (EFR(R)), having implemented this process at over 1,700 sites throughout the United States (40 states) and Puerto Rico. He is also the author of a patent that combines dual-phase/multi-phase extraction with surfactants (for NAPL removal) and cosolvents (for viscous NAPL removal).

## **Miles Ballogg, Cardno TBE Group**

Miles is the Brownfields and Economic Development Director for TBE Group in Clearwater Florida. Miles assists both public and private sector clients to facilitate the redevelopment of environmentally impaired and challenged properties. He has been involved with the development, management, and implementation of both Federal and State Brownfields programs for the last twelve years. He previously served as the City of Clearwater's Economic Development Programs Manager and Brownfields Coordinator and was responsible for the management of the EPA award winning Brownfields Program. He has assisted in obtaining and managing EPA Brownfields Assessment, Cleanup, Cleanup Revolving Loan Fund and EPA Job Training Grants for public sector clients. He served as a past founding Board Member for the Florida Brownfields Association and currently serves on the Board of the Willa Carson Community Health Resource Center and is a member of the National Association for Local Government Environmental Professionals (NALGEP) National Brownfields

Advisory Committee.

## **Thomas Beaulieu, New Hampshire DES**

Tom Beaulieu is Chief of UST Compliance Subsection with the New Hampshire Department of Environmental Services. He is responsible for managing 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, rule making, and enforcement. He has 45 years of experience with the Department of which twenty have been with the UST program. During the past four years he has overseen the development and implementation of a Personal Digital Assistant (PDA) operational compliance inspection program. The PDA has helped in the implementation and streamlining of the Federal Energy Policy Act requirement for UST Facility Inspections. He has been instrumental in establishing an enforcement program that incorporates uses of Administrative Orders, Administrative Fines, Field citations, State Financed Tank Removal and Delivery Prohibition..

## **Kevin Beery, Utah DEQ**

Kevin Beery has worked as a Geologist and Scientist for the Utah DEQ for the past 12 Years. He was also employed by the State of Georgia for 3 years prior to his appointment with Utah. He spent the previous 6 years as an Environmental Consultant for the Amoco and Texaco Oil Companies and also has a background in seismology and blast monitoring. He has published several papers in various scientific journals and is currently an ASTSWMO Task Force member representing EPA Region 8. He graduated with a BS in Geology from West Georgia in 1994 and also attended the University of Georgia.

## **James Begley, Montana Environmental Restoration**

Jim Begley has 25 years of professional experience in the field of environmental science and engineering focused on hazardous waste site assessment and remediation in the United States and internationally. He is also a Licensed Site Professional (LSP) in Massachusetts. His experience has included the management of complex environmental remediation projects for government and industry, remedial technology development and demonstration, risk assessment, and the evaluation of remedial options. He has also worked as an environmental regulator for the Commonwealth of Massachusetts in areas such as waste site cleanup project management, negotiation, technical support for legal/enforcement cases, and public involvement activities. As the Remediation Technology Specialist, he provides technical support to inVentures Technologies' customers worldwide and assists inVentures with the development of new innovative technologies.



### **George Bell, Tennessee Attorney General**

George S. Bell, III is a Senior Counsel within the Law Enforcement and Special Prosecutions Division of the Tennessee Attorney General's Office. His practice areas include the enforcement of state and federal false claims acts and antitrust laws. He recently settled claims brought on behalf of the State against underground storage tank owners and operators under Tennessee's False Claims Act. He received his Juris Doctorate from the University of Alabama in 1997. He also holds Bachelor of Science ('89) and a Masters ('90) degrees in Business Administration from Florida Agricultural and Mechanical University, and is licensed to practice law in the States of Alabama and Tennessee.

### **Channing Bennett, U.S. EPA Region 4**

Channing Bennett is an Environmental Scientist with EPA's RCRA Underground Storage Tanks (RUST) Section in Region 4. He has worked in the RCRA permit and corrective action section as a specialist for 16 years. He presently serves as the Revitalization Coordinator for Petroleum Sites. He is responsible for coordination of efforts to assist federal, state and local governments and various community stakeholders to collaborate with the appropriate experts to identify resources available to assess, cleanup and revitalize petroleum contaminated properties. He was also a member of the National RCRA Revitalization Workgroup headed by EPA Headquarters Office of Solid Waste. He holds a Master's degree in Biology from Tennessee Technological University, Cookeville, TN and Bachelors' degree in Biology from Southern University, New Orleans, LA.

### **William Benni, IATM**

William Benni is the founder of Improved Analysis through Modeling, located in Christiansburg Virginia. He has developed the Benni Source Modeling Approach over the past 17 years and applied it to numerous LNAPL and DNAPL sources at both small retail gas stations and large Superfund sites. The Approach has been verified with over \$1,000,000 in field investigations. Recently, his expert testimony played a pivotal role in a successful litigation for plaintiffs injured from exposure to gas vapors at a former service station. He was graduated with highest honors from Rutgers University with a degree in chemical engineering and has completed his third year in the PhD. program at Virginia Tech.

### **Randy Bettelyoun, Oglala Sioux Tribe**

Randy Bettelyoun has over 15 years experience as an Underground Storage Tank (UST) Technician, as well as experience in UST compliance and Leaking Underground Storage Tank (LUST) Remediation. He works as the UST Program Manager for the Oglala Sioux Tribe and has an A.A. in Business and General Studies from the Oglala Lakota College. He received his certification in UST Removal Operations and Inspections through the Inter Tribal Council of Arizona. Since 1997, he oversaw

the removal and cleanup of UST sites within Oglala reservation and has acquired not only classroom but also practical experience in the UST field. He also served in the Marine Corps from 1983 thru 1987.

### **Chuck Blanchard, Groundwater and Environmental Services, Inc**

Charles "Chuck" Blanchard, P.E. is the regional engineering manager for GES's western region. He has over 19 years of experience designing remediation systems for contaminated water and soil. He is responsible for remediation system selection and design and ensuring that the work is performed in accordance with the highest engineering standards. He has performed pilot testing, design and construction oversight, process design team coordination, electrical and controls design, and system operation, optimization, and troubleshooting. He earned a Bachelor of Science in chemical and biomedical engineering from Carnegie Mellon University. He is a professional engineer registered in Arizona, California, Pennsylvania, Oklahoma, and Texas.

### **Scott Boorse, Wawa, Inc.**

Scott C. Boorse is the Energy and Petroleum Operations Manager at Wawa, Inc. Wawa, Inc. is a convenience store chain with more than 575 locations (280 with gas stations) in the mid-Atlantic region and sells more than 1.5B gallons of fuel annually. He was instrumental in the development and implementation of the Wawa Gasoline program and has over 20 years experience in the petroleum storage tank industry. Prior to joining Wawa, he worked as an environmental consultant in the Philadelphia metropolitan area and worked both domestically and internationally on EPA and US Military services agreement testing and deploying state-of-the-art subsurface investigation techniques using ultra-violet lasers. He currently serves:

- On PEI's RP 300 Vapor Recovery, RP 900 Inspection & Maintenance of Underground UST Systems and the newly formed RP 1200 Overfill Prevention Recommended Practices Committees;
- On API 1626, Storing and Handling Ethanol and Gasoline-Ethanol; and,
- On PEI's Education and Convention Committee.

### **Stephen Brezinski, Maine DEP**

Since 1988 Stephen Brezinski has been an oil and hazardous materials spill responder along with coordinating the underground tanks management for the Maine Department of Environmental Protection's Portland office. He received a BS in Geology from Virginia Polytechnic Institute in 1982 followed by four years with the US National Oceanic & Atmospheric Administration (NOAA), Coast and Geodetic Survey, performing hydrographic charting and marine geology.

### **Sue Burnell, U.S. EPA OUST**

Sue is an Environmental Protection Specialist with EPA's Office of Underground Storage Tanks (OUST) and is co-team leader for the National LUST Cleanup Backlog study. She has 15 years work experience at EPA. Sue joined OUST in 2009 after a 7 year sabbatical from EPA to raise her two boys. Her prior work experience at EPA includes co-team leader for the Inorganics hazardous waste listing determination, national coordinator for the RCRAInfo re-design (WIN/Informed Initiative), program support and rule development for the RCRA Corrective Action program..

### **Laurie Burt, Massachusetts DEP**

Governor Deval L. Patrick appointed Laurie Burt as Commissioner of the Massachusetts Department of Environmental Protection (MassDEP) in 2007. She has championed environmental, energy and public health issues, such as the Regional Greenhouse Gas Initiative (RGGI), innovative state climate action programs, a statewide integrated water management plan, the streamlining of environmental permits and wetlands appeals, the protection of drinking water resources through conservation and sustainable water management practices, the statewide goal of "zero waste" to maximize the recycling and reuse of solid wastes, and Brownfields redevelopment efforts. She serves on the RGGI Executive Committee and is Governor Patrick's environmental representative on the board of RGGI, Inc. She is also Governor Patrick's representative in leading the Low Carbon Fuel Standard (LCFS) initiative by eleven Northeast and Mid-Atlantic states. She is the Chair of the Ozone Transport Commission, a member of the Air Committee for the Environmental Council of States (ECOS), and a key member of the State Voice group, a coalition of state environmental commissioners working to support the development of federal legislation that capitalizes on the experience, success and full potential of state climate and clean energy programs. She is also chair of the Environment Committee of the New England Governors Conference (NEGEC) and is a member of the board of directors of the Environmental Law Institute. She was formerly a partner at the law firm Foley Hoag, LLP of Boston and Washington, D.C., where she started the firm's Environmental Practice Group. She previously served as a Massachusetts Assistant Attorney General in environmental enforcement, and more recently as Vice President of the Boston Bar Association.

