

24th National
TANKS
CONFERENCE
www.neiwpc.org/tanksconference & **EXPO**



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



Colorado Department of Labor
and Employment



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24th National Tanks Conference and Expo Program Booklet, 2013

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; and the Colorado Department of Labor and Employment.

Photography courtesy Denver Convention & Visitors Bureau



24th National
TANKS September 16-18, 2013
CONFERENCE
NEIWPCC EPA ASTSWMO & EXPO
CDLE

September 2013

Dear Colleague,

On behalf of the conference sponsors, it is our pleasure to welcome you to Denver for the 24th National Tanks Conference and Exposition. As we participate in the conference's multitude of learning and networking opportunities, we invite you to pause on the mile high step of the Capitol Building and take in all this wonderful city has to offer.

The 2013 agenda features sessions covering an exceptionally wide range of topics, including alternative fuels, remediation technologies, and vital financial issues. With so many outstanding sessions to attend, we urge you to carefully consider your choices. If you cannot attend a desired session, bear in mind that most session presentations will be available for download on the conference website. We are also providing an opportunity for the greater tanks community to participate in the conference. As noted in the agenda, several sessions are offered as webinars and will be archived on the conference website for future viewing with the rest of the presentations.

We have come a long way on tanks issues over the past few decades, but as we all know, there is always more work to be done and budgets are getting tighter. 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
Office of Underground Storage Tanks
Environmental Protection Agency

Dania E. Rodriguez
Executive Director
Association of State and Territorial Solid
Waste Management Officials

Mahesh Albuquerque
Director
Colorado Division of Oil and Public Safety
Colorado Department of Labor and Employment



Division of Oil and Public Safety

Colorado's Department of Labor and Employment, Division of Oil and Public Safety (OPS) regulates explosives, commercial amusement rides, conveyances (elevators and escalators), boilers and petroleum storage tanks, including liquefied petroleum gas (propane) tanks. The mission of OPS is to ensure public health, safety and consumer protection by administering laws and regulations applicable to each of these programs. As with any government entity, OPS exists to serve and protect the public with the goal of fulfilling regulatory responsibilities while keeping all interested and affected parties educated and informed.

Petroleum Program

This document provides a description of the roles and function of the OPS as the regulatory authority for petroleum storage tanks with State Program Approval (SPA) granted by the Environmental Protection Agency (EPA) to operate in lieu of an EPA-administered program. Through a Memorandum of Understanding with the Colorado Department of Public Health and Environment, OPS is the implementing agency for the Clean Water Act regarding petroleum releases from regulated storage tanks. The Petroleum Program is comprised of three sections that are all further described below.

Compliance

The Petroleum Compliance Section enforces regulations that require owners and operators of underground and aboveground petroleum storage tank systems to protect against spills, overfills and equipment corrosion and to arrange for periodic inspections and testing of their equipment to make certain it is operating properly. The Compliance Section provides technical assistance to these owners and operators to meet State and Federal



requirements related to installation, operation and closure of regulated petroleum storage tanks. In addition, the Compliance Section conducts activities to protect consumers, retailers and refiners of petroleum products from fuel quality issues and inaccurate fuel dispensing.

Remediation

The Remediation (clean-up) Section responsibilities include ensuring that owners and operators of regulated petroleum storage tank systems and their representatives comply with all applicable statutes and regulations with respect to releases of petroleum products from these tanks to the environment. Currently there are petroleum releases at approximately 1,000 sites within Colorado where approved assessment or remediation activities are being conducted. The mission of the Remediation Section is to assist owners and operators in properly conducting assessment and remediation activities that will mitigate and eliminate threats to human health and the environment posed by petroleum releases.



Reimbursement Fund

The Fund Section is responsible for processing applications to the Petroleum Storage Tank Fund for reimbursement of costs related to assessment and clean-up of petroleum contaminated sites. Reimbursement of allowable costs is reserved for those applicants that have established eligibility through compliance with the Petroleum Storage Tank Regulations. Since its inception in 1994, the Colorado Petroleum Storage Tank Fund has paid out almost a half billion dollars in cleanup reimbursement.

Contact Information

Please contact the OPS if you have any questions, concerns or comments regarding the regulation of petroleum storage tank systems in Colorado.

OPS website:	www.colorado.gov/cdle/petroleum		
Technical Assistance Line:	303-318-8547		
Division Director:	Mahesh Albuquerque	303-318-8536	mahesh.albuquerque@state.co.us
Compliance:	Zach Hope	303-318-8545	zach.hope@state.co.us
Propane Inspection:	Scott Simmons	303-378-1103	scott.simmons@state.co.us
Remediation:	Erik Gessert	303-318-8520	erik.gessert@state.co.us
Reimbursement Fund:	Jane Bral	303-318-8510	jane.bral@state.co.us

National Tanks Conference Co-Sponsors



New England Interstate Water Pollution Control Commission

650 Suffolk Street, Suite 410
Lowell, MA 01854
<http://www.neiwpcc.org>

Since 1983, NEIWPCC has been deeply involved in local and national underground storage tank issues. The organization is committed to improving water quality by supporting the following activities: initiating pertinent research, conducting training seminars, organizing national conferences, and coordinating regional workgroup discussions. NEIWPCC has also been publishing LUSTLine since 1985, which is the publication of record for UST, LUST, and Financial Responsibility matters nationwide.

NEIWPCC Tanks Program Contact: Jaelyn Harrison, 978-349-2515, jharrison@neiwpcc.org



United States Environmental Protection Agency Office of Underground Storage Tanks

1200 Pennsylvania Avenue, NW 5401P
Washington, DC 20460
<http://www.epa.gov/oust/>

EPA's Office of Underground Storage Tanks (OUST) developed and implements a regulatory program to protect the nation's environment and public health from underground storage tank (UST) releases. OUST works in close partnership with EPA regions, states, territories, tribes, and industry to prevent UST releases, detect leaks quickly, and clean up releases that have occurred. With support from EPA, states and territories are the primary implementers of the UST program. EPA OUST and regions partner with tribes to implement the UST program in Indian country.

U.S. EPA OUST Program Contact: Lela Hagan, 703-603-7145, hagan.lela@epa.gov



Association of State and Territorial Solid Waste Management Officials

444 North Capitol Street, NW, Suite 315
Washington, DC 20001
<http://www.astswmo.org>

ASTSWMO represents the interests of State waste and remediation managers from the 50 States, five territories, and the District of Columbia (States). The Association's mission is to enhance and promote effective State and Territorial programs for waste and materials management, to encourage environmentally sustainable practices and to affect relevant national waste and materials management policies.

ASTSWMO's Tank Subcommittee includes State members with expertise in managing release prevention, remediation, and financial assurance funds associated with State and federally regulated USTs. The Subcommittee works directly with officials at all State UST programs to review and comment on federal policies, rulemaking, and legislation, and works with federal officials at EPA's Office of Underground Storage Tanks (OUST) to achieve our common goal of protecting human health and the environment.

ASTSWMO Staff Contact: Charles Reyes, 202-624-7882, charlesr@astswmo.org

Conference Information

Registration and Information Desk Hours

Sheraton Denver Downtown Hotel – Plaza Building Concourse Level

Sunday, September 15	11:00a.m. to 6:00 p.m.
Monday, September 16	7:00 a.m. to 5:00 p.m.
Tuesday, September 17	7:00 a.m. to 5:00 p.m.
Wednesday, September 18	7:00 a.m. to 10:00 a.m.

Welcome Reception

The Monday evening Welcome Reception is located in the Exhibit Foyer on the Plaza Building Concourse Level. Your conference badge is your ticket in!

Monday, September 16	5:00 p.m. to 7:00 p.m.
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Conference Attire and Badges

The attire for the 24th National Tanks Conference is “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

Denver Health & Hospital
777 Bannock Street, Denver, CO
Tel: 303-436-6000
www.denverhealth.org

Rite Aid Pharmacy, 750 16th Street

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.**

National Tanks Exposition Hours

Expo Hours and Poster Sessions

Monday, September 16	10:00 a.m. to 7:00 p.m.
Tuesday, September 17	8:00 a.m. to 5:00 p.m.
Wednesday, September 18	8:00 a.m. to 12:00 p.m.

Poster “tours” will be conducted during the Monday Welcome Reception.

Breakfast Plenary and Luncheon

The Monday morning breakfast plenary will be held in Plaza Ballroom ABC.

Monday, September 16	8:00 a.m. to 10:00 a.m.
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The Tuesday luncheon, with guest speaker Teresa Alleman, National Renewable Energy Laboratory, will be held in Plaza Ballroom ABC.

Tuesday, September 17	11:45 a.m. to 1:15 p.m.
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Evaluation Forms

Your opinion is important to us!

Full Conference Evaluation and Individual Session Forms will be available in each session room. Please take a moment to fill out the appropriate form. This feedback is extremely valuable so we can continue to improve the sessions and ensure we are providing all attendees with a high quality tanks conference experience.

Please leave your Individual Session Forms with the room moderator before leaving the session and your Conference Evaluation Forms at the Registration/Information Desk.

Business Center/Office Supplies

The business center is located in the hallway to the left of the front desk and is open from 7:00 a.m. to 9:00 p.m.

Telephone: 303-626-2547

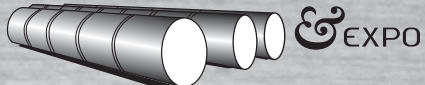
Lost & Found and Message Board

Located at the Conference Registration and Information Desk on the Plaza Building Concourse Level.

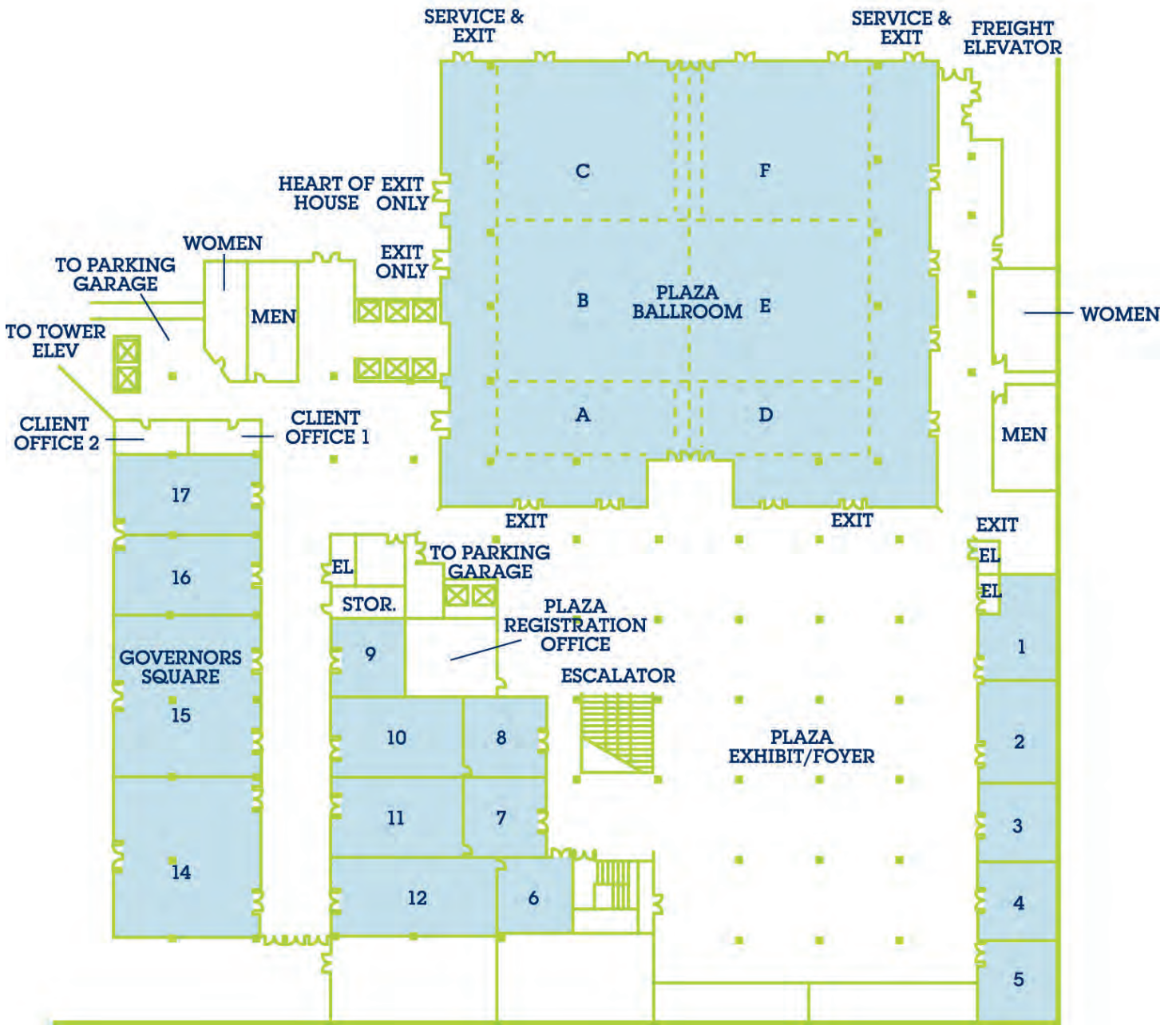


24th National

TANKS CONFERENCE



Sheraton Denver Downtown Hotel – Plaza Building Concourse Level Floor Plan



Agenda for Sunday, September 15, 2013

11:00-6:00	Conference Registration/Information Desk Open – Plaza Building Concourse Level Exhibitor Check-In/Move-In – Plaza Building Concourse Level Poster Check-In/Setup – Plaza Building Concourse Level					
1:00-3:00	Improvements to In-Situ Remediation Projects Using Advanced 3D Site Characterization Technologies <i>John Fontana, Vista GeoScience</i> Governor's Square 10	Basic and Advanced Laser-Induced Fluorescence Data Interpretation <i>Randy St. Germain, Dakota Technologies, Inc.</i> Governor's Square 11	Unravel the Mysteries of Cathodic Protection <i>Lorri Grainawi, Steel Tank Institute</i> Governor's Square 12	LORAX Animated Information Systems for Site Assessment and Remediation <i>Curtis Stanley, Shell Global Solutions</i> Governor's Square 15	Responsible Party Search Training <i>Nina Kondos, Retired, Arizona DEQ</i> Governor's Square 16	Soil Gas Analysis for Monitoring Wells <i>John Wilson, U.S. EPA ORD</i> Governor's Square 17
3:00-3:15	Break					
3:15-5:00	Improvements to In-Situ Remediation Projects (Cont.) Governor's Square 10	Basic and Advanced Laser-Induced Fluorescence Data Interpretation (Cont.) Governor's Square 11	Unravel the Mysteries of Cathodic Protection (Cont.) Governor's Square 12	Best Management and Technical Practices for Assessment and Remediation <i>Stephen Dymont, U.S. EPA OSRTI</i> Governor's Square 15	Table-Top Leak Scene Investigation <i>Michael Pomes, U.S. EPA Region 7</i> Governor's Square 16	Soil Gas Analysis for Monitoring Wells (Cont.) Governor's Square 17

Social Event – An Evening at Blake Street Vault

Sunday, September 15 from 6:00 p.m. to 10:00 p.m.

The social event will take at the Blake Street Vault. The Blake Street Vault is Denver's newest "oldest" Hip Historic LoDo restaurant & bar. In the early 1860s just after Denver was founded, the building served as a boarding house and saloon in the center of the first business district. Today, nearly 145 years after its original construction, the Blake Street Vault is re-established as a gathering spot for friends, neighbors, business people, visitors, and anyone looking for a great Colorado experience.

Agenda for Monday, September 16, 2013

7:00-5:00	Conference Registration/Information Desk Open – Plaza Building Concourse Level			
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Governor's Square 17			
8:00-10:00	Breakfast Plenary – Plaza Ballroom ABC Moderator: Tom Groves , Director of Wastewater & On-Site Programs, New England Interstate Water Pollution Control Commission Speakers: Ellen Golombek , Executive Director, Colorado Department of Labor and Employment Shaun McGrath , Regional Administrator, U.S. Environmental Protection Agency Region 8 Warren Roan , Environmental Specialist, Navajo Nation EPA Carolyn Hoskinson , Director, Office of Underground Storage Tanks, U.S. Environmental Protection Agency			
10:00-10:30	Break			
10:00-7:00	Exhibit Booths and Poster Session Area Open – Plaza Building Concourse Level			
10:30-12:00	Do You Know Your Tanks? <i>Roland Riegel, Underwriters Laboratories</i> Plaza Ballroom E	Advanced Site Characterization <i>Erik Gessert, Colorado OPS</i> Plaza Ballroom F	States Only Meeting <i>Chuck Schwer, Vermont DEC</i> Governor's Square 15	Tribal Only Meeting <i>Randy Bettelyoun, Oglala Sioux Tribe</i> Governor's Square 14
12:00-1:30	Lunch (on your own)			
1:30-3:00	Advanced LNAPL Assessment I* <i>John Menatti, Utah DEQ</i> Plaza Ballroom E	Seeking What's Leaking <i>Mahesh Albuquerque, Colorado OPS</i> Plaza Ballroom F	Who Pays? <i>Tara Rosie, Arizona DEQ</i> Governor's Square 15	Tribal & U.S. EPA Meeting <i>Randy Bettelyoun, Oglala Sioux Tribe Carolyn Hoskinson, U.S. EPA OUST</i> Governor's Square 14
3:00-3:30	Break – Visit the Exhibit Booths and Poster Session Area – Plaza Building Concourse Level			
3:30-5:00	Operation, Maintenance, and Inspection of UST System Release Detection and Prevention Equipment* <i>Tracie Donaldson, U.S. EPA Region 6</i> Plaza Ballroom E	Innovative Clean-Up Technologies: It's a Whole New Game <i>Richard Spiese, Vermont DEC</i> Plaza Ballroom F	Then & Now <i>Ben Thomas, UST Training</i> Governor's Square 15	Fund Soundness <i>David Chambers, Nebraska DEQ</i> Governor's Square 14
5:00-7:00	Welcome Reception, Exposition, and Poster Session – Plaza Building Concourse Level			

*Session will be broadcast as a live webinar.

Agenda for Tuesday, September 17, 2013

7:00-5:00	Conference Registration/Information Desk Open – Plaza Building Concourse Level			
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Governor’s Square 17			
8:00-5:00	Exhibit Booths and Poster Session Area Open – Plaza Building Concourse Level			
8:00-9:30	Fuel Additives and DEF <i>Don Gilson, Gilson Environmental</i> Plaza Ballroom E	Remediation Process Optimization <i>Stephen Reuter, New Mexico ED</i> Plaza Ballroom F	To LUR or Not to LUR/Low-Risk Closure <i>Chuck Schwer, Vermont DEC</i> Governor’s Square 15	Whirlwind Tour of Compliance Apps <i>Zach Hope, Colorado OPS</i> Plaza Ballroom D
9:30-10:00	Break – Visit the Exhibit Booths and Poster Session Area – Plaza Building Concourse Level			
10:00-11:30	I’m Not a Gas Station – So Don’t Treat Me Like One!* <i>Mike Lucero, Western Petroleum</i> Plaza Ballroom E	Creative Options for Site Reporting and Closure <i>Marybeth Glaser, Virginia DEQ</i> Plaza Ballroom F	Legal Updates <i>Chuck Schwer, Vermont DEC</i> Governor’s Square 15	TPH, Leave No Hydrocarbon Behind <i>Gary Lynn, New Hampshire DES</i> Governor’s Square 14
11:45-1:15	Luncheon – Plaza Ballroom ABC Moderator: Charles Reyes , Senior Staff Associate, Association of State and Territorial Solid Waste Management Officials Speaker: Teresa Alleman , Senior Chemist, National Renewable Energy Laboratory			
1:30-5:00	Manufacturing Tour: Eaton Metal Products Company and Geotech Environmental Equipment, Inc. – Meet at Registration Desk			
1:30-3:00	Bankruptcies, Mergers, Acquisitions, & Spin-Offs – Who Has the Ball?* <i>Carol Eighmey, Missouri PSTIF</i> Plaza Ballroom E	Getting Real with PVI <i>Tom Walker, U.S. EPA OUST</i> Plaza Ballroom F	Remember the Goal: Compliance – Mutual Understanding Helps to Get There, Pure Punishment Does Not <i>Larry Tichenor, Kentucky DEP</i> Governor’s Square 15	Brownfields <i>Steve McNeely & Robin Hughes-Parker, U.S. EPA OUST</i> Governor’s Square 14
3:00-3:30	Break – Visit the Exhibit Booths and Poster Session Area – Plaza Building Concourse Level			
3:30-5:00	PVI Screening Approaches* <i>Jeff Kuhn, Montana DEQ</i> Plaza Ballroom E	Compatibility and Operability of UST Systems with Alternative Fuels <i>Anne Marie Gregg, Battelle</i> Plaza Ballroom F	RP Searches <i>Susan Burnell, U.S. EPA OUST</i> Governor’s Square 15	Whirlwind Tour of Remediation Apps <i>Betty Lamp, Virginia DEQ</i> Plaza Ballroom D

Side Meetings:

9:30 a.m. – 10:30 a.m.

