23rdNational TANKS CONFERENCE www.neiwpcc.org/tanksconference



Photograph courtesy St. Louis Convention & Visitors Commission

NEIWPCC

New England Interstate Water Pollution Control Commission

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

ASTSWMO

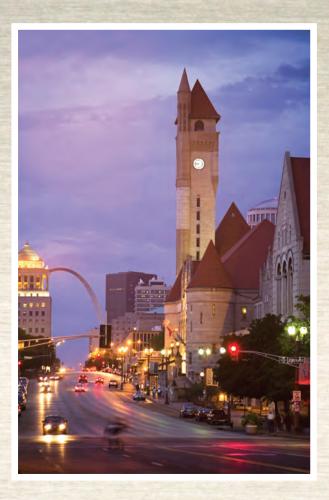
Association of State and Territorial Solid Waste Management Officials



Missouri Department of Natural Resources



Missouri Petroleum Storage Tank Insurance Fund



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23rd National Tanks Conference and Expo Program Booklet, 2012

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

Photography courtesy St. Louis Convention & Visitors Bureau, unless otherwise noted.

March 2012

Dear Colleague,

On behalf of the conference sponsors, it is our pleasure to welcome you to St. Louis for the 23rd National Tanks Conference and Exposition. St. Louis became known as a center of innovation after hosting the 1904 World's Fair and continues to retain its forward-thinking status today. Let us all carry this energy and enthusiasm for innovation with us as we participate in the conference's multitude of learning and networking opportunities.

The 2012 agenda features sessions covering an exceptionally wide range of topics, including operator training, remediation technologies, and vital financial issues. This year, we are also providing opportunities for participation by those unable to attend in person. As noted in the agenda, several sessions are offered as webinars, which will be archived on the conference website with the rest of the presentations.

Considerable time has elapsed since our last national gathering. We have much to discuss, much to share, and much to learn from each other. We urge you to fully embrace this rare opportunity when the tanks community comes together as one. Thank you for joining us.

Sincerely,

lel Polle

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

Carolyn Hoskinson Director Office of Underground Storage Tanks Environmental Protection Agency

avol KZiglumer

Carol R. Eighmey Executive Director Missouri Petroleum Storage Tank Insurance Fund

Mary 7 Zdanon

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

Sara Parker Pauley

Sara Parker Pauley Director Missouri Department of Natural Resources

of the Olaro

Ronald G. Hayes Division Director Weights, Measures & Consumer Protection Missouri Department of Agriculture



Tanks Partnership

MISSOURI DEPARTMENT OF NATURAL RESOURCES



23rd National

2

Three state agencies – dozens of consultants – scores of equipment experts – hundreds of tank owners – thousands of tanks – all collaborating to protect Missouri while assuring Missourians have access to affordable fuel!

operators

The Department of Natural Resources registers USTs, ensures compliance, inspects the installation and operation of USTs, assures proper closure of unused tanks, and oversees release investigations and cleanups.

The Department of Agriculture enforces fire and safety rules for USTs and ASTs, checks fuel quality, and inspects all retail locations and bulk plants twice each year.

The Petroleum Storage Tank Insurance Fund insures UST and AST owners/operators and pays for UST/AST compliance inspections, cleanups, and third-party claims.

Their efforts are buttressed by an outstanding community of tank owners, operators, contractors, consultants, and others who work tirelessly to make Missouri's tank program one of the best in the country!

dnr.mo.gov • mda.mo.gov • pstif.org

EXPO

Tanks Conference

The Facts:

- ✓ UST compliance rate among top five states every year.
- No cleanups postponed for lack of cash in state tank fund.

contractors

consultants

DEPARTMENT OI

- Lowest cleanup backlog percentage in EPA Region 7.
- Dispensers and sumps inspected twice annually.
- At least ten Missourians serving on PEI committees and board.
- Missourians serving on boards of NACS, SIGMA, and STI.
- Best state fuel quality lab in the country.
- Strongest petroleum marketer association in the country.
- Home of the National Biodiesel Board.



New England Interstate Water Pollution Control Commission 116 John Street Lowell , MA 01852 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 State Fund matters nationwide.

NEIWPCC Tanks Program Contact: Jaclyn Harrison, 978-349-2507, jharrison@neiwpcc.org



United States Environmental Protection Agency Office of Underground Storage Tanks

1200 Pennsylvania Avenue, NW 5403P 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

Registration and Information Desk Hours

Marriott St. Louis Union Station Hotel – First Floor Garden Level

Sunday, March 18	11:00 a.m. to 6:00 p.m.
Monday, March 19	7:00 a.m. to 5:00 p.m.
Tuesday, March 20	7:00 a.m. to 5:00 p.m.
Wednesday, March 21	7:00 a.m. to 11:00 a.m.

ATM

There is an ATM located in the St. Louis Union Station next to Einstein Bros Bagels.

Business Center/Office Supplies

The business center is located in the hallway to the right of the front desk and is open 24 hours.

Telephone: 314-621-5262

Additional Information:

- PC Workstation
- Printer
- High speed wireless internet
- Copy services
- Facsimile services
- Shipping services

Medical Information and Pharmacy

St. Louis University Hospital 3635 Vista Avenue, St. Louis, MO **Telephone: 314-577-8000** www.sluhospital.com

23rd National

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CVS Pharmacy, 909 Chestnut Street – see the Bellman for directions.

Hotel Tours

The Marriott Hotel is located in the St. Louis Union Station, a distinctive landmark in the heart of the city. Once the largest and busiest passenger rail terminal in the world, this 114 year old National Historic Landmark of unmatched beauty and elegance has been dramatically restored and redeveloped as a dynamic mixed-use project that includes great shopping, delicious dining and fabulous entertainment. Guests enter into the Grand Hall, utilized as the hotel lobby, which features a barrel-vaulted ceiling of unsurpassed gilt work, stained glass over the entrance, and scale models of trains. The elegance of this building is breath taking!

Attendees of the National Tanks Conference and Expo are welcomed to a guided tour around the facility to hear more about the history of this amazing location. Tours will last approximately 15 - 25 minutes. No sign up required. Guests are requested to meet in front of the Cardinal Store on the first floor five minutes prior to the start of the tour. Signs will be displayed.

Tour times:

Sunday, March 18	5:15 p.m.	
Monday, March 19	12:10 p.m.	3:05 p.m.
Tuesday, March 20	9:35 a.m.	3:05 p.m.
Wednesday, March 21	1:00 p.m.*	
*Extended 1 hour tour		

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, March 19	10:00 a.m. to 7:00 p.m.
Tuesday, March 20	8:00 a.m. to 5:00 p.m.
Wednesday, March 21	8:00 a.m. to 12:00 p.m.

Poster "tours" will be conducted during the Monday Welcome Reception.

Conference Attire and Badges

The attire for the 23rd National Tanks Conference will be "business casual." Please wear your badge during the conference as it identifies you as a participant. Badges are coded for easy recognition of different types of attendees.

Breakfast Plenary and Luncheon

The Monday morning breakfast plenary will be held on the first floor Garden Level.

Monday, March 19 8:00 a.m. to 10:00 a.m.

The Tuesday luncheon, with guest speaker Ronald Brand, former Director of U.S. Environmental Protection Agency Office of Underground Storage Tanks, will be held on the first floor Garden Level.

Tuesday, March 20

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

Individual Session Evaluation Forms

Your opinion is important to us!

Individual Session Forms will be available in each session room. Please take a moment to fill out the appropriate form. This feedback is passed on to the moderators and speakers so we can continue to improve the sessions and make them as meaningful and useful as possible for all attendees.

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

Lost & Found and Message Board

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

Welcome Reception

The Monday evening Welcome Reception is located in the Regency Ballroom on the first floor Garden Level. Your conference badge is your ticket in!

Monday, March 19

5:00 p.m. to 7:00 p.m.

Conference Evaluation Forms

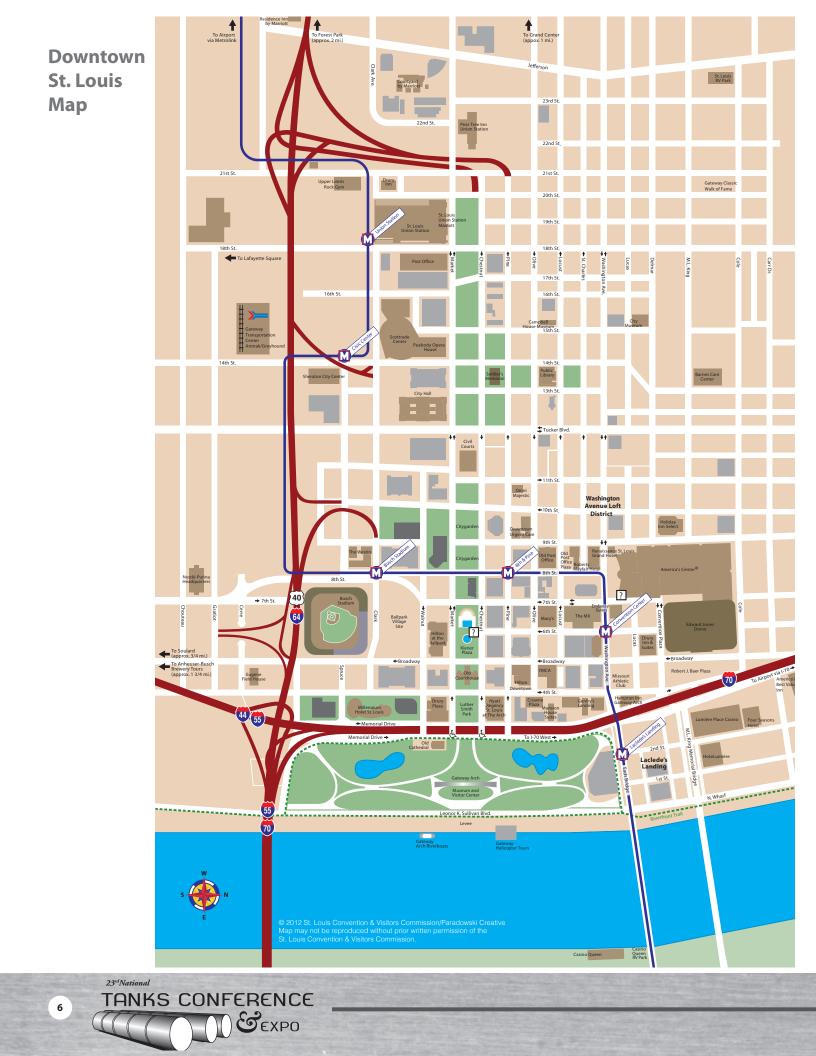
Your opinion is important to us!

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

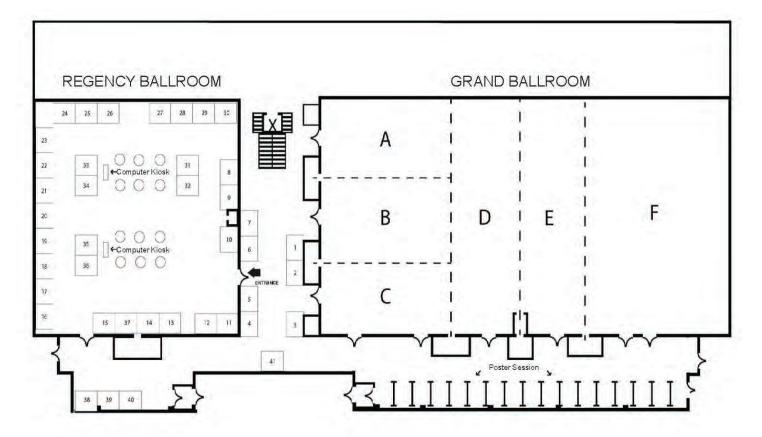
Please leave your Individual Session Forms at the Registration/Information Desk.

Airport Transportation

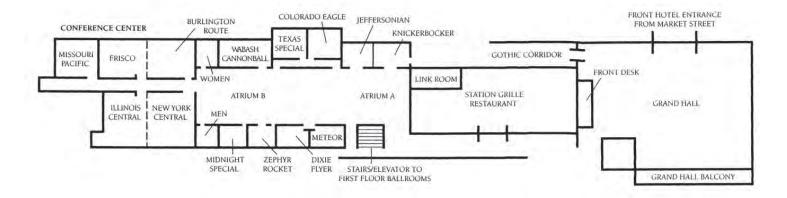
Ask at the Marriott St. Louis Union Station front desk for information, located in the lobby.



First Floor Garden Section



Head House Conference Center



11:00-6:00	Conference Registration/Information Desk Open – First				
	Floor Garden Level				
	Exhibitor Check-In/Move-In – Regency Ballroom				
	Poster Check-In/Set	: -up – First Floor Gara	len Level		
1:00-3:00	Bio Vapor Hands	Biofuel Releases:	Petroleum Vapor		
	On Workshop	Prevention,	– Field Technical		
	George DeVaull,	Investigation, and	Workshop		
	Shell Global	Remediation	Kenneth Jewell,		
	Solutions US	Workshop	U.S. EPA		
		Mike Maddigan,			
		PA DEP			
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C		
3:00-3:15	Break				
3:15-5:00	Bio Vapor Hands	Biofuel Releases	Petroleum Vapor	Site Optimization	Tribal Corrective
	On Workshop	Workshop Cont.	– Continuous	and Land	Action Training
	Cont.		Monitoring	Revitalization	Workshop
			Workshop	Using Triad	Janice Pearson,
			Geoff Hewitt, ION	Approach	U.S. EPA
			Science	Workshop	
				Stephen Dyment,	
				U.S. EPA	
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Grand Ballroom D	Illinois Central

Social Event – An Evening at Jive & Wail Dueling Piano Restaurant Sunday, March 18 from 6:00 p.m. to 10:00 p.m.

Please join your fellow colleagues at this year's networking social event at a dueling piano venue. The Jive & Wail is a sing-along, clap-along, eat and drink along, entertainment venue! The unique, professional piano players take the stage on two baby grand pianos, performing all your favorite hits from every era imaginable. A buffet dinner will be provided. Cash Bar! You must present your pre-paid ticket to attend this event.

Located eight blocks from the St. Louis Union Station Marriott Hotel at 1227 Washington Ave. Transportation will be provided but all are welcome to take the quick walk to the venue – a great way to explore the downtown St. Louis area.



7:00-5:00	Conference Registration	/ Information Desk Open	– First Floor Garden Level	
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Midway 122			
8:00 - 10:00	Breakfast Plenary – Grand Ballroom DEF Moderator: Ronald Poltak, Executive Director, New England Interstate Water Pollution Control Commission Speakers: Alan Reinkemeyer, Acting Director, Division of Environmental Quality, Missouri			
			sion of Environmental Qua	lity, Missouri
	-	Natural Resources	Environmental Drotaction	Agonay Dagion 7
	Karl Brooks, Regional Administrator, U.S. Environmental Protection Agency Region 7 Virginia LeClere, Director of Planning and Environmental Protection, Prairie Band			
	Potawatomi Na	-		
			or, Office of Solid Waste ar	nd Emergency
	_	Environmental Protection		
10:00-10:30	Break		<u> </u>	
10:00-7:00	Exhibit Booths and Poste	er Area Open – First Floor	Garden Level	
10:30-12:00	Site Assessment	State Fund Solvency	Sherlock Holmes or	2012: A Tank Odyssey:
	Richard Spiese, VT DEC	David Chambers, NE	Inspector Clouseau –	Demonstrations on
		DEQ	Who Do You Want To	Emerging Digital
			Be?*	Solutions for UST
			Tracie Donaldson, EPA	Compliance
			R6	Management
				Leslie Carr, KY DEP
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Midway 122
12:00-1:30	Lunch (on your own)			
1:30-3:00	Measuring Progress in	State & Territorial	LNAPL*	Tribal Only Meeting
	the UST Program – What Can We Learn	Program Managers Session	Margaret Bastien, NH DES	Randy Bettelyoun, Oglala Sioux Tribe
	From 10 Years of UST	Russ Brauksieck, NY	DLS	Roland Chester, ITCA
	System Testing Data?	DEC		norana enester, nez
	Thomas Schruben,			
	ACRM			
	Marcel Moreau, Marcel			
	Moreau Associates			
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Grand Ballroom D
3:00-3:30	Break: Visit the Exhibit Booths and Poster Session Area – First Floor Garden Level			
3:30-5:00	PVI – Consolidating	Overcoming the	Fraud and Abuse	Tribal & EPA Meeting
	Assessment Guidances,	Challenges Posed by	Marge Wilhoite, KY DEP	Robert Largent,
	Refining Conceptual	Abandoned Tanks		Cherokee Nation
	Modeling, Field Assessment	Therron Blatter, UT DEQ		Bill Lienesch, EPA OUST
	Techniques	DEQ		
	Tom Walker, EPA OUST			
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Grand Ballroom D

Side Meetings:

10:30 a.m. – 12:00 p.m. Location: New York Central Proposed Revisions to UST Regulations 10:30 a.m. – 12:00 p.m. Feedback on Backlog Strategies Workplan 11:30 a.m. – 12:30 p.m. Petroleum Brownfields Action Plan: Location: Frisco Discussion and Office Hours EPA Only Managers Meeting

1:30 p.m. – 3:00 p.m.