### **Keith Cannon, Custom Environmental Insurance**

Keith Cannon is a founding partner of Custom Environmental Insurance (CEI). CEI is a leading storage tank wholesale brokerage company that provides storage tank pollution insurance and has underwriting authority for two of the largest insurance companies. He has over 30 years in the insurance industry, with 20 years devoted to

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environmental impairment liability insurance. He developed one of the original storage tank pollution insurance products/program still being used today, and has also developed and managed environmental agency divisions for various regional and national insurance brokerage firms. He earned the Associate in Risk Management (ARM) designation in 1990 and has a B.S. in safety engineering (with a minor in chemistry) from Indiana State University.

### **Joe Carvitti, Battelle Memorial Institute**

Mr. Joe Carvitti is a civil/environmental engineer at Battelle Memorial Institute in Columbus, OH and has worked with environmental issues for over 30 years. Having held previous positions in industry and as an environmental consultant, his work experience has involved him in various environmental aspects related to production, use, and storage of conventional, synthetic, and biofuels, as well as design, construction, operation, and testing of equipment and monitoring systems for energy production and applications. Currently he is performing research for the U.S. EPA on determining the operability of underground storage tank leak detection equipment when used with biofuels. This work is being performed for EPA's Office of Underground Storage Tanks through the Environmental Technology Verification Program.

### **Eric Cathcart, South Carolina Department of Health and Environmental Control**

Eric Cathcart is a Program Manager with the UST Management Division of the South Carolina Department of Health and Environmental Control. He has served the needs of the regulated communities of South Carolina for over sixteen years. Prior to his service with South Carolina, he spent time in the private industry. He received his Bachelor's degree in Geology from the College of Charleston in Charleston, South Carolina. His staff is responsible for permitting and abandonment of tanks, release investigations, financial responsibility, delivery prohibition, payment of annual fees, compliance inspections, and significant operational compliance determinations.

### **Jennifer Celeste, Sunoco**

Jennifer Celeste, Manager of Products and Regulatory Support for Sunoco, is responsible for product quality and regulatory compliance for Sunoco's approximately 870 owned and operated service stations. She has worked for Sunoco for the past 9 years in various roles including remediation, corporate regulatory consultant and environmental compliance. Prior to Sunoco she worked in the environmental field doing field work, sampling, installing wells, writing reports, and managing projects. She has a BS in Geology from University of Delaware and an MS in Geology from the University of North Carolina at Wilmington.

### **David Chambers, Nebraska DEQ**

David Chambers has been a Section Supervisor within the Nebraska Department of Environmental Quality overseeing petroleum cleanups since 1988. He also administers the state reimbursement fund, RBCA, and pay-for-performance programs. His past responsibilities have also included ground water standards, special ground water protection areas, wellhead protection, and emergency response. He currently serves on ASTSWMO's State Fund Task Force. His education includes a bachelor's degree in biology (geology minor) and a master's degree in biology.

### **Richard L. Chapman, BP**

Rick Chapman is a Sr. Product Quality Advisor, working in BP's Global Fuels Technology group. He has worked for BP for just under 30 years, with the last 18 being involved in BP's Product Quality team, helping to assure the quality of downstream fuel products. Prior to his current position, he worked at BP's Marcus Hook (Philadelphia) refinery as Operations Supervisor and also in BP Research as a chemist. His main area of expertise is in fuel filtration, cleanliness and contamination issues. He is BP's primary investigator for resolving fuel related field problems. Additional duties include teaching others about diesel and gasoline fuel quality as well as being a mentor to younger BP employees. He is active in ASTM, holding the Stability & Cleanliness of Liquid Fuels Subcommittee 14 voting rights for BP and is also active in other industry organizations. Over the last several years he has published and presented papers at numerous industry events and has recently served on the API sponsored ULSD Corrosion Task Force. He has just completed a 3 month assignment serving in the Gulf of Mexico for the oil spill response team. Rick holds a BS in Chemistry from Rowan University.

### **William Chapman, Virginia DEQ**

Mr. Chapman began his career in the world of petroleum investigations and cleanups in 1990 at the South Carolina Department of Health and Environmental Control (SCDHEC). In 1993, he was hired by the Petroleum Remediation Program in the Northern Regional Office of the Virginia DEQ. His caseload ranges between home heating oil cases, commercial service stations, and large bulk storage terminals. Over the years, he has also made numerous presentations at Regional and National EPA conferences. He is a graduate of Clemson University.

### **R. Timothy Columbus, Steptoe & Johnson LLP**

Tim Columbus is the general and legislative counsel for the Society of Independent Gasoline Marketers of America (SIGMA) and the National Association of Convenience Stores (NACS). He also represents multiple clients in a broad range of industries in Washington, D.C., before federal agencies and Congress. He has served on the board of directors of both public and private companies. He has represented the convenience store and petroleum retailing business since

1974, first with Collier Shannon Scott (1974-2006) and more recently with Steptoe & Johnson. With more than 500 attorneys, Steptoe & Johnson provides national and international counsel and representation in a wide range of legal fields. He graduated cum laude with a bachelor's degree from Harvard University and a JD from the University of Virginia.

### **Dan Crawford, Murphy Oil USA**

Dan Crawford currently serves as the Environmental Supervisor for Murphy Oil USA. His current responsibilities include managing pre-acquisition site due diligence evaluations and directing site assessment/remediation efforts for all Murphy retail gas stations. In January 2007, he was appointed by the Governor of Arkansas to serve on the ADEQ RST Board. After five years as a petroleum geologist, he has worked in the environmental industry for 24 years as a regulator, consultant, business owner and private industry manager. During his career he has performed or managed soil and groundwater site assessments, remedial investigation, feasibility study and remediation systems projects involving the Superfund, RCRA programs as well as conducted fault delineation, groundwater quality and aquifer exploration studies. He has a BS in Geology and BA in Spanish from The Ohio State University, an MS in Physical Science/Geology from the University of Houston-Clear Lake, and an MBA from the University of Phoenix. He is a PG in Wyoming and Minnesota.

### **Gerald Cresap, GES, Inc.**

Gerald Cresap is the Regional Engineering Manager for GES and is a registered professional engineer. Over the past 19 years, he has developed and implemented innovative remedial technologies such as in-situ chemical oxidation and enhanced biological process. Currently, he is working to incorporate sustainable and green remediation practices with a focus on efficiency and risk reduction.

### **Robin Davis, Utah DEQ**

Robin Davis is a Licensed Professional Geologist and Project Manager with the Utah Department of Environmental Quality, Leaking Underground Storage Tank program. She has over 30 years of professional experience and specializes in fate and transport of petroleum hydrocarbons and data acquisition and analysis, most recently for the vapor-intrusion exposure pathway.

### **David Demko, GES, Inc.**

Mr. Demko is a registered professional geologist with 30 years experience in the field of the assessment and remediation of soil and groundwater involving a diverse array of organic and inorganic contaminants. His experience in both unconsolidated and bedrock environments, under both catastrophic and time release conditions, has produced an understanding of

*bio continued next page*

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the dynamics of both hydrocarbon and inorganic releases in the environment. This understanding coupled with interpretations of site-specific data allows for the development of site-specific conceptual models that describe the risks posed by the impacts and outline the architecture for remedial program design and implementation. Most recently, he is involved in the Marcellus Shale play, consulting to resolve water supply development and drilling waste disposal issues for industry.

### **George DeVaul, Shell Global Solutions**

George E. DeVaul, Ph.D. is a Senior Consultant at Shell Global Solutions, with experience in applied methods of measuring, estimating, and modeling chemical fate and transport in the environment. He has developed several methods for modeling and parameterizing soil vapor emissions, including vapor intrusion to indoor air, and has also developed and applied varied risk assessment methods in site remediation decisions.

### **Stephen Dymant, U.S. EPA OSRTI**

Stephen Dymant is a chemist with more than 17 years experience including 4 years in a commercial analytical laboratory and 8 years in environmental consulting. He joined EPA in 2005 with a focus towards enhancing acceptance and use of emerging analytical technologies, sampling strategies, and remediation approaches. His perspective draws upon years of practical laboratory and field experience to apply EPA's Triad approach at sites in Superfund, Brownfields, RCRA, UST and State programs. His efforts have resulted in the development of numerous EPA case studies, profiles, and training courses that outline successful strategies for the use and understanding of collaborative data sets, adaptive QC programs, and real time analytics. The resulting targeted high resolution information improves the conceptual site model and uses scale appropriate measurements to optimize remedy design effectiveness and facilitate the application of green and sustainable remediation approaches. He provides project-specific support for sites through the Brownfield and Superfund technical support centers ([http://www.brownfieldstsc.org/request\\_support.cfm](http://www.brownfieldstsc.org/request_support.cfm)) and teaches classes on sampling design, x-ray fluorescence, Triad and other technical subjects (see <http://www.trainx.org/>). He holds a B.S. in Environmental Science/ Toxicology from the University of Massachusetts at Amherst.

