www.neiwpcc.org/tanksconference

# **NTC 2015**



# **NEIWPCC**

New England Interstate Water Pollution Control Commission

# **\$EPA**

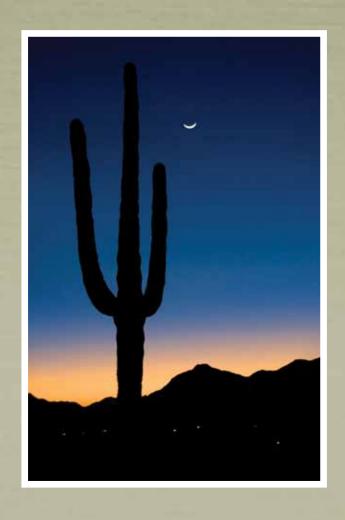
Office of Underground Storage Tanks, U.S. Environmental Protection Agency

# **ASTSWMO**

Association of State and Territorial Solid Waste Management Officials



Arizona Department of Environmental Quality



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# 25<sup>th</sup> National Tanks Conference and Expo Program Booklet, 2015

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

Photography courtesy Visit Phoenix



September 2015

Dear Colleague,

On behalf of the conference sponsors, it is our pleasure to welcome you to Phoenix for the 25<sup>th</sup> National Tanks Conference and Exposition. As we participate in the conference's multitude of learning and networking opportunities, we invite you to enjoy America's sunniest metropolis and take in all this wonderful city has to offer.

The 2015 agenda features sessions covering an exceptionally wide range of topics, including alternative fuels, remediation technologies, and vital financial issues. With so many outstanding sessions to attend, we urge you to carefully consider your choices. If you cannot attend a desired session, bear in mind that most session presentations will be available for download on the conference website.

We have come a long way on tanks issues over the past few decades, but as we all know, there is always more work to be done and budgets are getting tighter. It has been two years since we last met and new regulations have been passed in that time. We have much to discuss, much to share, and much to learn from each other. We urge you to fully embrace this rare opportunity when the tanks community comes together as one. Thank you for joining us.

Sincerely,

Ronald F. Poltak
Executive Director

New England Interstate Water Pollution Control Commission

mall Polhel

Carolyn Hoskinson

Director

Office of Underground Storage Tanks Environmental Protection Agency Dania E. Rodriguez

Executive Director

Association of State and Territorial Solid

Waste Management Officials

Dania E. Roduguez

Laura L. Malone

Director, Waste Programs Division

Arizona Department of Environmental Quality

aura S. Malone











# Arizona's Underground Storage Tank Program

In 1986, Arizona established its own Underground Storage Tank (UST) program that regulates a majority of USTs in the state. The program is administered by the Arizona Department of Environmental Quality (ADEQ) with the exception of USTs on Tribal Lands. ADEQ does this by overseeing the state's environmental laws and authorized federal programs to prevent pollution of the air, water and land and to ensure clean up of such pollution when it occurs.

By continually focusing on process improvement and enhanced communication with property owners and owners and operators of underground storage tanks, ADEQ's UST program has evolved into one of the most successful cleanup programs in the country.



www.azdeq.gov

1110 W. Washington St. | Phoenix, Arizona 85007 (800) 234-5677 | (602) 771-4829 (hearing impaired)



# New England Interstate Water Pollution Control Commission

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

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

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



# United States Environmental Protection Agency Office of Underground Storage Tanks

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

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

1101 17th Street, NW, Suite 707 Washington, DC 20036 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 and to affect relevant national policies for waste and materials management, environmentally sustainable practices, and environmental restoration.

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, 202-640-1063, charlesr@astswmo.org

### Registration and Information Desk Hours

### Sheraton Phoenix Downtown Hotel – Second Level

Sunday, September 13 11:00 a.m. to 6:00 p.m.

Monday, September 14 7:00 a.m. to 5:00 p.m.

Tuesday, September 15 7:00 a.m. to 5:00 p.m.

Wednesday, September 16 7:00 a.m. to 10:00 a.m.

# Welcome Reception

The Monday evening Welcome Reception is located in the Encanto Ballroom and the Second Floor Foyer. Your conference badge is your ticket in!

Monday, September 14 5:00 p.m. to 7:00 p.m.

# Conference Attire and Badges

The attire for the 25<sup>th</sup> 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.

### Fire Emergency Information

All guestrooms have a pre-printed map of the nearest emergency exit; the map is posted on the back of each guest room door for quick access. Please take a moment to review. Emergency exit signs are positioned in the hallways to direct you to the closest available exit. Do not use elevators in the event of a fire. Hotel staff will direct guests to the nearest emergency exit. In the event of a medical or fire emergency, contact hotel security immediately by pressing "0" on a hotel phone and asking for security.

## **Airport Transportation**

Ask at the Sheraton Phoenix Downtown Hotel front desk for information located in the lobby of the hotel.