Petroleum Brownfields Office Hours

Location: *Governor’s Square 10*

*Session will be broadcast as a live webinar.

Agenda for Wednesday, September 18, 2013

7:00-10:00	Conference Registration/Information Desk Open – Plaza Building Concourse Level			
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Governor’s Square 17			
8:00-12:00	Exhibit Booths and Poster Session Area Open – Plaza Building Concourse Level			
8:00-9:30	Out of Sight, Out of Mind: How to Evaluate UST Usefulness, Management, and Compatibility <i>Brian Wiegert, PMMIC Insurance</i> Plaza Ballroom E	Advanced LNAPL Assessment II – Case Studies <i>John Menatti, Utah DEQ</i> Plaza Ballroom F	The Price Is Right – Or Is It? <i>Dorothy Malaier, Alabama DEM</i> Governor’s Square 15	States & U.S. EPA Meeting <i>Chuck Schwer, Vermont DEC</i> Governor’s Square 14
9:30-10:30	Exposition Raffle, Poster Session Area Open – Plaza Building Concourse Level			
10:30-12:00	Improved Inspections: Improved Compliance? <i>Therron Blatter, Utah DEQ</i> Plaza Ballroom E	Tribal Perspective: An UST/LUST View from Three Indian Nations <i>Pam Maples, Navajo Nation EPA</i> Plaza Ballroom F	How Lean Is Your Program? <i>Jennifer Steffes, Colorado DLE</i> Governor’s Square 15	NWGLDE’s 20th Anniversary – Where We Started, Where We Have Been, and Where We Are Today <i>Helen Robbins, Connecticut DEEP</i> Governor’s Square 14
12:00	Adjourn			

Side Meetings:

12:00 p.m. – 5:00 p.m. National Work Group on Leak Detection Evaluations Location: *Governor’s Square 10*
 1:30 p.m. – 5:00 p.m. Technical Forum on Fuel in Groundwater Location: *Governor’s Square 11*

Thursday Meetings, September 19, 2013

8:00 a.m. – 5:00 p.m. National Work Group on Leak Detection Evaluations Location: *Governor’s Square 10*

Friday Meetings, September 20, 2013

8:00 a.m. – 12:00 p.m. National Work Group on Leak Detection Evaluations Location: *Governor’s Square 10*

Improvements to In-Situ Remediation Projects Using Advanced 3D Site Characterization Technologies Workshop

Sunday, September 15, 1:00 p.m. to 5:00 p.m.

Location: Governor's Square 10

Presented by: **John Fontana**, President/CEO, Vista GeoScience, LLC; **John Sohl**, CEO, COLUMBIA Technologies

There are many types of ex-situ and in-situ remediation technologies available to remediate soil and groundwater contamination from petroleum or solvent releases. If the treatment chemicals do not contact the contaminant, obviously, no remediation occurs. This workshop will present current advanced technologies for 3D site characterization and in-situ remediation along with many lessons learned in the past decade from applying these techniques. A video of a model demonstrating back-diffusion issues will be presented. A number of other animations will demonstrate both improper and proper injection applications.

Basic and Advanced Laser-Induced Fluorescence Data Interpretation Workshop

Sunday, September 15, 1:00 p.m. to 5:00 p.m.

Location: Governor's Square 11

Presented by: **Randy St. Germain**, President, Dakota Technologies, Inc.

This workshop will enable the participant to intelligently interpret rapid, ultra-violet, and tar-specific optical screening tool laser-induced fluorescence (LIF) data. The workshop will cover the basic concepts of LIF screening tools in a logical manner using easy-to-understand terminology. The instructor will walk participants through a wide variety of more complex and exotic phenomenon that can play a role in interpreting LIF data. Participants are encouraged to bring their own LIF logs (.bin files) to review with the instructor.

Unravel the Mysteries of Cathodic Protection Workshop

Sunday, September 15, 1:00 p.m. to 5:00 p.m.

Location: Governor's Square 12

Presented by: **Lorri Grainawi**, Director of Technical Services, Steel Tank Institute; **Kevin Henderson**, President, Kevin Henderson Consulting, LLC

This workshop is a quick class to unravel the mysteries of cathodic protection. Using examples, the participants will learn how to make basic CP testing easy. The workshop will present real-world examples of CP tests showing what's wrong, and more importantly, how the testing should have been done and recorded. Demonstrations will be given using actual CP testing equipment, which participants will be encouraged to try for themselves. Participants will be asked to send their own unsolved mysteries before the class for advice. The first 5 examples received will be used as workshop examples.

LORAX Animated Information Systems for Site Assessment and Remediation Workshop

Sunday, September 15, 1:00 p.m. to 3:00 p.m.

Location: Governor's Square 15

Presented by: **Curtis Stanley**, Global Discipline Leader, Shell Global Solutions

The Shell/LORAX Animated Information System (AIS) has been designed to provide non-specialists with a basic conceptual understanding of hydrogeology, including groundwater occurrence and flow, contaminant migration, site assessment, and remediation. This tool is useful to site project managers, consultants, regulators, educators, business managers, and other stakeholders. The AIS focuses on gasoline releases associated with underground storage tank systems; however, this material has broader applicability. The information provided in this tool is general in nature. Conditions at any particular site are specific to that site and must be reasonably understood to make informed decisions. The AIS is designed to help non-subject matter experts understand basic aspects of: hydrogeology including groundwater flow in the subsurface, unconfined/confined aquifers, aquitards, perched zones, groundwater flow, contaminant migration (including key processes that affect contaminant migration) as well as LNAPL considerations, site investigation, groundwater vulnerability, various remediation technologies and considerations, generic spill response, and UST systems (suction and pressurized systems). There are 6 major modules consisting of 1) hydrogeology, 2) concepts, 3) vulnerability, 4) remediation, 5) generic spill response, and 6) tanks. Each module contains hidden buttons that the user can use (or not use) depending upon the audience. The inclusion of the modules and hidden buttons helps the user tailor the presentation to a particular audience.

Pre-Conference Workshops / Sunday, September 15, 2013

Responsible Party Search Training Workshop

Sunday, September 15, 1:00 p.m. to 3:00 p.m.

Location: Governor's Square 16

Presented by: **Susan Burnell**, Environmental Protection Specialist, U.S. EPA OUST; **Nina Kondos**, Retired Senior Enforcement Officer, Arizona DEQ

This training session will provide a detailed overview of the RP search process. There will be an opportunity to work through some of the complex issues that can arise during RP searches. Nina Kondos is a retired senior enforcement officer from the Arizona Department of Environmental Quality. Nina will use real-time access to Internet resources and case studies to demonstrate a simplified step-by-step process to identify responsible parties (RPs) and their assets. Nina will focus on the common Internet resources available to conduct location and asset searches no matter what state or federal agency you work for.

Soil Gas Analysis for Monitoring Wells Workshop

Sunday, September 15, 1:00 p.m. to 5:00 p.m.

Location: Governor's Square 17

Presented by: **George DeVaul**, Principal Technical Expert, Shell Global Solutions; **Ken Jewell**, Environmental Scientist, U.S. EPA ORD; **Jeffrey Kuhn**, LUST Brownfields Section Chief, Montana DEQ; **John Menatti**, Manager, Petroleum Storage Tank Trust Fund, Utah DEQ; **Christopher Ruibal**, Student Services Contractor, U.S. EPA ORD; **John Wilson**, Research Microbiologist, U.S. EPA ORD

This workshop will introduce staff of state agencies to a new approach to screen their sites for PVI. The approach is simple and easy to implement, minimizes the cost of evaluating PVI, and incorporates a new understanding of the major role played by biological degradation of petroleum vapors. Participants in the workshop will be provided with nomograms that predict the attenuation factor between concentrations of contaminants at the source and the concentration in indoor air.

Best Management and Technical Practices for Assessment and Remediation Workshop

Sunday, September 15, 3:15 p.m. to 5:00 p.m.

Location: Governor's Square 15

Presented by: **Steve Dymont**, Physical Scientist, U.S. EPA OSRTI

This interactive 2 hour session will provide an overview of best practices associated with site characterization such as use of a conceptual site model life cycle, direct sensing tools, collaborative data sets, and high resolution site characterization techniques. In addition, the session will review commonly used and innovative strategies to optimize remediation at petroleum contaminated sites.

Table-Top Leak Scene Investigation Workshop

Sunday, September 15, 3:15 p.m. to 5:00 p.m.

Location: Governor's Square 16

Presented by: **Michael Pomes**, Environmental Scientist, U.S. EPA Region 7

The objective of this workshop is to have participants examine line leak detection equipment taken from a LUST site and work with multiple sources of information to determine the cause of the release. Participants will have the opportunity to conduct a table-top leak scene investigation. Material and media presented in the workshop will help participants reach conclusions about the timing of the release, what equipment ultimately failed, and the circumstances that contributed to a release of 4,000 gallons of gasoline to a submersible pump sump. Registration for this workshop will be capped at 25 participants!

Session Abstracts / Monday, September 16, 2013

8:00 a.m. - 10:00 a.m.

Breakfast Plenary, Plaza Ballroom ABC

Ellen Golombek, Executive Director, Colorado Department of Labor and Employment; **Shaun McGrath**, Regional Administrator, U.S. Environmental Protection Agency Region 8; **Warren Roan**, Environmental Specialist, Navajo Nation EPA; and **Carolyn Hoskinson**, Director, Office of Underground Storage Tanks, U.S. Environmental Protection Agency

Moderated by **Tom Groves**, Director of Wastewater & On-Site Programs, New England Interstate Water Pollution Control Commission

10:30 a.m. - 12:00 p.m.

Do You Know Your Tanks?, Plaza Ballroom E

We spend a lot of our time reviewing the latest equipment, release detection, corrosion protection, and new regulations. But, it is important to not overlook the core of our regulated equipment: the tank and the piping. This session will cover the standards to which tanks are built and how they are built and monitored. In addition, new options are available for tank linings and upgrades, including the new UL 1856. Tank Tech will discuss the different "classes" and how they differ. The Steel Tank Institute and the Fiberglass Tank and Pipe Institute will discuss construction standards for their tank systems and how they can be monitored.

Sully Curran, Executive Director, Fiberglass Tank & Pipe Institute; **Wayne Geyer**, Executive Vice President, Steel Tank Institute; **Johnathan McNeeley**, Director of Corporate Communications, Tank Tech; Moderated by **Roland Riegel**, Primary Designated Engineer, Underwriters Laboratories

Advanced Site Characterization, Plaza Ballroom F

Thorough site characterization is critical to the success of a petroleum remediation project as it leads to targeted remediation, better selection of a remedial approach, and ultimately shorter time to cleanup and less money expended on overall project costs. Characterization methods have evolved over the years from staged monitoring well installation and field geologist boring log interpretation to real-time data measurement tools and 3D modeling. This session will focus on advancements in characterization technology and strategies including LIF, MIP, Hydraulic Profiling Tool, and High Resolution Sampling. Additionally, a case study will be presented to demonstrate how some of these applications were utilized to characterize a recent release and aid in the selection of a targeted remedial approach.

John Fontana, President/CEO, Vista GeoScience, LLC; **Randy St. Germain**, President, Dakota Technologies, Inc.; **Scott Wisher**, Rocky Mountain Regional Manager, Vironex, Inc.; Moderated by **Erik Gessert**, Petroleum Remediation Supervisor, Colorado OPS

States Only Meeting, Governor's Square 15

This meeting is for state managers only. This will be an interactive session where audience participation will be required. An update will be provided on the status of projects being undertaken by states through ASTSWMO. Results of the draft CORE report will be shared. Managers will be asked to break-out into UST, LUST and State Funds to discuss important issues. A summary of important outcomes from this meeting will be shared with EPA.

Moderated by **Chuck Schwer**, Section Chief, Vermont DEC

Tribal Only Meeting, Governor's Square 14

This meeting is for the 566 Federally Recognized Tribes to formulate any questions and concerns for the EPA to address in a later meeting. Tribal employees are invited to discuss UST issues and share their successes and the obstacles they face with other Tribes.

Moderated by **Randy Bettelyoun**, UST/LUST Coordinator, Oglala Sioux Tribe Environmental Protection

1:30 p.m. - 3:00 p.m.

Advanced LNAPL Assessment I, Plaza Ballroom E

LUST sites with LNAPL (free product that drains into monitor wells) are technically and regulatorily difficult to deal with. Federal LUST Regulations mandate that free product be removed to the maximum extent practicable, as determined by the implementing agency. Implementing agencies (state and local regulators) have various interpretations of what "removal of free product to the maximum extent practicable" means. Some states require removal of free product to pre-spill conditions which is difficult and expensive. Other states will close LUST sites with free product in place if there are no risks to human health, free product has been removed to the maximum extent practicable, and the contamination will naturally attenuate in a reasonable period of time. This session will present new technologies for characterizing LNAPL sites, determining "maximum extent practicable" and estimating LNAPL natural attenuation.

Andrew Kirkman, Technical Specialist, BP; **Keith Piontek**, Program Manager, TRC Environmental Corporation; **John Sohl**, CEO, COLUMBIA Technologies; Moderated by **John Menatti**, **Petroleum Storage Tank Trust Fund Manager, Utah DEQ**

Seeking What's Leaking, Plaza Ballroom F

With today's heavy throughputs, an UST release can quickly become costly. This session uses interactive graphics, case studies, and some legal teeth to tackle the causes and consequences of serious spills. Bill Jones and Randy Collins use a tablet controlled 3-D depiction of a typical high traffic location to show where tank problems take place; and the model may be made available. Colorado's Mahesh Albuquerque will join with Jeff Kuhn from Montana to critique two tough leaks where ethanol is involved. And David Walters shows how when the right facts are established, others may have to pay the cost to cleanup.

Mahesh Albuquerque, Director, Colorado OPS; **Randy Collins**, Vice President of Technology and Development, Warren Rogers Associates, Inc.; **William Jones**, President, Warren Rogers Associates, Inc.; **Jeffrey Kuhn**, LUST Brownfields Section Chief, Montana DEQ; **David Walters**, Senior Claims Manager, Williams Co. Consulting/MO PSTIF; Moderated by **Mahesh Albuquerque, Director, Colorado OPS**

Who Pays?, Governor's Square 15

This session will go over how to determine "ability to pay" for non-accountants. In the current economic downturn, the issue of determining whether a responsible party can afford to pay for required compliance and/or remediation activities is of growing concern. UST/LUST managers know what needs to be done at a site but finding the money to do it can be out of their skill set. How does an UST/LUST regulator go about determining if the RP really can't afford to pay? Leo Mullin, retired cost recovery expert with EPA R3, will present a primer on determining ability to pay for responsible parties. Mullin will present the basics of what financial information should be requested, sources of financial information from the less than cooperative RP, how to review the information, and what to do with the answers you find.

Leo Mullin, Cost Recovery Expert, U.S. EPA Region 3; Moderated by **Tara Rosie**, **UST Corrective Action Section Manager, Arizona DEQ**

Tribal & U.S. EPA Meeting, Governor's Square 14

This is an opportunity for the 566 Federally Recognized Tribes and EPA to share ideas, get to know each other, and respond to issues on Tribal Lands.

Moderated by **Randy Bettelyoun**, **UST/LUST Coordinator, Oglala Sioux Tribe Environmental Protection** and **Carolyn Hoskinson**, **Director, U.S. EPA OUST**

3:30 p.m. - 5:00 p.m.

Operation, Maintenance, and Inspection of UST System Release Detection and Prevention Equipment, Plaza Ballroom E

This session will cover the standards for evaluating UST system components, remote monitoring system capabilities and challenges, and the importance of manual periodic overfill device inspections.

Kevin Henderson, President, Kevin Henderson Consulting, LLC; **Jon Marinas**, President & CEO, JMM Global; **Spruce Wheelock**, Inspector, New Hampshire DES; Moderated by **Tracie Donaldson**, Environmental Engineer, U.S. EPA Region 6

Innovative Clean-Up Technologies: It's a Whole New Game, Plaza Ballroom F

This session will focus on three new promising cleanup technologies. Our first speaker will present a success story from Santa Fe, NM using a thermally enhanced remedial approach on several co-mingled sites. Our second speaker from Colorado will present on several case studies using archaea microbes and expand on lessons learned. Our third speaker from Kentucky will be speaking on BOS200 remedial approach and the success they have been seeing at a score of sites. This presentation will also have some cost comparison data. All of these newer innovative technologies can be new ammunition to use on cleanups of LUST sites.

Duane Guilfoil, Vice President, AST Environmental, Inc.; **Brett Redd**, President, Storage Tank Technology, Inc.; **Susan von Gonten**, Project Manager, New Mexico ED; Moderated by **Richard Spiess**, Environmental Analyst V, Vermont DEC

Then & Now, Governor's Square 15

Much has happened to the world of underground storage tanks in the last 25 years. For many who have been around since the beginning, it may be hard to imagine the level of detail we now pay attention to on equipment, maintenance and management. For those just joining us, it may be hard to imagine a UST universe without secondary containment and operator training. The goal of this session is to help create a historical perspective on where we've been, examine the challenges and benefits of new rules, and consider what may be coming our way. Speakers will discuss how the landscape of UST use, technology, and ownership has dramatically changed since 1988; share observations about how the 2005 Energy Policy Act has begun moving UST compliance in a new direction, including successes and challenges created for inspectors; and finally share some ideas about what may be in store for us all, regulator and regulated alike, based on forecasted industry trends.

Matthew LeLacheur, Corporate Counsel, ECS, Inc.; **Kevin Strohmeier**, Environmental Inspector, Kentucky DEP; **Ted Unkles**, UST Program Coordinator, Vermont DEC; Moderated by **Ben Thomas**, Partner, USTtraining.com

Fund Soundness, Governor's Square 14

The session will begin with EPA providing their perspective of the Fund Soundness process and results. EPA will discuss the high level perspective on what they are trying to achieve with the Fund Soundness evaluation and where they would like to get to with the evaluation for 2013. EPA will also provide detail on some of the nuances and challenges, and lessons learned from the 2012 evaluation that may be incorporated in the 2013 evaluation. This discussion will be followed by State Fund Managers from Georgia, Massachusetts, and Colorado providing their perspective of what worked with the Fund Soundness process and what did not work with the Fund Soundness process, and any changes they would recommend going forward. Audience participation is encouraged with additional State Fund Managers providing their own unique perspectives on the Fund Soundness process.

Will Anderson, Acting Director of the Cleanup and Revitalization Division, U.S. EPA OUST; **Jane Brai**, State Fund Section Supervisor, Colorado OPS; **Bill Foskett**, Environmental Protection Specialist, U.S. EPA OUST; **Kevin Horrigan**, Environmental Engineer, Massachusetts DOR; **Darnell Manning**, Program Manager, Georgia DNR; Moderated by **David Chambers**, Petroleum Remediation Section Supervisor, Nebraska DEQ

8:00 a.m. - 9:30 a.m.

Fuel Additives and DEF, Plaza Ballroom E

As a result of shifting marketing strategies, regulation changes, and a highly competitive retail atmosphere, an increasing number of underground storage tank systems are including blending and/or storage of fuel additives and diesel exhaust fluid. This session's presenters will discuss varied approaches to storing, handling, and dispensing these products, which often introduce system components and compatibility concerns that may be foreign to inspectors, contractors, and regulators. This session will provide clarification regarding the regulatory status of these compounds and common system configurations.

Atul Badwal, Senior Vice President, Additech, Inc.; **Tim Hurlocker**, Director of Fuel Quality and Compliance, Costco Wholesale; **Danny Opie**, President, Opies Transport, Inc.; Moderated by **Don Gilson**, Principal, **Gilson Environmental**

Remediation Process Optimization, Plaza Ballroom F

Backlog reduction got you down? Legacy sites making you crazy? LNAPL mystifying you? Is that what's bothering you, Bunky? Then step right up and attend this site optimization session! Hear experts discuss the seven reasons clean-ups fail and how to avoid them. Learn about assessing LNAPL in the field now for better remediation decisions later. Experience site optimization strategies to ensure that your systems are doing more than making noise and spending money. The site optimization session- a rare medium well-done!

William Benni, President, Improved Analysis through Modeling, LLC; **Chris Pearson**, Senior Environmental Engineer, AECOM; **Chuck Whisman**, Chief Technical Officer, Groundwater & Environmental Services, Inc.; **Elizabeth Wolff**, Hydrologist, Delaware DNREC; Moderated by **Stephen Reuter**, **Geologist Manager, New Mexico ED**

To LUR or Not to LUR/Low-Risk Closure, Governor's Square 15

In this session we will hear from three states concerning low-risk site closure and the need for land use restrictions (LURs). Virginia will discuss its closure policy and will take a look at past cases. The audience will hear why it is critical to conduct sufficient site characterization. Colorado will discuss how they are closing low risk sites without covenants. They will review what specific criteria Colorado uses for determining low-risk site closure. Lastly, Utah will discuss how to close sites with institutional controls and will share what they do to evaluate sites with residual LNAPL. Audience participation will be encouraged.