### **Kenneth Earnest, Kadence Consultants, Inc.**

Mr. Kenneth Earnest is currently the principal at Kadence Consultants, Inc, a nationwide environmental consulting firm. He has over 20 years of experience in both consulting and industry, ranging from compliance issues to design and installation of remediation systems to expert witness testimony. He is a graduate of San Diego State University with a Bachelors degree in geological sciences and is a professional geologist

and is licensed to do work in AR, CA, DE, FL, IL, IN, KS, MO, NC, OK, SC, TN, TX and VA.

### **Joie Folkers, Ameron International**

Joie Folkers has worked in the technical and marketing sectors of the composite pipe industry since 1975 and has been awarded ten U. S. patents for various fiberglass pipe and joint designs, along with patents for both pressurized and non-pressurized continuous monitoring systems. He has been a member of the UL 971 Standards Technical Panel since its inception and has also served on similar committees in the Oilfield, Marine, Offshore and Industrial sectors. He has a Bachelor of Science Degree in Mechanical Engineering from Northwestern University.

### **Tom Fox, CO Oil & Public Safety**

After receiving his MS in Geology from Michigan State University in 1982, Mr. Fox worked with a major oil and gas firm as a petroleum geologist. Subsequently, over the next 20 years he worked successively with three environmental consulting firms assessing and remediating petroleum storage tank releases in Colorado and many Midwest and Western states. He has held professional geologist certifications in four states. Upon joining the Colorado OPS three years ago, his skills were directed to reviewing corrective action plans for technical and economic feasibility

### **Ellen Frye, Enosis/LUSTLine**

Ellen launched the USEPA-funded LUSTLine publication in 1985 while an employee of the NEIWPCC and has continued to produce it as a consultant to NEIWPCC. She is a partner with Enosis?The Environmental Outreach Group, which provides environmental outreach services to state and federal environmental agencies and environmental organizations. Since 1976, she has written and produced multi-media and print materials on such subjects as underground storage tanks, watershed protection, water supply, air quality, risk assessment/risk management, waste oil, wastewater treatment, pollution prevention, sludge and septage management, and hazardous waste.

### **Sharon Goble, Michigan MDNRE**

Sharon Goble is an Environmental Quality Specialist in the Leaking Underground Storage Tank program, in the Remediation Division of the Michigan Department of Natural Resources and Environment (MDNRE). She is the division's EPA liaison for the Leaking Underground Storage Tank (LUST) program, manages EPA LUST grants and has worked on various policy issues, legislative initiatives and special assignments in the five years that she has been in the program. In addition, She has 17 years of MDNRE experience in the Pollution Prevention Small Business Loan program, water and hazardous waste enforcement programs, as well as with the Office of the Great Lakes. She has a Bachelor of Science Degree in Wildlife Biology, and

an MBA in Finance from Michigan State University.

### **John Gould, Colorado DOPS**

John Gould has been an Environmental Protection Specialist with the Remediation Section of the State of Colorado's Division of Oil and Public Safety (OPS) since 2001. While at OPS, he has co-authored several guidance documents addressing diverse topics that include vapor intrusion, MTBE, and monitored natural attenuation. Prior to joining OPS, he worked as an environmental consultant from 1993 until 2001. Before consulting, he spent seven years in the oil and gas business serving as a geophysicist and, eventually, a Vice President and managing partner with a geophysical services company. He earned a B.S. in Geophysics and an M.S. in Geology from the University of Colorado.

### **Lorri Grainawi, STI/SPFA**

Lorri Grainawi is the Director of Technical Services for the Steel Tank Institute and Steel Plate Fabricators Association. STI/SPFA members fabricate steel storage tanks for petroleum products, water and chemicals; steel pipes and pressure vessels.

### **Jill Grant, Nordhaus Law Firm, LLP**

Jill E. Grant is a partner with Nordhaus Law Firm, LLP. Her work focuses on the development and implementation of tribal environmental programs, and on administrative and appellate litigation. She has drafted tribal air quality, water quality, solid waste management, Superfund, safe drinking water, UIC, UST/AST, pesticides and hazardous materials legislation and related regulations and obtained "treatment as a state" and primacy for many tribal programs, including the first tribal public water systems supervision program and first delegated Clean Air Act Title V permit program. Ms. Grant also focuses on tribal sovereignty protection and tribal jurisdiction. She previously worked in the Office of General Counsel at EPA. Ms. Grant earned her J.D. from Harvard Law School and her B.A. from Yale College.

### **Tom Gray, New Mexico ED-PSTB**

Tom Gray is an Environmental Specialist with the New Mexico Petroleum Storage Tank Bureau. His responsibilities include participation on various New Mexico committees such as Energy Policy Act rule revision and the Alternate Methods Review Committee. He has served as a witness to the Governor's Environmental Improvement Board for regulatory revisions. He is a member of the National Association of State AST Programs. He also maintains a field presence by conducting fuel system inspections in Northwest New Mexico at both UST and AST installations, modifications, repairs, complaints, compliance inspections and closures. He has a Bachelor of Science Degree in Business Management from the University of Tulsa in Oklahoma.

### **Todd Halihan, Oklahoma State University, School of Geology**

Dr. Halihan is an Associate Professor for the School



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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) and other contaminants. 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 also in several other countries.

### **Benjamin Hansen, Delta Consultants**

Benjamin Hansen is a Project Manager and Delaware Licensed Professional Geologist with Delta Consultants in the Mid-Atlantic region. He has nine years of experience managing asset due diligence assessments, risk-based assessments, environmental liability quantification, UST compliance regulation, site characterization and remedial design throughout the East Coast and Midwest regions of the country. His current workload consists of managing several Mid-Atlantic based retail petroleum accounts as well as a large scale retail petroleum liability transfer portfolio.

### **Doug Hansen, Utah DEQ**

Doug Hansen is currently the UST Compliance Program Manager within the State of Utah Department of Environmental Quality. In his fifteen years with the State of Utah, he has spent thirteen years as an Environmental Engineer within the Leaking Underground Storage Tank program where he oversaw the investigation and cleanup of over 250 petroleum contaminated sites. He also spent a year on a special assignment within the Utah DEQ Energy and Sustainability Group working on development of the Western Climate Initiative and other energy related issues. He received his B.S. in Chemical and Fuels Engineering from the University of Utah, and is a licensed Professional Engineer.

### **Blayne Hartman, Hartman Environmental Geoscience**

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 DOD, ASTSWMO, 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 is currently a trainer in the EPA-OUST, ITRC, and API vapor intrusion courses. He received his Ph.D. in

geochemistry from the University of Southern California.

### **Henry Haven, Navajo EPA**

Mr. Henry Haven is currently employed by the Navajo EPA as a Geologist for the Leaking UST program. With Federal issued UST inspector credentials, he conducts UST inspections in partnership with the USEPA and Navajo Nation. He provides geological technical reviews and supervises contractual agreement on drilling, remedial activities, and tank removals throughout the Navajo Nation. He previously worked as an exploration and production geologist for numerous oil companies in the Four Corners area. He received a BS and MS in Geology from the Northern Arizona University.

### **Kevin Henderson, Mississippi DEQ**

Kevin Henderson has been with Mississippi DEQ since 1988, joining the UST program in 1991 and serving as the UST Manager since 1994. He is a member of several UL and PEI committees involved in the development of various UST standards and industry recommended practices. Having given numerous presentations and authored several papers related to UST system compliance, operation and maintenance, he is probably best known for his contributions to issues involving cathodic protection and thermoplastic piping systems. He is a registered Professional Geologist and has a B.S. in Geology from the University of Southern Mississippi and a M.S. in Geological Engineering from Ole Miss.

### **Robert Herrington, Sarasota/Manatee MPO**

Mr. Robert Herrington is the Planning Manager of the Sarasota/Manatee Metropolitan Planning Organization (MPO). He previously held the position of Executive Director of the Collier County Metropolitan Planning Organization. He has extensive experience in administering and coordinating the transportation planning programs for the Sarasota-Bradenton Urbanized Area and is responsible for the development, preparation and monitoring of all federal and state grants for the MPO. His duties include Intergovernmental Coordination with the MPO Jurisdictional elected officials, technical representatives, civic organizations and other citizens groups. He serves as the MPO Coordinator for four designated Florida Scenic Highway Corridor Management Entities in the Sarasota/Manatee area. A graduate of Flint Northern High School in Flint, Michigan, he also attended the University of Michigan and Manatee Community College.

### **Eric Hick, CGRS, Inc.**

Eric Hick is the co-founder, current president and CEO of CGRS, Inc. For more than twenty-three years he has been addressing the needs of the petroleum industry designing and implementing creative solutions to assist facility owners and operators with environmental issues, fuel system

design/installation and regulatory compliance.

### **Carolyn Hoskinson, U.S. EPA OUST**

Carolyn Hoskinson has served as Director of EPA's Office of Underground Storage Tanks (OUST), first as acting in February 2009 and then named permanently a few months later. Prior to that Carolyn served as the Deputy Office Director, beginning in August 2006. She started her career at EPA in 1991, in the hazardous waste program, focusing on adding flexibility to the hazardous waste cleanup requirements and regulations. She subsequently served in the office of the Assistant Administrator for the Office of Solid Waste and Emergency Response, where she was responsible for issues ranging from waste management and cleanup, Superfund and Brownfields, to counter terrorism and emergency response. While in college, she worked as an intern at EPA to develop indicators for measuring environmental results and tracking environmental progress. She has a Bachelor of Arts Degree in Communications, Law, Economics and Government from The American University in Washington, DC. Carolyn is a native of Connecticut where her Loomis family's roots extend as far back as 1638. She married her high school sweetheart, Jim, and lives with him, their two sons, Jack and Ryan, and their dog, Pinky, in Silver Spring, Maryland. They get back to Connecticut to see family as often as possible, but more importantly to eat decent New Haven pizza.