*Session will be broadcast as live webinar

Location: Burlington

Location: Illinois Central

7:00-5:00	Conference Registration/ Information Desk Open – First Floor Garden Level			
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Midway 122			
8:00-5:00	Exhibits Booths and Poster Area Open – First Floor Garden Level			
8:00-9:30	Standards Lorri Grainawi, STI	Alternate Water Supplies Betty Lamp, VA DEQ	Site Characterization of Ethanol-Blended Fuel Releases* Jeff Kuhn, MT DEQ	Legal Update Perry Theriot, LA DEQ
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Grand Ballroom D
9:30-10:00	Break: Visit the Exhibit	Booths and Poster Sessio	n Area – First Floor Garde	n Level
10:00-11:30	Remedial Technologies Steve Reuter, NMED	Are We All Really In This Together? John Albert, MDA	Tank Insurance: Unlock the Mystery* Jill Hall, DE DNREC	Perspectives on UST Operator Training – The Good, the Bad, and the Ugly Michael Pomes, EPA R7 New York / Illinois
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Central
	"The F	ranchising and TOM Root	ts of the National UST Pro	ogram"
	Moderator: Dania Rodri Waste Mana Speakers: Carolyn Hoski Protection Ag Ronald Brand	guez , Deputy Executive D gement Officials i nson , Director, Office of U gency	ts of the National UST Pro irector, Association of Sta Jnderground Storage Tanl r, Office of Underground S	te and Territorial Solid ks, U.S. Environmental
1:30-5:00	Moderator: Dania Rodri Waste Mana Speakers: Carolyn Hoski Protection Ag Ronald Brand Environmenta	guez, Deputy Executive D agement Officials inson, Director, Office of U gency I, Retired, Former Director al Protection Agency	irector, Association of Sta Jnderground Storage Tan	te and Territorial Solid ks, U.S. Environmental Storage Tanks, U.S.
1:30-5:00 1:30-3:00	Moderator: Dania Rodri Waste Mana Speakers: Carolyn Hoski Protection Ag Ronald Brand Environmenta Lambert Airport Fueling Lens on Forensics – Somewhere in Time Dan Manweiler, VA DEQ	guez, Deputy Executive D agement Officials inson, Director, Office of U gency I, Retired, Former Director al Protection Agency Hydrant System Tour – / Release Detection Compliance Challenges at High- Throughput Facilities Chris Plassmeyer, MO DNR	irector, Association of Sta Jnderground Storage Tan r, Office of Underground S <u>Meet at Registration Desk</u> You Can't Recycle Wasted Time Jennifer Steffes, CO DLE	te and Territorial Solid ks, U.S. Environmental Storage Tanks, U.S. Database Tools <i>Betty Lamp, VA DEQ</i>
1:30-3:00	Moderator: Dania Rodri Waste Mana Speakers: Carolyn Hoski Protection Ag Ronald Brand Environmenta Lambert Airport Fueling Lens on Forensics – Somewhere in Time Dan Manweiler, VA DEQ Grand Ballroom A	guez, Deputy Executive D agement Officials inson, Director, Office of U gency I, Retired, Former Director al Protection Agency Hydrant System Tour – / Release Detection Compliance Challenges at High- Throughput Facilities Chris Plassmeyer, MO DNR Grand Ballroom B	irector, Association of Sta Jnderground Storage Tanl r, Office of Underground S <u>Meet at Registration Desk</u> You Can't Recycle Wasted Time Jennifer Steffes, CO DLE Grand Ballroom C	te and Territorial Solid ks, U.S. Environmental Storage Tanks, U.S. Database Tools <i>Betty Lamp, VA DEQ</i> Midway 122
	Moderator: Dania Rodri Waste Mana Speakers: Carolyn Hoski Protection Ag Ronald Brand Environmenta Lambert Airport Fueling Lens on Forensics – Somewhere in Time Dan Manweiler, VA DEQ Grand Ballroom A	guez, Deputy Executive D agement Officials inson, Director, Office of U gency I, Retired, Former Director al Protection Agency Hydrant System Tour – / Release Detection Compliance Challenges at High- Throughput Facilities Chris Plassmeyer, MO DNR Grand Ballroom B	irector, Association of Sta Jnderground Storage Tan r, Office of Underground S <u>Meet at Registration Desk</u> You Can't Recycle Wasted Time Jennifer Steffes, CO DLE	te and Territorial Solid ks, U.S. Environmental Storage Tanks, U.S. Database Tools <i>Betty Lamp, VA DEQ</i> Midway 122

Side Meetings:

10

9:00 a.m. – 10:00 a.m.	Petroleum Brownfields Action Plan:	Location: Frisco
	Discussion and Office Hours	
1:30 p.m. – 2:30 p.m.	U.S. EPA UST Attorneys' Meeting	Location: New York Central
2:30 p.m. – 3:00 p.m.	U.S. EPA and State UST Attorneys' Meeting	Location: New York Central
5:00 p.m. – 7:00 p.m.	Region 3 EPA/States Meeting	Location: Frisco

*Session will be broadcast as live webinar

7.00 10.00	Conforma Desistration	/ Information Dock Onor	First Floor Cardon Lou	
7:00-10:00	Conference Registration/ Information Desk Open – First Floor Garden Level			
7:00-7:45	Mandatory Speaker/Mo	oderator Breakfast – Midu	vay 122	
8:00-12:00	Exhibit Booths and Post	er Session Area Open – F	irst Floor Garden Level	
8:00-9:30	Remediation – The	Using LEAN & Mobile	State and EPA	Looking Ahead at
	Next Generation	Electronic	Meeting	Biofuels
	Greg Johnson, CO	Technology: Keys to	Mark Barolo, EPA	Mahesh Albuquerque,
	CDLE	Inspection Efficiency	OUST	CO OPS
		Ken Koon, MO DNR	Russ Brauksieck, NY	
			DEC	
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Grand Ballroom D
9:30-10:30	Exposition Raffle, Poste	r Area Open – Regency Bo	allroom	
10:30-12:00	PVI from States'	It's Not Your Father's	Petroleum	How Disastrous Is It
	Perspective –	Fuel!	Brownfields	When Disaster
	Examples of Real	Marshall Mott-Smith,	Steve McNeely, EPA	Strikes?
	World Challenges and	Mott-Smith Consulting	OUST	Heather Peters, MO
	Success	Group LLC		DNR
	Tom Walker, EPA			
	OUST			
	Grand Ballroom A	Grand Ballroom B	Grand Ballroom C	Grand Ballroom D
12:00	Adjourn			

Side Meetings:

10:30 a.m. – 12:00 p.m.	Proposed Revisions to UST Regulations	Location: New York Central
12:00 p.m. – 5:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Illinois Central
1:30 p.m. – 5:00 p.m.	Location: New York Central	
Thursday Meetings, March 2	22, 2012	
8:00 a.m. – 10:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Missouri Pacific
Friday Meetings, March 23,	2012	
8:00 a.m. – 12:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Missouri Pacific

Official Portfolio Sponsor

Tanknology, Inc.

11000 N. MoPac Expy. Ste. 500 Austin, TX 78759 Tel: 512-380-7104 Contact: Sandra Rodriguez Email: tradeshow@tanknology.com http://www.tanknology.com



Booth 6

Tanknology is the largest provider of UST compliance solutions in the world. Our crews provide testing and related services at more than 39,000 sites each year, for customers ranging from the largest oil companies to the smallest individual operators, in every corner of the country. Our services include compliance testing, including tanks, lines and leak detectors, secondary containment testing, cathodic protection services, ATG equipment installation and much more. Tanknology -- for all your compliance needs.

Official Name Tag Lanyard Sponsor

OPW

9393 Princeton-Glendale Road

Hamilton, OH 45240 Tel: 800-422-2525 Contact: Jim Walton Email: jwalton@opw-fc.com http://www.opwglobal.com



Booth 5

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.

Gold Level Exhibitors

A Better Earth, Inc.

11261 238th Street Lawrence, KS 66044 Tel: 785-764-1674 Contact: Bill Reetz Email: abetterearthllc@gmail.com http://www.abetterearthllc.com



Booth 3

Bill Reetz purchased A Better Earth, LLC in 2007 after working for the Kansas Department of Health and Environment. Bill has over 12 years of experience of project management with petroleum remediation sites, concentrating on contaminated source area reduction, and municipality water treatment systems for BTEX, MtBE, and EDB removal. Bill has copresented numerous NGWA short courses on Public Water Treatment Technologies for MtBE using air stripping and activated carbon. In addition Bill assisted on a document titled Treatment Technologies for Removal of MtBE from Drinking Water by the California MtBE Research Partnership.

CGRS

1301 Academy Ct. Fort Collins, CO 80524 Tel: 970-493-7780 Contact: Blaine Garwood Email: michelle@cgrs.com http://www.cgrs.com



Booth 1

CGRS specializes in providing unique multi-disciplinary solutions for the petroleum industry. Whether you have a production facility, retail gas station or a single back-up generator tank, CGRS can help design and build your state of the art storage facility, test, repair and upgrade your existing storage system, provide environmental investigative, remediation and permitting services, or simply assist in navigating the ever-changing regulatory waters. With a comprehensive understanding of fuel storage tank regulations, and available 24/7, CGRS staff interfaces daily with local, state and federal regulatory agencies on our customers' behalf. Additionally, CGRS, the nation's leader in Enhanced Leak Detection (ELD), provides the industry with the most advanced and accurate leak detection services through its patented IOTA[®] leak detection system.

Directional Technologies, Inc.

77 North Plains Industrial Road Wallingford, CT 06492 Tel: 203-294-9200 Contact: Kathy Sequino Email: kathy@directionaltech.com http://www.directionaltech.com



Booth 41

Overcome remediation obstacles including inaccessible sources beneath buildings, short circuiting, rebound, inadequate radius of influence, unknown pockets of contamination, unable to trace VI source, too long to site closure, too many ports, too much interconnecting piping, and not feasible to excavate because it is too disruptive, by using horizontal remediation wells. Directional Technologies, Inc. was founded in 1992 and has been successfully installing horizontal remediation systems since 1993. The company has found solutions for many projects, both large and small, that were previously considered unfeasible. Visit us and discover horizontal remediation alternatives for your site through our case studies, symposium presentation and 20 years of horizontal well installation experience and innovation.

Groundwater & Environmental Services, Inc (GES)

440 Creamery Way, Suite 500 Exton, PA 19341 Tel: 800-426-9871 x3022 Contact: Robin Raudenbush



Email: rraudenbush@gesonline.com Groundwater & Environmental Ser http://www.gesonline.com

Booth 2

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.

Neumayer Equipment Company

5060 Arsenal Street St. Louis, MO 63139 Tel: 314-932-3783 Contact: Todd Burkhardt

Email: kerri_mckay@neumayerequipment.com http://www.neumayerequipment.com



Booth 7

Neumayer Equipment Company has provided quality products and outstanding service to those in the petroleum retail industry since 1934. We have locations in Cape Girardeau, Kansas City, Missouri, Jefferson City, Missouri, Illinois and Kentucky. Neumayer is headquartered in Saint Louis, Missouri. Neumayer Equipment Company's superior performance and dedicated years of service of its' associates in Sales, Service and Construction has led to a position of leadership within the industry. We are proud to offer a wide selection of petroleum products from some of the best manufacturers in the industry.

Tait Environmental Services, Inc.

1219 Morton League Rd Richmond, TX 77406 Tel: 714-920-4797 Contact: Gary Baker Email: gbaker@tait.com http://www.tait.com



Booth 4

Tait Environmental Services, Inc. (TAIT) began as an Orange Countybased civil engineering and environmental consulting firm in 1964, offering various services with a strong dedication to guality. Today, our family-owned, multi-disciplined firm offers a complete array of services to private and public clients. More specifically, we offer environmental investigation and remediation fuel system design compliance and management, training and construction services, as well as civil engineering, surveying, architecture, planning, entitlement to our diverse client base. The multi-disciplined nature of our firm allows TAIT to offer a comprehensive, solutions-oriented approach to address each specific client's project requirements. TAIT has a team of over 170 professionals and associates who have worked together over the vears to provide a full spectrum of services to our public and private clients. Our team is composed of Geologists, Hydrologists, Fuel System Designers, Environmental Assessors, Fuel Systems Designers, Industrial Hygienists, Asbestos Consultants Civil Engineers, Architects, Land Surveyors and LEED Accredited Professionals. Our offices are located in the following geographic areas: California, Nevada, Idaho, Texas, Colorado, Florida and Maryland.

Exhibitors

Advanced GeoEnvironmental, Inc.

837 Shaw Road Stockton, CA 95215 Tel: 800-511-9300 Contact: Robert Marty Email: rmarty@advgeoenv.com http://www.advgeoenv.com



GeoEnvironmental, Inc. Booth 24

AGE provides full-service environmental consulting to a wide variety of industries, including petroleum distribution and retail facilities. AGE's services include UST removals, UST investigations, remediation system design and installation, environmental site assessments, above-ground storage tank (AST) SPCC plans and stormwater services pollution prevention plan (SWPPP) preparation. Call for a free consultation regarding your project or site.

Aestus, LLC

2605 Dotsero Court Loveland, CO 80538 Tel: 970-278-4090 Contact: Stuart McDonald Email: swm@aestusllc.com http://www.aestusllc.com



Booth 8

Aestus, LLC provides environmental professionals with a subsurface imaging technology (branded as GeoTrax Survey™), developed at Oklahoma State University. Because of its enhanced sensitivity and resolution, GeoTrax is capable of delineating the distribution of contaminants in all types of geology, including through clay lenses and beneath surface water bodies. Typical applications: Locating subsurface contamination (LNAPL, DNAPL, dissolved) Tracking injection of remedial substrates Identifying zones of bioactivity.

Antea Group

14

780 E. Market Street Suite 120 West Chester, PA 19382 Tel: 484-887-0296 **Contact: Tristan Steichen** Email: tristan.steichen@anteagroup.com http://www.anteagroup.com/



Booth 21

AnteaGroup is an environmental consulting firm specializing operator training, UST compliance management, environmental real estate transactions and remediation. Antea Group, teamed with API, offers petroleum marketers Operator Training through online, classroom, and onsite formats. For more information, visit our website www. anteagroup.com or www.apioperatortraining.com.

ARID Technologies, Inc.

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



Booth 31

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

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



Booth 29

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.

CamVacUSA

12701 Sheridan Ave. S. Suite 101 Burnsville, MN 55337 Tel: 952-838-3835 Contact: Janet Leean Email: janet@camvacusa.com http://www.CamVacUSA.com

CamVacUSA The Solution to Cleaner Fuel®

Booth 25

CamVacUSA can visually inspect and remove contaminants from your UST, AST, generator or equipment tank while saving your fuel using our patented fuel-safe camera and superior filtration technology. Our services include visual inspections, contaminant removal, fuel polishing and cost-effective maintenance programs. Dirty Tanks=Dirty Fuel=Problems[™]. Take a look with fuel cleaning experts.

COLUMBIA Technologies

1448 South Rolling Road Baltimore, MD 21227 Tel: 410-777-8814 **Contact: Dov Hoffman** Email: dhoffman@columbiatechnologies.com http://www.columbiatechnologies.com



Booth 40

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 800 high resolution site characterizations throughout North America including Hawaii, Canada, and Mexico for over 300 customers including 20 of the top 40 environmental design firms, Fortune 500 companies, and state and federal agencies.

Containment Solutions

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



http://www.containmentsolutions.com Booth 32 Containment Solutions, Inc. (CSI) specializes in the manufacturing of underground fiberglass storage tanks (500 - 60,000 gal.) designed with rust-resistant fiberglass for safe, long term containment of petroleum, automotive and water storage; oil/water separators for storm water discharges and fiberglass manholes, rehabilitation manholes and wetwells for the wastewater industry. CSI tanks are manufactured using an efficient 1-step curing process which does not depend on wax coatings or liners, simply a better tank by design.

Crompco, LLC

1815 Gallagher Road Plymouth Meeting, PA 19462 Tel: 610-276-5914 Contact: Edward Kubinsky Email: ed.kubinsky@crompco.com http://www.crompco.com



Booth 22

Crompco provides superior testing and inspection services to owner/ operators of underground storage tank systems throughout the Eastern United States. In addition to UST testing and inspections, Crompco also performs containment repairs, SIR, special projects, tank sampling and cleaning. Crompco also introduces AccuMeasure, the most precise meter calibration system in the industry.

Directed Technologies Drilling, Inc.

100 Rolling Ridge Drive Bellefonte, PA 16823 Tel: 800-239-5950 Contact: Michael Lubrecht Email: mike@horizontaldrill.com http://www.horizontaldrill.com



Booth 28

Directed Technologies Drilling is a horizontal directional drilling contractor, specializing in the installation of remediation systems for contaminated sites. Founded in 1995, DTD has completed hundreds of horizontal remediation wells at Superfund sites, DOD and DOE facilities, and commercial and industrial properties. Using the most advanced drilling and navigation equipment available, DTD is a leading innovator in the field, with patented and proprietary technologies that advance the science of soil and groundwater remediation.

EcoVac Services

105 Weatherstone Drive Suite 610 Woodstock, GA 30188 Tel: 770-592-1001 **Contact: Nick Athens**



Email: nick.athens@ecovacservices.com http://www.ecovacservices.com

Booth 36

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

EnviroCap, LLC

2111 West Swann Avenue, Suite 200 Tampa, FL 33606 Tel: 813-341-3650 x102 Contact: Barbara Wilhelm Email: barbara.wilhelm@envirocap.com http://www.envirocap.com

Booth 33 EnviroCap provides accounts receivable funding to Site Owners, Responsible Parties and/or Environmental Consultants conducting emergency response, investigation and remediation services on State Fund eligible LUST sites.

Environmental Compliance Services, Inc.

10 State Street Woburn, MA 01801 Tel: 800-789-3530 Contact: William Alpine Email: balpine@ecsconsult.com



EnviroCap

ENVIRONMENT CONVERGE

Booth 11

http://www.ecsconsult.com Currently celebrating its 30th anniversary, ECS is an employeeowned, pioneering environmental consulting firm consisting of 200 professionals. The company is headquartered in Agawam, Massachusetts and has 11 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).

Exhibitor Profiles

Environmental Works, Inc.

1455 E. Chestnut Expressway Springfield, MO 65802 Tel: 417-890-9500 Contact: Robin Melton Email: robin@environmentalworks.com http://www.environmentalworks.com



Booth 27

Environmental Works, Inc. (EWI) is a full-service, woman-owned environmental and field services firm that has built a strong reputation for providing expert, turnkey solutions and exceeding clients' expectations. Over the last 20 years, EWI has specialized in a variety of services for petroleum storage tank sites. From the initial release notification to "No Further Action" (NFA) status, we provide continued support to our clients that often results in reimbursement through the State's Petroleum Storage Tank Insurance Fund. EWI has worked at hundreds of tank sites, including convenience stores, bulk petroleum facilities, refineries, rail yards, active truck stops, industrial facilities, petroleum spill/release sites, and more. Our experience offers a multitude of services including tank compliance, removal, and closure, 24/7/365 emergency spill response, site restoration, site characterization, risk assessment, remediation including remedial system design, installation, and operation, drilling, sampling, excavation, regulatory compliance, negotiation, and reporting, SPCC plans, due diligence assessments (Phase I/II), demolition, construction, engineering, health and safety, asbestos/lead services, field services, and more. Please visit our website for further information: www.environmentalworks.com.

International Code Council

500 New Jersey Avenue, NW, 6th Floor Washington, DC, 20001 Tel: 888-422-7233 x5247 Contact: Michelle Murphey Porter Email: mporter@iccsafe.org http://www.iccsafe.org



The International Code Council (ICC) has a history of helping state agencies meet the UST/AST requirements established by the EPA. ICC's National UST Certification Program has been in place since 1993 and we have more than 35 certification programs that are recognized by the EPA. Today, numerous states require individuals to pass exams in one or more of UST/AST categories created by ICC. There is no cost to your state for ICC to develop and maintain your UST/AST exam program. ICC purposefully set our exam fees extremely low so that every individual can afford to take the test, whether or not they get reimbursed from their company. As a nonprofit association, ICC also has a strong background in public safety. We have developed the building and fire codes that are adopted and enforced in all 50 states. ICC has also certified over 500,000 professionals working in building safety positions for jurisdictions and state agencies nationwide. When you add up our experience, you will be confident that ICC is the best organization to help your state establish a UST/AST program that meets the requirements of the EPA and helps protect your citizens.

ION Science Americas, LLC

33 Commercial Drive Waterbury, VT 05676 Tel: 802-244-5153 Contact: Karen Robinson Email: karen.robinson@ionscienceusa.com http://www.ionscience.com



Booth 23

ION Science are leading manufacturers of technologically advanced gas detectors, PID/VOC detectors, SF6 leak detectors and corrosion monitors, distributed worldwide.

JMM Management Group, LLC

2496 Technology Drive Elgin, IL 60124 Tel: 847-888-0276 Contact: Dina Casillas

Email: dcasillas@jmmglobal.com http://www.jmmglobal.com



Booth 19

JMM Management Group is a management consulting company providing comprehensive regulatory/environmental compliance and information technology (IT) services. JMM provides clients with customized environmental asset management and information solutions that consolidate and streamline regulatory compliance and asset management functions. JMM's services reduce the complexity and liability associated with all aspects of environmental compliance management.

MK Environmental, Inc.

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



Environmental Inc.

Booth 26

MK Environmental is a diverse supplier of environmental remediation solutions. With factories in Illinois and Louisiana, as well as offices in Alabama and Tennessee, MK has provided over 800 dual phase extraction and treatment systems. Since 2005, MK has installed remediation equipment for over two dozen Electrical Resistive Heating (ERH) thermal remediation project. 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. MKEnvironmental.com

MobileWright Solutions, Inc.

27 Water Street #204 Wakefield, MA 01880 Tel: 781-968-5245 Contact: Dan Blake Email: dblake@mobilewright.com http://www.mobilewright.com



Booth 12

MobileWright Solutions has implemented the UST Inspector (a mobile inspection software application) to streamline and improve 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.

Exhibitor Profiles

Modern Welding Co., Inc.