### **National Tanks Exposition Hours**

### **Expo Hours and Poster Sessions**

Monday, September 14 9:30 a.m. to 7:00 p.m.
Tuesday, September 15 8:00 a.m. to 5:00 p.m.
Wednesday, September 16 8:00 a.m. to 12:00 p.m.
Poster "tours" will be conducted during the Monday
Welcome Reception.

### Conference Evaluation Forms

# Your opinion is important to us!

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

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

### **Business Center/Office Supplies**

The FedEx Office is located on the second floor. FedEx Office is open Monday – Friday 7 a.m. – 7 p.m. and Saturday – Sunday from 9 a.m. – 5 p.m.

### Lost & Found and Message Board

Located at the Conference Registration and Information Desk on the second floor.

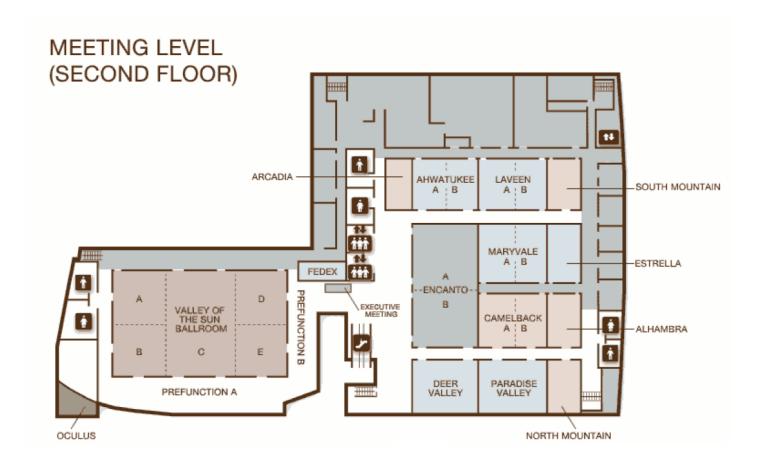
### Medical Information and Pharmacy

Saint Joseph's Hospital and Medical Center 350 W.Thomas Road Phoenix, AZ 602-406-3000

CVS Pharmacy 50 W. Jefferson Street Phoenix, AZ 602-296-7611







11:00-6:00	Conference Registration and Information Desk Open – Second Floor					
	Exhibitor Check-In/Move-In – Second Floor					
	Poster Check-In/Setup – Second Floor					
1:00-3:00	Improved Understanding The Future of Petroleum High-Resolution Use of					
	LNAPL	Natural Source	UST	Vapor	Site	Innovative GIS
	Assessment	Zone Depletion	Technology	Intrusion	Characterization	for Application
	and Remedy	Julio Zimbron,	Trends	Workshop	Workshop	of Structured
	Selection	Colorado State	Scot Thrash,	Robin Davis,	Stephen Dyment,	Decision
	Michael	University	Titan Cloud	Utah DEQ	U.S. EPA OSRTI	Making
	Hawthorne,		Software			Fran Kremer,
	GEI Consultants					U.S. EPA
	Valley of the	Valley of the	Valley of the	Valley of the	Valley of the	Region 5
	Sun A	Sun B	Sun C	Sun D	Sun E	Maryvale A
3:00-3:15	Break					
3:15-5:00	LNAPL	Responsible	Operator	PVI Workshop	HRSC Workshop	Innovative GIS
	Assessment	Party Search	Training on	(Cont.)	(Cont.)	(Cont.)
	(Cont.)	and Ability to	Trial			
		Pay – Working	Ben Thomas,			
		Together to	USTtraining			
		Provide for a				
		Better Result				
		Nina Kondos,				
		Retired,				
		Arizona DEQ				
	Valley of the	Valley of the	Valley of the	Valley of the	Valley of the	
	Sun A	Sun B	Sun C	Sun D	Sun E	Maryvale A

# Social Event – An Evening at Heard Museum of Native Cultures and Art: Sunday, September 13 from 6:00 p.m. to 9:00 p.m.

The social event will take place at the internationally acclaimed Heard Museum, one of the best places to experience the myriad cultures and art of American Indians of the Southwest. Located on Central Avenue in downtown Phoenix, the museum hosts 200,000 visitors a year and "provides Indian artists with a wonderful home that will excite and inspire visitors from around the world," according to Arizona Highways. The museum's 11 spacious exhibit galleries and beautiful outdoor courtyards feature outstanding traditional and contemporary American Indian art. The Heard Museum Shop offers an array of authentic Native art, while the Berlin Gallery features outstanding contemporary fine art for purchase. Tours of the museum will be available. Transportation will be provided.