### **Ken Jewell, U.S. EPA**

Ken Jewell is an Environmental Scientist with the U.S. EPA's Ground Water and Ecosystem Restoration Division in Ada, Oklahoma. He has worked for the EPA since 1999, primarily on field projects in the areas of monitored natural attenuation, permeable reactive barriers, and stream restoration. His interests lie in the development of prototype sampling and monitoring products and the techniques necessary for practical application. He is presently conducting research on the presence and effect of methane in gasoline tank pits produced from anaerobic biodegradation of E-10 gasoline. Project goals are the development of a sampling system and protocol to be used during scheduled inspections by state authorities. He received his B.S. in Environmental Science from East Central University in 1995.

### **Curt Johnson, ADEM**

Curt Johnson has been an Environmental Engineer with the Alabama Department of Environmental Management since 1984, and has been in the UST compliance program since 1989. His duties at ADEM include the review of cathodic protection designs and tests, writing of new and revised UST regulations, and providing technical support to the UST Compliance Section concerning leak detection and cathodic protection issues. He is also currently the Chair of the National Work Group on Leak Detection Evaluations (NWGLDE), which he was instrumental in forming in 1993. He

*bio continued next page*

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is a registered Professional Engineer in the states of Alabama and Wisconsin and has a Bachelor of Science Degree in Civil Engineering from Michigan Technological University.

### **Greg Johnson, Colorado DOPS**

Greg Johnson is currently the Manager of the Petroleum Inspection Program at the Colorado Division of Oil and Public Safety (OPS). He has over 17 years experience in consulting and with the OPS in the assessment and remediation of petroleum and equipment inspection at retail and bulk petroleum facilities. He earned a BS in Geology from the University of Wyoming and holds a Professional Geologist Certification.

### **Dr. Mike Kass, Oak Ridge National Laboratory**

Dr. Mike Kass is a senior materials engineer in the Fuels, Engines, and Emissions Group of the Oak Ridge National Laboratory. He has worked at ORNL for 20 years and for the last 11 years has been performing research on engines, fuels, and emissions. His responsibilities include biofuels and materials compatibilities assessments and materials-related research to improve engine efficiency. He is currently participating in a DOE-led effort (with Underwriters Laboratories) to evaluate the compatibility of fuel dispenser components and materials with intermediate levels of ethanol-blended gasoline..

### **Kurt Klappkowski, Pennsylvania DEP**

Kurt Klappkowski is an attorney with the Pennsylvania Department of Environmental Protection, Bureau of Regulatory Counsel. He has worked with Pennsylvania's Storage Tank program for sixteen years, and also currently counsels the brownfields/corrective action programs and the Office of Energy and Technology Deployment. He has previously worked with the Oil and Gas Management, Hazardous Waste Management, Nuclear Safety and Pollution Prevention and Compliance Assistance programs. As a regulatory counsel attorney, he assists with program development, implementation and enforcement; drafts legislation, regulations and guidance documents; works routinely with other state, federal and local governments; and represents DEP in court. He received his J.D. in 1993 from the University of Pittsburgh School of Law and graduated Magna Cum Laude from Washington and Jefferson College in 1990.

### **Ronald Killian, Massachusetts DOT**

Ronald Killian works as the Manager of Environmental Permits & Procedures for the Massachusetts Department of Transportation (MassDOT). He worked in this position on Boston's Central Artery/Tunnel Project -The Big Dig- from 1991 until its completion in 2006. The Big Dig was the largest public works highway project in U.S. history. He represented the Project in hundreds of hearings and meetings, spearheaded the Project's Boston Harbor water transportation mitigation program, and was instrumental in transforming

through a multi-agency process Boston Harbor's Spectacle Island, an uncapped municipal landfill, into a public park. Along with closing out a few remaining environmental issues related to The Big Dig, he currently is working on climate change and sustainability initiatives for MassDOT, and is a member of the Massachusetts "Leading by Example" Council and co-chair of the state's Climate Change Adaptation Advisory Committee's Key Infrastructure Subcommittee. In 2008 Ron created the Commonwealth's "Eco-Driving Tips" lists to reduce drivers' fuel consumption and expenses ([www.mass.gov/gastips](http://www.mass.gov/gastips)). This spring he was selected as one of the first MassDOT Change Agents, employees who will act as catalysts for change within the newly reorganized department, working on changing institutional culture, saving money, improving efficiency, and increasing high performance. In a former life he worked in New York State and the Northeast for The Nature Conservancy in field operations and preserve stewardship, and as a planning & land use coordinator for a Massachusetts real estate development company. A native of Syracuse, NY, He has degrees from the University of Rochester and Cornell's College of Agriculture & Life Sciences.

### **Brian Knapp, American Petroleum Institute**

Brian Knapp is a Policy Advisor at the American Petroleum Institute in Washington, D.C. He covers marketing issues in the Downstream Department specifically related to fuel dispensing facilities and terminals. He is a graduate of Colgate University and worked as a Legislative Aide to U.S. Senator Kay Bailey Hutchison before joining API.

### **Jeff Kuhn, Montana DEQ**

Jeffrey A. Kuhn is a hydrogeologist with 24 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 LUST Task Force and the Fuel Oxygenates and Additives Workgroup. He is a contributor to the publication "LUSTline" and closely follows the environmental consequences of changes in fuel formulations. He is an avid outdoorsman and teaches field courses in geology, climate change, and natural history in Glacier National Park where he formerly worked as a seasonal ranger. He also works as an adjunct professor at Carroll College in Helena, MT, where he teaches a variety of Earth Science courses. He holds a Bachelor of Science degree in Geology from Juniata College, Pennsylvania, and a Master of Science degree in Geology from the University of Montana.

### **Ronald Laurence, Stantec Ronald Laurence, Stantec**

Mr. Laurence is a licensed Professional Mechanical Engineer in eleven states, and specializes in the design of fuel and flammable liquid facilities. He

has designed fueling facilities for fleet, retail, rental car, aviation, marine, bulk, heating and emergency power applications across the US and Canada. As a fuel system specialist, he has been retained to consult on unique projects internationally, including lighthouses, legacy military bases, and deployable systems used in humanitarian operations. Additionally, he has advised numerous clients with large regional and national tank portfolios on compliance and design matters, including the development of numerous national portfolio-wide tank system design standards and the completion of strategic fuel infrastructure studies.

### **Ray Leather, Cumberland Gulf Group of Companies**

Mr. Raymond F. Leather, P.O.E., P.E., L.S.P., Vice President Affairs for the Cumberland Gulf Group of Companies in Framingham, MA. Mr. Leather is responsible for environmental compliance including emergency response, site assessment and remediation for approximately 900 retail gasoline dispensing facilities and twelve light product distribution terminals. He has worked in the petroleum engineering, distribution, assessment, remediation, and compliance field since 1974 and has participated as a member of API and state regulatory committees. He is currently a member of the board of directors of the Independent Oil Marketers Association of New England and member of the Superfund Advisor Committee for the Massachusetts Department of Environmental Protection. He is a Registered Petroleum Operations Engineer, a Registered Professional Engineer, a Licensed Site Professional in the Commonwealth of Massachusetts; and, a Registered Environmental Assessor I in California. He has a B.S. in Civil Engineering from Merrimack College, an M.S. in Energy Management & Power from the University of Pennsylvania where he was a National Science Foundation Fellow; and, an M.B.A. from the University of Houston..

### **Ira Leighton, U.S. EPA Region 1**

Ira Leighton has been the Deputy Regional Administrator of EPA New England since 2000. With over 30 years of experience in the environmental field, Ira has served in numerous technical and management positions at EPA after starting his career at the state of Massachusetts, Department of Environmental Protection (MassDEP). Prior to becoming the DRA, he directed EPA New England's Office of Environmental Stewardship, which houses the region's enforcement, compliance assistance and pollution prevention programs, and has managed several key positions in the office of Site Remediation and Restoration. He is recognized across the agency as a leading advocate in the areas of science policy, environmental justice, and innovation. Ira has a B.S. from UMass, Amherst, and a M.S. from Northeastern University in Environmental Engineering.

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### **Virginia Lewis, Kentucky DEP**

Virginia Lewis is an Internal Policy Analyst for the Kentucky Underground Storage Tank Branch. She joined the USTB technical staff in 2005 where she worked with UST owners and operators and their contractors to provide oversight for the closure, assessment and cleanup of UST release sites. Virginia presently coordinates the outreach efforts for the UST program. She earned a bachelor's degree in biology from Morehead State University and doctorate of chiropractic degree from Cleveland Chiropractic College.

### **Don Lundy, ES&T, Div. of Groundwater & Environmental Services**

Don Lundy has 30 years of experience as a hydrogeologist and project manager in environmental consulting. He has in-depth experience in solving soil and groundwater remediation and water-supply problems for industrial, municipal, and governmental clients. He has worked in virtually every hydrogeologic setting and with a broad range of groundwater contaminants and regulatory programs. His specialty is solving multiphase problems related to releases of light non-aqueous phase liquids (LNAPL). Since 1979, he has published a number of articles on groundwater and LNAPL topics, and presented at ten NGWA conferences. In alternating years, he co-teaches 1-day short courses with a colleague at ES&T on LNAPL topics for the National Ground Water Association (NGWA) and the Massachusetts Licensed Site Professionals Association.