2880 New Hartford Road Owensboro, KY 42303 Tel: 270-685-4400 **Contact: Tony Honey** Email: thoney@modweldco.com http://www.modweldco.com



Booth 9

Modern Welding Company, Inc. is an 80 year old family business manufacturing underground fuel storage tanks; Glasteel and Glasteel II; aboveground fuel storage tanks; UL 142, Flameshield and Fireguard (fire-rated) tanks and Kleerwater Oil Water Separators at 9 facilities in the U.S.

NOV Fiber Glass Systems

2425 SW 36th Street San Antonio, TX 78237 Tel: 210-434-5043 Contact: Lance Awaldt Email: lance.awaldt@nov.com http://www.fgspipe.com



Booth 34

NOV Fiber Glass Systems is the market leader for "time-tested pipe systems" for underground fuels. This is proven by 40 years of continuous supply of UL Listed products for underground fuels. Red Thread, Red Thread II, Red Thread IIA and Dualoy 3000/L and 3000/LCX pipes have never been removed due to fuel incompatibility. With the constant search for renewable fuels, this long-term capability is key to our product use for future fuel applications.

Omegaflex

213 Court St Middletown, CT 06457 Tel: 610-524-7272 Contact: Donald Effgen



Booth 35

Email: donald.effgen@omegaflex.com INTRODUCING THE TWO LATEST FLEXIBLE PIPING TECHNOLOGIES FROM OMEGAFLEX® ... DOUBLETRAC- A High Pressure Flexible Double Wall Containment Piping for Underground use - Corrugated Stainless Steel primary pipe with UV stabilized Barrier Jacket. Salt water resistant Nylon protective layer with Self-flaring Stainless Steel Fittings, elbows and tees. DEF-TRAC- Flexible Stainless Steel, Heat Traced and Insulated or Non-Insulated Piping for Diesel Exhaust Fluid - With Self-flaring fittings and components that meet the latest EPA environmental standards.

PASS

PO Box 2353 Muncie, IN 47307 Tel: 765-281-5588 **Contact: Raymond Rees** Email: raymond.rees@passtesting.com http://www.passtesting.com



Booth 16

We are Practical American Safety Solutions, known more conveniently as PASS. We are a provider of software-based training systems that are applicable in all markets and industries. Our platform enables us to develop and deliver meaningful training 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. Our UST Class A/B & C Operator Training is designed to meet or exceed all requirements of the 2005 Energy Policy Act or EPAct. Our low cost program provides excellent quality training and is easily administered Online. PASS's A/B training is custom tailored to meet state specific requirements.

Purpora Engineering 658 N Progress Drive Saukville, WI 53080 Tel: 262-268-1150 Contact: Chris Ramshaw Email: chrisr@purporaengineering.com

http://www.purporaengineering.com



EWER

Booth 39

Purpora Engineering, Inc. started in 1978 as Training and consulting company for tank and line testing industry, today is a manufacture of testing equipment and recent US representative for Alert and Conidia **Bioscience Diesel Test Kits.**

Reverso Pumps, Inc.

201 SW 20th Street Fort Lauderdale, FL 33315 Tel: 954-522-0882 Contact: Michael Hudson

Email: contact@reversopumps.com

http://www.reversopumps.com

Booth 17

Reverso Pumps fuel polishing systems are a key component of preventive maintenance for your diesel engines, generators and diesel pumps. Uninterrupted power is important to your business activities and we help you maintain reliability with cleaner fuel delivered to your engines. Cleaner fuel equals dependability, cost savings and is environmentally conscious.

S. Bravo Systems, Inc.

2929 Vail Avenue Commerce, CA 90040 Tel: 323-888-4133 Contact: Jonathan Smith Email: jsmith@sbravo.com http://www.sbravo.com



Booth 10

Bravo has been a leading manufacturer of premier secondary containment systems for over 25 years. We now are certified woman-owned and Made in the USA accredited. We specialize in SingleWall and DoubleWall sumps that support both single and double-walled piping including VPH monitored piping systems. We provide containment products by way of innovative engineering and application of the latest in material science and manufacturing technology that are unmatched in simplistic design and ease of installation. This means that through foresight in design, our products solve the problems you are experiencing and work for you by lowering your costs and avoiding unnecessary and costly problems.

Seneca Companies

4140 E 14th Street Des Moines, IA 50313 Tel: 515-261-7705

ompanies

Contact: Darren Binning Email: dbinning@senecaco.com http://www.senecaco.com



Booth 14

Started in 1972 in petroleum equipment distribution, Seneca Companies has grown into a diverse provider of related solutions including petroleum construction, service & equipment, environmental technologies such as compliance management software and online training solutions, environmental consulting & remediation, general contracting, aviation fueling, automotive equipment/service, Industrial equipment/service, waste solutions and emergency response services. Seneca has 9 offices and more than 300 employees, located throughout the country. Learn more visit: www.senecaco.com.

Exhibitor Profiles

Steel Tank Institute

944 Donata Court Lake Zurich, IL 60047 Tel: 847-438-8265 Contact: Lorri Grainawi Email: lgrainawi@steeltank.com http://www.steeltank.com



Booth 13

Serving the petroleum, chemical food and water markets since 1916 as developers of standards & certification programs for quality, safety and reliability in the manufacture, installation and testing of steel tanks, piping and pressure vessels. The members of STI/SPFA care about the environment. That's why our standards for steel petroleum storage tanks build upon existing regulations and codes and provide additional requirements for manufacturing, installation and testing. For more information, visit our website at www.steeltank.com.

Tank Tech, Inc.

P.O. Box 17 Blodgett, MO 63824 Tel: 573-471-1932 Contact: Rob Russell Email: rob@tanktech.com http://www.tanktech.com



Booth 20

Tank Tech, Inc. 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.

USTtraining.com

3495 Daisy Lane Clinton, WA 98236 Tel: 866-301-8265 **Contact: Ben Thomas** Email: ben@USTtraining.com http://www.USTtraining.com



Booth 38

UST Training leads the nation in providing online Class A, B and C operator training that is high quality, engaging, down to earth, and cost effective. We also help guide operators to the deadline, consult regulators on program design and implementation, train UST inspectors nationwide, and are considered the leading authority on teaching UST management. Stop by our booth and visit with our experts.

Vaporless Manufacturing, Inc.

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



Booth 37

Vaporless Manufacturing, Inc. targets Best In Class solutions for line leak detection - mechanical, electronic, and mechanical/electronic hybrids. Electromechanical hybrid products provide solutions for thermal induced slow flow on line leak detection equipment and STP staging to maintain line leak detection compliance on manifolded pipe systems. VMI also provides Overfill protection for pressurized delivery systems, in normal and custom configurations. We have the industry's only in-tank float sensor functional test equipment. VMI manufactures catastrophic and precision test equipment for line leak detection, tanks, and sumps. We provide education and certifications for line leak detector installation, catastrophic line leak detector testing, precision tank testing, and sump testing equipment. All VMI equipment is compatible with Ethanol, Methanol, Biodiesel, Aviation Fuel, and typical gasoline and diesel blends. Come discuss VMI's new CFOSI™ Coordinated Fuel Oil System Integration method and equipment for safe, comprehensive, and cost effective control and compliance for emergency or backup generator facilities. Part of the CFOSI package is a groundbreaking means of testing Float Sensors in situ. In-Tank Float Sensor Testing products can be integrated with CFOSI systems or retrofitted into existing systems.

Veeder-Root

125 Powder Forest Drive Simsbury, CT 06070 Tel: 860-651-2879 Contact: Eva Chambers Email: echambers@veeder.com

http://www.veeder.com



Booth 15

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

Xerxes Corporation

7901 Xerxes Avenue South Minneapolis, MN 55431 Tel: 952-887-1890 Contact: Kristi Peterson

Email: kpeterson@xerxescorp.com



Booth 18

http://www.xerxes.com Xerxes Corporation, together with its parent ZCL Composites, is North America's leading manufacturer of U.L.-listed fiberglass underground storage tanks. Xerxes fiberglass fuel storage tanks are a rustproof, cost-effective alternative to steel tanks and offer distinct advantages in this age of ethanol and biodiesel fuel products. Xerxes also offers other unique products such as Diesel Exhaust Fluid (DEF) bulk storage tanks and the UL-listed Phoenix System for upgrading existing UST's. Visit our web site at www.xerxes.com.

Poster Sessions

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

Posters will be on display during the entire conference.

Poster Authors will be Present:

Monday 5:00-7:00 p.m.

Annual UST/LUST Poster Session Award: Monday 6:00 p.m.

During Breaks

Poster Session Moderators:

Matt Small, U.S. EPA Region 9 Jim Weaver, U.S. EPA ORD

Ethanol and Alternative Fuels

Bacterial Isobutane Oxidation as a Novel Source of Tertiary Butyl Alcohol (TBA), Alan House, Christy Smith, and Michael Hyman, North Carolina State University, mrhyman@ncsu.edu

Effect of Ethanol and Ethanol Biodegradation Products on Prospects for Natural Anaerobic Biodegradation of Benzene at Gasoline Spill Sites, Cherri Adair and John Wilson, U.S. EPA ORD, adair.cherri@epa.gov

Effects of Ethanol Blended Gasoline Release on Methane Generation and Soil Vapor Transport: Preliminary Results of Biogas Generation Experiments and Soil Vapor Modeling, Parisa Jourabchi and Ian Hers, Golder Associates, parisa_jourabchi@golder.com

Environmental Isotopes Fingerprinting Methane at Sites of Ethanol and Biofuel Spills, Ramon Aravena, Juliana Freitas, and Mark Toso, Universidade Federal de São Paulo - Campus Diadema, University of Waterloo, Minnesota PCA, jgfreitas@unifesp.br

Ethanol Fate and Transport Principles, Brent Stafford, Shell Global Solutions, brent.stafford@shell.gov

Historical Gasoline Compositional Data 1976 – 2010, James Weaver, U.S. EPA ORD, weaver.jim@epa.gov

ITRC Biofuels Guidance: Site Investigation for Biofuel Releases, Mark Toso, Minnesota PCA, mark.toso@state.mn.us

Phase Partitioning from Ethanol Blend Gasolines, David Spidle, M. Elizabeth Cary, and James Weaver, U.S. EPA, spidle.david@epa.gov

Physical-Model Simulations of Spills of Ethanol-Blended Fuels, Irina Mamonkina, Linda Quon, Yi Zhang, William Rixey, Jie Ma, Pedro J.J. Alvarez, and Brent Stafford, University of Houston, Rice University, and Shell Global Solutions, wrixey@uh.edu

The Impact of Ethanol (E95) Release into Gasoline Residuals, Juliana Freitas and Jim Barker, Universidade Federal de São Paulo - Campus Diadema, University of Waterloo, jgfreitas@unifesp.br

LUST Cleanup Tools and Techniques

CO₂ Traps: A New Tool to Monitor Natural LNAPL Loss, Kevin McCoy, Julio Zimbron, Tom Sale, and Mark Lyverse, Colorado State University, Fort Collins and Chevron Energy Technology Company, julio.zimbron@colostate.edu

Governing Processes and Solutions to Hydrocarbon Sheens, Alison Hawkins, Julio Zimbron, Tom Sale, Mark Lyverse, Pat Hughes, Colorado State University, Fort Collins and Chevron Energy Technology Company, julio.zimbron@colostate.edu

Ground Penetrating Radar - Not Just for Archeologists but Tankologists!, Dennis McChesney and Rebecca Jamison, U.S. EPA Region 2, mcchesney.dennis@epa.gov

LUST Site Capture Zone Modeling, Matthew Small, Tyler Ketron, and James W. Weaver, U.S. EPA and Ketron Environmental Analysis Inc., small.matthew@epa. gov

Remediation by Electical Resistance Heating, Jeff Kuhn, Montana DEQ, jkuhn@mt.gov

Remediation Insights at UST Sites from the California GeoTracker Database, Thomas McHugh, Poonam Kulkarni, Roopa Kamath, Charles Newell, and Sanjay Garg, GSI Environmental and Shell Global Solutions, temchugh@gsi-net.com

REMFuel: Remediation Evaluation Model for Hydrocarbon Fuel Sites, Ron Falta, Clemson University, faltar@clemson.edu

Results from the Backlog Study, Susan Burnell, U.S. EPA OUST, burnell.susan@epa.gov

Review of Connecticut LUST Site Backlog, Allison Forest, Connecticut DEEP, allison.forrest@ct.gov

Using Geographical Information Systems (GIS) to Identify the Geographic Regions Where People That Use Ground Water are Most Vulnerable to Impacts from Underground Storage Tanks, Rob Earle, John Wilson, Fran Kremer, and James Weaver, Shaw Environmental and U.S. EPA, wilson.johnt@epa.gov

UST Compatibility and Compliance

A Relationship Between Ethanol and Corrosion in STP Sumps, Andrea Barbery, Cherri Adair, Cynthia Paul, Rick Wilkin, John Skender, and John Wilson, U.S. EPA, barbery.andrea@epa.gov

Challenges in UST Compliance, William Alpine, Environmental Compliance Services, Inc, balpine@ecsconsult.com

Compliance to EPA 40CFR63 Underground Tank Equipment per Deadline of Jan. 11, 2011, James Walton, OPW Fueling Components, jwalton@opw-fc.com

Vapor Intrusion at LUST Sites

Bioattenuation of Methane along the Groundwater to Soil Surface Pathway in a Pilot-Scale Aquifer Impacted by Fuel Ethanol and Implications for Explosion Risk Reduction, Jie Ma, Pedro J.J. Alvarez, Yi Zhang, William Rixey, George DeVaull, and Brent Stafford, University of Houston, Rice University, and Shell Global Solutions, wrixey@uh.edu

BioVapor Model Poster, George DeVaull, Shell Global Solutions, george.devaull@shell.com

Chemistry and Toxicity of TPH in Petroleum Vapors, Roger Brewer, Hawai'i Department of Health, roger.brewer@doh.hawaii.gov

Evaluation of the BioVapor Model, James W. Weaver, U.S. EPA ORD, weaver.jim@epa.gov

Obtaining Representative Field Information for Vapor Intrusion Assessments: What Do You Need to Know?, Cynthia Paul, John Wilson, Kenneth Jewell, and Robin Davis, U.S. EPA ORD and Utah DEQ, paul.cindy@epa.gov

Significance of Biodegradation at Petroleum Hydrocarbon Release Sites - Implications for Vapor Intrusion Guidance, Matthew Lahvis, Shell Global Solutions, matthew.lahvis@shell.com

Using Conventional Monitoring Wells to Collect Data Necessary to Understand Petroleum Vapor Intrusion (PVI), Kenneth Jewell and John Wilson, U.S. EPA ORD, jewell.ken@epa.gov

Bio Vapor Hands On Workshop

Sunday, March 18, 1:00 p.m. to 5:00 p.m. Location: Grand Ballroom A

Presented by: George DeVaull, Consultant, Shell Global Solutions US Inc; Poonam Kulkarni, Environmental Engineer, GSI Environmental; Thomas McHugh, Vice President, GSI Environmental; Jim Weaver, Hydrologist, U.S. EPA ORD

This workshop will start with a brief overview of petroleum vapor intrusion issues, conceptual models, and comparisons to chlorinated solvent vapor intrusion. That groundwork will be used to launch an introduction to the BioVapor Model for estimating the severity of potential petroleum vapor intrusion. The workshop will include a discussion of model fundamentals, selection of parameters, and model output, including BioVapor model sensitivity studies and comparisons with measured data. This workshop is a "Hands-On" Case Study Exercise and Software Application of the BioVapor software tool.

The BioVapor model is a Microsoft Excel spreadsheet. Workshop attendees must bring their own (battery-powered) laptop computers loaded with their own Microsoft Excel software.

Biofuels Releases: Prevention, Investigation, and Remediation Workshop

Sunday, March 18, 1:00 p.m. to 5:00 p.m. Location: Grand Ballroom B

Presented by: Mike Maddigan, Environmental Chemist, Pennsylvania DEP; Denice Nelson, Principal Engineer, Arcadis; David Tsao, Ph.D, BP Corporation North America, Inc.

This workshop is based on the ITRC technical and regulatory guidance document, "Biofuels: Release Prevention, Environmental Behavior, and Remediation (Biofuels-1, 2011)" and associated internet based training. Participants will learn the scope of potential environmental challenges posed by biofuel releases by learning biofuel fundamentals, regulatory status, and future usage projections. Participants will learn the differences in biofuel and petroleum behavior in the environment; release scenarios, including potential release points within the biofuel supply chain, potential release frequencies, possible volumes, and likely media impacts. The workshop will explore biofuel release prevention measures; how to develop an appropriate conceptual model for the investigation and remediation of biofuels; and how to select appropriate investigation and remediation strategies.

Petroleum Vapor – Field Technical Workshop

Sunday, March 18, 1:00 p.m. to 3:00 p.m. Location: Grand Ballroom C

Presented by: Kenneth Jewell, Research Scientist, U.S. EPA ORD; Cynthia Paul, Environmental Scientist, U.S. EPA ORD; Chris Ruybal, Student Services Contractor, U.S. EPA ORD; John Skender, Hydrologic Technician, U.S. EPA ORD; John Wilson, Research Microbiologist, U.S. EPA ORD

The screening approach being developed by EPA OUST to evaluate petroleum vapor intrusion (PVI) requires information that has not be routinely collected in the past at vapor intrusion sites. What is the best way to collect this data? What are the relevant data quality issues and data quality requirements? How should the data be organized and used to inform a decision? Have you ever wondered how this stuff really works? Here is your chance to see it demonstrated.

Instructors will demonstrate the operation of commercially available equipment that provides information on concentrations of oxygen, carbon dioxide, methane, and combustible gases in air. They will demonstrate the use of field meters to determine concentrations of oxygen, methane and carbon dioxide in the soil gas, as well as demonstrate the construction and application of traps packed with Granular Activated Carbon (GAC) to remove gasoline hydrocarbons which can seriously interfere with the measurement of methane in soil gas. In addition, methods will be demonstrated to collect gas samples by water displacement that collects samples into glass serum bottles. The approach is much less expensive than collecting samples into Summa Canisters and analyzing by GC mass spectrometry.

Petroleum Vapor – Continuous Monitoring Workshop

Sunday, March 18, 3:15 p.m. to 5:00 p.m.

Location: Grand Ballroom C

Presented by: Geoff Hewitt, President, ION Science; Peter Morris, Business Development Manager, ION Science

Typically, petroleum vapor site investigation is carried out using hand held or transportable field instruments coupled with offsite lab analyses. When using field instruments, the data generated represents a snapshot in time and space. More sophisticated field equipment such as GC/MS can provide speciation, but still suffer from poor spatial and temporal resolution.

As an alternative, investigators can choose methods such as Summa canisters that sample for a fixed period, say 24 hours, followed by lab analysis. The data generated provides speciation and the concentrations represent an average for the sampling period.

This workshop includes descriptions of instrumentation used for collecting real time continuous data for multiple parameters such as VOCs, methane, oxygen, carbon dioxide, hydrogen sulfide and carbon monoxide together with atmospheric pressure, as well as speciation of the VOC components.

A comparison between spot sampling and continuous monitoring will highlight the questions about the value of limited spot sampling.

Site Optimization and Land Revitalization Using Triad Approach Workshop

Sunday, March 18, 3:15 p.m. to 5:00 p.m.

Location: Grand Ballroom D

Presented by: Stephen Dyment, Technical Support Program Manager, U.S. EPA OSRTI

This workshop will discuss case studies that demonstrate the use of the principles of Triad, including the use of innovative technology (MIP) as a real-time sampling tool and the innovative use of funding to cleanup a stalled site, which led to land revitalization. Sites to be discussed include the Fannon former petroleum bulk terminal that has been redeveloped for residential reuse in Alexandria, VA. In addition, sites in New Jersey that demonstrate the use of high resolution plume delineation and 3D visualization to optimize in situ remediation using ISCO and enhanced bioremediation compared to previously planned excavation that would have likely failed to meet clean-up objectives will be discussed as time allows.