Mahesh Albuquerque, Director, Colorado OPS; **John Menatti**, Petroleum Storage Tank Trust Fund Manager, Utah DEQ; **Alexander Wardle**, Environmental Geologist, Virginia DEQ; Moderated by **Chuck Schwer**, **Section Chief, Vermont DEC**

Whirlwind Tour of Compliance Apps, Plaza Ballroom D

Join us in a rapid overview of computer applications designed to assist UST compliance programs. Using a "speed dating" format, get a quick look at several automated tools with time to ask questions at the end.

Suzan Arfman, GIS Analyst, New Mexico ED; **Patrick Duggan**, Owner, Duggan Energy Group; **Trey Morgan**, Senior Technical Adviser, South Carolina DHEC; **Rick Saathoff**, Environmental Scientist, Utah DEQ; **David Wilson**, Environmental Scientist, Utah DEQ; Moderated by **Zach Hope**, **Petroleum Compliance Supervisor, Colorado OPS**

10:00 a.m. - 11:30 a.m.

I'm Not a Gas Station – So Don't Treat Me Like One!, Plaza Ballroom E

We focus much of our training and attention on gas stations, truck stops and other retail vendors, but many of our regulated facilities are not your typical gas station. Hospitals and other emergency generator sites, fleet facilities, city bus barns, and military facilities often have unique equipment and unusual system configurations. This session will take a look at some of the issues associated with these sites.

Murray Brown, Oil Inspector, Colorado OPS; **Heather Peters**, Environmental Specialist, Missouri DNR; **Marcia Poxson**, Engineer, Michigan BFS; Moderated by **Mike Lucero**, Manager, Western Petroleum

Creative Options for Site Reporting and Closure, Plaza Ballroom F

This session will talk about completing site reporting in the digital age. The first part of this session will present Colorado's newly developed standard electronic report formats and will provide illustrations of its organization, flexibility, and use. The submission of reports electronically eliminates the management of paper copies, their storage, thus saving time and money. The session will also cover evaluating free product and low-threat sites for case closure. Both California and Virginia have developed unique paths for overcoming obstacles in cleaning up sites as a strategy for reducing case backlog. The second part of this session will present these two risk-based policies for closing sites that have limited risk to the environment.

Randy Chapman, Senior Geologist, Virginia DEQ; **Tom Fox**, Environmental Protection Specialist, Colorado OPS; **Kevin Graves**, UST Program Manager, California SWRCB; Moderated by **Marybeth Glaser**, Reimbursement Team Coordinator, Virginia DEQ

Legal Updates, Governor's Square 15

In this session we will get the latest updates on court cases involving the UST, LUST, and State Fund programs across the country.

William Alpine, Corporate Counsel, Environmental Compliance Services, Inc.; **Perry Theriot**, Supervising Attorney, Louisiana DEQ; Moderated by **Chuck Schwer**, Section Chief, Vermont DEC

TPH, Leave No Hydrocarbon Behind, Governor's Square 14

This session will examine the value of TPH analyses as a cost effective tool for assessing risks, for measuring petroleum impacts, and for evaluation of the potential for LNAPL mobility. The first speaker will provide an overview of how states are using TPH testing and how recent toxicological information has been used to make TPH results useful in risk-based decision making. The second speaker will discuss a vapor intrusion study completed by Hawaii. In this study, Hawaii evaluated benzene versus TPH for use as a stand-alone screening tool for the potential for vapor intrusion risks and found that for releases of diesel, middle distillate, and low-benzene gasoline, TPH was a better risk screening tool than benzene. The final speaker from Massachusetts will summarize his state's approach to using TPH standards. He will describe the toxicological, analytical, and regulatory basis for segmenting TPH into aliphatic and aromatic compounds and the key issues and lessons learned over 15 years of implementing this approach.

John Fitzgerald, Environmental Engineer, Massachusetts DEP; **Josh Nagashima**, Environmental Health Specialist, Hawaii DOH; **Nicholas Santella**, Hydrogeologist, Brownfields Science & Technology; Moderated by **Gary Lynn**, Petroleum Remediation Section Supervisor, New Hampshire DES

Session Abstracts / Tuesday, September 17, 2013

11:45 a.m. - 1:15 p.m.

Luncheon, Plaza Ballroom ABC

Teresa Alleman, Senior Chemist, National Renewable Energy Laboratory

Moderated by **Charles Reyes**, Senior Staff Associate, Association of State and Territorial Solid Waste Management Officials

1:15 p.m. - 5:00 p.m.

Manufacturing Tour: Eaton Metal Products Company and Geotech Environmental Equipment, Inc., Meet at Registration Desk

1:30 p.m. - 3:00 p.m.

Bankruptcies, Mergers, Acquisitions, & Spin-Offs - Who Has The Ball?, Plaza Ballroom E

UST/LUST regulators and tank fund managers know a lot about UST rules, but few are experts at business law or bankruptcy. When a UST owner/operator or site owner files bankruptcy, dissolves a corporation, or merges with or is purchased by another business - what does that mean? How does it affect your efforts to administer and enforce UST/LUST requirements? Is anyone still liable to comply or cleanup? How do you know who's who? This session offers practical help for these situations and will include time for your specific questions about "problem files" in your portfolio. Come learn and participate!

Kimberly Fedinatz, Attorney, U.S. EPA OECA; **Thomas Schruben**, Partner, American Cost Recovery Management, LLC; Moderated by **Carol Eighmey**, Executive Director, Missouri PSTIF

Getting Real with PVI, Plaza Ballroom F

Much has happened in the world of Petroleum Vapor Intrusion (PVI) over the past few years. The presentations in this session will bring you up to speed in a few of those areas: 1) Update on the EPA OUST PVI Guidance, 2) Update on the ITRC PVI Technical/Regulatory Guidance, and 3a/3b) A tag-team update presentation on PVI modeling "BioVapor" and "PVI Screen".

George DeVault, Principal Technical Expert, Shell Global Solutions; **John Menatti**, Petroleum Storage Tank Trust Fund Manager, Utah DEQ; **Tom Walker**, Environmental Protection Specialist, U.S. EPA OUST; **Jim Weaver**, Research Hydrologist U.S. EPA ORD; Moderated by **Tom Walker**, Environmental Protection Specialist, U.S. EPA OUST

Remember the Goal: Compliance - Mutual Understanding Helps to Get There, Pure Punishment Does Not, Governor's Square 15

This session will take an in-depth look at the enforcement process in Colorado and then will discuss the overview of enforcement processes of other states across the nation.

Leslie Carr, Energy Act Coordinator, Kentucky DEP; **Bobby Sonnier**, Enforcement Coordinator, Colorado OPS; Moderated by **Larry Tichenor**, Environmental Control Supervisor, Kentucky DEP

Brownfields, Governor's Square 14

Is your program under appreciated? Come learn how petroleum brownfields can be a BOOST to your tanks program! Hear from experts who have gained access to new and varied sources of funding to help clean up and revitalize underground storage tank sites. Discover how community revitalization can bring essential recognition and publicity to the good work your environmental program does for the public. Yes, it takes extra coordination and a change in perspective, but you can accomplish amazing things - and get credit for them! And what's more important in today's budget climate than proving your worth? We will discuss successful examples and salient lessons learned that will help you customize your coordination on petroleum brownfields.

Mahesh Albuquerque, Director, Colorado OPS; **David Doyle**, Sustainable Communities Coordinator, U.S. EPA Region 7; Moderated by **Robin Hughes Parker**, Environmental Protection Specialist, U.S. EPA OUST and **Steven McNeely**, Environmental Protection Specialist, U.S. EPA OUST

3:30 p.m. - 5:00 p.m.

PVI Screening Approaches, Plaza Ballroom E

Understanding when and why the PVI pathway may be complete has become a critical part of LUST site investigations. Robin Davis will present an evaluation of field data from hundreds of PVI investigations that were compiled in a Petroleum Vapor Database. Analysis of the data shows that vapors associated with even very strong sources attenuate with a few feet of clean surrounding soil. Dr. John Wilson will introduce a new approach to screen sites for PVI using conventional monitoring wells. He will illustrate this new approach through data collected at the former Hal's Chevron in Green River, Utah. At the site, five multi-depth soil vapor monitoring wells are located near eight conventional ground water monitoring wells allowing for a side-by-side comparison of PVI screening methods.

Robin Davis, Environmental Scientist, Utah DEQ; **John Wilson**, Research Microbiologist, U.S. EPA ORD; Moderated by **Jeff Kuhn**, **LUST Brownfields Section Chief, Montana DEQ**

Compatibility and Operability of UST Systems with Alternative Fuels, Plaza Ballroom F

New fuels and fuel blends will provide challenges and opportunities with the compatibility and operability of UST systems. This session will explore some of these issues.

Mahesh Albuquerque, Director, Colorado OPS; **Mike Kass**, Engineer, Oak Ridge National Laboratory; **Jeffrey Sowards**, Metallurgist, National Institute of Standards and Technology; Moderated by **Anne Marie Gregg**, **Principal Research Scientist, Battelle**

RP Searches, Governor's Square 15

This session will discuss the topic of responsible party searches. In the underground storage tank program, owners and operators are responsible for compliance with state and/or federal regulations governing UST systems, including operation, financial responsibility, corrective action, and proper closure. It is often difficult for states and EPA to address compliance and corrective action issues with the parties that are responsible because owner and/or operator information is not readily available. In addition, ownership issues are often complex. This session features two state speakers with considerable experience finding tank owners and operators. The session will cover the basic tools and processes used in UST RP searches. Nina Kondos will walk through her step by step process for identifying and finding RPs. Ruth Porter will discuss West Virginia's approach to RP searches.

Nina Kondos, Retired, Senior Enforcement Officer, Arizona DEQ; **Ruth Porter**, UST Program Manager, West Virginia DEP; Moderated by **Susan Burnell**, **Environmental Protection Specialist, U.S. EPA OUST**

Whirlwind Tour of Remediation Apps, Plaza Ballroom D

Join us in a rapid-paced overview of computer applications designed to assist remediation programs. Using a "speed dating" format, get a quick look at several automated tools with time to ask questions at the end.

Michael Martinson, Senior Consultant, Antea Group USA; **Ellen Peneguy**, Senior Records Analyst, Access Sciences Corporation; **Curtis Stanley**, Global Discipline Leader, Shell Global Solutions; **Jim Weaver**, Research Hydrologist, U.S. EPA ORD; Moderated by **Betty Lamp**, **Director of the Office of Spill Response & Remediation, Virginia DEQ**

8:00 a.m. - 9:30 a.m.

Out of Sight, Out of Mind: How to Evaluate UST Usefulness, Management, and Compatibility, Plaza Ballroom E

This session will discuss how to evaluate old tanks. The first presentation will present an overview of methods of inspecting fiberglass tanks, including remote visual inspection and deflection measurements. This presentation will include video samples and still photos from inspections of UST's showing blistering, delamination, cracking, and other forms of degradation. It will also include an overview of the types of problems that have been discovered and in what geographic areas. The second presentation will include a discussion of the degradation of steel and fiberglass tanks and what steps can be taken to resolve the problems that have been discovered. This will include a discussion of various types of lining and repair technologies. The third presenter will be a tank owner/operator discussing their experiences of how to evaluate older tank systems, including the assessment and repair of the tanks.

Brad Hoffman, Vice President of Engineering and R&D, Tanknology; **Scott Johnson**, Region Gasoline Environmental Compliance Manager, 7-Eleven, Inc.; **Dan Wilson**, Director of Business Development, NW Tank Lining & Inspection, Inc.; Moderated by **Brian Wiegert**, Vice President, PMMIC Insurance

Advanced LNAPL Assessment II - Case Studies, Plaza Ballroom F

Three LNAPL case studies will be presented in this session. The first case study will present how inadequate LNAPL characterization and LNAPL removal contributed to a small gas station site in Iowa remaining an open LUST site for over 20 years. Information on LIF and product forensic analyses will also be presented. The second case study will present the latest information on LIF, LNAPL transmissivity testing, and LNAPL mass depletion testing (both CO₂ and methane flux methods) at the USGS LNAPL research site in Bemidji, Minnesota. The third case study will present information on the investigation and behavior of LNAPL in a saprolite aquifer at a bulk fuel storage site in South Carolina.

Ruth Hummel, Environmental Specialist Senior, Iowa DNR; **Don Lundy**, Principal Hydrogeologist, Groundwater & Environmental Services; **Chris Mulry**, Principal Hydrogeologist, Groundwater & Environmental Services, Inc.; Moderated by **John Menatti**, Petroleum Storage Tank Trust Fund Manager, Utah DEQ

The Price Is Right - Or Is It?, Governor's Square 15

Whether from state funds or LUST trust funds, issuing proper payment for actual work performed and for the actual cost can be challenging for state fund and grant managers. States have discovered some consultants and site owners improperly increase billings, stretch out the project, or submit fraudulent bills. How can you discover these overcharges? Are the invoices real? Is the remediation moving along at the correct pace, or is it being purposely extended to increase billings? Has my state been a victim of waste, fraud, or abuse? This session features speakers who have experienced consultants improperly invoicing firsthand and who will tell how they "caught them red-handed." There will then be an open discussion of your recent experiences, so come prepared with your fund or grant examples.

Carol Eighmey, Executive Director, Missouri PSTIF; **Kimberly Sellards**, Chief of Fraud, Waste, and Abuse Prevention Unit, California SWRCB; Moderated by **Dorothy Malaier**, Environmental Manager, Alabama DEM

States & U.S. EPA Meeting, Governor's Square 14

This session is an interactive meeting between EPA and the states. A list of issues and topics will be developed in a state managers' meeting on Monday. These topics will be reviewed and discussed in this session.

Moderated by **Chuck Schwer**, Section Chief, Vermont DEC

9:30 a.m. - 10:30 a.m.

Expo Raffle and Poster Session, Plaza Building Concourse Level

This year's National Tanks Conference will feature an exhibitor prize raffle! Each attendee will receive a card with all of our exhibitors' names when they register. Attendees will need to have each exhibitor sign their raffle card. Once an attendee has visited each of our exhibitor booths, and received the necessary signatures, they will be entered into a raffle to win prizes from exhibiting companies. Prizes include gift cards, wine baskets, computer bags, plus much more! Attendees must be present during the raffle to win. Exhibitors are not eligible to win.

10:30 a.m. - 12:00 p.m.

Improved Inspections: Improved Compliance?, Plaza Ballroom E

Changes to the UST Program required by the Energy Policy Act of 2005 have greatly increased the effort given to on-site inspections. Since the three year inspection requirement was implemented in 2007, approximately 100,000 facility inspections have been completed across the nation each year. This session will look at the common findings of compliance inspections and consider things that can be done to improve compliance and make the inspection process more efficient and effective. In addition, with EPA's proposed regulations including the requirement for periodic operation and maintenance walk-through inspections, an Environmental Compliance Manager for a regional c-store chain will share her experience with monthly walk-through inspections and will demonstrate the potential for improved operations for tank owners.

Todd Thompson, Petroleum Storage Tank Team Leader, Texas CEQ; **Ted Unkles**, UST Program Coordinator, Vermont DEC; **Jennifer Washburn**, Environmental Compliance Manager, Applied Petroleum Technologies; Moderated by **Therron Blatter**, UST Branch Manager, Utah DEQ

Tribal Perspective: An UST/LUST View from Three Indian Nations, Plaza Ballroom F

Indian nations and states have worked closely with EPA to build strong UST programs protecting vital land and water resources. And much like the various similarities and differences seen in the state programs, the Indian nations UST programs also have their unique qualities. The National Tanks Conference covers many state accomplishments, and in Denver, you can learn more on the work of the tribal UST programs as well. Our moderator for this session, Patricia Maples will describe the unique importance of water conservation to the Navajo Nation. Henry Haven will follow her; outlining new cleanup standards the Navajo have forged with EPA to honor their tribal commitment to the land. Kevin Brackney's case study; forecasting future cleanup needs from groundwater chemistry data, reflects the high value placed by the Nez Perce in using technical tools to pry for answers. Lastly, Levi Lementino, with the Pueblo Zuni, along with John Kovacs of New Mexico's Petroleum Storage Tank Bureau, will spotlight project management trends through a partnership between the Zuni Nation and the State of New Mexico to address a large UST release. Conclude your Denver experience with these interesting accomplishments from three Indian Nations.

Kevin Brackney, Groundwater Program Leader, Nez Perce Tribe; **Henry Haven**, Principal Hydrologist, Navajo Nation EPA; **John Kovacs**, Senior Geoscientist, New Mexico ED; **Levi Lementino**, Project Officer, Pueblo of Zuni Environmental Protection Program; **Pam Maples**, Environmental Specialist, Navajo Nation EPA; Moderated by **Pam Maples**, Environmental Specialist, Navajo Nation EPA

How Lean is Your Program?, Governor's Square 15

Recent fiscal challenges have most businesses and government agencies looking for ways to improve their processes and operate more effectively and efficiently. Some states have chosen to employ the Lean methodology, which focuses on eliminating waste from processes. In this session we will hear from three states. Virginia and Colorado will share their experiences utilizing the Lean methodology. A third state, Oregon, will present their success with process improvement efforts, where Lean was not employed and the results were also positive.

Jane Bral, State Fund Section Supervisor, Colorado OPS; **Alicia Meadows**, UST Operator Training/Compliance Coordinator, Virginia DEQ; **Cathy Rodda**, Natural Resource Specialist, Oregon DEQ; Moderated by **Jennifer Steffes**, Environmental Protection Specialist, Colorado DLE

NWGLDE's 20th Anniversary - Where We Started, Where We Have Been, and Where We Are Today, Governor's Square 14

At this session, National Work Group on Leak Detection Evaluation (NWGLDE) members will recall how the work group got started, the activities of the group over the 20-year period the group has been in existence and how the mission of the Work Group has evolved to meet the changing demands of the industry and states. NWGLDE Chairman, Curt Johnson, will describe the beginnings of the organization from a bold concept to what has become an institution on the leak detection landscape. Original NWGLDE member, Lamar Bradley, will talk about the many ways the NWGLDE has changed in response to ever-changing leak detection methodology and emerging technologies in the leak detection field. Heather Peters will describe the impact and challenges that alternative fuels are having on the leak detection industry and what the NWGLDE is doing to meet those challenges. Finally, Tim Smith will talk about the state of leak detection technology today, challenges facing the NWGLDE today concerning Secondary Containment, how Secondary Containment has impacted the leak detection industry, and how it will continue to affect the industry and the NWGLDE.