### **Dorothy Malaier, Alabama DEM**

Dorothy Malaier has been employed with the Alabama Department of Environmental Management since October 1987. For 18 years, she has been the supervisor of the Underground Storage Tank Corrective Action Section. These duties include the supervision of 14 Hydrogeologists who oversee the assessment and cleanup of UST release sites in Alabama. She also participates in the management of the Alabama Underground and Aboveground Storage Tank Trust Fund. She is a graduate of the University of Alabama where she received both her BS and MS degrees in Geology. She is an Alabama Licensed Professional Geologist and currently serves on the Alabama Board of Licensure for Professional Geologists.

### **Diane Malone, Navajo Nation EPA**

Diane Malone is the Department Manager for Waste Regulatory Compliance Department with the Navajo Nation Environmental Protection Agency (NNEPA). She oversees several programs to include; Underground Storage Tank and Leaking Underground Storage Tank Programs, Superfund Program, and Resource Conservation and Recovery Program. She has worked extensively with NNEPA in program development of Navajo Air Quality, Navajo Water Surface Water and Groundwater Protection and Superfund Programs and now with

the Navajo Underground Storage Tank and Leaking Underground Storage Tank programs. She received undergraduate studies in Biological Sciences and Chemistry with the emphasis of Health Services and Medicine at Fort Lewis College, Durango Colorado..

### **Michael Martinson, Delta Consultants**

Mike Martinson, a Senior Consultant with Delta, is responsible for remediation and site closure services that focus in cost management and innovation for the entire project lifecycle. Key areas of expertise include developing site conceptual models & site assessment, remedial technologies selection, monitored natural attenuation, remediation engineering design quality assurance, and continuous optimization of remedial system performance. For over 10 years, he has led an Oil & Gas Benchmarking Study that annually inspects Industry's remediation progress with metrics in HSSE performance. The Benchmarking Study focuses on lifecycle costs, regulatory closures, and comparisons of environmental remediation organizations' operational effectiveness in conducting remediation to acceptable regulatory end-points..

### **Bob May, Synergy Environmental Inc.**

Robert J. May PE, is a Senior Engineer with Synergy Environmental Inc, a full service environmental consulting firm that provides turnkey consulting and engineering services, including investigation, remedial design, installation and ongoing operation and maintenance. He is responsible for engineering and compliance services for numerous clients with large regional fuel storage tank portfolios. He is a licensed UST Inspector in MA, and an UST Installer and Tester in NJ. He is also a ten year member of the Pennsylvania DEP Storage Tank Advisory Committee and is a registered professional engineer in six states and a licensed professional geologist. Prior to Synergy, he worked for ExxonMobil for over 23 years in environmental engineering and management positions. He holds a BSEM from West Virginia University and a MBA from Marshall University.

### **Dennis McChesney, U.S. EPA Region 2**

Dr. Dennis McChesney is the Team Leader of the UST Team for EPA Region 2 which encompasses New Jersey, New York, Puerto Rico, and the U.S. Virgin Islands. He has over 18 years of experience at EPA including managing the UST and UIC programs, managing and implementing large scale monitoring projects in New Jersey, New York, and Puerto Rico, serving as the Region's Quality Assurance Officer for the water programs, and as a hydrologist/lead scientist for major Superfund sites. He has a bachelor of Science degree in Biology from the University of San Francisco, an M.B.A. from Fairleigh Dickinson University, and M.S. and Ph.D degrees in Environmental Sciences from Rutgers University.

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

Mr. McDonald is the founder of Aestus, LLC which has office locations in Colorado, Oklahoma, and New York. Aestus 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 Canonie 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 (1990).

### **Tom McClure, Confederated Salish and Kootenai Tribes of Flathead Nation**

Environmental Protection Agency (EPA) issued federal inspector credentials to Tom McClure of the Confederated Salish and Kootenai Tribes of the Flathead Nation. Issuance of the credentials authorizes him to conduct inspections of underground storage tank systems on the Flathead Reservation on behalf of the EPA. The credentials were presented to him at the National Tanks Conference in Sacramento, California. By issuing credentials to him, EPA expects that the increased field presence on the Flathead Reservation will improve compliance with the federal underground storage tank regulations and prevent the release of fuel from tanks to the environment. The Flathead Reservations is located in northwest Montana. There are approximately 30 active regulated underground storage tank facilities on the Reservation. In addition to the UST program, he also assists with site assessments for the Confederated Salish and Kootenai Tribes, EPA and Environmental contractors on current LUST sites located within the exterior boundaries of Flathead Reservation.

### **Emily McGuire, Kansas DHE**

Emily McGuire is a Professional Geologist with the Kansas Department of Health and Environment (KDHE). During her 17 years with KDHE, she has worked for the Bureau of Environmental Remediation, primarily in the Storage Tank Section Remedial Unit. Working with the State Trust Fund, she has been project manager for remedial designs, site cleanups and closures. She has been instrumental in updating and revising requests for proposals (RFPs) and developing the Remedial Design and Implementation RFP. She also works on emergency sites and sites under the Time and Materials contract (LUST). Prior to environmental work, she worked in the petroleum industry. She



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has BA and MS Degrees in Geology and is a Kansas Licensed Geologist.

### **Thomas McHugh, GSI Environmental**

Thomas McHugh, Ph.D., is a Vice President with GSI Environmental Inc., in Houston, Texas. He is a Diplomat of the American Board of Toxicology and has over 18 years of experience in the environmental industry with academic research and private consulting organizations. He has worked on a number of projects related to vapor intrusion including field investigations and model development. He is the principal investigator (PI) for three vapor intrusion research projects funded by the Department of Defense through their Environmental Security Technology Certification Program (ESTCP) research program. Through these projects, he has developed improved methods for to distinguish between vapor intrusion and indoor sources of VOCs. He is the lead author on several peer-reviewed journal articles, peer-reviewed conference proceedings, and technical documents on vapor intrusion. He has developed training classes on a number of topics including vapor intrusion. He received a B.A. in Biochemistry and Environmental Science from Rice University (1990), an M.S. in Environmental Engineering from Stanford University (1993), and a Ph.D. in Toxicology from the University of Washington (1997).

### **Steven Mcneely, U.S. EPA OUST**

Steven McNeely has worked for the Office of Underground Storage Tanks (OUST) for 23 years coordinating efforts to improve the operation and performance of state UST/LUST programs and enhance the revitalization of petroleum brownfields. He previously served as the project officer managing EPA's petroleum risk-based corrective action (RBCA) training cooperative agreement ASTM. He currently serves as a petroleum revitalization liaison with other HQ, regional, state programs and other public-private entities to enhance petroleum revitalization efforts. He currently manages a petroleum brownfields implementation support work assignment and serves as a technical advisor on two cooperative agreements supporting the ongoing "Educational Campaign" to enhance the revitalization of these smaller members of the brownfields universe. He has a BS from Howard University in Macroenvironmental Management & Policy.

### **John Menatti, Utah DEQ**

John Menatti is the Manager of the Utah DEQ PST Trust Fund. He is a Utah-licensed Professional Geologist and holds a MS in environmental science from the University of Utah and a BS in soil science from California Polytechnic State University, San Luis Obispo, California. He is a member of the ASTSWMO LUST Task Force, the EPA OUST Petroleum Vapor Intrusion Workgroup, and the ITRC LNAPL Team. He has worked for two national environmental consulting firms (Woodward-

Clyde Consultants and PRC Environmental Management in San Diego, California), two environmental regulatory agencies (San Diego County Site Assessment & Mitigation Division and the Utah Division of Environmental Response & Remediation), a national law firm (Luce, Forward, Hamilton & Scripps in San Diego, California), and operated his own environmental consulting firm in Utah (JLM Environmental Consulting).

### **Marcel Moreau, Petroleum Training Solutions**

Marcel provides UST related information to regulators, technicians, owners, and lawyers.

### **Marshall Mott-Smith, Mott-Smith Consulting Group, LLC.**

Marshall Mott-Smith is the President of The Mott-Smith Consulting Group, a Florida-based consulting firm that provides consulting and engineering services UST/AST system management. He provides international technical and training presentations, is widely published in trade journals, and represents several different storage tank system product lines (Atlas Fueling Systems and Eco-Tank Systems). He is on the Board of Directors for The National Institute for Storage Tank Management, a Committee Member for UL 971, a Member of API's Leak Autopsy Committee, and assists The Steel Tank Institute as their expert on storage tank regulation. He has worked with storage tank systems since 1983, and was the Administrator for the Storage Tank Regulation Section in the Florida Department of Environmental Protection from April, 1986 until April, 2008.

### **Brian Murphy, Exponent Inc.**

Trained as a physicist, Dr. Brian Murphy has more than 30 years of experience in data analysis and mathematical modeling of pollutant fate and transport in various media. He is the author of more than 30 journal publications. His projects often involve chlorinated solvents such as PCE, TCE, and TCA; gasoline and other petroleum compounds such as benzene and MTBE; dioxins; metals such as lead and arsenic; and a variety of other compounds, including PAHs, PCBs, radiological compounds, pathogenic compounds, nerve gas, and explosives. He serves as both a testifying and consulting expert in these areas, and his experience also includes formulating challenges to other experts' testimony.