Tribal Corrective Action Training Workshop

Sunday, March 18, 3:15 p.m. to 5:00 p.m. Location: Illinois Central

Presented by: Raymond Faliskie, Environmental Scientist, U.S. EPA Region 8; Janice Pearson, Regional Program Manager, U.S. EPA Region 8

This workshop will be an introduction to Corrective Action at Leaking Underground Storage Tank (LUST) Sites on Tribal land. The workshop will include an overview of the federal UST Regulations for Release Reporting, Investigation, and Confirmation; as well as Release Response and Corrective Action for UST Systems. An example case study walking through the entire corrective action process, starting from suspected to confirmed release, assessment, remediation and cleanup completion will be presented. The workshop will also provide a brief overview of typical remediation technologies used at LUST sites. This workshop is designed for tribal staff that do not have corrective experience but will also serve as an excellent refresher for experienced tribal professionals.

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

Breakfast Plenary, Grand Ballroom DEF

Alan Reinkemeyer, Acting Director, Division of Environmental Quality, Missouri Department of Natural Resources; Karl Brooks, Regional Administrator, U.S. Environmental Protection Agency Region 7; Virginia LeClere, Director of Planning and Environmental Protection, Prairie Band Potawatomi Nation; Mathy Stanislaus, Assistant Administrator, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency

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

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

Site Assessment, Grand Ballroom A

Properly assessing sites is one of the most critical steps in minimizing risk, keeping down costs, and moving sites quickly from assessment to closure. In this session four speakers will discuss assessment of different media at LUST sites. Speakers will discuss issues from understanding the mass of the plume and how to remediate it, to understanding and predicting diving plumes, to characterization and management of sites that have petroleum contamination in bedrock. Come to this session and learn more about assessing LUST sites.

William Benni, President, Improved Analysis through Modeling; Kenny Hemmen, Senior Project Manager, Geotechnology, Inc.; Lee Taylor, Principal Engineer, Taylor Environmental Consulting; Alexander Wardle, Environmental Geologist, Virginia DEQ; Moderated by Richard Spiese, Environmental Analyst V, Vermont DEC

State Fund Solvency, Grand Ballroom B

As EPA releases its Fund Soundness Guidance, the intensity of discussions about Fund soundness/solvency will grow. To prepare fund managers for upcoming talks with EPA regions and state management, John Wade will describe a method to evaluate a fund's cash flow by using an interactive cash flow model incorporating sometimes overlooked parameters. Chris Doll will chronicle a recognized funding shortfall in South Carolina's fund and the cooperative process used to craft a solution. To provide an idea of what fund solvency evaluation may look like in the future, Bill Foskett will reveal preliminary results of the five-state pilot test of the fund soundness "toolkit," including a new data form, new indicators, and a new snapshot report.

Chris Doll, Program Manager, South Carolina DHEC; Bill Foskett, Environmental Protection Specialist, U.S. EPA OUST; John Wade, Senior Consulting Actuary, Pinnacle Actuarial Resources, Inc.; Moderated by David Chambers, Petroleum Remediation Section Supervisor, Nebraska DEQ

Sherlock Holmes or Inspector Clouseau – Who Do You Want To Be?, Grand Ballroom C

In this session, we will cover what every inspector should know, common errors, and what to look out for. Specifically, we will look at common mistakes made by contractors when testing cathodic protection (CP) systems. Inspectors need to be able to recognize both "good" and "bad" testing when reviewing records because experience has taught us that improper or inadequate CP testing is all too common. Inspectors also need to understand how fiberglass is installed and repaired and common techniques to ensure that it is done correctly. Knowing what to look for when a contractor is working at a site is an important part of the inspection process. What designates an out of service UST, what requirements must be met to remain out of service, and why are these requirements necessary? The presentation will highlight key compliance criteria to evaluate when conducting an out of service UST inspection, as well as procedures to verify property ownership.

Ryan Breauz, Environmental Investigator, Texas CEQ; Kevin Henderson, Owner, Kevin Henderson Consulting, LLC; Mark Wickman, Fuel Handling Product Manager, National Oilwell Varco; Moderated by Tracie Donaldson, Environmental Engineer, U.S. EPA Region 6

2012: A Tank Odyssey: Demonstrations on Emerging Digital Solutions for UST Compliance Management, Midway 122

Limited Seating Available

Join us for a non-traditional hands-on session of Online Operator Training and Database Tools from states and vendors who have made external sites that the public access. Spend a few minutes listening to a brief demonstration from each state, then wander around to see exactly how each one works and try them out for yourself.

Darren Binning, General Manager, Seneca Companies, Inc.; Jennifer Carpenter, Compliance Manger, Seneca Companies, Inc.; Leslie Carr, Energy Act Coordinator, Kentucky DEP; Victoria DiBacco, Compliance Analyst, ECS Eclipse; Joel Hershey, Director, ECS Eclipse; Michelle Pruett, Operator Training Manager, Tennessee Division of USTs; Ben Thomas, Partner, UST Training; David Wilson, Environmental Scientist III, Utah DEQ; Moderated by Leslie Carr, Energy Act Coordinator, Kentucky DEP

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

Measuring Progress in the UST Program – What Can We Learn From 10 Years of UST System Testing Data?, Grand Ballroom A

This session will explore what 10 years of UST system testing data says about real world performance of equipment, owners and regulatory programs. Three leading tank testers will present data to answer the following questions and more: • What were the pass/fail results for tanks, lines, vapor recovery systems, spill buckets, sumps, line leak detectors and leak detection systems? • How have the pass and fail rates of different types of equipment and systems trended over time? • Are there differences in the performance between geographic regions, states, and between owners? • What do past trends in performance tell us to expect with the phase in of proposed regulatory revisions? Data will be presented followed by audience questions and roundtable discussion.

Brad Hoffman, VP Engineering, Tanknology; Edward Kubinsky, Special Projects Manager, Crompco, LLC; Marcel Moreau, Principal, Marcel Moreau Associates; Steve Purpora, President, Protanic; Thomas Schruben, Partner, American Cost Recovery Management, LLC; Moderated by Marcel Moreau, Principal, Marcel Moreau Associates and Thomas Schruben, Partner, American Cost Recovery Management, LLC

State & Territorial Program Managers Session, Grand Ballroom B

Moderated by Russ Brauksieck, Chief, Facility Compliance Section, New York DEC

LNAPL, Grand Ballroom C

Addressing Light Non-Aqueous Phase Liquid (LNAPL) problems at complex sites is a difficult and expensive proposition. This session will start off with a presentation discussing the need to develop an accurate conceptual model of LNAPL distribution. The first speaker will illustrate common LNAPL distribution assumptions and mistakes using data obtained from years of detailed Laser Induced Fluoresence LNAPL characterization studies. The rest of the session will be devoted to a case study of a highly complex site. The speakers will use the case study to illustrate how ASTM and ITRC guidance can be applied to a site during the development of a site's LNAPL Conceptual Model, LNAPL stability analysis and LNAPL recoverability evaluation. The speakers will highlight the perspective of both the consulting and regulatory decision makers at the site and how information on LNAPL stability and recoverability was used to develop a realistic and effective approach to the site.

Mary Ann Parcher, Principal Scientist, GES, Inc.; Christopher Ralston, Program Administrator, Oil Conrol Program, Maryland DE; Randy St. Germain, President, Dakota Technologies, Inc.; Moderated by Margaret Bastien, Environmental Engineer, New Hampshire DES

Tribal Only Meeting, Grand Ballroom D

Moderated by Randy Bettelyoun, UST Program Manager, Oglala Sioux Tribe and Roland Chester, Environmental Program Coordinator, ITCA

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

PVI – Consolidating Assessment Guidances, Refining Conceptual Modeling, Field Assessment Techniques, Grand Ballroom A

This session includes the following PVI assessment presentations: 1) A comparison of vapor intrusion guidance across the New England States which represents Phase 1 of a larger US analysis. 2) Significance of Biodegradation at Petroleum Hydrocarbon Release Sites – Implications for Vapor Intrusion Guidance 3) Obtaining Representative Field Information for Vapor Intrusion Assessments: What Do You Need to Know?

Kenneth Jewell, Research Scientist, U.S. EPA ORD; Matthew Lahvis, Consultant, Shell Projects and Technology; Cynthia Paul, Environmental Scientist, U.S. EPA ORD; John Wilson, Research Microbiologist, U.S. EPA ORD; Matthew Young, Senior Project Manager, Cumberland Farms; Moderated by Tom Walker, Environmental Protection Specialist, U.S. EPA OUST

Overcoming the Challenges Posed by Abandoned Tanks, Grand Ballroom B

Abandoned USTs have been a challenge that UST programs have had to deal with since the beginning of the program. With no viable owner (or with an owner unable or unwilling to act), these tanks often remain in the ground without the site having been assessed for many years. There are issues with safety, the potential of release, and lack of viable financial responsibility if a release has occurred. With the recent economic difficulties the nation has experienced, many states have noticed an increase in this population of tanks. This session will look at some of the challenges posed by abandoned tanks and present what a few states have done to overcome those challenges.

Chadwick Howell, Engineer Project Manager, St. Louis Development Corporation; Stephen Kent, Compliance Section Supervisor, Kentucky DEP; Melissa Turchi, Environmental Scientist, Utah DEQ; Chris Veit, Environmental Specialist, Missouri DNR; Moderated by Therron Blatter, UST Branch Manager, Utah DEQ

Fraud and Abuse, Grand Ballroom C

Ricky Cathey and Beth Pendergrass from Tennessee will present "How Safe is your Fund?: A "New" Tool in the Detection of Fraud in Reimbursement Claims". This has two purposes: to raise awareness of a potential partner to assist the UST Fund Program's efforts to decrease fraud and to introduce a "new" tool to UST Fund Programs with automated databases. Kim Sellards from the California State Water Board's Office of Enforcement will discuss the detection, investigation, prosecution, and deterrence of fraud against state trust funds.

Ricky Cathey, Environmental Specialist VI, Tennessee DEC; Elizabeth Pendergrass, Legislative Audit Manager, Tennessee Division of State Audit; Kimberly Sellards, Chief, Fraud, Waste, and Abuse Prevention Unit, California EPA; Moderated by Marge Wilhoite, Environmental Control Supervisor, Kentucky DEP

Tribal & EPA Meeting, Grand Ballroom D

Moderated by Robert Largent, Environmental Specialist II, ITEC Cherokee Nation and Bill Lienesch, U.S. EPA OUST

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

Standards, Grand Ballroom A

Come hear what's new in the world of UST system standards, and more importantly, participate in a group discussion on what SHOULD be changed!

Bob Card, Chief Pipe Engineer, Lockwood, Andrews & Newnam, Inc.; Lorri Grainawi, Director of Technical Services, Steel Tank Institute; Kevin Henderson, Owner, Kevin Henderson Consulting, LLC; Paul Miller, Environmental Engineer, U.S. EPA OUST; Bob Renkes, Executive Vice President, Petroleum Equipment Institute; Roland Riegel, Principal Engineer, Flammable Liquids Containment Products, Underwriters Laboratories, Inc.; Moderated by Lorri Grainawi, Director of Technical Services, Steel Tank Institute

Alternate Water Supplies, Grand Ballroom B

Providing alternate water supplies for owners of wells impacted by leaking USTs is frequently part of corrective action. Join this interactive discussion of policy issues and questions that can arise as we implement this part of the program. Audience participation is important as we share experience and ideas on such topics as replacement wells vs. public water, obtaining easements, developing community water systems, impacted public water supply wells, and who pays for what.

John Giese, Professional Geologist, Kansas DHE; Moderated by Betty Lamp, Hydrogeologist, Virginia DEQ

Site Characterization of Ethanol-Blended Fuel Releases, Grand Ballroom C

Science from the field and lab demonstrates that ethanol can extend the length of dissolved petroleum plumes containing benzene and other constituents. Biodegradation products of ethanol such as acetate and dissolved molecular hydrogen may significantly inhibit the natural anaerobic biodegradation of benzene, causing plumes of benzene and BTEX to be larger than plumes that do not contain ethanol. Therefore, releases from ethanol blended fuels pose unique characterization challenges for site managers. Recent biodegradation research results will be presented by Dr. John Wilson and Cherri Adair of the USEPA Office of Research and Development (ORD) R.S. Kerr Center. Jim Weaver, USEPA ORD R.S. Kerr Center, will present the basics of a practical model for predicting the impacts from ethanol blends such as E10 and E15. The model was developed from a two part conceptualization that first transports ethanol away from a source and then stimulates transport of BTEX, demonstrating the inhibition of BTEX degradation and possible cosolvency effects. This presentation will engage the audience in an interactive model use exercise.

Cherri Adair, Research Scientist, U.S. EPA ORD; Jim Weaver, Hydrologist, U.S. EPA ORD; John Wilson, Research Microbiologist, U.S. EPA ORD; Moderated by Jeff Kuhn, Manager, LUST Brownfields, Montana DEQ

Legal Update, Grand Ballroom D

This session is devoted to updating the States and Tribal Regions to new developments in the legal world since the last National Tanks Conference. It will take a quick look at the newly proposed UST regulations and selected casework from throughout the states and tribal regions. The session will look at both administrative and judicial decision made which may have an impact on the operation of State and Tribal programs.

William Alpine, Corporate Counsel/Director of Cost Recovery, Environmental Compliance Services, Inc.; Perry Theriot, Attorney Supervisor Legal Remediation Section, Louisiana DEQ; Moderated by Perry Theriot, Attorney Supervisor Legal Remediation Section, Louisiana DEQ

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

Remedial Technologies, Grand Ballroom A

In these times of ever-shrinking resources, it is important now more than ever to stay current with the latest technologies. This session will showcase innovative technology, a creative drilling technique as a cost effective solution to difficult site assessment conditions, free EPA software tool for simulating the effects of source and plume remediation at hydrocarbon contaminated sites. These presentations should spark creative solutions to complex site problems and aid project managers in communicating with interested parties during community engagement opportunities.

Matthew Dingens, Global Market Manager, Carus Corporation; Ron Falta, Professor, Clemson University; Michael Lubrecht, Senior Geologist, Directed Technologies Drilling, Inc.; Moderated by Steve Reuter, Geologist Manager, PSTB, New Mexico ED

Are We Really In This Together?, Grand Ballroom B

We hear a lot about "partnerships" and "stakeholders" and "community engagement"... But effective collaboration is difficult and time-consuming. Come hear a diverse set of speakers share their personal experiences and take away practical ideas on how you might improve your working relationships. A Missouri regulator will share how the program built a successful working relationship with the regulated community and how that improved inspections and compliance. A tank owner will explain how partnerships can be effective -- or not! And a Virginia LUST regulator will share an intriguing case study involving a difficult and controversial cleanup, where his work was one part technical and three parts diplomat.

William Chapman, Senior Geologist, Virginia DEQ; Mark Jordan, Vice President, Facilities, Wallis Companies; Heather Peters, Environmental Specialist, Missouri DNR; Moderated by John Albert, Program Manager, Missouri Department of Agriculture

Tank Insurance: Unlock the Mystery, Grand Ballroom C

The world of private tank insurance often appears shrouded in mystery to tank regulators and tank owners alike. This session will provide information to unlock those mysteries. Khan Adams, an UST claims adjuster, will share the framework used when reviewing UST insurance claims. Heather Rehm-Stelter, an UST insurance underwriter, will unlock the mysteries of insurance policy underwriting. The session will begin with a presentation of claims adjustment mechanics and a review of recent court cases and their outcomes. A discussion of how insurance carriers, state regulators, EPA, and tank owners can collaborate to increase the effectiveness of insurance as an FR mechanism will follow. The ASTSWMO State Funds/Financial Responsibility Task Force has recently published a guidance document to assist in education regarding tank insurance. http://astswmo.org/Pages/Policies_and_Publications/Tanks.htm

Khan Adams, CPCU, AIC, Great American Specialty E&S; Heather Rehm-Stelter, AVP – Product Line Manager, Berkley Specialty Underwriting Managers LLC; Moderated by Jill Hall, Planner IV, Delaware DNREC

Perspectives on UST Operator Training – The Good, the Bad, and the Ugly, New York / Illinois Central

Got Operator Training? Come and hear as three presenters with unique perspectives on UST Operator Training debate on this Energy Policy Act of 2005 requirement. This will be one of the last sessions on UST Operator Training before the August 8, 2012, national deadline, so you won't want to miss this one. Learn what's good, what's not so good, and what can be avoided. Kris Shiffer will discuss the lessons Pennsylvania learned rolling out the program and what they'll expect by the deadline. Jessica Price will reflect on what went right and what could be improved after the South Carolina deadline passed on August 8, 2011. Ben Thomas, a national training vendor, will offer a frontline perspective on the triumphs and pitfalls of UST Operator Training throughout the United States. The debate will conclude with an open microphone session during which audience members ask questions and share UST Operator Training experiences with the presenters.

Jessica Price, Environmental Health Manager I, South Carolina DHEC; Kris Shiffer, Environmental Group Manager, Pennsylvania DEP; Ben Thomas, Partner, UST Training; Moderated by Michael Pomes, Environmental Scientist, U.S. EPA Region 7

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

Luncheon, Grand Ballroom DEF

The Franchising and TQM Roots of the National UST Program

Carolyn Hoskinson, Director, Office of Underground Storage Tanks, U.S. Environmental Protection Agency; Ron Brand, Retired, Former Director of U.S. Environmental Protection Agency Office of Underground Storage Tanks

Moderated by Dania Rodriguez, Deputy Executive Director, Association of State and Territorial Solid Waste Management Officials

1:30 p.m. - 5:00 p.m.

Lambert Airport Fueling Hydrant System Tour, Meet at Registration Desk

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

Lens on Forensics – Somewhere in Time, Grand Ballroom A

Over time it can be difficult to distinguish one release from another when petroleum compounds are involved. And still, doing so is critically important to a case. Two of our presenters will cover the tools they've used to see just who is responsible for what at a site. Our third speaker takes a close look at a how a petroleum spill weathers by using simple forensic lab work. A focus on forensics can be a lens on the evidence we just may need.

Dan Crawford; Lee Taylor, Principal Engineer, Taylor Environmental Consulting; Michael Trombetta, Hazardous Waste Site Cleanup Bureau Chief, Montana DEQ; Moderated by Dan Manweiler, Groundwater Manager, Virginia DEQ

Release Detection Compliance Challenges at High-Throughput Facilities, Grand Ballroom B

High throughput facilities offer a number of challenges to UST system owners and operators in complying with the release detection requirement. UST implementing agencies also find it difficult to address concerns associated with ensuring owners and operators are in compliance with release detection requirements. This session will present information from the perspectives of UST implementing agencies, the regulated community, and a national release detection vendor. The session will provide an ideal forum where all concerned stakeholders can exchange information and ideas in order to probe where the tanks program is and where it could go regarding release detection at high throughput facilities. U.S. EPA will discuss efforts underway to develop an information manual to identify challenges in complying with release detection requirements. You will hear about a state UST program's experience and how the program is addressing these facilities by regulation. An owner/operator of multiple high throughput facilities will share her perspective on complying with the release detection requirement. Finally, a release detection vendor involved with high-throughput Travel Center companies across the United States for over ten years will summarize initiatives that have been undertaken by these facilities to address their challenges.