Lamar Bradley, NWGLDE Vice-Chair, Tennessee DEC; **Curt Johnson**, NWGLDE Chair, Alabama DEM; **Heather Peters**, NWGLDE Member, Missouri DNR; **Tim Smith**, NWGLDE Member, U.S. EPA OUST; Moderated by **Helen Robbins**, NWGLDE Member, Connecticut DEEP

Poster Sessions

Don't miss the walking poster sessions hosted by noted U.S. 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, September 16

- Welcome Reception: 5:00 PM - 7:00 PM

Wednesday, September 18

- Expo Raffle: 9:30 AM – 10:30 AM

During all breaks

Poster Session Moderators:

Matt Small, U.S. EPA Region 9

Jim Weaver, U.S. EPA ORD

Characterization

A Flowtube Discharge and Mass Depletion Model for Testing LNAPL Source Zone Stability at a Crude Oil Pipeline Release Site, Don Lundy, Groundwater & Environmental Services, Inc., dlundy@gesonline.com

Challenges to Defining Petroleum Contaminant Distribution in Karst Geology, Ray Boyle, The Well Improvement Company, ray@well-improvement.com

Conceptual Site Model Driven by High Resolution Sampling, Scott Noland, Remediation Products, Inc., scott@trapandtreat.com

Constituents of Potential Concern for Human Health Risk Assessment of Petroleum Fuel Releases, Matthew Lahvis and George DeVaul, Shell Global Solutions, george.devaul@shell.com

Noninvasive Monitoring of Natural Attenuation at LNAPL Sites, Todd Halihan, Stuart W. McDonald, and Marcy Stonecipher, Oklahoma State University School of Geology, todd.halihan@okstate.edu

Clean Up

Closing the Gap: Tried and Proven Techniques for Reducing the LUST Backlog, Allison Forrest, Connecticut DEEP, allison.forrest@ct.gov

In Situ Chemical Oxidation – Considerations for Application at Active Facilities, Richard Evans, Groundwater & Environmental Services, Inc., revans@gesonline.com

Passive Measurement of CO₂ Soil Gas Flux to Estimate Hydrocarbon Natural Attenuation Rates at LNAPL Impacted Sites, Julio Zimbron, Kevin McCoy, Tom Sale, and Mark Lyverse, Colorado State University, jzimbron@rams.colostate.edu

Pat Ellis's Contributions to LUST Remediation: A Remembrance, Matthew Small, U.S. EPA Region 9, small.matthew@epa.gov

Wilson's Influence on LUST Site Assessment and Remediation, Matthew Small, U.S. EPA Region 9, small.matthew@epa.gov

Design Modification for a Successful In-Situ Remediation Using Sodium Persulfate: A Case Study, Nazmul Haque, District DOE, nazmul.haque@dc.gov

Fate and Transport

Adaptive Microbial Population Shifts in Response to a Continuous Ethanol Blend Release Increases Natural Attenuation Potential, Jie Ma, Carlos W. Nossa, Pedro J.J. Alvarez, Yi Zhang, and William G. Rixey, University of Houston, rixey@central.uh.edu

Biogeochemical Data Interpretation Supporting Natural Attenuation of Benzene Contamination, Fredinand LUST Site, Idaho, Kevin Brackney, Nez Perce Tribe, kevinb@nezperce.org

Evaluation of Natural Source Zone Depletion Using Temperature and Carbon Dioxide Flux: A Case Study, Steven Gaito, ARCADIS, steven.gaito@arcadis-us.com

Half-lives of BTEX in the Pedolith and Soil-Bedrock Interface across Physiographic Regions in Kentucky, Edward Winner, Kentucky DEP, edward.winner@ky.gov

Physical Model Experiments and Simulations of Subsurface Source Generation and Transport from Spills of Ethanol Blended Fuels, Yi Zhang, Linda L. Quon, William G. Rixey, Jie Ma, and Pedro J.J. Alvarez, University of Houston, rixey@central.uh.edu

Poster Sessions

Prevention

Corrosion in USTs: What Causes It and What Can Be Done About It?, Cherri Adair, U.S. EPA ORD, adair.cherri@epa.gov

Operator Training: Successfully Increasing Compliance, Robert Lucht, Petroleum Testers, LLC, lucht@bresnan.net

Spatial Assessment of Risks to Private Drinking Water Wells and Low Income Residents, Jim Weaver, U.S. EPA ORD, weaver.jim@epa.gov

Leave No Operator Behind: No AP (Advanced Placement) Classes Scheduled, Robert May, Synergy Environmental, rjma@synergyenvinc.com

Interstitial Integrity Testing – How Is It Working in the Field?, Marshall Mott-Smith, Mott-Smith Consulting Group, LLC, marshall@mott-smithconsulting.com

Current Status of Gasoline Additives, Richard Spiese, Vermont DEC, richard.spiese@state.vt.us

Vapor Intrusion

Case Study, Hal's Service, Green River, Utah: Field Evidence of Bioattenuation of Petroleum Vapors in Lateral and Vertical Directions, Robin Davis, Utah DEQ, rvdavis@utah.gov

Comparison of Soil Gas Samples from Conventional Ground Water Monitoring Wells to Soil Gas Samples from Vapor Probes, Cindy Paul, Ken Jewell, Cherri Adair, John Wilson, Chris Ruybal, Robin Davis, John Menatti, U.S. EPA ORD, paul.cindy@epa.gov

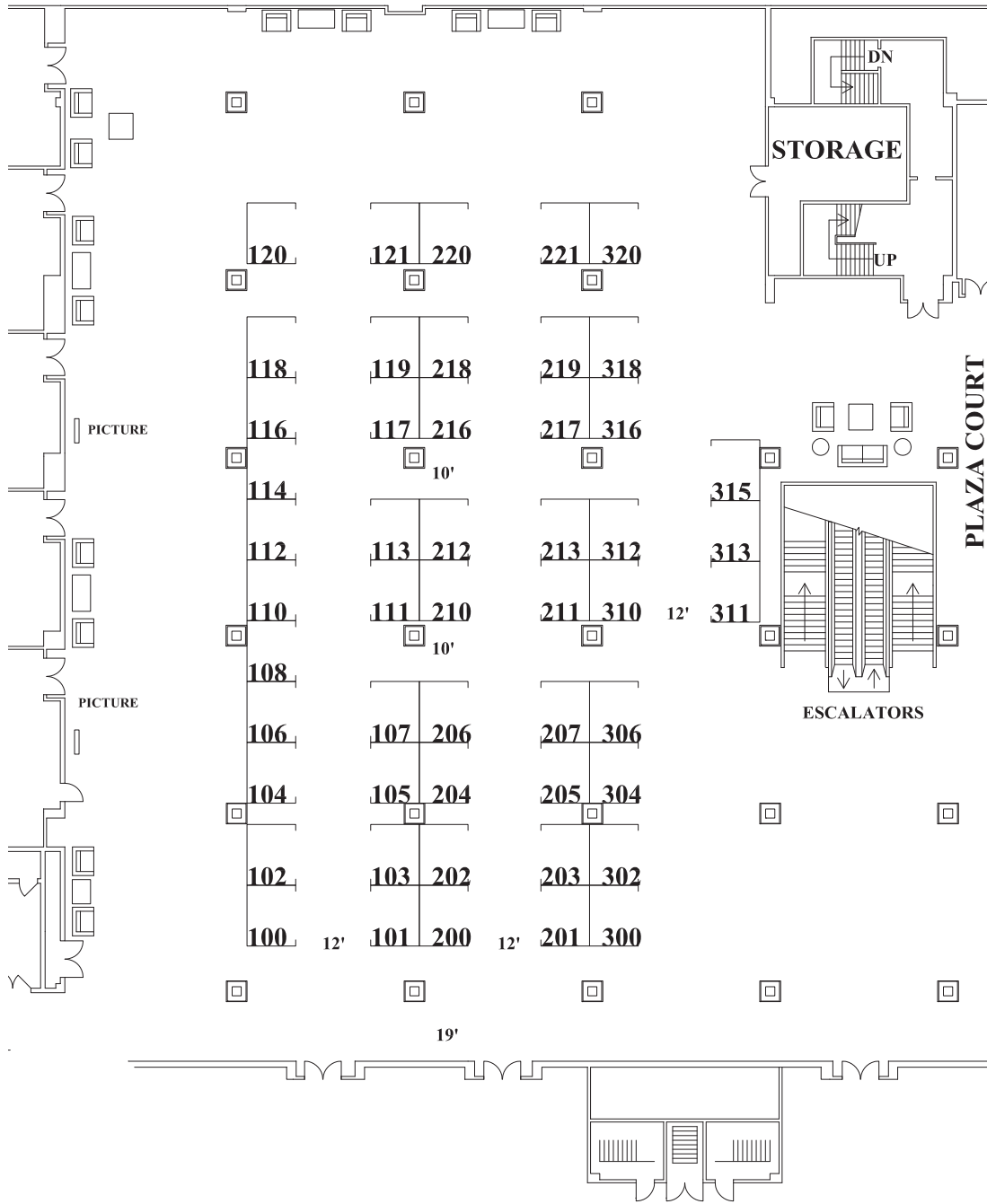
An Approach for Developing Site-Specific Lateral and Vertical Inclusion Zones within Which Structures Should Be Evaluated for Petroleum Vapor Intrusion Due to Releases of Motor Fuel from Underground Storage Tanks, John Wilson, Jim Weaver, and Hal White, U.S. EPA ORD, wilson.johnt@epa.gov

Assessing the Impact of Short Term Continuous Monitoring at Sites Where the PVI Pathway is Believed to Be Complete, Geoff Hewitt, Peter Morris, Thomas Smith, Ion Science, geoff.hewitt@ionscienceusa.com

Numerical Modeling Study of the Influence of Methane Generation from Ethanol-Gasoline Blends on Vapor Intrusion, Ian Hers, Golder Associates Ltd., ian_hers@golder.com

Vapor Intrusion Screening at Petroleum Release Sites, Matthew Lahvis and George DeVall, Shell Global Solutions, george.devall@shell.com

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Tanknology, Inc.

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http://www.tanknology.com



Booth 300

Tanknology is the largest provider of tank compliance solutions in the world. Our crews provide testing and related services at more than 50,000 fueling sites each year, for customers ranging from the largest oil companies to commercial users to the smallest individual retail station operators in every corner of the country and around the world. Our services include compliance testing, including tanks, lines and leak detectors, secondary containment testing, cathodic protection services, ATG equipment installation, full Compliance Management Services, SP-001 inspections for ASTs, and much more.

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Verona, WI 53593
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Booth 304

ORIN Technologies specializes in oxidation, bioremediation, reduction and metals chemistries, as well as the treatment of Oil and Gas waste streams to address specific issues in remediation and wastewater treatment. Laboratory and field experience affords ORIN the ability to develop treatment programs specific to our client's goals. ORIN provides full turnkey services beginning with process analysis, bench scale laboratory testing, complete trial/pilot scale activities, and the installation of full scale or permanent treatment systems.

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Fort Collins, CO 80524
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Booth 302

CGRS specializes in environmental engineering and compliance services for the petroleum industry. Our services include cutting edge environmental remediation technologies, tightness testing, cathodic protection services, facility inspections, leak location services, containment testing, regulatory permitting, fugitive emissions monitoring, SPCC plans and support, A/B Operator training and more. Our dedicated professional team has been providing customized environmental compliance solutions to the industry for over 25 years.

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JMM Global

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Booth 111

JMM Global is an established management consulting company that provides an entire suite of services focused on reducing the complexity and liability associated with all aspects of regulatory-challenged assets. In providing environmental asset management, JMM offers expertise to owners that are confronted with the necessity of outsourcing mandatory compliance tasks to mitigate risk from fines and violations. On behalf of our customer base, JMM advocates to the local, state, and federal regulators which creates a high demand for JMM's products and services. JMM Global provides complete Storage Tank Operational Compliance Management services to petroleum marketers worldwide. Our suite of services includes: Remote monitoring of alarms & release detection, regulatory permitting/notifications, operator training, NOV resolution, inventory management, testing oversight and operational compliance consulting. JMM offers custom project management solutions which will optimize the need for environmental upgrades, asset acquisition, and installations.

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Remediation Products, Inc.

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Golden, CO 80403
Tel: 303-487-1001
Contact: Bob Elliott
Email: bob@trapandtreat.com
http://www.trapandtreat.com



Booth 216

Safe, effective, and predictable, Remediation Products, Inc.'s Trap & Treat approach closes sites where others simply manage risk. RPI is the innovator and manufacturer of Trap & Treat BOS 100 (for chlorinated contamination) and BOS 200 (for petroleum hydrocarbon contamination). Founded in 2002, RPI is a leading supplier of superior in situ remediation products in North America and Europe. Learn more about RPI's revolutionary approach to remediation and the international RPI Group at www.trapandtreat.com.

Exhibitor Profiles

Exhibitors

Aestus, LLC

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<http://www.aestusllc.com>



Booth 119

Too many sites do not clean up. Furthermore, developing an accurate conceptual site model (CSM) from the data generated from tens of wells is virtually impossible. Fortunately, Aestus GeoTrax Survey, a non-invasive scanning process, can deliver tens of thousands of data points, yielding CSMs that actually work. Aestus generates robust 2-D and 3-D subsurface visualizations that locate hard to find contamination, zones of bioactivity, and impacts to surface water and sediments. The result is expedited site closure at lower costs.

Antea Group

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West Chester, PA 19382
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<http://www.anteagroup.com>



Booth 311

Antea Group is an environmental, health & safety consulting firm with offices in the US and abroad. Services to the petroleum UST community include transaction support, compliance management (including Operator Training through our API partnership), remediation, and web-based information management. By combining strategic thinking and multidisciplinary perspectives with technical expertise and pragmatic action, we do more than effectively solve client challenges: we deliver sustainable results for a better future. By understanding today, we are improving tomorrow.

ARID Technologies, Inc.

323 S Hale St.
Wheaton, IL 60187
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<http://www.ARIDtech.com>



Booth 107

ARID Technologies provides the PERMEATOR, a robust and proven membrane-based fuel-vapor recovery system which reduces evaporative losses from gasoline storage tanks used at retail gas stations. The PERMEATOR saves 2 gallons of fuel per 1,000 gallons dispensed, with an overall vapor recovery efficiency of 99.3%, as confirmed by third-party testing. Includes 3-Year parts/labor warranty. The ARIDAS 150 data acquisition system monitors, stores and remotely accesses data in order to ensure pressure integrity within storage tanks.

Bristol Environmental Remediation Services, LLC

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



Booth 101

BERS is a 100% Native American-owned company, a certified 8(a) business, a GSA Schedule contractor, 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.

Cardno

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Booth 218

Cardno is an ASX-200 professional infrastructure and environmental services company, with expertise in the development and improvement of physical and social infrastructure for communities around the world. Cardno's team includes leading professionals who plan, design, manage and deliver sustainable projects and community programs. The diverse skills and experience of Cardno's global team allow us to offer integrated services in ten market sectors worldwide: Buildings, Land, Coastal and Ocean, Environment, Emerging Markets, Management Services, Mining and Energy, Transportation, Water, and Defense.

COLUMBIA Technologies

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<http://www.columbiatechnologies.com>



Booth 219

COLUMBIA Technologies is a global specialty contractor providing world-class innovative data collection, analyses, visualization, mapping and tracking tools to optimize LNAPL petroleum soil and groundwater contamination. COLUMBIA has supported hundreds of petroleum related projects ranging from gasoline/fuel retail stations to Superfund sites, including petroleum terminals, petroleum storage facilities, pipeline terminals, railyards, oil refineries, UST/LUST sites and military installations. In addition, their real-time data platform, SmartData Solutions integrates soil stratigraphy and groundwater contamination data into easy to interpret decision making information. This Platform-as-a-Service enables site owners and consulting firms alike to implement the practical and highly cost-effective EPA Triad approach for assessment, cleanup, and monitoring of environmentally contaminated real estate. Founded in 1999, COLUMBIA has successfully performed over 1,000 high resolution site characterizations throughout Mexico, Brazil, Canada and 45 out of the 50 United States including Hawaii for over 300 customers including 20 of the top 40 environmental design firms, Fortune 500 companies, and state and federal agencies.

Exhibitor Profiles

Containment Solutions

5150 Jefferson Chemical Rd.
Conroe, TX 77301

Tel: 877-CSI-TANK

Contact: David Heiman

Email: sales@csiproductions.com

<http://www.containmentsolutions.com>

CONTAINMENT SOLUTIONS®

Booth 310

Containment Solutions, Inc. specializes in the manufacturing of underground fiberglass storage tanks (600 - 60,000 gal) designed with non-corrosive fiberglass for safe, long term containment of petroleum, automotive and water storage; oil/water separators for storm water discharges and Fiberglass manholes, rehabilitation manholes and wetwells for the wastewater industry. CSI is American owned and operated.

Crompco, LLC

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Email: ed.kubinsky@crompco.com

<http://www.crompco.com>



Booth 212

UST Testing, Inspection and Compliance Management Services Testing/Inspection Services Include: Precision Tank and Line Tightness Testing Leak Detector, ATG, Stage I & II and Cathodic Protection Testing Containment Testing and Overfill Verifications 3rd Party Compliance Inspections Specialty. Services include: Light Construction (Spill Bucket Replacements), Containment Repairs, Precision Meter Calibrations (AccuMeasure), Tank Cleaning, Data Management, and Business Intelligence Tools (The Vault).

CSDC Systems

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Tel: 888-661-1933

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Email: t.godin@csdcscsystems.com

<http://www.csdcscsystems.com>



Booth 110

CSDC Systems, Inc. is a leading provider of Enterprise solutions for Licensing, Permitting and Compliance, Grants, Courts and FOI. Since 1989, CSDC has provided integrated, powerful and flexible software solutions that automate the business processes of public sector agencies and large organizations to improve the effectiveness and operational efficiency of service delivery.

DoubleTrac By Omegaflex

213 Court St., #1001

Middletown, CT 06457

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Contact: Donald Effgen

Email: don@omegaflex.com

<http://www.doubletrac.net>



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Double and single wall corrugated stainless steel pipe for DEF, diesel, and biofuel for UST and AST applications.

Eaton Sales and Service, LLC

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Denver, CO 80216

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Contact: Bruno Busnardo

Email: brunob@eatonmetal.com

<http://www.eatonsalesservice.com>



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Eaton Sales and Service, LLC is the leading petroleum equipment sales, service and installation company in the Rocky Mountain Region. We have 9 offices strategically located to cover the area so we can quickly and efficiently satisfy our customers. We are also unique in the fact that we have our own tank manufacturing operation located in Denver, CO so we are able to provide a fully turnkey system to our customers.

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 200

EcoVac Services is also the world leader in mobile multi-phase/dual-phase extraction, having provided mobile remediation solutions at over 2,000 sites throughout the United States (43 states) and Puerto Rico. EcoVac Services is also the nation's leader in surfactant remediation services and a leading ISCO provider.

Environmental Compliance Services, Inc.

10 State St.

Woburn, MA 01801

Tel: 800-789-3530

Contact: William Alpine

Email: balpine@ecsconsult.com

<http://www.ecsconsult.com>



Booth 105

ECS is an employee-owned, pioneering environmental consulting firm consisting of 200 professionals. The company is headquartered in Agawam, Massachusetts and has 13 additional offices throughout the Northeast, Midwest and Southeast. ECS's full line of services includes site assessment, remediation, engineering, regulatory compliance, petroleum storage tank services, industrial hygiene services, and training (health and safety, LSP/LEP continuing education, Class A/B/C UST Operator, Stage I/II Vapor Recovery).

EOS Remediation

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<http://www.eosremediation.com>



Booth 108

EOS Remediation is a leading women-owned small business supplying soil and groundwater remediation products that have been used globally for more than a decade. Our patented and proven technologies have been independently validated while consistently achieving on-site remediation goals. EOS Remediation combines award-winning products with superior technical assistance to ensure successful outcomes.

Exhibitor Profiles

Franklin Fueling Systems

3760 Marsh Rd.
Madison, WI 53718
Tel: 608-838-8786

Contact: Gary Saltz

Email: saltz@franklinfueling.com

<http://www.franklinfueling.com>



Franklin Fueling Systems

Booth 220

Franklin Fueling offers the industry's most complete line of underground and aboveground containment products including pipe, fittings, sumps and boots. Whether you require product or vent piping, fiberglass or polyethylene sumps, Franklin has the solution to fit any scenario.

Groundwater & Environmental Services, Inc. (GES)

1050 Corporate Blvd., Suite C
Aurora, IL 60505

Tel: 866-455-2419 x4045

Contact: Dean Richesin

Email: drichesin@gesonline.com

<http://www.gesonline.com/>



Booth 213

Groundwater & Environmental Services, Inc. (GES): we deliver practical solutions with sustainable results. We offer compliance, remediation, and liability management services to clients across the US. We know petroleum: we've been in the business since 1985. We use innovative technologies, creative approaches, and regulatory expertise to untangle the greatest environmental challenges.

MK Environmental, Inc.

7150 South Madison St.
Willowbrook, IL 60527

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Contact: Edward Tung

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<http://www.mkenvironmental.com>



Environmental Inc.

Booth 113

IMK 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 800 dual phase extraction and treatment systems. Since 2005, MK has installed remediation equipment for over two dozen Electrical Resistive Heating (ERH) thermal remediation projects. 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.

MobileWright Solutions

30 Wing Rd.
Lynnfield, MA 01940

Tel: 781-968-5245

Contact: Dan Blake

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<http://www.mobilewright.com>



Booth 306

MobileWright's UST Inspector (a mobile inspection software application) has streamlined and improved the inspection process at several UST programs (NH DES, CT DEP, ID DEQ, NC DENR, EPA in Region 2, and others). The UST Inspector system facilitates performing a complete compliance inspection, collecting of electronic signatures, on-site printing of enforcement letters, site diagramming, GPS coordinate collection, facility management plan generation, and certification of Class A/B operators.

Modern Welding Co.

2880 New Hartford Rd.
Owenboro, KY 42303

Tel: 270-685-4400

Contact: Tony Honey

Email: thoney@modweldco.com

<http://www.modweldco.com>



Booth 117

An 80 year old, family-owned, American manufacturer creating state-of-the-art UL listed steel storage tanks. GLASTEEL II (dbl-wall)ust. FIREGUARD and FLAMESHIELD (fire-rated) ast. KLEERWATER oil/water separator. ASME pressure vessels. Custom fabrication. Nine fabrication sites located coast to coast offering regional service.

NOV Fiber Glass Systems

17115 San Pedro Ave., Suite 200
San Antonio, TX 78232

Tel: 210-477-7500

Contact: Candice New

Email: candice.new@nov.com

<http://www.fgspipe.com>



Booth 217

NOV Fiber Glass Systems is the global leader in tubular corrosion prevention and control. We service Oil and Gas, Chemical and Industrial, Marine, Offshore, and Fuel Handling applications. With over 65 years of industry experience in more than 40 countries, NOV Fiber Glass Systems constantly demonstrates how we are DELIVERING EXPERIENCE. Our company culture is driven by the goal of continued market leadership through innovation, expertise, and expanded application of glass reinforced composite pipe.

OPW

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<http://www.opwglobal.com>



Booth 207

OPW, a Dover Company (NYSE: DOV) is the brand known around the world as the industry standard for quality, selection and innovation in petroleum equipment. 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. We have earned this brand leadership reputation and position by leading the way in fueling innovation, product quality and customer-focus. OPW is organized into three distinct product line groups: 1) OPW Fueling Components (OPW-FC) Above Ground Products Clean Energy Fueling Products 2) OPW Fueling Containment Systems (OPW-FCS) Below Ground Products 3) OPW Fuel Management Systems (OPW-FMS) Electronic Fuel Management Systems. OPW has earned more patents than any other equipment manufacturer and has a global footprint with sales offices on six continents, manufacturing operations in North America, South America, Asia and Europe, and more than 1,000 distributors worldwide. OPW is ISO-9000 certified, utilizes Lean Manufacturing and rigid Six Sigma Quality Systems to ensure that the highest levels of quality are maintained from concept through the entire product life cycle. 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.