### **Peter Murray, Geotech Environmental Equipment, Inc.**

Peter Murray is a Regional Sales Manager for Geotech Environmental Equipment, Inc. based in Denver, Colorado. Geotech manufactures and distributes a variety of equipment used in the groundwater and surface water industries. He runs the Northeast Sales and Service Center for the company, in Winooski, Vermont and his territory includes the northeastern United States and several eastern Canadian provinces. A consulting hydrogeologist from 1986 through

1998, his specialties included the assessment and remediation of contaminated soil and groundwater. Since then, he has been involved in the environmental equipment business and has sold equipment in North America, Asia and Europe. He received a Bachelor's degree in Geology from the University of Maine at Farmington in 1984 and a Masters in Urban and Regional Planning from the State University of New York at Albany in 1986.

### **Christopher Nelson, Avanti Corporation**

Mr. Nelson has twenty-five years of experience in environmental consulting, technology development, and management. His experience includes working for large and small consulting companies and with commercial and government clients. He successfully developed and demonstrated some of the first bioremediation and in-situ oxidation technologies and he has provided technical oversight on over 500 projects located around the world. More recently he has been focused on green and sustainable remediation technologies including phytoremediation and microbial fuel cell technology. He has authored over 50 professional publications and presentations. He has a B.S. in Industrial Engineering, a M.S. in Environmental Engineering, and he is a licensed Professional Engineer.

### **Mary Parcher, Groundwater and Environmental Services**

Mary Parcher is a Principal Scientist with almost 20 years of environmental consulting experience and manages the operation of Environmental Systems and Technologies (ES&T), the technology support division of Groundwater and Environmental Services (GES). She specializes in the modeling of multiphase flow and chemical fate and transport for NAPLs. She directed the development of and coauthored the API Interactive LNAPL Guide, and has been involved with a variety of organizations developing training materials, guidance documents, and standards associated with the analysis and remediation of NAPL. Her project experience encompasses retail stations, terminals, refinery complexes, and industrial sites. She performed technical analyses for facilities across the country as well as in the Caribbean, Europe, Canada, and Australia. She has a MS in Environmental Science and Engineering from Virginia Tech.

### **Cynthia Paul, U.S. EPA**

Cynthia J. Paul is an Environmental Scientist in the U.S. EPA Office of Research and Development, National Risk Management Laboratory, Ground Water and Ecosystem Restoration Division (GWERD), Subsurface Remediation Branch. Her recent research focus has been evaluating passive diffusion samplers at UST sites for use in calibrating the Johnson and Ettinger Model (JEM) for vapor intrusion assessment. Field sites include A1 Movers in Madison, WI, Hal's Chevron in

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Green River, UT, and Lemoore Naval Air Station in Lemoore, CA. Additional vapor intrusion research has been conducted at the Raymark Superfund site in Stratford, CT. She holds a B.S. degree in Biology from East Central University, Ada, OK and a M.S. degree in Environmental Science from the University of Oklahoma in Norman, OK.

### Janice Pearson

Janice Pearson is the team leader for the Underground Storage Tank Program for the United States Environmental Protection Agency in Region 8, Denver, Colorado. She has been the team leader for over 7 years. She has worked for the Agency for over 20 years. She has 7 years of UST compliance and LUST remediation experience, 11 years in RCRA hazardous waste compliance and remediation and 2 years as a Superfund Remedial Program Manager.

### Ron 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 include issues such as nonpoint source pollution, underground storage tanks, and new threats like mercury. Before joining NEIWPCC, he 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, he has spent more than 30 years in the 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.

### Michael Pomes, KDHE

Michael L. Pomes is Chief of the Preventative Unit in the Storage Tank Section at the Kansas Department of Health and Environment in Topeka. His unit is responsible for registration and permitting of USTs and ASTs, operating a cost-reimbursement program for facilities upgrading to meet SPCC requirements; and administering a contractor licensing program for UST installers, removers, and tightness testers. Michael has 3 degrees in geology: a BS from the University of Wisconsin-Milwaukee; an MS from Fort Hays State University, Hays, KS; and a PhD from the University of Kansas, Lawrence. Michael is a Kansas-licensed geologist and a NACE-certified cathodic protection tester.

### Jennifer Pruet, New Mexico ED

Jennifer Pruet has been a manager for New Mexico Environment Department's (NMED) Petroleum Storage Tank Bureau since September 2006, and currently serves as Acting Bureau Chief. Prior to the Petroleum Storage Tank Bureau,

she was in the General Counsel's Office of the NMED for six years and helped create the state's underground storage tank program in 1986. From 1990 until 2006, she was a sole practitioner, working primarily in environmental law. She taught environmental law courses at University of New Mexico School of Law, provided contract litigation services for law firms in Albuquerque and Santa Fe, and was a Hearing Officer for NMED. She received her B.A. from Yale and her J.D. from University of New Mexico.

### Ehsan Rasa, University of California, Davis

Ehsan Rasa is a last-year PhD student of civil and environmental engineering at the University of California at Davis where he received his master's degree. His research involves the determination of fate and transport of petroleum compounds including BTEX, MTBE, and TBA in subsurface and the impact of ethanol on natural attenuation of these compounds. He uses modeling and field data interpretation to extrapolate from field experiment results. His work has included estimation of contaminant mass discharge and the impact of back-diffusion of the petroleum compounds MTBE and TBA.

### Kent Reid, Veeder-Root

Kent Reid is the Vice President of Strategic Development for Veeder-Root, headquartered in Simsbury Connecticut. He joined Veeder Root in 2001 and is responsible for technology and product development to meet the ever-changing regulatory environment. He has been involved in the petroleum industry since 1988 primarily focused on environmental monitoring and compliance. Before joining Veeder-Root, he was with Red Jacket where he served as Vice President and General Manager of their Electronic Monitoring Division. Prior to joining Red Jacket he worked in the data acquisition and control industry. He holds a Bachelor of Science Degree in Electronic Engineering from Utah State University.

### Bob Renkes, Petroleum Equipment Institute

Bob Renkes is executive vice president and general counsel of the Petroleum Equipment Institute, based in Tulsa, Oklahoma. He has written the Tulsa Letter for PEI since 1987. A frequent presenter at OUST national tanks conferences for over 20 years, he also writes a regular column, Field Notes, for L.U.S.T. Line.

### Stephen Reuter, New Mexico ED-PSTB

Steve Reuter received his Bachelor of Arts degree in Geology in 1976 from Montclair State College. Wishing to participate in exciting geophysical field work in the beautiful Rocky Mountains, he joined Century Geophysical Corporation in Grants, NM. After two years of uranium exploration he attended graduate school at the University of Texas-at El Paso and earned an M.S. in Geology. Exxon hired him to work in Midland, Texas at the height of the 80's oil boom. He broke into the environmental field by forming an independent

consulting firm called "Advent Environmental Services." He joined the NM Environment Department in 1996. He left State work to perform corrective action at Superfund sites. He rejoined the NM Petroleum Storage Tank Bureau as the District 1 Geologist Manager, where he currently oversees corrective action associated with petroleum storage tanks.

### Roland Riegel, Underwriters Labs

Roland Riegel has been at UL for 24 years in three different engineering departments that provide overall safety assessments for certification of a broad range of mechanical & electrical residential, commercial and industrial products, and flammable liquid containment products. In 2002 he was selected as UL's Primary Designated Engineer for Flammable Liquid Containment Products, with key global responsibilities that include:

- UL Representation on various Standard & Code technical committees, such as NFPA 30, 30A, 31, ASTM F15.10, UL Standards Technical Panels, ULC Standards Development Panels, and special Industry Task Groups;
- Assessment of new and unusual or complex technical products; preparation and upkeep of global data sheets and form reports; and engineering support and training;
- Participation in UL policy development of coordinated requirements for material compatibility with fuels; and,
- Technical oversight of UL certifications and consistency.

### Todd Ririe, BP

Todd Ririe provides environmental technology support to BP operations in the areas of soil and groundwater contamination and vapor intrusion. He is currently the chairman of the Petroleum Environmental Research Forum (PERF) where he has helped to organize numerous meetings and workshops that deal with environmental issues associated with petroleum hydrocarbons. He has over 25 years of experience within the oil industry and has a PhD degree in geology from the University of Iowa.

### Jim Rocco, Sage Risk Solutions LLC

Jim Rocco has over 30 years of experience in environmental risk management, including storage tank systems, corrective action, property transactions, risk assessment, multi-criteria structured decision making, risk communication, legislative and regulatory technical support, and liability management. He was employed by BP Exploration & Oil Inc. for 25 years in engineering and management positions related to environmental compliance for retail marketing, product stewardship, and industrial hygiene. He is currently a principle in Sage Risk Solutions LLC

*bio continued next page*

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which provides environmental risk management services to public and private organizations. Through Sage Risk Solutions LLC, he is a member of Vita Nuova LLC, a company that specializes in the redevelopment and revitalization of environmentally-impacted properties and neighborhoods. He has worked with stakeholders at all levels, including federal and state environmental regulators, and communities surrounding facilities. He currently serves as the Chairman of the Ohio Petroleum Underground Storage Tank Release Compensation Board.