Emily Gloeckler, Manager, Environmental Engineering, Travel Centers of America and Petro Stopping Centers; William Jones, Executive Vice President, Warren Rogers Associates; Tim Smith, Environmental Scientist, U.S. EPA OUST; Moderated by Chris Plassmeyer, Environmental Specialist, Missouri DNR

You Can't Recycle Wasted Time, Grand Ballroom C

TANKS CONFERENCE

T) EEXPO

How can we do more with less? The current state of the economy has many employers, including government agencies, looking for ways to continue operating in an efficient, productive manner with fewer staff and less resources. This session is designed for State, Federal and Tribal attendees (compliance, remediation and fund staff) to evaluate processes and identify non-value added efforts, which can be eliminated. Ron Brand will kick off the "brainstorming" session, offering insight on the opportunities for process improvement within petroleum storage tank programs; the rest is up to us. We will work in small breakout groups. Participants should come prepared to discuss possible process inefficiencies and work toward solutions.

Ron Brand, Retired, Former Director of U.S. EPA OUST; Moderated by Jennifer Steffes, Environmental Protection Specialist, Colorado DLE

Database Tools, Midway 122

Limited Seating Available

23rd National

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See what other state programs are doing with computer systems in an interactive, small group environment. After rotating through a series of short presentations, go back to the ones that interest you for one on one interaction with the presenter. This session focuses on a variety of internal systems including databases, GIS, and document management.

Suzan Arfman, GIS Analyst, New Mexico ED; Richard Brown, Environmental Specialist, Missouri DNR; Alex Geller, Environmental Analyst, Vermont DEC; Michael Phelps, Environmental Supervisor, North Carolina DENR DWM UST; Rich Saathoff, Environmental Scientist, State of Utah; Amy Webster, Geologist Senior, Virginia DEQ; Moderated by Betty Lamp, Petroleum Fund Administrator, Virginia DEQ

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

State Backlog Reduction Strategies, Grand Ballroom A

Two state programs (MO and AZ) will present the results of successful LUST backlog reduction initiatives including use of contractors and administrative/rule changes to support closure. The third state (VA) will describe an analysis of 480 corrective action plans including the technology used, the results, costs and remediation time.

Aaron Clare, Environmental Specialist III, Missouri DNR; Wayne Pudney, Senior Hydrogeologist, Arizona DEQ; Alexander Wardle, Geologist, Virginia DEQ; Moderated by Sue Burnell, EPS, U.S. EPA OUST

Cost Control Roundtable, Grand Ballroom B

This will be an interactive session where the moderators will stimulate discussions on both successful and not so successful tools states have used help to control state fund reimbursement costs. It is hoped that session attendees will come away with some cost control ideas to bring back to their state.

Moderated by Chuck Schwer, Section Chief, Vermont DEP

Biofuels: Latest Developments in UST Research, Grand Ballroom C

Growing attention in the biofuels retail market has led to an increased focus on the suitability of using legacy UST system equipment with new fuels. Lack of experience with intermediate ethanol blends has made the compatibility and functionality of these fuels with UST system materials the greatest unknown to date. In this session, presenters will discuss results of recent testing on material compatibility with intermediate ethanol blends, performance of ATGs in ethanol-blended fuels, and accelerated corrosion in sumps.

Anne Marie Gregg, Research Scientist, Battelle; Mike Kass, Development Engineer, Oak Ridge National Laboratory; Steve Pollock, Petroleum Compliance Inspector, Virginia DEQ Tidewater Regional Office; Moderated by Andrea Barbery, Environmental Engineer, U.S. EPA OUST

Operator Training – Future Issues, Grand Ballroom D

Most states have enacted laws and regulations to implement UST operator training, and multiple vendors and states have created training courses. Now what? What issues do we face as this huge new national program is implemented state by state? Hear thoughts from three speakers who are daily coping with questions about reciprocity among the states, retraining requirements, liability concerns, compliance and enforcement issues, and other challenges that lie ahead!

Ray Leather, Vice President of Environmental Affairs, Cumberland Gulf Group of Companies; Mike Morgan, National Sales Director, Practical American Safety Solutions; Chris Runnels, Environmental Manager, Mansfield Oil Company; Moderated by Carol Eighmey, Executive Director, Missouri PSTIF

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

Remediation - The Next Generation, Grand Ballroom A

The practices and principles of Green and Sustainable Remediation (GSR) are not new to remediation contractors and regulators; although with "green" becoming a popular term, these practices are now being further developed and communicated to the regulated industry through focused state programs. This session will provide a look at the description and core elements of GSR, how to incorporate GSR best management practices into remediation design, specific historical GSR practices, and methods to communicate GSR to the regulated industry. The session will also address the development of accurate remediation life-cycle costs through effective feasibility testing towards development of an accurate conceptual site model. GSR options should be considered during remediation method selection to ensure that they are incorporated in the final design.

Zach Hope, Environmental Protection Specialist, Colorado DOPS; Kevin Lienau, Regional Engineering Manager, Groundwater & Environmental Services, Inc.; Moderated by Greg Johnson, Petroleum Inspection Program Manager, Colorado CDLE

Using LEAN & Mobile Electronic Technology: Keys to Inspection Efficiency, Grand Ballroom B

Implementation of the 2005 Energy Act, requiring that State UST programs inspect all federally regulated sites at least once/3 years has proven to be extremely difficult in some States and virtually impossible in others. While faced with reduced resources and funding, it is critical that States look at ways of stream-lining processes by reducing wasteful/non-value-added steps of the UST inspection. This presentation illustrates how CT used LEAN initiatives to revamp their UST inspection process; which resulted in a 300% increase of inspections performed without additional staff or compromising the quality of the inspection. CT is on target to complete the operational/structural compliance inspection of all federally regulated UST sites an entire year early. This session demonstrates how implementation of LEAN initiatives made it possible. CT and other State UST programs have been using mobile electronic inspection tools to gain significant time savings, paperless operations, standardized enforcement, greatly improved data quality and ultimately an increased number of better documented inspections. In this session, these benefits will be shown through the demonstration of features like field data synchronization, compliance engine utilization, site diagramming, electronic signing, on-site printing, site management plan generation, operator testing, GPS coordinate capture, and electronic document generation.

Dan Blake, President, Mobile Wright Solutions; Omar Tyson, Sanitary Engineer, Connecticut DEEP; Moderated by Ken Koon, Environmental Manager, Tanks Section, Missouri DNR

State and EPA Meeting, Grand Ballroom C

Moderated by Mark Barolo, Deputy Director, U.S. EPA OUST and Russ Brauksieck, Chief, Facility Compliance Section, New York State DEC

Looking Ahead at Biofuels, Grand Ballroom D

Interested in what lies ahead for biofuels? This session will be beneficial regardless of your area of tanks expertise. Mahesh Albuquerque, Chair of ASTSWMO's Alternative Fuels Workgroup will be our moderator. Robert Anderson from EPA's Air Office will cover the steps under the Clean Air Act to bring a new fuel or fuel additive to the market. Dr. David Tsao with BP will gauge biobutanol's potential alongside ethanol as a future fuel, and Mark Toso with ITRC's Biofuels Team describes the outcomes we'll face from accidental releases of biofuel blends in the environment. Take a good look ahead at biofuels to wrap up your last morning of the NTC.

Robert Anderson, Environmental Protection Specialist, U.S. EPA OUST; Mark Toso, Hydrogeologist, Minnesota PCA; Mark Tsao, Ph.D, BP Corporation North America, Inc.; Moderated by Mahesh Albuquerque, Director, Colorado OPS

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

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Expo Raffle, First Floor Garden Level

This year's National Tanks Conference will feature an exhibitor prize raffle! Each attendee will receive a card with all of our exhibitor's 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, free 2013 National Tanks Conference registrations, Amazon Kindles, St. Louis Cardinals apparel, 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.

PVI from States' Perspective – Examples of Real World Challenges and Success, Grand Ballroom A

This session includes the following presentations representing various geographic regions of the US: 1) Evaluation of Vapor Intrusion in Arizona – Conditions and Longevity of Vadose Soil Petroleum VOCs, 2) Residential Indoor Air Quality [in Virginia]: An Update on a Long Standing Dissolved Phase Gasoline Plume and the Changes to the Corrective Action Strategy, 3) How Missouri overcame the challenges of the collection of bad data in evaluating the Vapor Intrusion Pathway at petroleum storage tank sites.

William Chapman, Senior Geologist, Virginia DEQ; Valerie Garrett, Environmental Specialist IV, Missouri DNR; Jeanene Hanley, Industrial Hygiene/ Environmental Consultant, Arizona Department of Administration; Moderated by Tom Walker, Environmental Protection Specialist, U.S. EPA OUST

It's Not Your Father's Fuel!, Grand Ballroom B

New Alternative fuels (ULSD, Ethanol, and Bio-diesel) have only been in widespread use nationally for about five years, but there are a growing number of problems with the integrity of storage tank system equipment conveying these fuels. The purpose of this presentation is to show evidence (photos and data) from owner/operators monthly visual inspections, State UST regulatory inspections, and provide (regulators, owners and operators, and other industry professionals) recommendations on what to look for so they can recognize and evaluate problems as early as possible to avoid or minimize the potential damage. The presentations will also involve explanations of how the conditions within the storage tank systems and the characteristics of the alternative fuels contribute to the formation of these problems, and some suggestions for corrective and preventive measures. A consortium of associations are also conducting research on the reported issues regarding corrosion in systems storing and dispensing ULSD. The background on this issue will be presented as well as an update on the research project being undertaken to better understand this issue.

Rick Chapman, Industry Liaison Manager, Innospec Fuel Specialties; Anne Marie Gregg, Research Scientist, Battelle; Kevin Henderson, Owner, Kevin Henderson Consulting, LLC; Marshall Mott-Smith, President, Mott-Smith Consulting Group, LLC; Prentiss Searles, Marketing Issues Manager, American Petroleum Institute; Moderated by Marshall Mott-Smith, President, Mott-Smith Consulting Group, LLC

Petroleum Brownfields, Grand Ballroom C

How UST Revitalization & Community Development Efforts Coincide. This session will provide an overview of the efforts underway across the country to integrate UST sites into the community development arena. The first presenter will describe experiences encountered helping people grasp a better understanding of how to can integrate petroleum brownfields into their community revitalization plans. The second presenter will describe a strategy to enhance community economic development by focusing on the re-use of abandoned and under-utilized UST sites and ways that local planning officials are exploring to change policies in an effort to promote development along urban corridors. The third presenter will describe the "Backlog of Petroleum-Contaminated Sites--Closure and Property Reuse Study." This study will provide rigorous statistical analysis to better understand the variables that link leaking USTs sites as a potential Brownfield site and help clarify and expand opportunities for advancing their cleanup and reuse.

Hernando Albarracin, Section Manager, Illinois EPA; Mark Berenbrok, Petroleum Brownfields Coordinator, South Carolina DHEC; Karen Stewart-Singer, Economic Development Manager, Manatee County Florida; Moderated by Steve McNeely, Environmental Protection Specialist, U.S. EPA OUST

How Disastrous Is It When Disaster Strikes?, Grand Ballroom D

This session will discuss environmental impacts and coping with natural disasters, with a special focus on underground storage tank system impacts. Speakers will share their advice and experiences with recent New England floods, Louisiana's hurricanes and the Joplin F5 tornado.

Samuel Broussard, Environmental Scientist Senior, Louisiana DEQ; Heather Peters, Environmental Specialist, Missouri DNR; Chuck Schwer, Section Chief, Vermont DEC; Randall Willoughby, State On-Scene Coordinator, Missouri DNR; Moderated by Heather Peters, Environmental Specialist, Missouri DNR

Cherri Adair, U.S. EPA ORD

Cherri Adair is an Environmental Scientist in the US EPA Office of Research and Development, National Risk Management Laboratory, Ground Water and Ecosystem Restoration Division (GWERD), in Ada, OK. Her research areas are monitored natural attenuation, fuel oxygenates, and biofuels. She has conducted field and microcosm studies to determine the biological fate of benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), methyl tertiary butyl ethylene, tertiary butyl alcohol, ethanol, other fuel oxygenates, and chlorinated solvents in contaminated aquifers. Currently, she is conducting microcosm studies to determine the biological fate of biodiesel and other proposed renewable fuel sources in groundwater.

Khan Adams, Great American Specialty E&S

Khan Adams manages underground storage tank claims for Great American Specialty E&S Insurance, a national insurance carrier providing coverage for USTs since 1989. Great American is the designated carrier for the Kansas 3rd Party Insurance Plan and serves as the TPA for Tank Owner Members Insurance Company. He has 20 years of experience in the insurance industry having worked in all facets of delivering insurance to petroleum marketers including claims, underwriting and loss prevention. He graduated with a BS degree in Business Management from Brigham Young University. He has an Associate in Claims (AIC) designation and the Chartered Property Casualty Underwriter (CPCU) designation from The Institutes.

Hernando Albarracin, Illinois EPA

Hernando Albarracin has been the manager of the Illinois Environmental Protection Agency's Leaking Underground Storage Tank Section since April 2008. Prior to holding this position, he was a unit manager in the Leaking Underground Storage Tank Section, and prior to that, he was an engineer in the RCRA Permit Section. He has been with the Illinois Environmental Protection Agency for nearly 23 years. He earned a B.S. in Mining Engineering from Southern Illinois University at Carbondale in 1986, and finished all the coursework for a Master of Science in Mining Engineering at SIUC when the Illinois Environmental Protection Agency offered him a job in 1989. He believes the study of the state backlogs is crucial for getting more sites cleaned up and returned to productive use, which is consistent with the mission of protecting human health and the environment. Furthermore, he is a certified yoga instructor who teaches yoga classes in Springfield, Illinois. He believes yoga is all one needs to live a healthy lifestyle.

William Alpine, Environmental Compliance Services, Inc.

Bill Alpine is Corporate Counsel and Director of Cost Recovery for Environmental Compliance Services, Inc. (ECS). ECS is an environmental consulting company specializing in providing

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a broad range of environmental services to its petroleum, institutional, governmental and educational clients. ECS's expertise encompasses such areas as remediation, due diligence, energy conservation and claim reimbursement services. His responsibilities include providing corporate legal guidance to the company's 200+ employees as well as overseeing the company's state reimbursement claims management program. Prior to 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 Bachelor's degree in Marine Engineering from the Massachusetts Maritime Academy, and his Juris Doctorate from Suffolk University.

Robert Anderson, U.S. EPA OTAQ

Robert Anderson works with the U.S. Environmental Protection Agency's Office of Transportation and Air Quality in the Compliance Division. He has spent the last several years working on the Agency's efforts regarding the evaluation and implementation of the E15 waiver to the Clean Air Act. He also helps provide guidance on the registration of new fuel and fuel additives.

Suzan Arfman, New Mexico ED

After 20 years with American Airlines, Suzan Arfman decided it was past time to do something new. She went back to school earning a degree in Geographic Information Systems from Central New Mexico Community College. After a brief 6 week retirement the New Mexico Environment Department called and she answered. From an intern, to a permanent temp, to a full-time employee, and now a Geographic Information Systems Analyst working almost exclusively for the New Mexico Environment Department/Petroleum Storage Tank Bureau (PSTB) since 2005. While with the PSTB an EPA Region 6 project has been her main focus. GISST, the Geographic Information Systems Screening Tool, is an environmental assessment identification and prioritization tool developed to provide a systematic approach to determine cumulative impacts in making environmentally sound decisions. GISST has been modified to evaluate petroleum facilities in New Mexico on their potential to leak and the jeopardy such a leak could cause the public and the environment. She has worked closely with the Petroleum Inspectors and Program Managers to ensure an accurate analysis is achieved.

William Benni, Improved Analysis through Modeling

William Benni is the founder of Improved Analysis through Modeling, located in Christiansburg Virginia. He was graduated with highest honors from Rutgers University with a degree in chemical engineering and has completed his fourth year in the PhD. Program at Virginia Tech. He has developed the Benni Source Modeling Approach over the past 19 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 today. Currently, his work focuses on applying the Approach to monitoring the progress of thermal remediation projects, finding underlying causes at UST problem sites and providing expert testimony.

Mark Berenbrok, South Carolina DHEC

Mark Berenbrok, South Carolina Department of Health and Environmental Control – He is a Project Manager in the Brownfields Section and oversees non-responsible party voluntary cleanup contracts. He also assists local governments and non-profits in developing site inventories and performing site assessments with emphasis on petroleum sites. He has a B.S. in Geology from the University of South Carolina. Prior to joining the Brownfields Section in 2008 he worked in the Department's Underground Storage Tank Program for 20 years. He administered two of the initial 50 USTfield Pilot Projects.

Darren Binning, Seneca Companies, Inc.

Darren Binning is currently the General Manager of Seneca Environmental Services, Inc. in Des Moines, IA. In addition to the Corporate office in Des Moines, IA, he manages branch offices in Davenport, IA, Kansas City, MO, and Denver, CO. He manages a staff of professional consultants, engineers, and field technicians working on projects involving environmental assessments, remediation, and compliance for retail petroleum, petroleum pipeline, agricultural chemical, manufacturing, landfill, and municipality clientele. He has been with Seneca Companies since April, 2004. His formal education includes Bachelors studies in Environmental Science at Iowa State University in Ames, Iowa (December 1999).

Dan Blake, MobileWright Solutions, Inc.

Dan Blake is a software engineer who has focused on mobile applications for the past 10 years. He is currently the president and founder of MobileWright Solutions. Over the past several years, MobileWright has developed the UST Inspector software program which is helping to streamline and improve the inspection process at several UST programs (NH DES, CT DEP, ID DEQ, NC DENR, VI DPNR, EPA UST Section in Region 2, and Titan Management Group). He is continuing to working with state inspector application. He received a BS degree in Aerospace Engineering from Boston University in 1991.

Ronald Brand, Former Director of U.S. EPA OUST

Ron Brand served as the first Director of the Office of Underground Storage Tanks in EPA. He led the program from 1985 to 1991. He adapted the franchise model to the UST program and incorporated Total Quality Management into the program. Prior to that, he was an assistant to the Deputy Administrator of EPA, dealing with agency wide issues. Earlier, he headed up Program Evaluation in EPA working on improving operations in EPA programs. He also led an experimental project in Indiana to improve health services delivery, and directed a multi-year task force at the Department of Health and Human Services to streamline processes in over 200 programs in HHS. He received a Bachelor's Degree in Public Administration from New York University, and completed a National Institute of Public Affairs Fellowship at Princeton University focusing on Economics.

Ryan Breaux, Texas CEQ

Ryan Breaux is a Petroleum Storage Tank (PST) and Stage II Vapor Recovery (ST II) Investigator in the Houston Region Office for the Texas Commission on Environmental Quality (TCEQ). He received a Bachelor's of Science Degree in Wildlife Ecology and Management from Texas A&M University in 2004, and is completing a Master's of Science in Environmental Science from the University of Houston - Clear Lake. He has experience working in the oil and gas industry in South Texas prior to accepting employment with the TCEQ in 2009. He serves on several programmatic committees and workgroups and participated in database development to plan and track investigations of 4000 PST facilities in the Houston Region and over 16,000 statewide.

Roger Brewer, Hawai'i Department of Health

Roger Brewer is senior scientist and environmental hazard assessment specialist with the Hawai'i Department of Health. His environmental experience includes regulatory compliance audits, field investigations, contaminant fate and transport modeling and human health and ecological risk assessments. He has also worked as an environmental consultant in the US, Asia and South America and as a senior geologist and environmental risk assessment specialist for the California Environmental Protection Agency. His academic background includes a PhD in geology.

Karl Brooks, U.S. EPA Region 7

Appointed by President Barack Obama as U.S. EPA Region 7 Administrator in February 2010, Karl Brooks supervises agency operations in Missouri, Iowa, Nebraska, and Kansas. He earned his Ph.D. from the University of Kansas in 1996, and joined the faculty in 2000, teaching American environmental, political, and legal history, as well as environmental law and policy. He is the author of Before Earth Day: The Origins of American Environmental Law, 1945-1970 (2009) and Public Power, Private Dams: The Hells Canyon High Dam Controversy (2006); editor of The Environmental Legacy of Harry S. Truman (2009); and has written many articles for newspapers, magazines, and scholarly journals. He was elected in 1986 to the first of three terms in the Idaho Senate. From 1993 to 1996 he served as executive director and legislative liaison of the Idaho Conservation League, Idaho's largest citizens' environmental organization.