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PASS

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<http://www.passtesting.com>



Booth 118

We are Practical American Safety Solutions, better known as PASS. Our platform enables us to develop and deliver meaningful training and compliance programs to practically any industry. We provide a comprehensive and robust user experience which allows our customers to easily, adequately, and securely meet all applicable requirements and regulations. PASS is committed to providing meaningful, cost-effective, and reasonable solutions to your training requirements. If you are searching for a unique training program, we would be happy to discuss the solution and answer any questions that you may have.

Pultrusion Technique, Inc.

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St-Bruno, Quebec J3V 6B9
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<http://www.pultrusiontech.com>



Booth 318

Founded in 1966, Technical Pultrusion has become a leader in the fiber reinforced polymer composites industry, serving diverse industries worldwide. Technical Pultrusion manufactures a vast range of custom-built FRP structural products and hold patents for unique processes for various uses in pultrusion and composite profiles.

Purpora Engineering, Inc.

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Booth 320

In 1978 Purpora Engineering was formed by Bill Purpora to train and teach the Kent-More and then the Petro-Tite system, whilst also running a testing company Protanic, Inc. since 1972, back then the need for ongoing professional training was evident. From those beginnings the company has been responsible for training over 10,000 people worldwide since 1978 and involved in starting over 300 companies using our equipment for testing services. Today we continue to train and help companies add testing services to their offerings with a variety of services and equipment. More recently Purpora purchased ALERT Technologies in 2012 and continues to grow and support this technology recently having the equipment re-certified to be capable of non-volumetrically testing a whole tank in less than 5 minutes of data collection. Purpora also offers a number of other training solutions for in house equipment and industry requirements, as well as Mytankgauge a solution for remote monitoring of tank gauges.

Regenesis

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Booth 201

REGENESIS is a global leader in proven and cost-effective environmental technologies for the remediation of contaminated properties. Since 1994, the company has been developing, manufacturing, and supporting a range of widely-used reagents that are applied directly into soil and groundwater to enhance the biological and chemical destruction of environmental contaminants. These contaminants include: gasoline, diesel fuel, jet fuels, heat, oil, and a range of industrial solvents that have made their way into the subsurface as a result of spills, leaks, and/or poor disposal practices. More recently, the company entered the closely-related vapor intrusion mitigation market with a sustainable building products division known as Land Science Technologies. Both REGENESIS and Land Science Technologies products are widely used by multi-national environmental engineering and construction firms, environmental consultants, Fortune 500 companies, private real estate owners, insurance companies, and federal, state and local governments. Worldwide, REGENESIS products have been successfully applied at tens of thousands of sites and in more than 20 countries. For more information visit www.regenesisc.com.

S. Bravo Systems, Inc.

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Commerce, CA 90040
Tel: 323-888-4133

Contact: Jonathan Smith
Email: jsmith@sbravo.com
<http://www.sbravo.com>



Booth 104

Bravo is a certified woman-owned domestic corporation and a Made in the USA accredited manufacturer of secondary containment systems. Bravo offers best-of-breed containment systems and support that incorporate innovative engineering, industry feedback and unrivaled customer service to deliver products that offer long-term quality & reliability to prevent water intrusion and protect our ecosystem with a zero-leak standard. Visit us at www.sbravo.com to build your all-bonded fuel system.

Seneca Companies

4140 E 14th St.
Des Moines, IA 50313
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Contact: Dan Nolan
Email: jfelts@senecaco.com
<http://www.senecaco.com>



The Complete Solution

Booth 312

Seneca Companies provides unequalled customer attention through a range of related services including: Fuel Systems Construction, Distribution & Service; Waste Solutions & Emergency Response Services; Environmental & Compliance Services; Construction Management Services; Electrical & Automaton Services; Industrial Finishing Systems; Remediation & Process Systems and Vehicle Equipment Sales & Service. To learn more about Seneca Companies, visit www.senecaco.com.

Exhibitor Profiles

STI/SPFA

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Booth 206

STI is a trade association of over 180 fabricating and affiliate companies of steel construction products: shop-fab tanks, field erect tanks, pipe, pressure vessels and other special fabricated products. STI members account for nearly all of the total shop fabricated underground steel storage tank production capacity in North America. STI licenses underground and aboveground storage tank technologies around the world.

Tait Environmental Services

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http://www.tait.com



Booth 102

TAIT Environmental Services is a full-service environmental consulting & construction firm specializing in petroleum storage tanks.

Tank Tech, Inc.

P.O. Box 17
Blodgett, MO 63824
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Contact: Rob Russell
Email: rob@tanktech.com
http://www.tanktech.com



Booth 210

Tank Tech provides a full range of storage tank services including 3rd Party Certified Video Inspections, Physical Manned Entry Inspections, STI SP001 Inspections, repairs, Ethanol Compatibility Upgrades and Conversions, Linings of both above and below ground storage tanks as well as the installers of the Phoenix Secondary Containment System and the Stand Alone Tank System.

Titan Cloud Software

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Brentwood, TN 37027
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http://www.titancloud.com



Booth 202

Titan Cloud Software is the industry's leading provider of software solutions for the management of facilities with fuel. Titan solutions protect valuable assets, while dramatically improving compliance, fuel, and facility operations.

UST Training

3495 Daisy Ln.
Clinton, WA 98236
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Contact: Ben Thomas
Email: ben@usttraining.com
http://www.USTtraining.com



Booth 100

Ben Thomas of UST Training has been providing engaging and interactive training for Class A, B and C operators since 2004 and currently provides training via live classroom, live webinar, and self-paced courses throughout the US. Stop by and say hi.

Vaporless Manufacturing, Inc.

8700 E. Long Mesa Dr.
Prescott Valley, AZ 86314
Tel: 928-775-5191
Contact: Tyler Ryan
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http://www.vaporless.com



Booth 204

Vaporless Manufacturing, Inc. targets Best In Class solutions for line leak detection, line pressure management, AST overflow protection, OFP proving equipment, and testing equipment for line leak detectors, tanks and sumps. Education and certifications for line leak detector installation, catastrophic line leak detector, precision tank, and sump testing equipment.

Veeder-Root

11548 Big Four Way
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http://www.veeder.com



Booth 211

Veeder-Root is the world's most experienced, trusted name in fuel management monitoring over a half million tanks for major oil companies, airports, governments, package deliverers, large truck fleets, car rental companies, public utilities and thousands of service stations around the globe. We are the number one supplier of automated tank gauges in the world, but we go beyond monitoring your compliance needs; we protect your business investment and your reputation.

Vironex, Inc.

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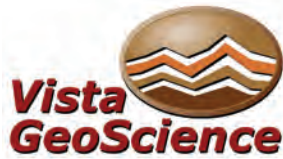
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Vironex is the leading provider of specialized environmental field services to the environmental consulting community including in-situ remediation services, membrane interface probe (MIP) services and subsurface sample collection services, both nationally and internationally.

Exhibitor Profiles

Vista GeoScience

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<http://www.VistaGeoScience.com>



Booth 106

For over 25 years Vista GeoScience has provided the most advanced site characterization and remediation services to environmental consulting and engineering firms. Services include Geoprobe sampling and monitor well installation, MIP/LIF/HPT/EC Logging, CPT and Gamma Ray Logging, Mobile GC/MS Laboratories, soil gas and vapor intrusion testing, in-situ chemical and bio-remediation injection and hydraulic fracturing installations. Our clients enjoy working with our knowledgeable staff, and we enjoy working with our clients on their most challenging projects.

Xerxes Corporation

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Tel: 952-887-1890
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Email: kristi.peterson@xerxes.com
<http://www.xerxes.com>



Booth 316

Xerxes is a leading manufacturer of fiberglass underground tanks for the storage of petroleum and biofuel products including E10, E15, E85, biodiesel and also DEF. Product offering includes multi-compartment tank options, TruChek hydrostatic monitoring, the Phoenix System, and a variety of tank accessories including containment sumps and prefabricated deadmen.

Xitech Instruments, Inc.

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Booth 103

Xitech Instruments, Inc. is a USA manufacturer of environmental pumping. Xitech's primary focus is on Free Product Recovery and Groundwater Remediation. Our approach to Free Product Recovery has always included intermittent computerized control of our skimmers to avoid the creation of a WATER DONUT at the recovery well. Water donuts always dramatically reduce or eliminate NAPL recovery. Xitech introduced the RULE for enhanced long term recovery of NAPLs in 2000 to provide the operator with an effective method of maintaining maximum level of NAPL recovery. Xitech introduced a new Free Product Recovery system this year to recover floating LNAPL at LOW TIDE. Our approach to Groundwater Remediation has been to provide the operator with a pumping system that eliminates IRON fouling of the above ground treatment system, removes ALL floating LNAPL on total fluids sites, provides a constant discharge flow rate with varying water height changes, recovers groundwater down to ZERO submergence, and has NO exhaust air emissions issues. Xitech has been providing pumping solutions for UST sites for over 25 years.

Speaker Bios

Mahesh Albuquerque, Colorado OPS

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. He has been with the division for over a decade, and serves on several national workgroups on policy development. 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.

Teresa Alleman, National Renewable Energy Laboratory

Teresa Alleman is a senior chemist with the Fuels Performance Group at the National Renewable Energy Laboratory. She has been with the Fuels Performance Group for 12 years and focusing her research on reducing technical barriers to increase utilization of alternative and advanced fuels. In recent years, she has worked on a wide variety of current and future fuels and blendstocks, such as biodiesel, ethanol, natural gas, Fischer-Tropsch fuels, pyrolysis oils, and terpenes. With her background in analytical chemistry, she focuses her work on fuel quality, test methodology, and trace component analysis. She has led a large number of projects and has an impressive list of publications in these areas. She oversees three fuel chemistry laboratories with a wide variety of analytical equipment, including GC and GC/MS, UPLC/MS, FTIR, TOF-MS and wet chemistry methods to support her research. She is an active member of the petroleum committee at ASTM and has written and supported multiple test methods and specifications for alternative fuels over the years. She is also an active member of AOCS, ACS, and SAE.

William Alpine, Environmental Compliance Services, Inc.

William Alpine is Corporate Counsel and Director of Cost Recovery for Environmental Compliance Services. 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, 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 joining 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. He earned his B.S. in Marine Engineering from the Massachusetts Maritime Academy, and his J.D. from Suffolk University.

Will Anderson, U.S. EPA OUST

Will Anderson is the director of the Cleanup and Revitalization Division in EPA's Office of Underground Storage Tanks. He has worked at EPA for over 20 years. His current areas of responsibility include state fund soundness, petroleum vapor intrusion guidance, LUST backlog reduction strategies, petroleum brownfields, and semi-annual performance reporting. Prior to joining EPA, he served for 3 years as a Peace Corps volunteer in Cameroon, West Africa where he taught Biology and Chemistry to high school and middle school students. He earned a B.S. in Pre-Med Studies from the University of Notre Dame in 1988.

Suzan Arfman, New Mexico ED

After 20 years with American Airlines, Suzan Arfman decided it was time for something new. She went back to school earning a degree in Geographic Information Systems from Central New Mexico Community College. She began working for the New Mexico Environment Department as a Geographic Information Systems Analyst working exclusively for the New Mexico Environment Department/Petroleum Storage Tank Bureau since 2005. Her focus has been GoNM, Geographic Information System Screening Tool of New Mexico, an environmental assessment identification and prioritization tool developed to provide a systematic approach to determine cumulative impacts in making environmentally sound decisions. GoNM evaluates petroleum facilities in New Mexico on their potential to leak and the jeopardy such a leak could cause the public and the environment and provides remediation information.

William Benni, Improved Analysis through Modeling, LLC

William Benni is the founder of Improved Analysis through Modeling, located in Christiansburg, VA. He graduated with highest honors from Rutgers University with a degree in Chemical Engineering and is about 2 years from completing his Ph.D. at Virginia Tech. He has developed the Benni Source Modeling Approach over the past 21 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. Several environmental protection agencies have requested presentations of the tools discussed. Currently, his work focuses on applying the approach to monitoring the progress of thermal remediation, finding underlying causes at UST problem sites, and providing expert testimony.

Therron Blatter, Utah DEQ

Therron Blatter is the Manager for the Underground Storage Tank Branch of the Utah

Department of Environmental Quality. In this capacity, he is responsible for oversight of Utah's compliance and enforcement program, LUST cleanup program, and Petroleum Storage Tank cleanup fund. He has been involved in Utah UST program for the past 22 years; 8 as a UST field inspector, 11 as a UST compliance program manager and the last 3 as a UST branch manager. He is currently the Chair of the ASTSWMO UST Taskforce. He received his B.S. and M.S. in Geology from Brigham Young University.

Ray Boyle, The Well Improvement Company, Inc.

Ray Boyle is a Hydrogeologist and owner of The Well Improvement Company of Fort Collins, CO. He has a B.S. in Geology from Montana State University and an M.S. in Geology with an emphasis in hydrogeology from Colorado State University. He has centered his academic, research, and application growth in the area of fractured rock hydrology. This has led to the development of equipment and procedures to obtain the optimum distribution and delivery of remediation chemicals at contaminated ground water sites. Areas of equipment development include injection equipment with high flow rate and pressure capabilities, special injection tips for direct push applications, and short sample-interval straddle packers for focused bedrock sampling and remediation.

Kevin Brackney, Nez Perce Tribe

Kevin Brackney is an Idaho registered Professional Geologist and a Certified Ground Water Professional. He received an M.S. in Hydrology from the University of Idaho in 1992 and a B.S. in Geology from Ft. Lewis College, Durango, CO, in 1978. He has a total of 21 years of professional experience as Hydrogeologist, including 9 years conducting groundwater bioremediation research with U.I., and 12 years working on environmental protection and restoration for the Nez Perce Tribe in both LUST and Brownfield Tribal Response programs. He also worked for 12 years as an Exploration and Mining Geologist in 12 states with a primary focus on precious and base metals.

Lamar Bradley, Tennessee DEC

Lamar Bradley has worked in the Tennessee Department of Environment and Conservation Division of Underground Storage Tanks since 1988 and has 37 years of experience in state government. He currently oversees activities for the Notification, Enforcement and Compliance section, provides technical assistance to inspectors, and works on developing improvements in the compliance inspection and enforcement programs. He has developed numerous technical and policy issues for the division. He served on the National Work Group on Leak Detection Evaluations in 1993 for five years before leaving the group to devote more time to state efforts as the 1998 deadline approached. He rejoined the work group in 2003. He has been involved at state and national levels with UST issues involving leak detection, ASTM

Speaker Bios

alternative assessment procedures, cathodic protection testing, operator training, federal regulation revision, flexible piping, alternative fuels, etc. He developed "Tank School" - a one day training session used in Tennessee and other states for operator training. He also wrote the original script for the video "Tank Time", which was used to educate tank owners about the 1998 UST upgrade deadline. He is currently writing and producing a series of instructional compliance videos for tank owners which will be available on the internet.

Jane Bral, Colorado OPS

Jane Bral graduated from Ohio University in Athens, OH in 1980 with a B.S. in Geology and in 1984 with an M.S. in Hydrogeology. She worked with Environmental Science and Engineering for 13 years in Gainesville, FL and Denver, CO doing petroleum and hazardous waste site assessment and remediation. In 1998, she founded Bral Environmental, Inc. that specializes in Phase I and II site assessments. In 1999, she joined the Colorado Division of Oil and Public Safety as an Environmental Protection Specialist in the Remediation Section where she oversaw the assessment and remediation of petroleum contaminated sites. In 2004, she began managing the Colorado Petroleum Storage Tank Fund that provides annual reimbursements of \$35M to \$40M.

Murray Brown, Colorado OPS

Murray Brown is an Oil Inspector with the Colorado Division of Oil and Public Safety. He brings to the conference an extensive industry background and a variety of experience in petroleum tanks, gas liquids pipeline transportation, gas measurement, and project management. He has been with the division for 4 years as an Oil Inspector covering rural areas on the west slope of Colorado. He specializes in helping customers achieve regulatory compliance and is currently cross training in environmental remediation. He holds a B.S. in Geology from Mesa University CMU in Grand Junction, CO.

Susan Burnell, U.S. EPA OUST

Susan Burnell works in the Cleanup and Revitalization Division of EPA's Office of Underground Storage Tanks. She has been with EPA for 18 years and has worked in OUST since 2009. She is the content lead for OUST's backlog study and follow-up efforts. Most recently, she has worked with EPA's Office of Site Remediation Enforcement to develop the RP Search Guide for the UST Program. She has a B.S. in Biology from Albion College in Albion, MI.

Leslie Carr, Kentucky DEP

Leslie Carr is a 1999 graduate of the University of Kentucky with a B.S. in Natural Resource Conservation Management. Her career with Kentucky state government began with the Kentucky National Guard where she was the environmental contact in charge of water, waste, and spills. For the past 11 years, she has worked

for the Kentucky Department for Environmental Protection in the program areas of water and waste. Since 2008, she has been the Energy Act Coordinator with the Kentucky Underground Storage Tank Branch where she develops and manages their online training program, assists with program development in the UST Compliance Section, helps train UST field inspectors, and writes/updates regulations, handbooks, and SOPs. She also represents Kentucky as the Vice Chair of the ASTSWMO UST Task Force and the ASTSWMO Core Report Workgroup.

David Chambers, Nebraska DEQ

David Chambers is the Petroleum Remediation Section Supervisor for the Nebraska Department of Environmental Quality. He has been managing petroleum cleanup work in Nebraska since 1988. He also supervises the state reimbursement fund used for petroleum remediation. Before becoming a supervisor, he developed groundwater quality regulations and groundwater cleanup procedures for Nebraska DEQ. He currently is Vice-Chair of ASTSWMO's State Fund/Financial Responsibility Task Force. He has B.S. and M.S. degrees in Biology (with a Geology minor) from Northwest Missouri State University.

Randy Chapman, Virginia DEQ

Randy Chapman is a graduate of Clemson University. In 1993, he was hired by the Virginia Department of Environmental Quality as a UST remediation geologist. He serves as a Remediation Program Leader in the DEQ Northern Regional Office. He is also a current member of the ITRC Petroleum Vapor Intrusion Team. Over the years he has managed hundreds of petroleum release investigations, assessments, and corrective actions. These cases have ranged between simple home heating oil releases to bulk storage terminal closures. He has presented numerous cases studies at EPA Region 3 and National LUST Conferences. These studies have included MIPS surveys, residential redevelopment of impacted sites, Tracer studies, and a PVI investigation of a residential property.

Sully Curran, Fiberglass Tank & Pipe Institute

Sullivan (Sully) Curran is the Executive Director of the Fiberglass Tank & Pipe Institute, located in Houston, TX, and is a Civil Engineer with a postgraduate degree in Business Administration. He retired from ExxonMobil Corp. after 35 years where he served as a manager of Operations, Engineering, Environmental Departments and chaired numerous American Petroleum Institute Environmental Committees. The Fiberglass Tank & Pipe Institute was incorporated in 1987 as a non-profit organization. The Institute provides a forum for the fiberglass reinforced thermoset plastic industry to combine resources, provide standard-setting organizations with technical data, and disseminate information to the government, industry, and the public.

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, risk assessments, and data acquisition and analysis most recently for the vapor-intrusion exposure pathway.

George DeVault, Shell Global Solutions

George DeVault has a Ph.D. and 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.

Tracie Donaldson, U.S. EPA Region 6

Tracie Donaldson has worked for EPA for 26 years, of which the last 12 years she has been involved in the Underground Storage Tank Program. She has a B.S. in Chemical Engineering from the University of Missouri Rolla and an M.S. in Chemical Engineering from Texas A&M University.

David Doyle, U.S. EPA Region 7

David Doyle works for the U.S. EPA Region 7 Office in Lenexa, KS. He has a B.S. in Environmental Engineering from Syracuse University and an M.S. in Environmental Health Engineering from the University of Kansas. He has been with EPA for 37 years and has worked in many of EPA's water, air, and hazardous waste programs as both a staff person and a manager. He is presently EPA Region 7's Sustainable Communities Coordinator, where he assists EPA program staff, property owners, community leaders, and others in applying smart growth and sustainable community principles and techniques to make communities more sustainable. He is also a certified mediator for the Kansas City Area Federal Employee's Shared Neutrals Mediation Program and the Kansas City Police Board of Commissioners Office of Community Complaints.

Patrick Duggan, Duggan Energy Group

Patrick Duggan of Duggan Energy Group is a long time Petroleum Marketer. He has been through all phases of tank compliance, from building fuel facilities to compliance reporting to submission to state funds for reimbursement for clean-up. Before starting Duggan Energy Group, he sold the Family Marketer-Ship in 2006 and was a large wholesale marketer distributing fuels, ranging from aviation, racing fuels, gasoline and distillates, lubricants and owned 25 retail locations and a fuel and lubricant testing laboratory. Through his own experiences he recognized the need for easy low-cost solutions for Marketers, C-stores, Fueling Centers, etc.