### **Dania Rodriguez, ASTSWMO**

Dania Rodriguez is the Deputy Executive Director for the Association of State and Territorial Solid Waste Management Officials (ASTSWMO) in Washington, DC. For a number of years, she has served as the liaison between the States/Territories and numerous Federal Agencies such as EPA and DOD on important policy issues. She currently staffs the Hazardous Waste and Program and Information Exchange Subcommittees for the Association, oversees the Association's Grants and Cooperative Agreements, is responsible for the coordination and facilitation of meetings and conferences, helps disseminate pertinent information to all parties, and provides support to all of the ASTSWMO Subcommittees and its work groups. Prior to her career at ASTSWMO, she worked for the American Petroleum Institute (API). She received a B.A. in Political Science from Hood College - Frederick, Maryland.

### **Peter Rollo, Delaware DNREC**

Peter Rollo is an Engineer IV with Delaware's Tank Management Branch, where he has worked since 1999. Prior employment includes 13 years in municipal and industrial consulting engineering and 3 years with Public Service Electric & Gas Co. at its Salem and Hope Creek Nuclear Generating Stations. He is currently a member of the National Work Group on Leak Detection Evaluations (NWGLDE) which reviews 3rd party evaluations of leak detection equipment used in underground and aboveground storage tank systems; he also serves on the 2010 PEI RP 100 Tank Installation Review Committee. For DNREC, he reviews and approves designs and plans for UST & AST installations, retrofits and upgrades, including vapor recovery equipment, and is responsible for compliance and policy issues including those related to alternative fuel dispensing systems. He earned a B.S. degree in Environmental Resource Management and a Masters degree in Environmental Pollution Control Engineering from The Pennsylvania State University and a B.S. degree in Civil Engineering from Drexel University.

### **Doug Sarno, Forum Facilitation Group**

Douglas (Doug) Sarno is a civil engineer with more than 25 years experience in environmental cleanup including over 20 years of experience in planning and implementing public participation programs. He is also an International Association

of Public Participation (IAP2) Master Trainer. He has written and spoken widely on public participation issues. He has designed and implemented successful and effective public participation programs throughout the world. He has also developed training and guidance for public participation programs for numerous agencies, and regularly conducts independent evaluations of public participation programs. He has devoted much of his career to improving environmental decision-making and effectively engaging diverse groups of stakeholders in complex and controversial decisions.

### **Robert Schlegel, State of Colorado**

Robert Schlegel has been an Oil Inspector for the State of Colorado for the past five years. He spent seven years as a petroleum equipment installer primarily installing AST and UST fuel systems including tanks, piping, and associated hardware. Using his experiences as an installer, he is able to perform and improve upon the quality of inspections. He enjoys working with a group of individuals motivated to regulate in a way that creates a working relationship with our tank owners to help them understand how to keep in compliance.

### **Thomas Schruben**

Tom Schruben is an environmental risk management consultant. He started his professional career as an environmental engineer in 1981 and 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. He also assists in the redevelopment of petroleum Brownfields.

### **John Sherrill, Illinois EPA**

John Sherrill currently serves as Illinois' LUST Program Remediation Coordinator. Prior to this, he worked seven years for Kerr-McGee Chemical Corporation at a Superfund cleanup site and the last eighteen years with the Illinois Environmental Protection Agency. During his tenure at IL EPA, he served seven years as Fiscal Officer and five years as Manager of a Technical Cleanup Unit. He has given written and oral testimony for two rulemakings - Risk-Based Cleanup Objectives and Proportionate Share Liability. He has also managed the largest groundwater sampling effort in the Illinois EPA's history, of more than 800 residential groundwater wells in DuPage County. He holds a Bachelor of Business Administration

degree from the University of Oklahoma and a Master of Science in Geography from South Illinois University. He is currently an Adjunct Professor at University of Illinois at Springfield where he teaches Environmental Law.

### **Kris Shiffer, Pennsylvania DEP**

Kris Shiffer is the Environmental Group Manager serving as Chief, Aboveground & Underground Tanks Technical Section within Pennsylvania's Division of Storage Tanks. He is responsible for overseeing the statewide administration, planning, development, and enforcement of the storage tank technical program areas. Prior to accepting this position, he held the position of Water Quality Specialist Supervisor, Environmental Cleanup Program, Storage Tank Section, Southcentral Regional Office providing oversight for the compliance of over 3100 regulated facilities and tank-related complaint investigations. A graduate of Penn State University, he enjoys spending his spare time with his wife, Tammy, and their three daughters.

### **Tim Smith, U.S. EPA OUST**

Tim Smith is a member of the Policy and Standards Division at the U.S. EPA's Office of Underground Storage Tanks (OUST). He led the operator training work group to develop EPA's operator training grant guidelines as required by the Energy Policy Act of 2005. He is also OUST's primary point of contact on issues related to release detection, UST compliance inspector training, and inspections.

### **John Sohl, COLUMBIA Technologies**

John Sohl is the Chief Executive Officer for COLUMBIA Technologies. With over 35 years of experience in senior technical project management and business development, he is responsible for the overall direction of COLUMBIA Technologies' corporate activities, the quality of field services, capital structure, and business development. As the co-founder of the award winning real-time information processing system, SmartData Solutions(R), he has successfully played an integral role in providing his clients with real-time and visualization platforms. This has resulted in long-term cost savings and effective site characterization for locations throughout North America and Hawaii. With a high level of involvement in over 700+ projects including oil companies, government agencies, environmental consultants, commercial real estate owners, developers and managers, architectural and engineering firms, lawyers, and contractors the chances are pretty high that he has worked on a project similar to the one you have at hand. He holds a BS in Engineering from the United States Naval Academy and an MBA from Chaminade University of Honolulu..

### **Roy Spaulding, University of Nebraska-Lincoln**

Roy F. Spaulding, Ph.D., is a professor with the Agronomy and Horticulture Department at the



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University of Nebraska-Lincoln. For thirty years his research interests have surrounded investigations of mechanisms to assess, prevent and remediate nonpoint agrochemical contamination. An example project is the utilization of in situ amended biodenitrification to provide municipal well water with reduced nitrate concentrations in compliance with maximum contaminant levels. Presently his interests are focused more on the fate and transport of releases of biofuel to surface water and groundwater. He has over 100 referred publications in the field. He received his MSPH from the University of North Carolina in Environmental Sciences and Engineering and a Ph.D. from Texas A&M University in geochemical oceanography. He is presently an active member of the Interstate Technology and Regulatory Council's Biofuels team. He also serves on several national research advisory boards.

### **Karen Stachowski, Tennessee DEC**

Karen H. Stachowski is an Assistant Commissioner with the Tennessee Department of Environment and Conservation. She has been with the Department for approximately 11.5 years. Her duties include supervising the Legal Support Section in the Office of General Counsel. This section includes the Department's Rule-making Coordinator, the Civil Enforcement Coordinator, the Natural Resource Damage Assessment and Restoration Program Manager, and two criminal investigators. In addition, she manages the caseload of the Office of General Counsel through case assignments and individual reviews with each attorney. She has worked as the Department's Deputy Commissioner of Environment and as an Assistant General with the Department. Additionally, she was an Assistant Attorney General in the Law Enforcement & Special Prosecution Division of the Office of the Attorney General before leaving to practice law with the firm of Waller, Lansden, Dortch & Davis. She received her J.D. from the Cecil C. Humphreys School of Law, The University of Memphis and her B.S. in Biology from the Mississippi University for Women.

### **Jesse Taylor, Remington Technologies**

Jesse Taylor has been a practicing geologist since 1978. He began work as a petroleum geologist where his focus was the integration of seismic data with geologic stratigraphy to explore for hydrocarbon deposits. He then worked as an environmental consultant with an emphasis on assessment and the remediation of petroleum impacted soil and groundwater. For the past ten years, he has been dedicated to the development of in-situ injection technology. As such, he has concentrated on the development of new injection techniques and the use and assessment of injected materials. He has a BS in Geology from the University of Georgia, an MBA from the University of Colorado and has completed a post-graduate program in environmental geosciences

at the Colorado School of Mines.

### **Ben Thomas, Petroleum Training Solutions**

Ben has been in the UST industry for 20 years, first as a Vermont and Alaska regulator and then as a consultant since 2002. Since then he has been traveling throughout the US doing inspector and operator training to audiences large and small. In 2004, he teamed up with Marcel Moreau and Steve Purpora and started Petroleum Training Solutions to create high quality online UST training courses.

### **Pamela Trowbridge, Pennsylvania DEP**

Pamela Trowbridge is a Licensed Professional Geologist with the Pennsylvania Department of Environmental Protection (PA DEP) in Harrisburg. She has worked for the PA DEP since 1993. She is experienced in regulation, guidance, policy, and procedure development and is working on developing guidance and procedures for addressing separate phase liquids in soils and groundwater. She conducts training seminars of basic program information in the Land Recycling Program to consultants and the regulated community and provides training to DEP staff on new procedures and technical issues. She has been the co-leader for the ITRC LNAPL Team since the team formed in 2007. She earned a bachelor's degree in earth sciences from Pennsylvania State University in University Park, Pennsylvania in 1992 and is a Licensed Professional Geologist in Pennsylvania.

### **Bill Truman, U.S. EPA Region 4**

William E. Truman is the Regional Program Manager for the Underground Storage Tank (UST) program for the United States Environmental Protection Agency's Region 4 office in Atlanta, Georgia. He has served in the UST Program at EPA for 12 years, and prior to that, served at the state level with the Florida DEP in a similar role. He also worked as a petroleum geologist for Chevron and Samedan Oil in Louisiana. He is a Professional Geologist, with degrees in geology from Clemson University (B.S.) and Virginia Tech (M.S.).