Samuel Broussard, Louisiana DEQ

Samuel Broussard works for Louisiana Department of Environmental Quality as a Senior Scientist for the UST and Remediation Division. He develops UST regulations and program guidance, trains UST staff, contractors, owners and operators on UST compliance issues, and is the LDEQ contact for all Energy Policy Act requirements. He is also serving as one of the Louisiana State On-Scene Coordinators for the BP Oil Spill, and worked all major Louisiana hurricanes leading field operations in hazardous materials orphan container recovery. He has a BS degree in Geology from the University of Southwestern Louisiana, and worked in the oil and gas industry prior to joining the LDEQ in 1992. He has 10 years of RCRA hazardous waste experience and 12 years of UST experience.

Richard Brown, Missouri DNR

Richard Brown has worked in the Missouri Department of Natural Resources Hazardous Waste Program for over 10 years; 2 years in the Brownfields Voluntary Cleanup Program as a Planner and over 8 years in the Tanks Section. Since 2007, he has worked as an Environmental Specialist in the Tanks Section's Closure & Technology Unit where he has reviewed over 225 UST closure reports and has performed over 150 UST closure inspections. In 2010, he contributed to the implementation of the Department's American Reinvestment and Recovery Act (ARRA) by providing cleanup oversight to 6 abandoned Missouri UST sites. In June 2006, he was named Hazardous Waste Program's Employee of the Month. Previous to working for the State of Missouri, he served as a Director on the Miller County Public Water Supply Board; and as an alderman and police commissioner on the City Council of Lake Ozark, MO. From 1980 to 2001, he managed several businesses in the Lake of the Ozarks area, including 2 years' operating a grocery store with retail gas operation. He graduated from Missouri State University with a Bachelor of Science degree in Industrial Management, a Bachelor of Science degree in Marketing, and a Bachelor of Science degree in Finance/General Business, and is a life-long resident of the State of Missouri.

Susan Burnell, U.S. EPA OUST

Susan Burnell works in the Cleanup and Revitalization Division of EPA's Office of Underground Storage Tanks (OUST). She has been with EPA for 16 years, primarily in the RCRA Subtitle C program and has worked in OUST since 2009. She is the content lead for OUST's backlog study. She has a bachelor's degree in biology from Albion College in Albion, Michigan.

Bob Card, Lockwood, Andrews & Newnam, Inc.

Over the course of Bob Card's 32+ year career with manufacturers and consultants, he has designed over 2,000 individual pipeline projects for a variety of pipe materials. His design expertise is with Steel Pipe, Prestressed Concrete Cylinder Pipe, Reinforced Concrete Pipe, Stainless Steel Pipe, Ductile Iron Pipe, Fiberglass Reinforced Plastic Pipe and High Density Polyethylene Pipe. His pipeline design experience has included work in over 35 states and 6 foreign countries. He is active in various associations, writing manuals, standards, specifications and codes for organizations such as AWWA, ASCE, STI/SPFA and ASTM. He has published papers on pipe/joint designs and has been a frequent speaker at national conferences as well as a guest lecturer at Utah State University.

Jennifer Carpenter, Seneca Companies

Jennifer Carpenter is currently the Compliance Manager for Seneca Environmental Services, Inc. in Des Moines, IA. She and her staff oversee all aspects of petroleum related compliance for facilities in 23 states. She also works on projects involving environmental assessments and remediation for retail petroleum and agricultural chemical clientele. She has been with Seneca Companies since January 2005. Her formal education includes Bachelors studies in Geosciences and Environmental Science at The University of Iowa in Iowa City, Iowa (May 2003).

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 10 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. She also assists with writing regulations, develops their online training program, assists with program development in the UST Compliance Section, helps train UST field inspectors, and writes/updates handbooks and SOPs. She also represents Kentucky on the ASTSWMO UST Task Force and is the Vice Chair of the ASTSWMO Core Report Workgroup.

Ricky Cathey, Tennessee Division of USTs

Ricky Cathey is a TN UST Reimbursement Database Programmer. He has 8 years' of experience with TN-UST, Remediation and 16 years' of experience as an Analytical Chemist with the TN State Environmental Lab.

Randy Chapman, Virginia DEQ

Randy Chapman received his Bachelor of Science degree from Clemson University in 1988 and attended graduate school at the University of South Carolina. In 1990, he was hired by the South Carolina Department of Health and Environmental Control (DHEC) UST Program. In 1993, he was hired by the Virginia Department of Environmental Quality (DEQ) as a UST remediation geologist. He is currently a Remediation Program Leader in the DEQ Northern Regional Office. Over the years he has directly managed hundreds of UST and AST petroleum release investigations, assessments, and corrective actions, ranging from simple home heating oil releases to large bulk storage terminal closures. He has also presented numerous case studies at EPA Region 3 and National LUST Conferences.

Richard Chapman, Innospec Fuel Specialties

Rick Chapman is the Industry Liaison Manager for Innospec Fuel Specialties, the world's largest dedicated fuel treatment company. He was employed by BP for 30 years before joining Innospec in 2011. His posts at BP included Research Chemist, Refinery Operations Supervisor, Sr. Product Quality Advisor, and Deputy Environmental Leader for the Gulf Oil Spill. He is an expert in fuel filtration, cleanliness and contamination issues, and in resolving fuel related field problems. He has investigated and reported on major fuel contamination problems affecting the petroleum industry. He is an active member of ASTM, SAE, IASH and other industry organizations. Over the last several years he has published and presented papers related to fuel quality issues at numerous industry events. He is active in the API-CDFA group investigating ULSD Corrosion and is a member of the CRC Fuel Cleanliness and Diesel Injector Deposit groups. He holds a BS in Chemistry from Rowan University.

Aaron Clare, Missouri DNR

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Aaron Clare has been an Environmental Specialist with the Missouri Department of Natural Resources since September 2008. He is a Remediation Project Manager in the Tanks Section, overseeing petroleum tank cleanup projects. Prior to working for the Department, he was a Landscaping Foreman and licensed Arborist in Lincoln, NE. He received his Bachelors of Science degree in Horticulture Science from the University of Nebraska-Lincoln in May 2007.

Dan Crawford

Dan Crawford has more than 28 years of experience in managing environmental programs and projects at major multinational companies engaged in consulting, chemicals, oil and gas, and the defense industry. He has served as a Petroleum Storage Tank chairman and board member with the Arkansas Department of Environmental Quality from 2006 to 2012. He has also served on numerous other trade group committees. He holds a Bachelor of Science degree in Geology and a Bachelor of Arts in Spanish from the Ohio State University; a Master of Science degree in Physical Science - Geology from the University of Houston - Clear Lake; and an MBA from the University of Phoenix. He is a registered Professional Geologist in several states.

George Devaull, Shell Oil

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

Victoria DiBacco, Environmental Compliance Services, Inc

Victoria DiBacco is a Compliance Analyst with the Eclipse Fuel System Management Division of ECS. She has been with the firm since August 2010 and has been an instrumental part of the Eclipse team for the past year and half. She manages all permitting activities for underground storage tanks for a petroleum client that is currently operating 950 sites in 11 states. In this capacity, she secures permits from local towns, fire departments, state fire marshals and regulatory agencies. She has been a key player in the implementation and management of Eclipse's online training programs, including Class A, B and C UST Operator Training. She also conducts regulatory research related to state-specific UST requirements such as corrosion protection, inspections, notifications, and tank construction details. Furthermore, her marketing and outreach efforts include the management of Eclipse's website and social media channels.

Matthew Dingens, Carus Corporation

Matthew Dingens has over 20 years of experience in the environmental remediation field. His field experience is extensive, with expertise in all phases of in situ chemical oxidation and bioremediation for site remediation. His experience in both the private and public arena sectors of remediation augments the Carus Remediation Technologies team and enables Carus to better serve and understand the unique client needs and requirements prevalent in today's remediation market. Carus supplies technical support, laboratory analysis, and equipment that are critical to the safe and successful application of permanganate and other remediation products for in situ and ex situ remediation projects. He is a frequent speaker at environmental conferences and technology presentations in North America and Europe and Asia.

Chris Doll, South Carolina DHEC

Chris Doll is a Program Manager for the SCDHEC Underground Storage Tank Management Division. He manages the Assessment Section and is responsible for oversight of investigations at 1,029 LUST sites across the State of South Carolina. He was responsible for drafting procurement procedures and bidding documents for competitive bidding of pay for performance LUST assessments and cleanups. More recently, he has completed drafting and implementation of South Carolina's Quality Assurance Program Plan for LUST investigations and cleanups. He has been with SCDHEC since February 1988 and has been a practicing professional geologist for 27 years.

Stephen Dyment, U.S. EPA OSRTI

Stephen Dyment 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 (http://www.brownfieldstsc.org/ request_support.cfm) and teaches classes on sampling design, x-ray fluorescence, Triad and other technical subjects (see http://www.trainx. org/). He holds a B.S. in Environmental Science/ Toxicology from the University of Massachusetts at Amherst.

Ray Faliskie, U.S. EPA Region 8

Ray Faliskie is an Environmental Scientist with EPA's Underground Storage Tank (UST) Program in Region 8. He has over 23 years of experience conducting site assessment and remedial activities at petroleum releases of which the past 8 have been with the EPA UST Program. He holds a Master's degree in Geology from Sul Ross State University, Alpine, Texas and a Bachelor's degree in Geology from Northern Arizona University,

Flagstaff, Arizona

Ron Falta, Clemson University

Ron Falta is a Professor of Geology and Environmental Engineering at Clemson University. He received his B.S. and M.S. degrees in Civil Engineering from Auburn University, and his PhD degree in Mineral Engineering from the University of California, Berkeley in 1990. He teaches and performs research in the area of contaminant transport and remediation, focusing on problems involving LNAPLs and DNAPLs. He was an author of the DOE T2VOC computer model for simulating thermal remediation of sites contaminated with NAPLs, and he has worked extensively with the leaded gasoline additives EDB and 1,2-DCA. He is also a developer of the EPA REMChlor and REMFuel models for simulating groundwater source and plume remediation for sites contaminated with chlorinated solvents and hydrocarbon fuels.

Allison Forrest, Connecticut DEEP

Allison Forrest has been an Environmental Analyst with the Connecticut Department of Energy and Environmental Protection's (DEEP) Leaking Underground Storage Tank (LUST) Coordination Program since 2008. Her responsibilities include maintaining the DEEP's Public Record LUST Database and evaluating the performance of LUST assessments and cleanups. She received a Bachelor's degree in Geology and Geological Oceanography from the University of Rhode Island in Kingston, RI and a Master's degree in Oceanography from the URI Graduate School of Oceanography in Narragansett, RI.

William Foskett, U.S. EPA OUST

Bill Foskett joined OUST when the program was first organized in the mid-1980s. In the beginning he focused on software development and led a state/EPA workgroup on cleanup fraud and crime. He next began and led OUST's Pay-for-Performance cleanup initiative. Since 2004 he has focused on state fund soundness oversight. He led the state/EPA workgroup that produced the first fund soundness data tools and managed their use. He also led development of OUST's recently released fund soundness oversight guidance to EPA regional offices. Currently he is leading development of a new toolkit for reporting and analyzing state fund soundness data. He lives in Washington, DC and works in OUST's Crystal City offices.

Valerie Garrett, Missouri DNR

Valerie Garrett is an environmental specialist with the Missouri Department of Natural Resources' Tanks Section and has been with the Department since 1984. Her primary duties are to oversee and direct the cleanups at some of the state's more complex petroleum storage tank release sites. She also provides technical support to the section regarding the Department's risk-based corrective action protocol for petroleum storage tanks and trains staff in the application of these procedures. She received a bachelor's degree in Wildlife Management from the University of Missouri in 1978.

Alex Geller, Vermont Agency of Natural Resources

Alex Geller works for the Vermont Agency of Natural Resources, Sites Management Section. Responsibilities include managing the investigation and remediation of hazardous waste sites, in addition to the maintenance and continued development of several databases. The organization is currently transitioning from MS Access to MS SQL/asp.NET.

John Giese, Virginia DEQ

John Giese serves as the Petroleum Program Remediation Manager for the VADEQ. Prior to joining the VADEQ in 1997, he worked as an environmental consultant in the petroleum storage tank industry. Since joining the VADEQ, he has been involved in the alternate water supply program; he started with the VADEQ as the Carbon Filtration Unit program manager. He went on to manage the State Lead and Major Alternate Water Supply programs, and was then promoted to management of the Remediation Program. He has been involved with hundreds of petroleumimpacted water supplies, filtration of those supplies, and pursuit of alternate sources of water for those impacted sites. He received a Bachelor of Science degree in Civil Engineering from Virginia Tech in 1988.

Emily Gloeckler, Travel Centers of America and Petro Stopping Center

Emily Gloeckler is the manager of the environmental department for TA Operating, LLC (TA) which operates 200 truck stops/travel centers throughout the United States and Canada. She has been responsible for environmental compliance for TA since 1997. Prior to that, she was an environmental consultant in Ohio, New York and Florida. From 1988 – 1989 she was a regulator for the State of North Carolina and was involved in the implementation of the 1988 Federal UST regulations. She has a Bachelor of Science in Geology from the University of Akron and a Master of Science in Geology from the University of North Carolina.

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 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 (ASTM, NACE, Clean Diesel Fuel Alliance, NFPA & UL). She has a BSME from Illinois Institute of Technology in Chicago, IL.

Anne Marie Gregg, Battelle

Anne Marie Gregg is a Research Scientist in the Environmental Solutions product line of Battelle and holds an M.S. in Environmental Health Science from The Ohio State University. She has ten years' experience in environmental research including environmental monitoring technology evaluations, development of analytical methods for trace analysis of environmental contaminants, and management of independent external peer reviews for ecosystem restoration projects of the U.S. Army Corps of Engineers. Currently, she is investigating compatibility issues in ultra-low sulfur diesel storing and dispensing systems, as well as evaluating automatic tank gauging systems water detection technologies when used in ethanol blended fuel service.

Jeanene Hanley, Arizona DOA

Jeanene Hanley currently assists State agencies with investigation and remediation of regulated and non-regulated substances, as well as the evaluation and protection of worker health in the work environment. She previously served the Arizona Department of Environmental Quality for 13 years as environmental chemist and human health risk assessor subsequent to working on landfills, LUSTs, and Superfund sites in private consulting. She conducted toxicological research before, during, and after earning her Master of Science in Biochemistry and Molecular Biology, and her Master of Environmental Science degrees.

Kenny Hemmen, Geotechnology, Inc.

Kenny J. Hemmen, RG, CGWP is a Senior Project Manager at Geotechnology, Inc., a Midwest consulting firm with offices in St. Louis, Kansas City, and Memphis. He is a registered geologist in Missouri and Illinois with B.S. and M.S. degrees in geology. He has more than 21 years of experience working on diverse environmental sites that include USTs, Superfund, solid waste, hazardous waste and mining. His focus is providing technically sound, cost effective solutions to clients.

Kevin Henderson, Kevin Henderson Consulting, LLC

Kevin Henderson is the president of Kevin Henderson Consulting, LLC 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 various venues and is an instructor for several organizations, including the Steel Tank Institute. He has given numerous presentations and published several papers on various UST issues during his career. He is a member of several Underwriters Laboratories standards technical panels and the PEI committee that is currently developing RP1200 "Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities".

Joel Hershey, Environmental Compliance Services, Inc

Joel Hershey is the Director of ECS' Eclipse Fuel System Management Division. He has worked exclusively in the field of petroleum liquid storage systems since 1989. His experience includes 20 years with several national providers of fuel systems services. His expertise includes compliance testing, diagnostics, petroleum construction, maintenance, and upgrades for both underground and aboveground storage tank systems. During his career, he has held various positions including Senior Petroleum Specialist, Operations Manager, and four years as Senior Vice President for Tanknology, a \$65 million UST compliance services provider. There he managed and executed upgrades for more than 6,800 facilities to meet the 1998 federal UST systems upgrades. These activities included replacement of complete UST infrastructure to include tanks, piping, dispensing systems, card readers, automatic leak detection systems, Stage I and II vapor recovery systems, cathodic protection systems designs, and installation for both sacrificial and impressed current technology.

Geoff Hewitt, ION Science Americas

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Geoff Hewitt has spent his professional career in the analytical and environmental industry. Born in England, he studied Chemistry with an emphasis on Analytical Chemistry at the Royal College of Advanced Technology in Salford, England before undertaking post-graduate work in Analytical Chemistry at the University of Waterloo in Ontario, Canada. He joined a fledgling HNU Systems in the mid 70's. HNU was the leading company in the PID market for many years and he, as VP of Sales and Marketing, played a key role in its growth. After a stint as CEO of an emerging technology company in the environmental sensor arena, he returned to the PID marketplace in 2002 when he established ION Science (Americas) LLC for ION Science Ltd., a UK based manufacturer of gas detection instruments, including a range of PID units. Geoff can be contacted at geoff.hewitt@ionscienceamericas.com or by phone at 1-877-864-7710.

Brad Hoffman, Tanknology

Brad Hoffman has over 20 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 develops testing equipment, test protocols, safety standards, and quality systems for Tanknology, Inc. He is active in PEI and API committees and holds a Class A Engineering License in CA and several state contractor licenses. He is a former field engineer and program manager for ExxonMobil.

Zach Hope, Colorado OPS

Zach Hope has been an Environmental Protection Specialist with the Colorado Division of Oil and Public Safety since 2008. His work primarily involves providing regulatory guidance and technical oversight for petroleum UST and AST remediation sites throughout the state. Additional responsibilities include assisting in the development of OPS's Green and Sustainable Remediation program, representing the Remediation Section during monthly fund eligibility hearings, and designing queries of OPS's database to assist in policymaking. Prior to joining OPS, he spent several years in environmental consulting, primarily conducting environmental site assessments. He received a bachelor's degree in environmental engineering from the Colorado School of Mines, and is a licensed Professional Engineer in the State of Colorado.

Carolyn Hoskinson, U.S. EPA OUST

Carolyn Hoskinson has served as Director of EPA's Office of Underground Storage Tanks (OUST), since February 2009. Prior to that she served as the Deputy Office Director, beginning in August 2006. She started her career at EPA in 1991, in the hazardous waste program, focusing on adding flexibility to the hazardous waste cleanup requirements and regulations. She subsequently served in the office of the Assistant Administrator for the Office of Solid Waste and Emergency Response, where she was responsible for issues ranging from waste management and cleanup, Superfund and Brownfields, to counter terrorism and emergency response. While in college, she worked as an intern at EPA to develop indicators for measuring environmental results and tracking environmental progress. She has a Bachelor of Arts Degree in Communications, Law, Economics and Government from The American University in Washington, DC.

Chadwick Howell, St. Louis Development Corporation

Serving as Engineer Project Manager for the St. Louis Development Corporation's Major

Projects Division since 2005, Chadwick Howell manages environmental assessment, cleanup and demolition contracting, grant writing and management, and maintains relationships with the regulatory and engineering communities as they relate to the city's major redevelopment projects, including the St. Louis Brownfields Program. SLDC is the economic development arm of the city of St. Louis, and the Brownfields Program is currently addressing more than 100 sites with funds leveraged from seven EPA assessment, cleanup and revolving loan fund grants, as well as a host of other funding sources. He previously served for nine years as Development Manager for the City of Kalamazoo, Michigan. Previously employed as a professional environmental consultant, he has personally conducted hundreds of Phase I and II Environmental Site Assessments, underground storage tank removals and cleanups and is knowledgeable in matters of risk based corrective action, as well as foundation engineering and construction materials quality control. He holds certifications as a Certified Hazardous Materials Manager (CHMM) and a Registered Environmental Property Assessor (REPA), as well as a Bachelor of Science, Magna Cum Laude in Environmental Studies from Western Michigan University.