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Duggan Energy Group has a suite of modular on-line accounting and compliance reporting platforms needed in today's market place. He is also a Petroleum Chemist and Software Developer.

Stephen Dymant, U.S. EPA OSRTI

Stephen Dymant is a chemist with more than 17 years of 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 and teaches classes on sampling design, x-ray fluorescence, Triad, and other technical subjects. He holds a B.S. in Environmental Science/ Toxicology from the University of Massachusetts at Amherst.

Carol Eighmey, Missouri PSTIF

Carol Eighmey has done "tanks work" in Missouri for 20 years, the last 16 as Executive Director of the Petroleum Storage Tank Insurance Fund. Well-known by UST/LUST regulators across the country, her experience includes knowledge of underground and aboveground tank regulations and equipment, cleanup technologies and costs, federal and state case law, and politics. She has served on several national committees, on the board of directors of NatLUST, and as a reviewer for EPA technical papers; she also regularly writes articles on UST-related topics for various publications. She has a B.S. in Applied Physics and an M.S. in Engineering Management from the Missouri University of Science and Technology.

Kimberly Fedinatz, U.S. EPA OECA

Kimberly Fedinatz is an attorney in EPA's Office of Site Remediation Enforcement. She represents EPA's interests in multi-regional bankruptcy cases, and focuses on policy and guidance development relating to CERCLA and RCRA Subtitle I corrective action enforcement. Prior to working at EPA, she was a commissioned officer in the Army Corps of Engineers where she led military construction and demolition projects. She deployed to Iraq twice and was awarded a Bronze Star Medal. She earned a B.S. in Environmental Science from the University of Virginia and a J.D. from George

Mason University.

John Fitzgerald, Massachusetts DEP

John Fitzgerald has been employed by the Massachusetts Department of Environmental Protection since 1980, specializing in the assessment and cleanup of sites contaminated by petroleum and hazardous materials. He was a co-developer of MassDEP's Volatile Petroleum Hydrocarbon (VPH), Extractable Petroleum Hydrocarbon (EPH), Air-Phase Petroleum Hydrocarbon (APH) approaches, analytical methods, and regulatory programs. He has a B.S. and M.S. degree in Civil Engineering from the University of Massachusetts Lowell.

John Fontana, Vista GeoScience

John Fontana, President/CEO of Vista GeoScience, is a professional geologist with over 30 years of experience in environmental investigation, remediation, and geochemistry. He oversees all business and technical operations at Vista including a geochemical and environmental laboratory, specialized soil gas detection technologies, environmental site investigation and remediation technologies, and has co-authored over 70 presentations and papers on these topics. He pioneered and introduced many of unique methods and tools to support these types of operations. He has supervised environmental site characterizations and remediation projects at major DOD, DOE, Oil and Gas, and other industrial sites across the country. He holds water well contractor's licenses in multiple states. He earned a B.S. in Geology, Oceanography and Physics from Humboldt State University in California.

Tom Fox, Colorado OPS

Tom Fox has participated as a consultant in environmental assessment and remediation of petroleum storage tanks since 1987, mainly in the western U.S., and joined the Colorado Division of Oil & Public Safety in 2007. Recently, he has been involved in creating and updating reporting formats as OPS moves toward accepting only electronic formats to reduce or eliminate paper records.

Steven Gaito, ARCADIS

Steven Gaito is a Senior Environmental Specialist with ARCADIS US. He has 13 years of environmental consulting experience focusing on site conceptual modeling, LNAPL mobility and recovery, and LNAPL management strategies including natural source zone depletion (NSZD) evaluations. His current work focuses on evaluating alternative methods to quantify NSZD rates.

Erik Gessert, Colorado OPS

Erik Gessert is the supervisor of the Petroleum Remediation program for the Colorado Division of Oil and Public Safety and has worked for the State of Colorado for the past 3 years. Prior to joining the state, he worked as an environmental consultant specializing in petroleum remediation. He graduated from the University of Wisconsin-

Madison with a B.S. in Environmental Engineering and a minor in Environmental Studies and has a professional engineering license in the State of Colorado in Water Resources.

Wayne Geyer, Steel Tank Institute

Wayne Geyer is the Executive Vice President of the Steel Tank Institute and Steel Plate Fabricators Association. Employed with STI since 1985, he has participated in numerous conferences addressing underground and above ground storage systems of hazardous liquids. He is a Professional Engineer and a member of the NFPA 30 Flammable and Combustible Liquids Code Committee. He is an active participant in the UL standards making process and also participates in NACE, AWWA, API, and PEI standards.

Marybeth Glaser, Virginia DEQ

Marybeth Glaser is the Reimbursement Team Coordinator within the Office of Spill Response and Remediation. Prior to joining Virginia DEQ in 2004, she worked for various local and regional governments in Pennsylvania, Virginia, and West Virginia within the fields of Planning & Community Development, Grants Administration, and Utilities Management. Her private sector experience includes accounting, financial-credit management, and community association work. She is responsible for the management of the claims processing function within the department which includes management of the outsourced contractor performing claims processing. She also monitors and reports on the fund's solvency and claim demand trends. She has a B.A. in History from Waynesburg College and an M.P.A. from Virginia Commonwealth University.

Ellen Golombek, Colorado DLE

In 2011, Governor Hickenlooper appointed Ellen Golombek as the Executive Director of the Colorado Department of Labor and Employment. She brings more than 18 years of leadership and management to the department, an 1100-person agency, which houses the Divisions of Employment and Training, Labor, Unemployment Insurance, Workers' Compensation and Oil and Public Safety. She has a history of accomplishments through coalition building with statewide and national organizations. She has led reorganization and restructuring efforts and developed public policy through grassroots, legislative and electoral networks. Her previous experience includes state director for America Votes in Colorado and vice president for External Affairs for Planned Parenthood. She was the first woman elected as president of the Colorado AFL-CIO and spent four years with the 1.8 million-member Service Employees International Union.

Lorri Grainawi, Steel Tank Institute

Lorri Grainawi is the Director of Technical Services for the Steel Tank Institute and Steel Plate Fabricators Association. STI/SPFA consists of over 200 members who fabricate steel storage tanks

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for petroleum products, water and chemicals, steel pipes and pressure vessels. Employed with STI since 1990, her current responsibilities include overseeing STI's technical standards, conducting research on issues such as alternate fuels, maintaining STI's UL Listings, and overseeing STI's cathodic protection tester certification course. She also serves on a number of technical committees such as ASTM, NACE, Clean Diesel Fuel Alliance, NFPA, and UL. She has a B.S.M.E. from Illinois Institute of Technology in Chicago, IL.

Kevin Graves, California Water Resources Control Board

Currently the UST Program Manager with the California State Water Resources Control Board, Kevin Graves has over 15 years of experience with groundwater investigation and remediation. He received a B.S. from UC Santa Barbara in mechanical engineering and an M.S. from California State University Sacramento in civil engineering and is a registered Professional Engineer in both civil and mechanical engineering.

Anne Marie Gregg, Battelle

Anne Marie Gregg is a Principal Research Scientist with eleven years of relevant research experience in environmental science and environmental health. Her current research is focused on infrastructure, compliance, and compatibility issues for underground storage tanks (UST). She has directed verification tests of commercially available technologies for the detection of leaks from underground storage fuel tanks (automatic tank gauging systems). She is managing two U.S. EPA projects which focus on leak detection and failures of USTs. She also recently managed an investigation of severe and rapid corrosion of storing and dispensing equipment related to ultra-low sulfur diesel service.

Tom Groves, NEIWPC

Tom Groves joined NEIWPC in 1990 and has served as the director of Wastewater and Onsite Programs since 2000. He oversees the Commission's wastewater management, regional environmental training, onsite/decentralized wastewater, and other wastewater-related programs. In late 2011, he assumed responsibility for overseeing NEIWPC's extensive work on UST programs, including the National Tanks Conference. His management of NEIWPC's many training efforts includes oversight of the Maine Joint Environmental Training Coordinating Committee (JETCC) and the Massachusetts Wastewater Operator Training and Certification program, which in fiscal 2012, provided 75 wastewater classes across New England, training 1,588 individuals.

Duane Guilfoil, AST Environmental, Inc.

Duane Guilfoil has over 23 years of experience in environmental engineering and remediation. He graduated from the University of Kentucky in 1990 with a B.S. in Civil Engineering and holds

a P.E. license in Kentucky. After graduating, he began his career with Roy F. Weston (Weston Solutions) in Atlanta, GA. During his six years with Weston Solutions, he served as a project engineer and manager on multiple large remedial actions involving the construction of hazardous waste containment and closure systems, hazardous waste excavation and removal, and in-situ mechanical treatment systems (SVE, DPE, and Pump and Treat). In 1996, he took a position with Shield Environmental in Lexington, KY. During his last three years with Shield, he served as the Chief Operating Officer for the company, managing an environmental technical staff of 40 engineers, geologists, and scientists. He also served as the project director for the environmental investigation and remediation of approximately 600 leaking underground storage tank sites in Kentucky and surrounding states. In 2003, he joined AST Environmental in Lexington, KY, as a principal and vice president focused on identifying and implementing emerging remedial technologies. In 2005, AST began focusing its attention on the emerging in-situ injection market and the products being introduced. Since that time AST has become a leading in-situ technology company providing a unique injection approach involving high resolution sampling, detailed conceptual site models, intricate designs, and injection techniques. This approach has been used successfully to reach remedial objectives on over 35 in-situ injection projects. AST is currently the national distributor and training coordinator for Remediation Products's Trap and Treat BOS 100 and BOS 200 products.

Henry Haven, Navajo Nation EPA

Henry Haven has received a B.S. and M.S. in Geology from Fort Lewis College and Northern Arizona University in 1976 and in 1997, respectively. He is currently employed as a geologist with the Navajo EPA Leaking Storage Tank program where he is involved in the assessment and remediation of subsurface groundwater contamination from leaking underground and aboveground storage tanks. He has worked as a well-site and exploration geologist in the oil field with major oil producing companies during the oil boom in the late 1970s in the Four Corners Region. He has completed several scientific publications with the U.S. Geological Survey on the coal resources of Black Mesa.

Kevin Henderson, Kevin Henderson Consulting, LLC

Kevin Henderson is the president of Kevin Henderson Consulting, having formed this company upon retiring from the Mississippi Department of Environmental Quality after 25 years of service. He is a professional geologist with a B.S. in Geology and a M.S. in Geological Engineering. He provides UST training through many venues and is an instructor for several organizations, including the Steel Tank Institute. He has served on numerous industry committees

and has given many presentations on various UST issues during his career.

Brad Hoffman, Tanknology

Brad Hoffman has 25 years of experience with Underground Storage Tank systems, testing, and compliance. He holds a B.S. in Mechanical Engineering from the University of Tulsa and currently serves as Vice President of Engineering and R&D for Tanknology where he develops testing equipment and protocols, safety standards and quality systems, and manages the technician training program. He is active in PEI and API committees, and holds a Class A Engineering License in California as well as several state contractor licenses. He is a former field engineer and program manager for Exxon.

Zach Hope, Colorado OPS

Zach Hope supervises the Petroleum Compliance Section of the Colorado Division of Oil and Public Safety, which is involved in implementing and enforcing regulations on USTs, ASTs, propane and other gaseous fuels, fuel quality, and point-of-sale accuracy. Prior to working with the Compliance Section, he spent several years in the Division's Remediation Section overseeing petroleum assessment and remediation projects and enforcing applicable release reporting regulations. Before joining DOPS, he obtained his environmental engineering undergraduate education from the Colorado School of Mines and performed environmental consulting with a private firm.

Kevin Horrigan, Massachusetts DOR

Kevin Horrigan has been an Environmental Engineer with the Massachusetts Department of Revenue UST Program (formerly the 21J Fund) since 2001. Prior to 2001 he was employed by various environmental consulting companies. He earned both his B.S. and M.S. in Engineering from Montana State University-Bozeman.

Carolyn Hoskinson, U.S. EPA OUST

Carolyn Hoskinson has served as Director of EPA's Office of Underground Storage Tanks (OUST) since February 2009, and before that was the Deputy Office Director, beginning in August 2006. She started her career at EPA when she was fresh out of college 1991, and has served in several programs at EPA. She has a B.A. in Communications, Law, Economics and Government from The American University in Washington, DC. She grew up in the suburbs of New Haven, Connecticut and still returns home to visit family, and to enjoy her favorite New Haven-style pizza and birch beer. She is married to her high school sweetheart, Jim, and lives with him, and their two teenage sons, Jack and Ryan, in Silver Spring, Maryland.

Ruth Hummel, Iowa DNR

Ruth Hummel is an Environmental Specialist Senior with the Iowa Department of Natural Resources and is the regional LUST Coordinator for the northern half of Iowa. She has been

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with the department for 10 years during which she has been working with site owners and their consultants in the planning and review of assessment and cleanups at hundreds of leaking underground storage tank sites in Iowa. Prior to joining the department, she worked for 10 years as a petroleum geologist in Denver, CO, followed by 12 years as an environmental consultant in Iowa and surrounding states. She has a B.S. in Geology from the University of Iowa and is an Iowa Certified Groundwater Professional and a Kansas Licensed Professional Geologist.

Tim Hurlocker, Costco Wholesale, Inc.

Tim Hurlocker is a life-long resident of Washington State, and a graduate of the University of Washington. He has worked at Costco for 23 years, of which the last 16 years he has been the Director of the Gasoline Department. His responsibilities include fuel quality, detergent additives, regulatory compliance, station design, employee training, environmental protection, and above all, safety.

Ken Jewell, U.S. EPA ORD

Ken Jewell is an Environmental Scientist with the U.S. EPA's Groundwater and Ecosystem Restoration Division in Ada, OK. 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, Alabama DEM

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 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. Also, he is currently the Chair of the National Work Group on Leak Detection Evaluations, which he was instrumental in forming 20 years ago. He is a registered professional engineer in the states of Alabama and Wisconsin and has a B.S. in Civil Engineering from Michigan Technological University.

Scott Johnson, 7-Eleven, Inc.

Scott Johnson is a Region Gasoline Environmental Compliance Manager for 7-Eleven, Inc. He has worked for 7-Eleven, Inc. for 33 years holding a number of positions but spending the majority of his time working in the gasoline department. He

has managed all aspects of the 7-Eleven gasoline business from capital planning, retail pricing, gasoline training programs, site development, and facility maintenance to the current environmental compliance. He currently manages the gasoline environmental compliance program for 330 7-Eleven locations in ten states (IL, IA, KS, MO, IN, MI, KY, WV, OH, WI). He attended Northern Illinois University and is based in the Chicago area.

Bill Jones, Warren Rogers Associates, Inc.

Bill Jones is President of Warren Rogers Associates, located in Middletown, RI. WRA specializes in statistical analyses and fuel management issues. The firm provides Statistical Inventory Reconciliation Analyses (SIRA) and a Continuous In-Tank Leak Detection System (CITLDS) Continual Reconciliation to retail petroleum operators, public agencies, and trucking facilities. He is a graduate of the U.S. Naval Academy and has been an expert witness in storage tank litigation and arbitration proceedings.

Matthew Jones, New Hampshire DES

Matthew Jones is the Underground and Aboveground Oil Compliance and Enforcement Subsection Chief with the New Hampshire Department of Environmental Services, overseeing the inspection program for underground and aboveground tanks, the UST Operator Training Program, and Safetank Program. He has been with the NHDES for 11 years performing such duties as hazardous and solid waste complaint investigation, emergency response, air stationary source inspections, underground storage tank inspections, aboveground storage tank inspections, and development and implementation of the UST Operator Training Program. He has a B.S. in Environmental Science from Lyndon State College.

Mike Kass, Oak Ridge National Laboratory

Mike Kass is a senior researcher at the Oak Ridge National Laboratory's Fuels, Engines, and Emissions Research Center. He has spent much of his time running engine-based research projects and researching fuel-material interactions with an emphasis on polymer compatibility to biofuels. The primary research focus has included both empirical studies and solubility analysis. He holds a Ph.D. in Metallurgical Engineering from University of Tennessee - Knoxville.

Andrew Kirkman, BP

Andrew Kirkman is the lead LNAPL Technical Specialist for BP America. He joined BP in 2012 with 14 years of experience and currently supports LNAPL related site remediation, educational advocacy and research efforts. Previously, he was the Global LNAPL Technical lead for AECOM Environment. He focused on characterization and remediation of railroad, manufactured gas plant, tie treatment facilities, and petroleum facilities in North America and internationally. He has led and participated in multiple industry advocacy efforts

related to LNAPL, these include: 1) chairing the ASTM task groups related to LNAPL transmissivity and LNAPL Conceptual Site Models; 2) generating publications for Applied NAPL Science Review, American Petroleum Institute, and Groundwater Monitoring and Remediation and; 3) supporting ITRC since 2008 and became an ITRC trainer in 2012.

Nina Kondos, Arizona DEQ

Nina Kondos recently retired as a Senior Enforcement Officer with the Arizona Department of Environmental Quality, Office of Administrative Counsel, Strategic Enforcement Unit. She conducted PRP/RP location and asset searches for ADEQ waste, air quality, and water quality programs. She also teaches other PRP/RP related training classes including Introduction to Conducting a PRP/RP Search; Advanced PRP/RP Searches; and FAQs, Frequently Asked Questions - Identifying the Responsible Party, an overview of legal entities/business structures. Before joining SEU in 2004, she was a compliance enforcement officer in the drinking water unit for ten years. She received a B.A. in Business from Western International University Phoenix Campus, and an American Bar Association approved Legal Assistant/Paralegal Certificate from Phoenix College.

John Kovacs, New Mexico ED

John Kovacs joined the New Mexico Environment Department in 2001 as a geoscientist manager with the Petroleum Storage Tank Bureau in Santa Fe. Since that time he has worked on UST/AST spill remediation throughout the state in a variety of terrain and leak scenarios. Since 2003, he has been PSTB's coordinator with several of the tribes in New Mexico, acting to tie together the best efforts of tribes and NMED to attack fuel contamination on tribal lands. Through the years, he has been involved in projects ranging from SVE/MPE to large digs. One current project will employ the use of horizontal SVE wells under a 120 ft width of HWY 70 in Las Cruces, NM.

Jeff Kuhn, Montana DEQ

Jeffrey Kuhn is a hydrogeologist with the Montana Department of Environmental Quality where he manages the LUST/Brownfields Section. He speaks nationally and internationally on fuel oxygenate and additive contaminants, site characterization strategies, and environmental remediation alternatives. He leads the National Fuel Oxygenates and Additives Workgroup. He has participated as a team member of the Interstate Technical Regulatory Council (ITRC) LNAPL Team and assisted U.S. EPA OUST's efforts in developing technical guidance documents. He teaches field courses in geology, climate change, and natural history in Glacier National Park where he formerly worked as a seasonal ranger. He holds a B.S. degree in Geology from Juniata College, PA, and a M.S. degree in Geology from the University of Montana.

Robert Largent, Inter-Tribal Environmental Council

Robert Largent holds a B.S. in Environmental Science from Midwestern State University in Wichita Falls, TX, and an M.S. in Industrial Management from Northeastern State University in Tahlequah, OK. He began working for the Inter-Tribal Environmental Council in September 2002. He currently possesses an Underground Storage Tank Inspector Certification, NACE International Cathodic Protection Tester License, CHMM certification, and a 40 Hour Haz-Wopper certification. He is licensed as a Registered Sanitarian and a Registered Environmental Specialist. He teaches environmental college classes at NSU and has been an instructor for UST inspectors across the nation. He has contributed to the NTC Planning team since 2005.

Matthew LeLacheur, ECS, Inc.

Matthew LeLacheur is the Director of Business Development for Environmental Compliance Services. 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, and claim reimbursement services. He is responsible for the development and implementation of ECS's growth strategy through its unique product and service lines. Identifying market trends and key interest groups for collaborative opportunities is another major focus of his work. Prior to joining ECS, he enjoyed a five-year career as the Executive Director of the New England Service Station and Automotive Repair Association. There he oversaw the development and execution of all financial, governmental, and organizational activities while building relationships with key personnel at over 1200 gas stations, automotive repair shops, and convenience stores. He received his B.S. in Business Management from the University of Massachusetts in 2001.

Levi Lementino, Zuni Environmental Protection Program

Levi Lementino is the Project Officer for the Zuni Environmental Protection Program. For the past 3 years he has been working with the Pueblo of Zuni to help develop tribal environmental regulations and to address identified environmental concerns on the Zuni Reservation in New Mexico. His work in USTs has focused on the shared monitoring of 2 LUST sites & 2 active UST locations; the initiation of an EPA Brownfields Revitalization Project; and continued communication with local, state, federal authorities and property owners to ensure compliance with EPA regulation and the honoring of Cooperative Agreements made with the State of New Mexico. He has an educational background in Geology and Professional Writing from the University of New Mexico.