### **Robert Truesdale, RTI International**

Robert Truesdale is a senior geologist with over 30 years experience in developing and applying multimedia guidance, sampling methods, and risk-based methodologies for EPA and other clients. He led the technical support behind EPA's 1996 Soil Screening Guidance and has been involved in the development of vapor intrusion (VI) guidance since 2000, including state guidance and updates to EPA's 2002 draft VI guidance. He is currently supporting EPA's efforts to develop guidance on petroleum VI. Over the past eight years, he has organized and led nine conference sessions on VI and soil gas sampling, including 7 specialty workshops for EPA. He leads RTI's multimedia DDT sampling efforts in Africa in support of indoor residual spraying (IRS) for malaria control, and is directing a field study of vapor intrusion processes and measurement techniques for EPA's Office

of Research and Development. He is currently a senior scientist in RTI's water resources and ecosystems management center where he directs research projects on wetlands and ecosystems services.

### **Carol Tucker, U.S. EPA**

Carol Goldsberry Tucker has worked for the US Environmental Protection Agency for over 21 years in various programs including air emissions, water enforcement, emergency response, Superfund and Brownfields. In addition, she worked for three years on a detail to the City of Lowell in the Division of Planning and Development as the City's Brownfields Coordinator. She is currently the Brownfields Program Section Chief in the US EPA New England Regional Office. She received a Master in City Planning from MIT in City Design and Development in 2002. She has a M.S. in Environmental Engineering from the University of Massachusetts Lowell and a B.S. in Engineering from Brown University.

### **Omar Tyson, Connecticut DEP**

Omar Tyson is currently a Sanitary Engineer II within the Storage Tank Enforcement Unit. He has a well-rounded background; having worked as a mechanical engineer (P&W), an Electrical/Systems engineer (NU) and a corporate engineer (NUCON Engineering). He has over 12 years of engineering experience, 7 of which are in the environmental field. He is responsible for the inspection, compliance, and enforcement of all regulated USTs within Southeastern Connecticut. To date he has performed over 2,500 unannounced UST compliance inspections and has generated multiple enforcement actions as a result. As a member of the LEAN Implementation Team, he was responsible for evaluating the program's UST inspection process in an effort to eliminate non-value added steps while achieving greater efficiency. The successful LEAN project resulted in a 300-400% increase in UST inspections and also has been implemented in various other programs throughout the agency. He holds a BS in Mechanical Engineering/Tuskegee University in Alabama.

### **Ted Unkles, Vermont DEC**

Ted Unkles has worked for the State of Vermont's UST program for 20 years. He began working as a field inspector in 1990. He has been the program Coordinator for approximately the past 12 years. In addition to his UST duties, Ted is a member of the DEC Spill response team, and he is also a member of the Vermont Hazardous Materials Response Team. Ted has a Bachelor's degree in Earth Science from Dartmouth College, and a Masters Degree in Natural Resource Management from Antioch University – New England. Ted also serves as Chairman of the Selectboard of the Town of Bradford, Vermont. Since the town has an underground tank containing diesel fuel at its



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highway maintenance garage, he occasionally gets to view the UST Program from the point of view of the regulated public..

### **John Wade, Pinnacle Actuarial Resources, Inc.**

Mr. Wade is a Senior Consultant with Pinnacle Actuarial Resources (Indianapolis office) with over thirty years of actuarial experience. He is an Associate of the Casualty Actuarial Society (2002) and serves on the CAS Committee on Professionalism Education and the American Academy of Actuaries' Emerging Issues Task Force (P&C). Client engagements include reserve analyses, financial examination support, rate development, and filing reviews for insurance companies and regulators. He has provided funding studies for various public entities. He has provided filing support in most US jurisdictions and currently serves as the consulting actuary to the Indiana Department of Insurance, providing several hundred rate filing reviews and other services since 2005. He holds BS (1977) and MA (1979) degrees in actuarial science from Ball State University.

### **John Wagner, Southern Nevada Health District**

John Wagner is a Nevada Certified Environmental Manager and Registered Environmental Health Specialist at the Southern Nevada Health District. He graduated from Brigham Young University with a B.S. in Microbiology. A strong supporter of public service and education, he also holds a graduate certificate in Public Management from the University of Nevada, Las Vegas.

### **Jim Weaver, U.S. EPA ORD**

Dr. Jim Weaver has worked for the U.S. Environmental Protection Agency's Office of Research and Development for 21 years - initially at the ground water research center in Ada, Oklahoma and since 1997, at the Ecosystems Research Division in Athens, Georgia. He has worked on the development and testing of simulation models for fuel releases, evaluation of field behavior of contaminants, and oil spill response planning. He received Masters and Ph.D. degrees in Civil Engineering from The University of Texas at Austin, and a Bachelors degree from the State University of New York, College of Environmental Science and Forestry.

### **Charles Whisman, Groundwater and Environmental Services**

Chuck Whisman, P.E., as the Senior Vice President of Engineering for GES, is responsible for leading engineering and environmental remediation initiatives throughout the company's 35 offices internationally. These initiatives include developing new technologies, leading green and sustainable remediation practices, identifying innovative remediation solutions for energy, government, and industrial clients, standardizing engineering design and system installation procedures/protocols, developing Marcellus Shale engineering and consulting services,

and providing guidance to GES engineering departments. He has over 16 years of engineering and project management experience pertaining to remediation sites impacted with a wide range of contaminants. During his career, he has been involved in more than 400 remediation system pilot test and design projects and evaluations throughout the United States that have incorporated various remediation technologies.

### **James White**

James S. White is Manager of HSSE Regulatory Affairs for BP with over 38 years of experience in the petroleum products marketing industry. His career began with ARCO and included operational experience within retail and distribution. He has been involved in HSSE government relations since 1985. Following early retirement from ARCO in 1995, he established WHITE ENVIRONMENTAL ASSOCIATES and was heavily involved in MtBE matters regarding underground tanks. His expertise extends to policy matters involving USTs, ASTs, Stage I & II vapor recovery and other HSSE issues involving retail fuel outlets. He is a member of the Western States Petroleum Association (WSPA) and the American Petroleum Institute. He is also an O&E member of the Petroleum Equipment Institute (PEI).

### **Brian Wiegert, Rounds & Associates**

Brian Wiegert is VP of Underwriting and Loss Control for Rounds & Associates. Rounds & Associates is a consulting company that specializes in providing environmental risk management and inspection services to the petroleum and insurance industries. Mr. Wiegert has over 25 years experience in the petroleum storage tank industry. He served as operations manager for a large convenience store chain. He has been a licensed UST Inspector/Installer and involved in developing UST installation specifications. He currently serves:

- On PEI's RP 900 Recommended Practices for the Inspection and Maintenance of UST Systems
- On Underwriter Laboratories technical standard panels for UL1316 and UL58
- As a manager for Compliance Inspections for Missouri (PSTIF/MDNR) and Iowa (PMMIC/IDNR).
- Appointed by the Governor of Iowa to serve on the Iowa Renewable Fuels Infrastructure Board.

### **John Wilson, U.S. EPA**

John Wilson is a research microbiologist for U.S. EPA and has worked at the R.S. Kerr Environmental Research Center in Ada, Oklahoma since 1978. Currently, he conducts research on in-situ bioremediation of chlorinated solvents, and on natural attenuation of BTEX compounds, fuel additives, and chlorinated solvents. In addition to his research activities, he provides training and technical assistance to the EPA regions and to state agencies on natural attenuation of chlorinated solvents, fuel additives and BTEX compounds in

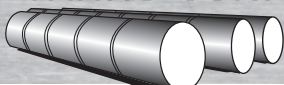
ground water. He has a B.S. in Biology from Baylor University, an M.A. in Microbiology from the University of California at Berkeley, and a Ph.D. in Microbiology from Cornell University.

### **Matthew Young, U.S. EPA OUST**

Matt Young is an Environmental Protection Specialist in the Implementation Division of the EPA's Office of Underground Storage Tanks (OUST). His responsibilities include leading OUST's efforts in the development of petroleum vapor intrusion guidance for federally regulated underground storage tank sites, development of an online corrective action compendium, and is responsible for working with states and regions for collecting and reviewing performance measures associated with OUST semi-annual and ARRA reporting. He is a professional geologist, and received his bachelors of science from the University of Toledo in 1999. He has worked in OUST since 2008.

### **Paul Zahn, Utah DEQ**

Paul Zahn is a Section Manager for Utah's LUST Program. He has been in the LUST program since 1988. He has his BS and MS degrees in Geology.



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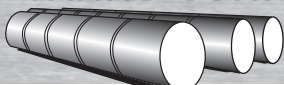
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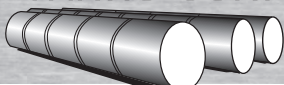
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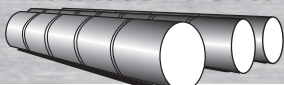
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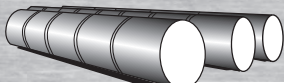
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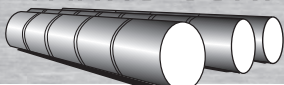
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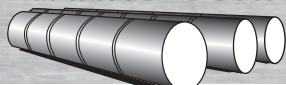
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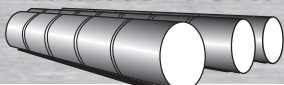
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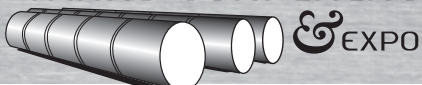
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