Ken Jewell, U.S. EPA ORD

Ken Jewell is an Environmental Scientist with the U.S. EPA's Ground Water and Ecosystem Restoration Division in Ada, Oklahoma. He has worked for the EPA since 1999, primarily on field projects in the areas of monitored natural attenuation, permeable reactive barriers, and stream restoration. His interests lie in the development of prototype sampling and monitoring products and the techniques necessary for practical application. He is presently conducting research on the presence and effect of methane in gasoline tank pits produced from anaerobic biodegredation 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.

William Jones, Warren Rogers Associates, Inc. Bill Jones is Executive Vice-President of Warren Rogers Associates, Inc. (WRA), located in Middletown, Rhode Island. WRA specializes in statistical analysis and fuel management issues. The firm has developed a Continuous In-Tank Leak Detection System ("CITLDS") which provides Continual Reconciliation for Storage Tank Systems. Because WRA's Continual Reconciliation Method is certified for complex, active tank systems with over 2.7 million gallons in monthly sales, the company has acquired extensive experience over the past ten years in monitoring high-throughput facilities. He is a graduate of the US Naval Academy and has been with WRA for 25 years. He has broad experience in developing tank management

programs and has overseen development efforts at WRA which have resulted in numerous US, Canadian, and EC patents.

Mark Jordan, Wallis Companies

Mark Jordan is Vice President of Facilities for Wallis Companies responsible for overseeing all of the Company's Real Estate, Construction, Environmental Compliance and Maintenance for its operations in East Central Missouri and Southern Illinois. He serves as Vice Chair of the Advisory Board for Missouri's Petroleum Storage Tank Insurance Fund and has served on numerous stakeholder work groups for Missouri's Department of Natural Resources related Haz Waste, Tanks and Air programs. He earned his Bachelor's degree in Geology at SUNY Stony Brook, Stony Brook, NY and aspires to complete an MS in Project Management.

Mike Kass, Oak Ridge National Laboratory

Mike Kass is a senior development engineer in the Fuels and Engines Group of the Oak Ridge National Laboratory. He has worked at ORNL for 22 years, and is an adjunct professor in the Biosystems Science and Soil Science Department at the University of Tennessee. For the last 12 years, has been performing research in engines, fuels, and emissions technologies. His current responsibilities include biofuels and materials compatibility assessments and materials-related research to improve engine efficiency.

Stephen Kent, Kentucky DEP

Stephen Kent has been the Compliance Section Supervisor for the Kentucky Underground Storage Tank Branch for 11 years and with the tanks program since 1994. His section provides technical support to 10 regional offices across the Commonwealth and proactively conducts compliance outreach and assistance to tank owners and operators. He is a 1988 graduate of Kentucky State University and a member of Underwriters Laboratories standard technical panel for UL 971.

Edward Kubinsky Jr., Crompco, LLC

Edward Kubinsky is the Special Projects Manager for Crompco, LLC. His responsibilities include the following: Regulatory compliance adviser for Crompco's employees and customers including technical support. Responsible for all training, education, licensing and certification for over 130 individuals. Oversees Crompco's Health & Safety program as well as the director for the DOT regulatory program. Develops and maintains a working relationship with all state and federal regulatory agencies including UST, Air Quality and Weights & Measures Departments. Develops and maintains a working relationship with customers and provides support. Attends and participates in regulatory meetings and industry work groups. Currently is the chair of PEI's RP1200 committee.

Jeffrey Kuhn, Montana DEQ

Jeffrey A. Kuhn is a hydrogeologist with the

Montana Department of Environmental Quality where he manages the Leaking Underground Storage Tanks (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 and chairs ASTSWMO's LUST Task Force. He has participated as a team member of the Interstate Technical Regulatory Council (ITRC) LNAPL Team and assisted USEPA 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 Bachelor of Science degree in Geology from Juniata College, Pennsylvania, and a Master of Science degree in Geology from the University of Montana.

Poonam Kulkarni, GSI Environmental, Inc.

Poonam Kulkarni is an Environmental Engineer with GSI Environmental Inc., in Houston, Texas. She received a B.S. in Chemical Engineering from the University of Texas at Austin, and an M.C.E.E. in Environmental Engineering from Rice University. She has worked on several research projects involving large-scale data compilation in order to analyze the attenuation of contaminants and the effects of remediation, along with assessing the role of matrix diffusion at contaminated sites. She also has experience in litigation support, as well as field demonstration projects funded by the Department of Defense.

Matthew Lahvis, Shell

Matthew Lahvis began his career at the New Jersey District of the U.S. Geological Survey in 1989 where his research focused on quantifying the fate and transport of petroleum compounds in the unsaturated zone. He also served as an adjunct professor in the Civil Engineering Department at Drexel University from 1995-1999. In 2000, he joined Shell Projects and Technology where he manages the Soil and Groundwater R&D Program and serves as a business focal point on vapor intrusion issues. He has published extensively on vapor transport in the unsaturated zone and has served as an Associate Editor for the Ground Water Monitoring and Remediation Journal since 2005.

Ray Leather, Cumberland Gulf Group of Companies

Ray Leather is responsible for environmental compliance, including emergency response, site assessment and remediation, for approximately 1,000 retail gasoline dispensing facilities and twelve light product distribution terminals. He has worked in the petroleum engineering, distribution, assessment, remediation, and compliance field since 1974 and has served as a member of API and state regulatory committees. He is currently Chair of the Board of Directors of the Independent Oil Marketers of New England and member of the Superfund Advisory Committee for the MA Department of Environmental Protection. He has a B.S. in Civil Engineering from Merrimack College; a M.S. in Energy Management & Power from the University of PA, where he was a National Science Foundation Fellow; and a M.B.A. from the University of Houston. He is a Registered Petroleum Operations Engineer, a Registered Professional Engineer, a Licensed Site Professional in the Commonwealth of Massachusetts, and a Registered Environmental Assessor I in California.

Virginia LeClere, Prairie Band Potawatomi Nation

Virginia LeClere is the Environmental Manager for the Prairie Band Potawatomi Nation in Kansas. She has served the Tribe's Division of Planning and Environmental Protection in several capacities over the past 12 years. Prior to her management role, she worked in the areas of environmental education/outreach, land use inventory, solid waste, and air quality. She holds a Bachelor of Science degree in Management and Leadership from Friends University, and a Master of Science Degree in Management from Baker University. She is a delegate to the Region 7 Tribal Operations Committee and to the Tribal Waste and Response Assistance Program - National Tribal Steering Committee.

Kevin Lienau, Groundwater and Environmental Services, Inc.

Kevin Michael Lienau, P.E. is the Regional Engineering Manager for GES in the Mid-Continent region. He has over 20 years of industry experience. As Regional Engineering Manager, he is responsible for the oversight of engineering activities within 5 GES offices. His involvement includes senior-level involvement in design, installation, and operation of aggressive remediation system, and direction of construction and maintenance projects. As an adjunct member of GES' Max-ox® Group, he provides senior technical support and management on chemical oxidation and chemical reduction projects. He also serves as the Program Manager for GES projects that involve landfill leachate and landfill gas services. He earned a BS in chemical engineering and a BS in material science and engineering from the University of Minnesota – Twin Cities. He is a registered professional engineer in 13 States.

Michael Lubrecht, Directed Technologies Drilling, Inc.

Mike Lubrecht is the Senior Geologist at Directed Technologies Drilling, Inc. (DTD), a directional drilling company that specializes in constructing environmental remediation wells. One of the company founders in 1995, he has been an environmental and engineering geologist with consultants and state agencies for 25 years. He has assisted in the development of many of the specialized techniques and tools used in environmental directional drilling, and is a codeveloper of several patented technologies in the industry. He has authored several technical articles on the technology, and is currently involved in research and development, marketing and intellectual property for DTD.

Michael Maddigan, Pennsylvania DEP

Mike Maddigan is an environmental chemist with Pennsylvania Department of Environmental Protection's (PADEP) Land Recycling Program in Harrisburg, PA and has been with the department since 2008. He provides technical support for the administration of the Land Recycling Program (PA's voluntary cleanup program) and performs human health and ecological risk assessment reviews in support of remediation projects throughout Pennsylvania. Before joining PADEP, he served as an environmental scientist for 11 years with Gannett Fleming, Inc. He joined the ITRC Biofuels team in early 2009. He earned a bachelor's degree in environmental resource management in 1993 and a master's degree in environmental pollution control in 1998, both from Penn State University.

Thomas McHugh, GSI Environmental, Inc.

Thomas McHugh, Ph.D., is a Vice President with GSI Environmental Inc., in Houston, Texas. He has over 20 years of experience in the environmental industry with academic research and private consulting organizations. He received a B.A. in Biochemistry and Environmental Science from Rice University (1990), an M.S. in Environmental Engineering from Stanford University (1993), and a Ph.D. in Toxicology from the University of Washington (1997). He has worked on a number of projects related to vapor intrusion including field investigations and model development. He is the principal investigator (PI) for three vapor intrusion research projects funded by the Department of Defense. He is the lead author on several peerreviewed journal articles and other documents on vapor intrusion. He has developed training classes on a number of topics including vapor intrusion.

Steven McNeely, U.S. EPA OSWER OUST

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Steven McNeely is an EPS with 25+ years of experience in OUST. He has a Bachelor's of Science in Environmental Management from Howard University. During his OUST tenure he's served as a member of OUST's Corrective Action Technologies Team (CATT), fostering 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 risk-based corrective action (RBCA) training cooperative agreement with the American Society for Testing and Materials (ASTM) and managed the (Partnership In RBCA Implementation - PIRI). He currently serves as the Petroleum Brownfields Revitalization Team Leader working with various public and private parties to enhance the assessment, cleanup and revitalization of petroleum brownfields.

Paul Miller, U.S. EPA OUST

Paul Miller is an Environmental Engineer in EPA's Office of Underground Storage Tanks. His responsibilities are associated with preventing leaks from UST systems and include: participating on various standard-making groups; developing prevention outreach tools; developing UST rules, interpretations and guidance; and implementing the secondary containment and public record requirements of Energy Policy Act of 2005. He has worked in the Office of Underground Storage Tanks since 1994.

Marcel Moreau, Marcel Moreau Associates

For the past 29 years, Marcel Moreau has been studying, writing about, and teaching about underground petroleum storage systems. He began his work with petroleum storage systems as a regulator with the state of Maine in 1983, moved to the private sector to work with an environmental engineering firm in 1987, and founded his own training and consulting business in 1991. He has conducted training classes in over 40 states, worked with the Petroleum Equipment Institute in producing and revising numerous industry recommended practices, and has been a contributor to LUSTLine since its inception.

Mike Morgan, Practical American Safety Solutions

Mike Morgan is national sales director for Practical American Safety Solutions, (PASS), a provider of software-based training solutions for multiple markets and industries. PASS offers 24-hour access to UST Operator Training courses approved in multiple states. He has authored curricula for 25 states, serves as an instructor, works with regulatory agencies, and obtains state regulatory approvals. Prior to this position, he worked in economic development, real estate, education, trade associations, after starting his career working for an oil distributor and truck stop while in high school.

Peter Morris, ION Science, Ltd.

Peter Morris is the business development manager at Ion Science Ltd. and has 10 years of experience studying environmental systems and developing innovative technologies to overcome the associated monitoring challenges. Recently he coordinated the Improved Ground-Gas Risk Prediction by In-Borehole Gas Monitoring (IRP-IGM) project, in which novel in-situ technology was developed to continuously monitor soil gas and novel risk assessment tools from other disciplines were adopted. He received his PhD in environmental chemistry from the University of Manchester.

Marshall Mott-Smith, Mott-Smith Consulting Group, LLC

Marshall Mott-Smith has worked with storage tanks since 1983, and was the Florida DEP Storage Tank Regulation Section Administrator from 1986-2008. He was instrumental in developing Florida's program for secondary containment, bringing flexpipe 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. He is the Vice President for The National Institute for Storage Tank Management (NISTM), and is on the UL 971 committee and API's Leak Autopsy Committee. He is the President of The Mott-Smith Consulting Group, LLC, which provides services for storage tank system management, and the Chief Operating Officer for AET Compliance, a company that performs monthly visual inspections at convenience stores.

Denice Nelson, ARCADIS-US, Inc.

Dr. Denice Nelson is a Principal Remediation Engineer with ARCADIS-US, and is located in the Minneapolis, Minnesota office. Since 2000 she has focused on the application and optimization of injection-based bioremediation technologies including enhanced reductive dechlorination, anaerobic biological oxidation of petroleum hydrocarbons, metals precipitation, and explosives remediation. She currently leads the In Situ Remediation group within ARCADIS-US, providing technical assistance, strategy development, and engineering oversight on several contaminated sites undergoing remediation. She has been an active member of the ITRC Biofuels team since 2010. She earned a bachelor's degree in Civil Engineering, and Masters and doctoral degrees in Environmental Engineering from the University of Minnesota. Her PhD research focused on guantifying the effect of ethanol-based fuel input on the indigenous microbial communities in groundwater.

Mary Ann Parcher, Groundwater & Environmental Services, Inc.

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

Cindy Paul, U.S. EPA ORD

Cynthia J. Paul is an Environmental Scientist in the US EPA Office of Research and Development, National Risk Management Laboratory, Ground Water and Ecosystem Restoration Division (GWERD), in Ada, OK. She has a M.S. degree in Environmental Science from the University of Oklahoma in Norman, OK and a B.S. degree in Biology from East Central University, Ada, OK. Her recent research focus has been evaluating field sampling techniques at UST sites for vapor intrusion assessment. She has also been involved in permeable reactive barriers for in situ contaminant remediation and field research which led to the development of low-flow sampling methodology for ground water.

Janice Pearson, U.S. EPA Region 8

Janice Pearson is the team leader for the Underground Storage Tank Program for the United States Environmental Protection Agency in Region 8, Denver, Colorado. She has been the team leader for over 8 years. She has over 20 years of experience at EPA in corrective action at Leaking Underground Storage Tank Sites, RCRA Corrective Action Sites and Superfund Sites. She has 9 years of UST compliance and LUST remediation experience, 11 years in RCRA hazardous waste compliance and remediation and 2 years as a Superfund Remedial Program Manager.

Elizabeth Pendergrass, Tennessee COT

Beth Pendergrass has been with the Tennessee Comptroller of the Treasury, Division of State Audit since 1985. She is a graduate of the University of North Carolina at Asheville, where she majored in history, classics, and political science. She received her master of public administration degree from the University of Tennessee. She is a Certified Information Systems Auditor, a Certified Fraud Examiner, and a Certified Government Financial Manager. She is currently an audit manager in the Information Systems Group, where she focuses on computer assisted audit techniques, and data retrieval and analysis. She is a member of the local chapters of the Association of Government Accountants, the Information Systems Audit and Control Association, and the Association of Certified Fraud Examiners.

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 just established 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.

Michael Phelps, North Carolina DENR

Michael Phelps is a supervisor in the UST inspection program in the Permits and Inspection Branch of North Carolina's Department of Environment and Natural Resources (DENR). He has been with UST Section of DENR since July 2000 where he worked in the corrective action branch for a few years prior to taking his current position within the inspection program. He has a BS in Mechanical Engineering from NC State University and a MS in Mechanical Engineering from the University of Florida.

C.J. Plassmeyer, Missouri DNR

Chris Plassmeyer has a B.S. in Agriculture with an emphasis in Natural Resource Management from Lincoln University of Missouri and a M.S. in Forestry from the University of Missouri-Columbia. Since 2009 he has worked for the Missouri Department of Natural Resources as an Environmental Specialist in the Tank Compliance and Enforcement Unit. In this position he reviews compliance inspection correspondence, travels throughout the state conducting UST inspections, and provides technical assistance to UST owners and operators, contractors, and the public.

Steve Pollock, Virginia DEQ

Steve Pollock is a senior compliance inspector with Virginia DEQ's Petroleum Program. He has been an inspector with the agency since 1998. He received a Bachelor's of Science degree from Virginia Tech in Biology with a minor in Chemistry.

Ron Poltak, New England Interstate Water Pollution Control Commission

Ron Poltak has served as NEIWPCC's executive director since 1983. Under his leadership, NEIWPCC has dramatically increased its activities related to water quality, wastewater treatment, water resource protection, outreach, and training. He represents the Commission before Congress, state administrations, federal and state agencies, as well as related national organizations. He is responsible for the day-to-day management of NEIWPCC, with emphasis on the direction of programs and priorities. Before joining NEIWPCC, he served as director of New Hampshire's division of parks and recreation. He also spent 15 years in New Hampshire's governor's office, serving for five years as director of the office of comprehensive planning. In total, he has spent more than 30 years in environmental policy development and implementation, and his achievements continue to earn recognition. In January 2012, he received

the New England Water Environment Association's Founders Award, which is given in recognition of long-term contributions to NEWEA, dedicated service to the water pollution control industry, and notable achievements in the environmental field. In 2009, he received the National Association of Clean Water Agencies' Public Service Award, which recognizes officials who have displayed particular and continuing awareness of the challenges facing the clean water community. And in 2006, EPA presented him with a Lifetime Achievement Merit Award, an honor given to those who have shown true ingenuity and commitment in their efforts to preserve the region's environment.

Jessica Price, South Carolina DHEC

Jessica Price graduated from the University of South Carolina with a B.S. in Biological Sciences and a minor in Chemistry in 2002. Her major function for the last 3+ years has been implementing the Operator Training requirement in South Carolina. She has been with the South Carolina Department of Health and Environmental Control since March 2007.

Michelle Pruett, Tennessee DEC

Michelle Pruett has worked for the Tennessee Division of Underground Storage Tanks since 2000. She started out as a compliance inspector and later moved to the enforcement and compliance section. Currently she is the GIS and special projector coordinator and the Operator Training Manager.

Wayne Pudney, Arizona DEQ

Wayne Pudney is an Arizona registered geologist who works for the Arizona Department of Environmental Quality (ADEQ). He serves as a senior staff member developing program guidance and procedures for the LUST corrective action section at ADEQ. He focuses on providing technical and regulatory guidance to stakeholders and oversight of case managers in their decision making process. He has a M.S. degree in Geology and 20 years of experience working on LUST and Superfund sites.

Steve Purpora, Purpora Engineering, Inc.

Steve Purpora began testing Tanks, Lines and Leak Detectors in 1972 with Protanic, Inc. He began training for Purpora Engineering with William Purpora in 1978 teaching Technicians, Engineers and Fire Marshall's the principles of the operation and testing of UST systems throughout the United States. Purpora Engineering continues to train and certify people around the world as well as manufacturing UST testing equipment. Recently Purpora Engineering became the US representative for Condia's FuelStat kits, a rapid test method for identifying microbial growth in fuel. Today he is the President of Protanic, Inc. and Purpora Engineering, Inc.

Christopher Ralston, Maryland DE

Christopher Ralston is the Administrator of the Maryland Department of the Environment's Oil Control Program. He has been with MDE since April 2009 and previously served as the Chief of the OCP Remediation Division. Prior to working for Maryland, he was an environmental consultant for 10 years specializing on petroleum remediation projects. In his current capacity, he is responsible for directing and coordinating the Department's oil pollution and tank management activities and management of a staff of 46 people within three divisions: Permits and Support, Compliance, and Remediation. He has a BS in Environmental Science from the University of Delaware and a Masters of Environmental Engineering from Johns Hopkins.