Don Lundy, Groundwater & Environmental Services, Inc.

Don Lundy is a Principal Hydrogeologist with the Environmental Informatics Group within Groundwater & Environmental Services, Inc. (GES). He has worked in groundwater consulting since 1978 and specializes in solving multi-phase environmental problems related to releases of LNAPLs and DNAPLs. He contributed to the development of the 2004 API Interactive LNAPL Guide, served on the subcommittee for development of the 2007 ASTM LNAPL Guide E 2531-06, and is on the writing team for the 2013 update of that document. He has organized and led several LNAPL training courses for the National Groundwater Association and for the Massachusetts Licensed Site Professionals Association. His presentation provides an update on his ongoing Ph.D. research at an LNAPL release site near Bemidji, MN.

Gary Lynn, New Hampshire DES

Gary Lynn manages the Petroleum Remediation Section at the New Hampshire Department of Environmental Services. He has a B.S. in ChE/Chemistry from Northwestern University and an M.S. in Civil Engineering with Environmental specialization from Virginia Polytechnic Institute and State University. He is a professional engineer with 30+ years of experience in process engineering, environmental consulting, and state regulatory agencies. During his tenure at DES, he managed the Pease Air Force Base cleanup program, was the first coordinator of the Brownfields program, and now runs the petroleum remediation program. He also received two environmental merit awards from EPA Region I for brownfields and site cleanup achievements.

Dorothy Malaier, Alabama DEM

Dorothy Malaier is the Chief of the Underground Storage Tank Corrective Action Section of the Alabama Department of Environmental Management. She is responsible for the oversight of the UST Corrective Action Program which includes the LUST Cleanup program and is a manager of the Alabama Underground and Aboveground Storage Tank Trust Fund. She has been a part of the Alabama UST program for over 22 years. She is an Alabama licensed Professional Geologist and is currently the Vice-Chair of the ASTSWMO LUST Taskforce. She received her B.S. and M.S. in Geology from the University of Alabama.

Darnell Manning, Georgia EPD

Darnell Manning is a Unit Coordinator for the Georgia Environmental Protection Division, UST Management Program. He has a B.S. in Chemical Engineering from Michigan State University and has worked with Georgia's UST Management Program for 23 years. After performing as an Environmental Engineer/Project Officer for 6 years overseeing corrective action by both state and owner/operator led contractors, he took over

management of the State Fund Reimbursement Corrective Action Unit in 1996. In this capacity, he manages corrective action, enforcement, and disbursements from the State Fund totaling at \$20-\$22 million annually.

Dan Manweiler, Virginia DEQ

Dan Manweiler currently manages both tank clean up and inspections programs and the solid and hazardous waste programs for the Southwest office of the Virginia Department of Environmental Quality. He received a B.S. degree in Geology from Virginia Tech in 1981, and has held several positions in energy exploration and environmental regulation during his career.

Pam Maples, Navajo Nation EPA

Pam Maples is currently employed as an Environmental Specialist with the Navajo EPA Leaking Storage Tank program and is involved in the assessment and remediation of leaking petroleum contaminated sites. She has worked as an environmental remediation specialist performing air monitoring and contractor supervision of asbestos and mold abatement projects, PCB releases, operation and maintenance of remediation systems at contamination sites, groundwater sampling, and as a geophysical field technician conducting soil resistivity, magnetic, and electromagnetic surveys on environmental and archaeological sites throughout the Southwest. Most recently she developed an electronic data management system and database for the Storage Tank and Leaking Storage Tank Programs.

Jon Marinas, JMM Global

Jon Marinas is a company founder of JMM Management Group, LLC d/b/a JMM Global. He is responsible for all company operations and oversight for the Illinois and California office. He has over 19 years of UST/AST regulatory management, operational compliance management, information management, and HSSE representation. He holds a B.S. in Civil Engineering with an emphasis on Environmental Management from the University of California-Berkeley. He is also a Licensed Professional Engineer in Illinois, Texas, Florida, and Georgia. He previously served with BP America as an environmental manager where he oversaw BP's HSSE department as a prevention/assurance team lead and environmental team lead for BP's East of the Rockies operations; Tanknology as VP of Corporate Services, Senior Project Manager and Unit Manager; Earl Sheib, as a HSSE assistant and Chevron Oil (during undergraduate studies) as an intern for Chevron's environmental health and safety department.

Mike Martinson, Antea Group

Mike Martinson is a Senior Consultant with over 30 years of environmental management experience. In his role at Antea Group, he conducts peer reviews, evaluates remedial alternatives and their

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selection, assists to implement remedial options for both passive and engineered remediation approaches, and works with project teams to improve remedial system performance leading to incident closure. He led the Antea Group project team that developed the Design Specification for the Leaking Underground Storage Tank Remediation Carbon Footprint Calculator. The calculator funding was provided by the State of California State Water Resources Control Board and by EPA Region 9.

Robert May, Synergy Environmental, Inc.

Robert (Bob) May is a Vice President with Synergy Environmental, a full service environmental consulting firm that provides turnkey consulting and engineering services, including UST Operator Training, release investigation, remedial design, installation and ongoing operation and maintenance. He is responsible for engineering and regulatory compliance services for numerous clients with large regional fuel storage tank portfolios. He is a licensed UST Inspector in Massachusetts, and an UST Installer and Tester in New Jersey. He is also a thirteen year member of the Pennsylvania DEP Storage Tank Advisory Committee. He 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 has a B.S.E.M. from West Virginia University and an M.B.A. from Marshall University.

Shaun McGrath, U.S. EPA Region 8

Shaun McGrath comes to Region 8 from Wheelhouse Associates, where he co-led the policy, program and technology integration company's efforts to help local state and national governments advance clean energy and environmental goals. Before joining Wheelhouse Associates, he served as the executive director of the American Solar Energy Society in Boulder. His private-sector experience is further strengthened by his considerable experience in the public sector, where he has spent time working with all levels of government. He began his career assisting Kansas companies interested in exporting their products and services to Europe as the trade manager for the Kansas Department of Commerce European Office. Later he served on the Boulder City Council for four years, and was elected as mayor of Boulder in 2007. He spent more than a decade working with the Western Governors' Association, serving as a program director on a number of environmental issues including climate adaptation, water and drought. He has also worked on the federal level as deputy director of White House intergovernmental affairs, where he was the principal liaison and point of contact in the White House for the nation's governors.

Jonathan McNeely, Tank Tech

Jonathan McNeely is the Director of Corporate Communications for Tank Tech. With over a

decade of experience in the UST/AST markets, he has been privileged to serve as the keynote speaker in numerous conferences and conventions for multiple organizations and state agencies concerning fuel storage tanks. Tank Tech is recognized as the leading industry expert in tank linings, inspections, and co-structural/self-structural tanks upgrades. He received his secondary education in Business Marketing from Oral Roberts University and is employed at the Tank Tech corporate headquarters in southeast Missouri.

Steven McNeely, U.S. EPA OUST

Steven McNeely is an Environmental Protection Specialist with 20 years of experience in the U.S. EPA Office of Underground Storage Tanks. He has a B.S. in Environmental Management from Howard University. During his tenure in OUST, he served as the liaison officer to EPA Regions 2, 4, 5, 6 & 8. As a member of OUST's Corrective Action Technologies Team, he has fostered a wide range of projects to improve the understanding and use of alternative remedial technologies applied at petroleum sites. From 1993 through 1998 he served as the project officer managing EPA's RBCA training cooperative agreement with the ASTM and managed the Partnership In RBCA Implementation (PIRI). PIRI was the public-private partnership designed to facilitate the delivery of RBCA training to state UST programs. He currently serves as a petroleum revitalization Team Leader working with EPA HQ programs, regions and states to enhance the integration and implementation of petroleum provisions of the Brownfields Law. He also serves as OUST's contact for the Federal Facility and State Government UST Compliance Reports resulting from the passage of the Energy Policy Act of 2005.

Alicia Meadows, Virginia DEQ

Alicia Meadows is currently the UST Operator Training/Compliance Coordinator for the Virginia Department of Environmental Quality. She has over 16 years of experience in the Petroleum Storage Tank Division of DEQ. Previous to her current position, she conducted over 1,600 UST facility inspections as a Petroleum Storage Tank Facility Inspector. She has trained DEQ staff, other state agency staff, local officials, and tank owners/operators on UST regulatory requirements and interpretations, cathodic protection systems, and industry standards. She received a B.S. in Biology from Roanoke College.

John Menatti, Utah DEQ

John Menatti is the Manager of the Petroleum Storage Tank Trust Fund, Division of Environmental Response and Remediation, Department of Environmental Quality, Salt Lake City, UT. He is a Utah-licensed Professional Geologist, and holds an M.S. in Environmental Science (2007) from the University of Utah and a B.S. in Soil Science (1980) from California Polytechnic State University - San Luis Obispo. He worked for two national environmental consulting firms (Woodward-Clyde

Consultants and PRC Environmental Management in San Diego, CA), 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, CA), and operated his own environmental consulting firm in Utah (JLM Environmental Consulting). He is also co-team leader of the ITRC Petroleum Vapor Intrusion Team and an instructor with the ITRC LNAPL Team.

John Morgan, South Carolina DHEC

John (Trey) Morgan graduated from Clemson University in 1994 with a B.S. in Aquacultures, Fisheries, and Wildlife Biology. He has been employed with the South Carolina UST Division since 1998. His professional knowledge base comes from nearly a decade of in-the-field experience as an UST inspector. During this time, he conducted close to 3,000 compliance inspections and several hundred complete underground storage tank system installation inspections and tank abandonments. As the Senior Technical Adviser for the last 6 years his duties have included, but not been limited to, providing continual field inspection training to every state UST inspector on a 3-month rotation and maintaining quality control for all UST inspections conducted in South Carolina (around 4,200 inspections per year). He has a very good working knowledge of UST equipment functionality, manufacturer specifications/industry standards for installation, leak detection methods, corrosion protection, fueling operations, and problem solving associated with unusual operating conditions. Pertinent training via certifications include tank installation with the International Fire Code Institute, Cathodic Protection with STI administered by Corrosion Control Inc. of Rutledge, GA, Dualoy 3000 Installation Procedures Training with Ameron International, and Tank-Line-Leak detector testing with Estabrook EZY CHEK Systems. He has also recently become a voting member of UL STP 58.

Marshall Mott-Smith, Mott-Smith Consulting Group

Marshall Mott-Smith is the President of The Mott-Smith Consulting Group, LLC. He is also the National Technical Expert and Regulatory Liaison for AET Compliance, and the Vice President of The National Institute for Storage Tank Management. He has worked with storage tank systems since 1983, and was the Florida DEP Storage Tank Regulation Section Administrator from 1986-2008. He was instrumental in developing Florida's Compliance Verification Program, writing Florida's rules for secondary containment, bringing flex-pipe problems into public view, and establishing Florida's Leak Autopsy Studies. He has testified before four Congressional Committees, given hundreds of presentations, and written numerous articles for national and international publications.

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He is on the UL 971 and 1856 Reference Standard Committees, and is an STI SP-001 Certified AST Inspector.

Leo Mullin, U.S. EPA Region 3

Leo Mullin is a Cost Recovery Expert for EPA Region 3. He joined EPA as a Civil Investigator in 1989. His responsibilities include conducting potentially responsible party searches; assisting with cost recovery complaints; and making determinations on liability issues such as corporate veil piercing, corporate successor liability, allocation of liability, ability to pay, and financial assurance. He also assists in responding to questions concerning the potential liability of purchasers of contaminated property. He has testified as an expert witness on issues such as ability to pay, property valuation, the cost of site cleanups, and allocation of responsibility for site cleanups.

Christopher Mulry, Groundwater & Environmental Services, Inc.

Christopher Mulry is a Vice President and Principal Hydrogeologist with GES. He provides technical assistance to project teams and leads an internal group of hydrogeologists focused on technical innovation, quality and training. He has a diverse background in environmental investigations, risk management and the design, operation and maintenance of soil and groundwater remediation, and management programs primarily at petroleum facilities. He has served with GES in various technical and managerial capacities since 1986 and has worked at project sites in the U.S. and internationally. He has experience with direct sensing and geophysical tools and techniques as well as multi-level evaluations in complex and fractured rock settings. He has presented technical topics on a wide range of subjects including conceptual site model development, fractured rock characterization, LNAPL behavior, and petroleum vapor intrusion. He has a B.S. in Geology from the University of Delaware and an M.S. in Geology from the University of Maine. He is also a licensed professional geologist in the states of Delaware, Pennsylvania, and Virginia.

Josh Nagashima, Hawaii DOH

Josh Nagashima is a remedial project officer with the Underground Storage Tank Section of the Hawaii Department of Health. In addition to his regulatory duties, he performs vapor intrusion and vapor sampling studies. He has a B.S. in Chemistry and three years of post-graduate study in the Ph.D. program at the University of Hawaii. He is also a member of the Interstate Technology and Regulatory Council's Petroleum Vapor Intrusion Team.

Scott Noland, Remediation Products, Inc.

Scott Noland graduated from Colorado School of Mines with a degree in chemical engineering and has over 25 years of experience in the environmental industry, focusing on in-situ remediation for the last 18 years. Over the years,

he developed an approach to in-situ remediation that has proven effective with a variety of remedies. The high resolution sampling work and development of injection techniques over several years culminated in the formation of Remediation Products and the "Trap and Treat" concept. He is the President of Remediation Products and the inventor of their "Trap and Treat" and BOS 200 products. These products and the associated approach to remediation are sweeping the country and resulting in rapid site closures.

Danny Opie, Opies Transport, Inc.

As the owner of a trucking company licensed in forty-eight states and Canada, Danny Opie's nearly 40 year experience with fueling facilities spans the entire period of time that UST laws and regulations have been in existence. He is experienced in the changes in ownership and equipment at retail locations, the changes in fuels triggered by air pollution rules, and having served ten years as a Trustee for Missouri's tank fund, has participated in many decisions that impact UST/LUST activities. His company has nearly 100 trucks with SCR technology that use Diesel Exhaust Fluid, and he employs 150 people. He has a B.S. in Industrial Relations and Business Administration, has served as officer of various state and national associations and is a recognized business leader in his community.

Robin Parker, U.S. EPA OUST

Robin Parker is an Environmental Protection Specialist with U.S. EPA OUST and has coordinated efforts to improve the operation and performance of state UST/LUST programs for the past seven years. She serves on OUST's Petroleum Brownfields team and is working with the Office of Brownfields and Land Revitalization to plan and coordinate the cleanup and reuse of UST sites for the benefit of surrounding communities. She also serves as the OUST Regional Liaison team leader, and helped conduct the OUST Backlog study published in 2011. She worked in the Urban Waters program in EPA's Office of Water for one year, helping communities restore and protect their waterways, and is currently involved in several OUST initiatives related to LUST cleanup programs. She holds an M.S. in Environmental Science and in Public Affairs from Indiana University.

Chris Pearson, AECOM

Chris Pearson has 20 years of experience at AECOM and is a specialist in the fields of environmental engineering and subsurface remediation design at petroleum refineries, exploration and production sites, and chemical plants, including the design of multiple soil and groundwater remediation systems, LNAPL recovery, in-situ bioremediation, in-situ chemical oxidation, monitored natural attenuation, soil vapor extraction, bioventing, sparging and phytoremediation. He has additional experience in LNAPL distribution and recovery modeling and was AECOM's representative on the Interstate Technology & Regulatory Council's

LNAPLs Team (2008-2010) including publishing technical guidance documents for state regulators in December 2009.

Ellen Peneguy, Access Sciences Corporation

Ellen Peneguy, Senior Records Analyst with Access Sciences Corporation, has eight years of experience assisting the public and employees of the Louisiana Department of Environmental Quality to maintain, store, and access their paper and electronic records. She specializes in providing communication and training on records and information management and has spoken at local, regional, and international conferences.

Heather Peters, Missouri DNR

Heather Peters started with the Missouri Department of Natural Resources in the Tanks Section in 1999 and had the opportunity to conduct some of the post-upgrade inspections. In 2005, after the MDNR lost UST inspectors as part of a state budget change, she was part of the "rebuilding" of the UST inspection program. The department now has a permanent, composite inspection program, which includes MDNR staff, MDNR inspectors, contract inspectors, as well as cooperation with the state's insurance fund. In addition, Missouri recently promulgated new UST regulations. She gained valuable experience from the challenges and "opportunities" these challenges created. In addition, she reviews submittals for new equipment, new materials, compatibility concerns, as well as special requests for compliance determinations.

Keith Piontek, TRC Environmental Corporation

Keith Piontek manages TRC's St. Louis regional office and serves as a project manager and senior technical consultant. He is an environmental engineer with over 25 years of experience in the assessment and management of environmentally-impaired properties. He has a track record of developing practical, cost-efficient site investigation and remediation strategies and supporting his clients by winning agency support for those approaches. Areas of special expertise include risk-based corrective action, monitored natural attenuation, establishing pragmatic endpoints for active remediation systems, and litigation support on matters involving site remediation. He has authored or co-authored 15 technical papers dealing with impaired site management technology, approaches, and policy. He has a M.S. in Civil Engineering (Environmental/Sanitary) and a B.S. in Civil Engineering from the University of Missouri-Columbia. He is a certified Professional Engineer in Missouri and Kansas.

Michael Pomes, U.S. EPA Region 7

Michael Pomes works as an Environmental Scientist in the Storage Tank and Oil Pollution Branch in the Air and Waste Management Division of EPA Region 7 in Lenexa, KS. Before coming to EPA in September of 2010, he supervised the Preventative UST Unit of the Storage Tank

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Section at the Kansas Department of Health and Environment for 10 years that ran the permitting program for USTs and ASTs in Kansas. He received a Ph.D. in Geology from the University of Kansas, Lawrence, a M.S. in Geology from Fort Hays State University, Hays, KS, and a B.S. in Geological Sciences from the University of Wisconsin-Milwaukee. He is a Kansas Licensed Geologist and a NACE-Certified Cathodic Protection Technician (CP2).

Ruth Porter, West Virginia DEP

Ruth Porter is the Underground Storage Tank Program Manager for the West Virginia Department of Environmental Protection. She previously served as a WVDEP Project Manager for voluntary remediation and leaking underground storage tanks and served as the Division's Quality Assurance Manager. She has over 25 years of experience in the environmental field working in both state government and private industry. She has broad experience in industrial hygiene, environmental laboratory analysis, air emissions testing and permitting, remediation, and extensive site assessment experience including numerous Phase I Environmental Site Assessments. She holds a B.S. in Chemistry from Marshall University.

Marcia Poxson, Michigan BFS

Marcia Poxson is an engineer with the Michigan Bureau of Fire Services (BFS), Storage Tank Division (STD) responsible for the review of proposed new products for use in Michigan and proposed installations of storage tank systems containing flammable and combustible liquids and gases. She graduated from Michigan State University with a B.S. in Electrical Engineering, with a minor in Computer Science. She has certifications in property valuation, LPG and CNG applications, and corrosion protection. She is also the office contact for hydrogen systems. In her spare time she operates 2 small businesses, owns and operates her own aircraft, and enjoys reading, hunting, and gardening.

Brett Redd, Storage Tank Technology, Inc.

Brett Redd has over 21 years of management and technical experience in the fields of geology, geophysics, soil and groundwater remediation, engineering, and business management. He is a registered professional engineer in the state of Colorado with a B.S. in Geophysical Engineering and an M.S. in Civil Engineering. He is currently the President of Storage Tank Technology (founded in 1987) focusing on a wide range of tank related issues.

Stephen Reuter, New Mexico ED

Stephen Reuter was born and raised in northern New Jersey where he attended Montclair State College and received his B.S. in Geology in 1976. He answered a newspaper ad to participate in exciting geophysical field work in the beautiful Rocky Mountains, and joined Century Geophysical Corporation in Grants, NM. Two years of uranium

exploration ensued, followed by a stint in graduate school at the University of Texas El Paso where he received his M.S. in Geology. It was 1981, and Exxon hired him to work in Midland, TX, at the height of the 80s oil boom. He resigned from his position as a Senior Exploration Geophysicist after 9 years, and broke into the environmental field by forming an independent consulting firm called Advent Environmental Services. He joined the New Mexico Environment Department Underground Storage Tank Bureau as a Team Leader in 1996 and advanced to become the Bureau Chief. In 2000, he left state work to perform corrective action at Superfund sites. After two years of Superfund corrective action, he rejoined the New Mexico Environment Department, Petroleum Storage Tank Bureau in February 2002 as the District 1 Geologist Manager, where he currently oversees corrective action associated with petroleum storage tanks. He currently chairs the ASTSWMO LUST Task Force of the Tanks Subcommittee.