Alan Reinkemeyer, Missouri DNR

Alan Reinkemeyer has been with the Missouri Department of Natural Resources since 1988. He began his career with the Soil and Water Conservation Program where he has served as both a Leaking Underground Storage Tank (LUST) field investigator as well as a Unit Supervisor. He eventually became Section Chief of the department's Environmental Emergency Response Section and then became Director of the Environmental Services Program. In September 2011 he became the Acting Director of the Division of Environmental Quality. The Division encompasses five environmental media programs (Air Pollution, Water Protection (include drinking water), Hazardous Waste, Solid Waste and Land Reclamation), five regional offices (St Louis, Kansas City, Macon, Springfield, and Poplar Bluff) and the Environmental Services Program.

Bob Renkes, Petroleum Equipment Institute

Bob Renkes is executive vice president and general counsel of the Petroleum Equipment Institute, Tulsa, Oklahoma. He is also a regular contributor to L.U.S.T.Line, writing the Field Notes section of the newsletter.

Roland Riegel, Underwriters Laboratories

Roland Riegel has been at UL for 25 years in three different engineering departments that provide overall safety assessments for certification of a broad range of products, and is currently UL's Principal Engineer for Flammable Liquid Containment Products. Key global responsibilities in this product group include: • UL Representation on various Standard & Code technical committees, such as NFPA 30, 30A, 31, ASTM F15.10, UL Standards Technical Panels, ULC Standards Development Panels, and special Industry Task Groups. • Assessment of new and unusual or complex technical products; preparation and upkeep of global data sheets and form reports; and engineering support and training. • Participation in UL policy development of coordinated requirements for material compatibility with fuels. • Technical oversight of UL certifications and consistency.

Dania Rodriguez, ASTSWMO

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

Chris Runnels, Mansfield Oil Company

Chris Runnels is Environmental Manager for Mansfield Oil Company, located in Gainesville, GA. He has worked at Mansfield Oil for 17 years and currently oversees all compliance issues, regulations and permitting due diligence for Mansfield Oil Company owned retail gas stations in the southeast. He also assists Mansfield Oil retail, government and commercial customers in all 50 states and Canada on compliance issues including NOV resolution and emergency spill response. He earned his Bachelor's degree in Management and Economics at North Georgia College and State University.

Chris Ruybal, U.S. EPA NRMRL

Christopher Ruybal is a Ph.D. student at the Colorado School of Mines and a Student Services Contractor with the US EPA Office of Research and Development, National Risk Management Laboratory, Ground Water and Ecosystem Restoration Division (GWERD), in Ada, OK. His research is focused on subsurface gas flow and vapor transport.

Rick Saathoff, Utah DEQ

Rick Saathoff has worked for the State of Utah DEQ in the Underground Storage Tank branch for the past 15 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 Bachelor of Science degree in Biology, and a Master of Science degree in Hazardous Waste Management.

Thomas Schruben, ACRM, LLC

Tom Schruben is an environmental risk management consultant and a Partner in American

Cost Recovery. He started his professional career as an environmental engineer in 1981. In 1986, he joined EPA OUST to help write the Federal UST regulations. While at EPA he assisted State regulatory programs and State Funds with release prevention and corrective action issues. He has helped develop many of the ASTM site assessment and remediation standards. He joined the insurance industry in 1992 and directed the environmental insurance division of United Capitol Insurance Company. In 2000 he became an independent environmental risk management consultant. He investigates UST product failures and provides consulting advice to tank owners and State Funds on recovering costs from insurers, manufacturers of defective products, and negligent providers of installation and release detection services.

Chuck Schwer, Vermont DEC

Chuck Schwer has worked with the Vermont Department of Environmental Conservation since 1986. He is currently the section chief of the state's contaminated property cleanup program. He also manages the state's petroleum cleanup fund. He is currently the chair of the ASTSWMO State Fund Task Force.

Prentis Searles, American Petroleum Institute

Prentis Searles is the Marketing Issues Manager at the American Petroleum Institute where he is responsible for issues associated with retail gasoline station policy, environmental, operational, surface transportation (rail and truck), and standards development issues. He began at API in 1994 on refinery and pipeline standards developing API's policy on international standards. More recently, he was responsible for the analysis of environmental and operational regulations and overseeing research that affects retail and wholesale finished product facilities. Prior to his work at API, he worked as an electrical and systems engineer for a Maryland-based defense contractor. He has a Masters of Engineering Management from George Washington University and a BS in Electrical Engineering Technology from Louisiana Tech University. He received the designation of Certified Association Executive in June 2006.

Kim Sellards, California SWRCB

Kim Sellards works at 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 Underground Storage Tank (UST) Enforcement Unit since August 2008. Under her leadership, the Units have reached settlements in cases against Shell/ Equilon, the City of Long Beach, E2C Remediation, Big Oil & Tire, Golden Gate Petroleum, Tesoro, Franzen Hill, and Techland Testing resulting in over \$14 million. Prior to working in enforcement, she was employed at the environmental consulting firm Dames & Moore, Inc., where she performed remediation at Superfund sites. She is a Registered 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 the University of Mississippi-Oxford.

Kris Shiffer, Pennsylvania DEP

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

John Skender, U.S. EPA NRMRL

John Skender is a Hydrologic Technician in GWERD's Technical and Administrative Support Staff Branch. He has a B.S. in Environmental Health Science from East Central University in Ada, Oklahoma. His research areas are permeable reactive barriers, and biofuels. He is currently conducting field and microcosm studies to determine the biological fate of MTBE and chlorinated solvents in contaminated aquifers. He is currently assisting in research on the role of reactive iron and sulfur minerals in degradation of halogenated hydrocarbons in plant mulch-based passive reactive barriers (biowalls) and in aquifer sediments. He is currently assisting in research on methane sampling at UST gas station spill sites. He provides support to GWERD's research programs through laboratory analysis and equipment maintenance. He also provides field support through monitoring well installation and soil, water, vapor sampling.

Tim Smith, U.S. EPA OUST

Tim Smith is a member of the Policy and Standards Division at U.S. EPA's Office of Underground Storage Tanks (OUST). He is OUST's point of contact on issues related to release detection, UST compliance inspector training, operator training, and inspections.

David Spidle, U.S.EPA ORD

David Spidle received a Bachelor of Science degree in Chemistry from West Georgia College. He has worked for the U.S. Environmental Protection Agency's Office of Research and Development for 14 years at the Ecosystems Research Division in Athens, GA. His work focuses on transport of fuel constituents in ground and surface waters.

Randy St. Germain, Dakota Technologies, Inc.

Randy W. St. Germain, President of Dakota Technologies, Inc., developed much of Dakota's underlying time-resolved laser-induced fluorescence (LIF) technology while pursuing a M.S. Analytical Chemistry degree 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 his conducting LIF research field trials in 1992 at Tinker AFB through subsequent commercialization of the ROST, UVOST, TarGOST and tomorrow's Dye-LIF system for chlorinated DNAPL, he has spent the last 20 years "chasing NAPL" with LIF.

Mathy Stanislaus, U.S. EPA OSWER

Mathy Stanislaus is the Assistant Administrator for the Office of Solid Waste and Emergency Response. He is responsible for EPA's programs on hazardous and solid waste management under the Resource Conservation and Recovery Act (RCRA), contaminated site cleanup under RCRA corrective action, Superfund and federal facilities cleanup and redevelopment, Brownfields, oil spill prevention and response, chemical accident prevention and preparedness, underground storage tanks, and emergency response. He is a chemical engineer and environmental lawyer with over 20 years of experience in the environmental field in the private and public sectors. He served as senior environmental counsel at a law firm, and director of environmental compliance for an environmental consulting firm. He started and operated a small business providing consulting services to local governments and local communities on cleanup and redevelopment projects. He has worked in the not-for-profit sector, co-founding and co-directing New Partners for Community Revitalization, a New York not-forprofit organization whose mission is to advance the renewal of New York's low and moderate income neighborhoods and communities of color through the redevelopment of Brownfields sites. He is also former counsel for EPA's Region 2 Office. He has also been an advisor to other federal government agencies, including Congress and the United Nations, on a variety of environmental issues. He received his law degree from Chicago Kent Law School and Chemical Engineering Degree from City College of New York.

Heather Stelter, Berkley Environmental

Heather Stelter is Assistant Vice President and Product Line Manager for Berkley Environmental's TankAdvantage Pollution Liability product. With 15 years of professional experience, she is responsible for management of the TankAdvantage product created to meet the financial responsibility needs of storage tank owners and operators. She and her staff analyze and underwrite all classes of environmental risk with the core exposures being tank risks. Prior to joining Berkley Environmental, she was Product Line Manager for another environmental tank pollution liability insurance carrier. She also previously worked as an Environmental Consultant, where she helped manage various Phase 1 and Leaking Underground Storage Tank (LUST) projects. She holds a Bachelor of Science with a specialization in Environmental Economics from Michigan State University.

Karen Stewart, Manatee County Government

Karen Stewart is the Economic Development Program Manager for Manatee County Government. Her main responsibility is to promote the business climate and serve in a leadership role to expedite economic development projects linking all county departments and the public. In addition, her focus includes implementation of the county's economic development incentive program to ensure retention, expansion, and attraction of new business to the community with a focus on creating jobs. She works in partnership with the Economic Development Council, is lead staff for the 14th Street Community Redevelopment Area and the South County Community Redevelopment Aare, and leads the Rapid Response Team for development projects throughout the county and in the Port Manatee Encouragement Zone. She has a Master's of Science in Leadership from Nova Southeastern University is a member of the International Economic Development Council, the Florida Redevelopment Association, and various local business groups.

Lee Taylor, Taylor Environmental Consulting

Lee C. Taylor is a registered Professional Engineer in Florida and owner of Taylor Environmental Consulting. He earned a B.S. degree in Environmental Engineering from the University of Florida in 1996 and has 17 years of experience in the environmental consulting field. His technical experience includes Phase I and II Environmental Site Assessments, comprehensive site characterizations, remedial action design and installation, treatment system operation and maintenance, in-situ chemical and biological treatment, and extensive natural attenuation evaluations. This work has been performed in a variety of depositional environments including sand, clay, sandy clay, clayey sand, silt, peat, limestone, and mixtures of all the above. Taylor Environmental Consulting is a small business specializing in cleaning up sites, resolving environmental issues, and minimizing or eliminating environmental risk.

Perry Theriot, Louisiana DEQ

Perry Theriot served for two years (1988-1990) 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 (DEQ) in 1994 and has served in numerous capacities including Attorney assigned to UST, Bankruptcy, Remediation, and Enforcement; as Attorney Supervisor of the Legal Enforcement Section; the Legal Permits Section; and, currently as Supervising Attorney over the Remediation and Regulation Development Section. He also currently serves as attorney for the Louisiana Motor Fuels Underground Storage Tank Trust Fund and as an attorney specializing in UST matters and litigation. 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 continues to serve as Region VI representative to the Tank Funds Task Force for the Association of State and Territorial Solid Waste Management Officials.

Ben Thomas, USTtraining.com

Ben Thomas is a former VT and AK UST regulator and has been training operators and inspectors nationwide since he started his own company in 2002. He helped pioneer online training for UST industry by helping create automated programs for the states of MT, ID and KY and launched the nation's first commercial online program for A, B and C operators.

Mark Toso, Minnesota PCA

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Mark Toso is a senior hydrogeologist at the Minnesota Pollution Control Agency in St. Paul, MN. Since 1992, his responsibilities in the MPCA's remediation division have included technical oversight of investigation and remediation at petroleum and chemical tank storage facilities, biofuel production facilities, RCRA and superfund sites, and pipeline releases. He also provides technical assistance for the emergency response program. Prior to joining MPCA, he spent 5 years as a geologist in the private sector. He has been a member of the ITRC Biofuels team since its inception. He earned a bachelor's of science degree in geology from the University of Wisconsin and has completed graduate level coursework at the University of Wisconsin. He is a registered a Professional Geologist in Minnesota and Wisconsin.

Michael Trombetta, Montana DEQ

Mike Trombetta is the chief of the Hazardous Waste Site Cleanup Bureau in Montana's Department of Environmental Quality. His bureau includes the State Superfund Program, Voluntary Cleanup and Redevelopment Act Program, Groundwater Cleanup Program, Site Response and Petroleum Brownfields Programs, as well as petroleum tank cleanup programs that include the LUST Trust and State Fund Cleanup Programs. He has a Bachelor's degree in Geology and Master's degrees in Earth Sciences and Strategic Studies. He has been regulating environmental cleanups at Montana's DEQ for 23 years.

Dr. David Tsao, BP

Dr. David Tsao is the Americas Technology Manager for the Remediation Engineering & Technology group in BP's Remediation Management function at their Naperville, IL office. Since 1997, he has led BP's evaluation of the potential environmental impacts of current and future biofuels and other fuel oxygenates. He is currently managing a team of professionals responsible for providing technical support to a broad range of contaminated sites around the globe and managing soil and groundwater remediation issues such as vapor intrusion, non-aqueous phase liquids, green remediation approaches, and sustainability. He has actively participated in and taught for a number of ITRC Teams including the Biofuels Team. He earned baccalaureate, Masters, and Doctorates degrees from Purdue University in chemical engineering.

Melissa Turchi, Utah DEQ

Melissa Turchi has worked as an Environmental Scientist with the Utah Department of Environmental Quality since November 2001. She is currently a project manager in the Leaking Underground Storage Tank Remedial Assistance Program, managing 39 LUST and AST sites throughout Utah. She has closed 90 sites. Before working for the UDEQ, she worked in the consulting industry for URS Corporation at Hill Air Force Base, Utah. Her responsibilities at HAFB included operation and maintenance of groundwater treatment systems and CERCLA cap systems, construction quality control, health and safety, and UST removal. In 1997, she earned her Bachelor of Science degree in Environmental Science from Drexel University in Philadelphia.

Omar Tyson, Connecticut DEEP

Omar Tyson is a Sanitary Engineer II, currently working with the State of Connecticut Department of Energy and Environmental Protection (DEEP);

within the Storage Tank Enforcement Unit (STEU). During the past 8 years with DEEP, he is responsible for the review, investigation and/or inspection of over 2,500 UST facilities. He holds a Bachelor's of Science Degree in Mechanical engineering from Tuskegee University in Tuskegee, AL. He has worked for over 15 years in Electrical/ systems, Manufacturing and Environmental engineering disciplines. He is a member of the ASTSWMO UST TF and is the recipient of the 2010 State of CT Commissioner's Award for his work as a member of the LEAN II team; tasked with evaluating and developing CTs new and improved UST inspection process. He was also selected by NEIWPCC to create and present a Poster board for the 2010 NTC in Boston, MA. He has conducted LEAN UST inspector training with NEIWPCC in Dallas, TX (2011 Compliance and Prevention workshop), Columbus, OH (Region 3/5 UST Inspector training session) and has participated in ASTSWMO's "peer-match" program by providing LEAN UST inspector training to the UST programs in RI and DC.

Chris Veit, Missouri DNR

Chris Veit is the Chief of the Missouri Department of Natural Resources, Hazardous Waste Programs, Tanks Section, Closure-Release & Investigation Unit. He has worked for the Department for 11 years. Starting out as a tank inspector and then moved on to RCRA Enforcement and has been Chief of the Closure Unit for over 4 years. Before that he worked 17 years as a boiler technician with the United States Navy and Lincoln University.

John Wade, Pinnacle Actuarial Resources, Inc.

John Wade is a Senior Consultant with Pinnacle Actuarial Resources (Indianapolis) with over thirty years of actuarial experience. He holds BS (1977) and MA (1979) degrees in actuarial science from Ball State University. He is an Associate of the Casualty Actuarial Society (2002) and serves on the CAS Committee on Professionalism Education and the American Academy of Actuaries' Emerging Issues Task Force (P&C). Engagements include supporting actuarial estimates of liability for state underground storage tank funds, including Kentucky, Ohio, South Carolina, and Tennessee; and supporting the reserve Opinion for two insurance companies specializing in offering Tanks coverage. Other engagements include reserve analyses, financial examination support, rate development, and filing reviews for insurance companies and regulators. He also provides funding studies for various public entities.

Alex Wardle, Virginia DEQ

March 2012 marks Alex Wardle's 25th year working on the geology and hydrogeology of petroleum investigations, landfills and the redevelopment



of contaminated land. The first 17 years were in consultancy in the UK, Europe, the Middle East and the US and the last 8 years have been in DEQ's petroleum program. He is a UK Chartered Geologist and a Virginia certified Professional Geologist. He has a BSc in Geology and an MSc in Soil Mechanics from Imperial College, London, UK.

Jim Weaver, U.S. EPA ORD

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

Amy Webster, Virginia DEQ

Amy Webster, a geologist senior, has worked in the Petroleum Tank-Remediation Program at VADEQ for the last 20 years. Her main areas of expertise are tank release case management for the Cities of Virginia Beach and Chesapeake, database management in CEDS, VADEQ's permit/ case tracking system, and electronic file document management in ECM, VADEQ's electronic file repository. Prior to this she worked as a petroleum remediation consultant and for the Florida Department of Environmental Protection. She has BS and MS degree in geology from Old Dominion University.

Mark Wickman, NOV

Mark Wickman is the Fuel Handling Market Manager for National Oilwell Varco-Fiber Glass Systems. He has been employed in the petroleum equipment industry for over 30 years. His jobs have included selling, exporting, installing and manufacturing products for fuel handling. He is currently employed by NOV and is involved with the merger of Ameron products with other NOV legacy lines.

Randall Willoughby, Missouri DNR

Randall Willoughby works for the Missouri Department of Natural Resources as a State On-Scene Coordinator for the Environmental Emergency Response Section. He earned his bachelor's degree in Biology and Environmental Studies from Drury University in 2005. He began his career with Missouri DNR in 2006 and works out of the Southwest Regional Office in Springfield. He is a Certified Hazardous Materials Manager and holds the President-Elect office for the Greater Ozarks Chapter of Certified Hazardous Materials Managers. He is trained and certified to the Hazardous Materials Specialist level. In May 2011, he was deployed to both the Southeast Missouri Flood and the Joplin EF5 tornado. He and several DNR staff were deployed for several months to assist the Cities impacted by disaster

and to aid in their recovery efforts. He and the staff from DNR were charged with investigating and responding to any potential hazardous materials released to the environment as a result of the floods and tornado, as well as ensuring that State and Federal environmental laws were being followed during the recovery process. He resides in Springfield Missouri with his wife and two children.

John Wilson, U.S. EPA ORD

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 PhD. in Microbiology from Cornell University. He has worked at the R.S. Kerr Environmental Research Center in Ada, Oklahoma since 1978. Currently, he conducts research on in-situ bioremediation of chlorinated solvents, and on natural attenuation of BTEX compounds, fuel additives, and chlorinated solvents. In addition to his research activities, he provides training and technical assistance to the EPA regions and to state agencies on natural attenuation of chlorinated solvents, fuel additives and BTEX compounds in ground water.

David Wilson, Utah DEQ

David Wilson has worked for the Utah Department of Environmental Quality for 17 years. He works in the UST compliance section and his main job function is compliance inspections of underground storage tank sites and subsequent compliance enforcement. He oversees the certification program for UST installers, removers and testers and provides internet and database support. He has a BS and MS in Geology from Brigham Young University.

Matt Young, Cumberland Farms Inc.

Matthew Young works as a Senior Project Manager in the Environmental Affairs Department of Cumberland Farms Inc./Gulf Oil LLP. He has completed a Bachelor of Science degree in Chemistry-Geology from Bridgewater State University and a Master of Science degree in Project Management with a specialization in Geographic Information Systems from Northeastern University.

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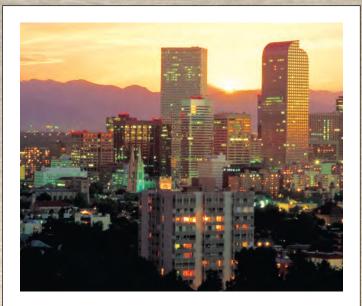
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