Charles Reyes, ASTSWMO

Charles Reyes has 8 years of experience in the environmental policy and research field, and currently manages ASTSWMO's Tanks Subcommittee and Federal Facilities Research Center. ASTSWMO is an association representing interests of State environmental regulators from the 50 U.S. States, five territories, and the District of Columbia (States). He is responsible for managing cooperative agreements and contracts by and between ASTSWMO and the U.S. EPA and other national State organizations, and oversees research and product developments of the Tanks Subcommittee and FFRC. He works closely with States, U.S. EPA, Department of Defense, and other federal agencies to provide policy and technical training to States, and to assist State and Federal coordination in the underground storage tanks and federal facility restoration and reuse programs. Prior to working with ASTSWMO, he worked as a consultant for federal and State agencies conducting research and investigations required under CERCLA, the Defense Environmental Restoration Program, and State regulatory programs. He received his B.A. from Virginia Polytechnic Institute and State University in 2004.

Roland Riegel, Underwriters Labs

Roland Riegel has been at Underwriters Labs for 26 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. Key global responsibilities in this product group include: 1) 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; 2) assessment of

new and unusual or complex technical products; preparation and upkeep of global data sheets and form reports; and engineering support and training; 3) participation in UL policy development of coordinated requirements for material compatibility with fuels and; 4) technical oversight of UL certifications and consistency. PDE primary responsibilities include: drive global consistency, integrity and engineering quality in the development, maintenance and application of UL's certification requirements and delivery of UL conformity assessment services through technical competency, leadership and communication. Provide overall technical decision making, consultation or assistance for all flammable liquid containment product categories (45) by interaction with UL's Top Management Team of technical, business, standards, certification, legal and other key departments. Major duties include UL representation on various code technical committees and task groups; UL representation on various standards technical panels for generating new or revised requirements; certification support through development of global forms for data sheets, technical reports and inspection procedures; and business support by development of new business areas and staff training.

Cathy Rodda, Oregon DEQ

Cathy Rodda has worked with the Oregon Department of Environmental Quality, Environmental Cleanup Program since August 2004. Most of her projects involve petroleum tank releases, but she also manages other sites including dry cleaner and industrial spills. She has conducted tank installation and decommissioning inspections, and has been a team member with various work groups within her program. She also serves as an after-hours duty officer with the Emergency Response Program, providing technical assistance, coordinating cleanup efforts, and responding with a team for major spill events. Prior to moving to Oregon, she worked with the Wisconsin Department of Natural Resources in several environmental regulation programs, including the Remediation & Redevelopment. Her duties involved LUST and non-petroleum cleanup project management, brownfield redevelopment, site screening, and spill response.

Tara Rosie, Arizona DEQ

Tara Rosie is the section manager for the UST Corrective Action Section of the Arizona DEQ. She oversees the leaking UST cleanup program which includes corrective actions managed under the State Lead program. She is also administrator of the state leaking UST cleanup fund. She has worked for the Arizona DEQ for 15 years. She is a member of the ASTSWMO State Fund Financial Responsibility Task Force and the ASTSWMO Alternative Fuels Workgroup.

Christopher Ruybal, U.S. EPA ORD

Christopher Ruybal is a student at the Colorado School of Mines and a student services contractor

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with the U.S. EPA. His research is focused on subsurface gas and vapor transport.

Richard Saathoff, Utah DEQ

Richard (Rick) Saathoff has worked for the Utah DEQ in the Underground Storage Tank Branch for the past 16 years. His main job functions have been compliance and enforcement inspections of underground storage tank sites. Other duties that he has been involved in include database management and GIS applications. He received his education at Idaho State University, receiving a B.S. degree in Biology and an M.S. degree in Hazardous Waste Management.

Nicholas Santella, Brownfield Science & Technology

Nicholas Santella earned his B.S. in Chemistry at Rutgers University in 1999 and his Ph.D. in Geological Sciences from Columbia University in 2005. Author of numerous articles in the environmental and engineering fields, his specialties include environmental chemistry, tracer hydrology and probabilistic risk analysis. He serves as a Chemist/Hydrogeologist in BST's Mid-Atlantic office.

Thomas Schruben, American Cost Recovery Management, LLC

Thomas Schruben is an environmental risk management consultant and a Partner in American Cost Recovery. He started his professional career as an environmental engineer in 1981. In 1986, he joined U.S. EPA OUST to help write the Federal UST regulations. While at EPA he assisted State programs and 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. Since 2000 he has investigated UST product failures and provided advice to tank owners and State Funds on recovering costs from insurers, manufacturers of defective products, and negligent service providers.

Chuck Schwer, Vermont DEC

Chuck Schwer is the program manager for the Sites Management Section for the Vermont Department of Environmental Conservation. He oversees the LUST program and the state Petroleum Cleanup Fund. He has been with the program since 1986. He also serves as the chair for the ASTSWMO Tanks Subcommittee.

Kim Sellards, California SWRCB

Kim Sellards works for the California State Water Resources Control Board. She has served as the Chief of the Fraud, Waste, and Abuse Prevention Unit since February 2010 and as the Chief of the UST Enforcement Unit since August 2008. Under her leadership, the Units have reached settlements in cases against Shell/Equilon, the City of Long Beach, Hayden Environmental, E2C Remediation,

Big Oil & Tire, Golden Gate Petroleum, and Tesoro resulting in over \$14 million. Prior to working in enforcement, she was employed at the environmental consulting firms URS and Dames & Moore, conducting investigation and remediation at Superfund sites. She is a Professional Geologist, Certified Fraud Examiner, and International Code Council Certified UST Inspector. She received a B.S. in Geological Engineering from the University of Missouri-Rolla and a M.S. from Ole Miss.

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. He is OUST's point of contact on issues related to release detection, UST compliance, inspector training, operator training, and inspections. He is also the Team Leader of the National Work Group on Leak Detection Evaluations' Interstitial Monitoring and Out-of-Tank Detector Methods Team.

John Sohl, COLUMBIA Technologies

John Sohl, CEO of COLUMBIA Technologies, relies on his 40 years of leadership and business development to direct innovative business solutions fusing technology, geochemistry, and informatics in the growing field of environmental services. He holds a B.S. from the U.S. Naval Academy and served 20 years in the U.S. Navy nuclear submarine force after graduating in 1972. In 1987, he received an M.B.A. from Chaminade University in Honolulu. Upon leaving the service in 1992, he served in senior management positions with several small companies in the environmental industry. In 1999, he co-founded COLUMBIA Technologies with the goal of significantly advancing the state-of-the-art process in data acquisition and delivery for underground site assessments on a global level. His integral role in providing his clients with remediation focused real-time data has resulted in long-term cost savings for over 1,000 high resolution site characterizations throughout Mexico, Canada, Brazil, and North America including Hawaii.

Bobby Sonnier, Colorado OPS

Bobby Sonnier is the Enforcement Coordinator for the Colorado Division of Oil and Public Safety. He has been with OPS since 2004. Prior to that he worked in the environmental consulting industry for 16 years. He has a B.S. in Geology from the University of Louisiana-Lafayette.

Jeffrey Sowards, National Institute of Standards and Technology

Jeffrey Sowards is a Research Metallurgist in the Applied Chemicals and Materials Division at the National Institute of Standards and Technology in Boulder, CO. His research experience at NIST includes investigation of corrosion and its effects on mechanical property degradation of structural materials and fuel pipelines, determination of structure-property relationships of engineering materials, and evaluating effects of welding and

materials processing on microstructure and mechanical properties. Prior to arriving at NIST in 2009, he was a graduate student and postdoctoral fellow at Ohio State University and a guest researcher at the Brazilian Synchrotron Light National Laboratory. He received a B.S.W.E., M.S., and Ph.D. from Ohio State University where he studied welding metallurgy and corrosion.

Richard Spiese, Vermont DEC

Richard Spiese is a project manager with the Vermont Department of Conservation's Waste Management Division, where he has worked since 1987. He has worked on over 500 hazardous waste sites in that time. He is also a member of the Agency's Spill Response Team and a member of the Vermont Hazardous Materials Response Team. He has worked on regional issues with Northeast Waste Managers Official's Association for over a decade and on national issues as a member and LUST Task Force Chair with the ASTSWMO for 14 years. He has also worked on planning for the National Tanks Conference for many years.

Randy St. Germain, Dakota Technologies, Inc.

Randy St. Germain, President of Dakota Technologies, developed much of Dakota's underlying time-resolved LIF technology while pursuing an M.S. in Analytical Chemistry at North Dakota State University from 1987 to 1991. He and his colleagues have developed a continually improving series of direct push deployable site characterization systems for high-definition delineation of petroleum, coal tar, and creosote NAPL in the subsurface. From early LIF research field trials as a research assistant in 1992 at Tinker AFB, subsequent commercialization of the ROST, UVOST, TarGOST and tomorrow's Dye-LIF system for chlorinated DNAPL, he has spent the last 21 years "chasing NAPL" with LIF.

Curtis Stanley, Shell Global Solutions

Curtis Stanley is the Global Discipline Leader for Hydrogeology in Shell. In this role, he helps coordinate global technical support to Shell in the area of soil and groundwater contamination. He has conducted or supervised subsurface investigations and remedial action at over 500 locations in the U.S. and across the globe. He is certified through AIPG as a Certified Professional Geological Scientist. In addition, he is a licensed geologist in North Carolina and Texas. He is also an EPA Peer Reviewer and is the chairman of the American Petroleum Institute's Soil/Groundwater Technical Task Force. As part of his efforts through API, over 200 research projects, technical bulletins and outreach programs have been finalized since the early 1980's. These efforts have focused on site assessment, risk assessment, and remediation related to petroleum hydrocarbons and oxygenates.

Kevin Strohmeier, Kentucky DEP

Kevin Strohmeier first started working with petroleum products as a research assistant in 1990

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on grant money from the Exxon Valdez crude oil spill and continued research on bioremediation into 1996. He then worked for a few years as a private consultant doing Phase 1 work, including numerous retail petroleum facilities. His "temporary" government career began in 1998 working with Kentucky's UST assurance fund, and he became a UST inspector in 2004. Since then, he has continued inspections, worked on policy and regulation development and trained new UST inspectors and refreshed veteran inspectors. Most recently he has begun work on a comprehensive analysis of Kentucky's inspection process with the primary goal of focusing efforts on those details that have the greatest impact on release prevention and operational compliance.

Perry Theriot, Louisiana DEQ

Upon graduating from LSU Law, Perry Theriot served for two years as Personal Law Clerk to the Honorable Wallace Edwards, Judge, Louisiana Court of Appeals for the First Circuit. After completing his clerkship, he was appointed as Assistant District Attorney for the Parish of St. Tammany, 22nd Judicial District Court for the State of Louisiana. In his capacity as Assistant District Attorney, he represented political subdivisions within the Parish of St. Tammany including the St. Tammany Police Jury and Fire Districts within the parish. He also maintained a private practice representing the Louisiana Office of Risk Management and other private plaintiffs. He joined the Louisiana Department of Environmental Quality in 1994 and has served in numerous capacities including Attorney assigned to UST, Bankruptcy, Remediation, and Enforcement; and, as Attorney Supervisor of the Legal Enforcement Section and the Legal Permits Section. He also served as the agency Ombudsman. Among his many accomplishments while representing the DEQ, he was responsible for conducting the trial, in the Matter of Friede-Goldman, in U.S. Bankruptcy Court for the Southern District of Mississippi, resulting in the recovery of 2.5 million dollars for the clean up of the Fredeman shipyard site. He has served as legal counsel for the Louisiana Motor Fuels Underground Storage Tank Trust Fund Advisory Board since 2001. His current position is Supervisor of the Enforcement and Remediation Section of Legal Affairs and he continues to serve as Region VI representative to the Tank Funds Task Force for ASTSWMO. He continues to belong to the Louisiana State Bar Association and is admitted to practice in all state and federal courts in Louisiana.

Todd Thompson, Texas CEQ

Todd Thompson attended Montana State University - Billings where he received a B.S. in Biology with a minor in Chemistry. He has a background in lab work, teaching, and the organic recycling field of solid waste management. He began working with the Texas Commission on Environmental Quality Petroleum Storage Tank and Stage II Program in 2006 and is currently the Team Leader for the Program in the Houston

Region Office.

Larry Tichenor, Kentucky DEP

Larry Tichenor is a 1996 graduate of Western Kentucky University with a B.S. in Environmental Science. His career with the Kentucky Department for Environmental Protection began with the Division of Waste Management in 1997 as an underground tank inspector. Since 2005, he has been the Environmental Control Supervisor for the Madisonville Regional Office where he manages a staff of inspectors who perform compliance inspections at UST, solid waste, RCRA and TSCA facilities. He also serves as a state on-scene coordinator for the Kentucky Environmental Response team.

Ted Unkles, Vermont DEC

Ted Unkles has worked for the Vermont DEC UST program for 23 years. He began working as a field inspector in 1990. He has been the program Coordinator for approximately the past 15 years. In addition to his UST duties, he is a member of the DEC Spill response team, and he is also a member of the Vermont Hazardous Materials Response Team. He has a B.S. in Earth Science from Dartmouth College, and an M.S. in Natural Resource Management from Antioch University-New England. He also serves as Chairman of the Selectboard of the Town of Bradford, VT. Since the town has an underground tank containing diesel fuel at its highway maintenance garage, he occasionally gets to view the UST Program from the point of view of the regulated public.

Susan von Gonten, New Mexico ED

Susan von Gonten has over 17 years of experience as a geologist/geophysicist working in the oil and gas industry. In addition, she has 14 years of experience working as an environmental geologist at the NMED Petroleum Storage Tank Bureau investigating and remediating petroleum hydrocarbon contamination in New Mexico. She has a B.S. and M.S. in Geology and is a member of the New Mexico Geological Society and the Santa Fe Geological Society. She has been an AIPG certified professional geologist since 2006.

Tom Walker, U.S. EPA OUST

Tom Walker started his environmental career in the early 1990s as a field geologist/ project manager for a consulting firm working on leaking UST assessment and remediation projects. He then worked for the North Carolina Department of Natural Resources in their Superfund and RCRA Programs. In the early 2000s, he moved to Washington, D.C. and started working as a U.S. EPA environmental civil rights case manager. His career has now made a full circle as he currently works for the U.S. EPA Office of Underground Storage Tanks as an Environmental Protection Specialist. He is a graduate of Penn State University.

David Walters, Williams and Company Consulting

David Walters is the Senior Claims Manager for

Williams and Company Consulting, the Third Party Administrator for the Missouri Tank Fund. He has been involved in insurance claims for the past 29 years working for Farmers Insurance Group, Colonial Insurance Co. of California, Allied P and C, and Nationwide Insurance. Additionally, he worked for Enterprise Rent a Car a self-insured entity. His area of expertise is primarily associated with product defects, commercial liability, litigation, and subrogation.

Alex Wardle, Virginia DEQ

Alex Wardle is a certified Professional Geologist and UK Chartered Geologist with 25 years of experience in environmental and engineering geology, working both as a consultant and, for the last nine years, a case manager with the Virginia Department of Environmental Quality. He has worked on a range of environmental investigation and remediation projects in the U.S., Europe, North Africa and the Middle East.

Jennifer Washburn, Stripes, LLC

Jennifer Washburn is an experienced convenience store industry professional. She is the Environmental Compliance Manager for Stripes, LLC (a Susser Holdings Company) in Corpus Christi, TX. She has compliance responsibilities for over 580 Stripes stores and over 80 dealer operated stores. Prior to joining the Susser team this spring, she spent nearly 10 years at Stewart's Shops Corp. in Saratoga Springs, NY, developing the company's Petroleum Bulk Storage program. She built strong relationships with the NYSDEC in that role and was asked to serve as an industry participant on state PBS initiatives that included operator training test development, PBS Inspector Training, and beta testing an electronic registration platform. She is a Class A/B UST Operator in five states. She is a member of the steering committee of the South Texas Environmental Professionals.

Jim Weaver, U.S. EPA ORD

Jim Weaver received M.S. and Ph.D. degrees in Civil Engineering from The University of Texas at Austin, and a B.S. from the State University of New York, College of Environmental Science and Forestry. He has worked for the U.S. EPA Office of Research and Development for 25 years, both at the Ecosystems Research Division in Athens, GA, and the Ground Water Research Center in Ada, OK. His work focuses on transport of fuel constituents in ground and surface waters.

Spruce Wheelock, New Hampshire DES

Spruce Wheelock has been with New Hampshire Department of Environmental Services for the last 20 years as Compliance Coordinator/Inspector of under and aboveground storage tank facilities. Work encompasses field inspecting facilities for compliance and witnessing Vapor Recovery testing. At the State's monthly A&B Operator Training classes he teaches overfill, corrosion protection, leak monitoring, and release detection. He has taught spill containment and overfill

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protection at the Regional UST Inspector's Training. He holds an Associate Civil Engineer Water Quality degree from Vermont Technical College. He is a licensed Septic System designer and Associate Certified Professional Ski Patroller. He has been a board member of the Central New Hampshire Bicycling Coalition, Energy Association of NH, and the NH Mustang Club. In his prior years before DES, he designed and inspected underground petroleum tank systems.

Chuck Whisman, Groundwater & Environmental Services, Inc.

Chuck Whisman, as the Chief Technical Officer 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 U.S. that have incorporated various remediation technologies.

Brian Wiegert, PMMIC Insurance

Brian Wiegert currently serves as Vice President of Underwriting/Loss Control Services for PMMIC Tank Insurance. He is a national committee member for the Petroleum Equipment Institute's RP 900 Recommended Practices for the Inspection/Maintenance of UST Systems and RP1300 Recommended Practices for the Design, Installation, Service, Repair, and Maintenance of Aviation Fueling Systems. He has also served on the Board of Directors for PEI. He currently serves on the Underwriter Laboratories technical standard panels for UL1316 Glass-Fiber-Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol-Gasoline Mixtures and UL58 Steel Underground Tanks for Flammable and Combustible Equipment. He is the current manager for UST Compliance/Loss Control Inspections for the State of Iowa (PMMIC/IDNR) and UST/AST Compliance/Loss Control Inspections for the state of Missouri (PSTIF/MDNR). He was appointed by the Governor of Iowa to serve on the Iowa Renewable Fuels Infrastructure Board, where he is currently the chairman.

Jill Williams-Hall, Delaware DNREC

Jill Williams-Hall is a Senior Environmental Planner for the Delaware DNREC, Tank Management Section. She started her career as an Environmental Scientist with the DNREC and performed site compliance inspections, oversight

of tank closures and new tank installations. As a Senior Planner she has authored the first set of aboveground storage tank regulations for Delaware and completed two overhauls of the underground storage tank regulations. Her knowledge combines her years of field experience with policy development. She has served as a member and current chair of the ASTSWMO State Funds/Financial Responsibility Task Force, with extensive knowledge of tank pollution liability insurance. She has a B.S. in Agriculture and an M.P.A. from the University of Delaware.

John Wilson, R.S. Kerr Environmental Research Center

John Wilson is a research microbiologist for U.S. EPA. 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. He has worked at the R.S. Kerr Environmental Research Center in Ada, OK 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.

David Wilson, Utah DEQ

David Wilson has worked for the Utah Department of Environmental Quality for 18 years. He currently works in the UST compliance section. His main job function is to perform inspections of underground storage tank sites and implement any subsequent compliance enforcement. He performs an important role in managing the certification program for UST owner/operators, installers, removers, testers, and groundwater & soil samplers. He also provides internet and database support. He has a B.S. and M.S. in Geology from Brigham Young University.

Dan Wilson, NW Tank Lining & Inspection, Inc.

Dan Wilson, Director of Business Development of NW Tank Lining & Inspection, has been with the company for over 10 years. He is a valued resource for environmental and compliance solutions for USTs and ASTs throughout the Western U.S. He provides solutions for UST/AST structural integrity testing & inspections, regulatory compliance testing & inspections, UST & AST interior and exterior coatings/linings/repairs, secondary containment solutions, and more. For many years, he has been a presenter regarding USTs for Washington DEQ. He values open communication and customer service for all of his clients.

Scott Wisher, Vironex, Inc.

Scott Wisher is the Rocky Mountain Regional Manager for Vironex. He came to Vironex, an environmental remediation specialty company with six offices nationwide, in 2010 after a nine

year tenure as the Geosciences and Remediation Manager with Bureau Veritas. He manages a staff of environmental professionals to successfully implement environmental solutions for the environmental consulting community. With the use of advanced field techniques such as MIP, UVOST, HPT, and the most advanced pumping and injection systems in our industry, he supports consultants most effectively achieve distribution of reagents through appropriate remediation system design and appropriate tool selection. Prior to coming to Vironex, he managed large-scale investigation and remediation projects throughout the Rocky Mountain region.

Elizabeth Wolff, Delaware DNREC

As a Hydrologist with the DNREC-TMS, Elizabeth Wolff oversees the corrective action and remediation of petroleum impacts to soil and groundwater throughout the State of Delaware. She has been a member of the Delaware Risk-Based Corrective Action Program since 2007 and has personally managed the cleanup actions required at over 120 storage tank facility sites (AST and UST) resulting in over 80 LUST project closures to date. She is responsible for the creation and maintenance of the GIS data layers currently used by the state to present real-time location data within the Delaware Environmental Navigator. In addition to project management, she is involved in the development and restructuring of guidelines, regulations, and policies that govern remedial actions, state funding programs, and sampling requirements in Delaware. She has a B.S. in Environmental Science from the University of Delaware.

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