7:00-5:00	Conference Registration and Information Desk Open – Second Floor				
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Laveen A				
8:00-9:30	Opening Plenary – Valley of the Sun Ballroom				
	UST Compliance and Cleanups: Goals, Progress, and Fostering Behavior Change				
	Moderator: Carol Eighmey, Executive Director, Missouri Petroleum Storage Tank Insurance Fund				
	Speakers: Carolyn Hoskinson, Director, Office of Underground Storage Tanks, U.S. Environmental				
	Protection Agency				
	<b>Jennifer Tabanico</b> , President, Action Research				
9:30-10:30	Break				
9:30-7:00	Exhibit Booths and Poste	er Session Area Open – Se	cond Floor Foyer and Enco	ınto Ballroom	
10:30-12:00	Airport Hydrant	PVI – Updates on	Release Prevention	RP Searches – Beyond	
	Systems, Field-	Vertical Screening,	through Compliance	the Basics: What Else	
	Constructed Tanks,	PVIScreen Model, and	and Remediation	Do You Need To Know	
	and Marinas – Not	OUST PVI Guide	Integration	Susan Burnell, U.S. EPA	
	Your Corner Gas	Tom Walker, U.S. EPA	John Olko, New Jersey	OUST	
	Station Tanks!	OUST	DEP		
	Erin Knighton, U.S. EPA				
	OUST	Valley of the Cup C	Valley of the Cup DE	Door Valley	
12:00-1:30	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Deer Valley	
1:30-3:00	Lunch (on your own) Is This Still a Lining?	Changing the	State Fund Survey	Using GIS Tools to	
1.50-5.00	Does It Fit in My	Landscape:	Results and Fund	Strengthen the Tanks	
	Regulations?	Redevelopment and	Soundness Measures	Program	
	Brad Hoffman,	Revitalization	Dana Bahar, New	Chuck Schwer, Vermont	
	·	ite vitalization			
	Tanknology, Inc.	Dorothy Malaier.		·	
	Tanknology, Inc.	Dorothy Malaier, Alabama DEM	Mexico ED	DEC	
	Tanknology, Inc.  Valley of the Sun AB	•		·	
3:00-3:30	Valley of the Sun AB	Alabama DEM  Valley of the Sun C	Mexico ED	DEC Paradise Valley	
3:00-3:30 3:30-5:00	Valley of the Sun AB	Alabama DEM  Valley of the Sun C	Mexico ED  Valley of the Sun DE	DEC Paradise Valley	
	Valley of the Sun AB Break – Visit the Exhibit	Alabama DEM Valley of the Sun C Booths and Poster Sessio	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foy	DEC Paradise Valley er and Encanto Ballroom	
	Valley of the Sun AB Break – Visit the Exhibit Ability to Pay	Alabama DEM Valley of the Sun C Booths and Poster Sessio Site Investigations:	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foyd  Improving Compliance:	Paradise Valley er and Encanto Ballroom Whirlwind Tour of	
	Valley of the Sun AB Break – Visit the Exhibit Ability to Pay Rebecca Ridenour,	Alabama DEM Valley of the Sun C Booths and Poster Sessio Site Investigations: Tools You May Not	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foye  Improving Compliance:  Common Violations,  Citation Authority, &  Inspection Frequency	Paradise Valley er and Encanto Ballroom Whirlwind Tour of Compliance Apps	
	Valley of the Sun AB Break – Visit the Exhibit Ability to Pay Rebecca Ridenour,	Alabama DEM Valley of the Sun C Booths and Poster Sessio Site Investigations: Tools You May Not Have Considered	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foye Improving Compliance: Common Violations, Citation Authority, & Inspection Frequency Jill Grant, Jill Grant &	Paradise Valley er and Encanto Ballroom Whirlwind Tour of Compliance Apps Charles Reyes,	
	Valley of the Sun AB Break – Visit the Exhibit Ability to Pay Rebecca Ridenour, Montana DEQ	Alabama DEM Valley of the Sun C Booths and Poster Sessio Site Investigations: Tools You May Not Have Considered Richard Spiese, Vermont DEC	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foyd  Improving Compliance: Common Violations, Citation Authority, & Inspection Frequency Jill Grant, Jill Grant & Associates, LLC	Paradise Valley er and Encanto Ballroom Whirlwind Tour of Compliance Apps Charles Reyes, ASTSWMO	
3:30-5:00	Valley of the Sun AB  Break – Visit the Exhibit  Ability to Pay  Rebecca Ridenour,  Montana DEQ  Valley of the Sun AB	Alabama DEM Valley of the Sun C Booths and Poster Sessio Site Investigations: Tools You May Not Have Considered Richard Spiese, Vermont DEC  Valley of the Sun C	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foye Improving Compliance: Common Violations, Citation Authority, & Inspection Frequency Jill Grant, Jill Grant & Associates, LLC Valley of the Sun DE	Paradise Valley er and Encanto Ballroom Whirlwind Tour of Compliance Apps Charles Reyes, ASTSWMO Paradise Valley	
	Valley of the Sun AB  Break – Visit the Exhibit  Ability to Pay  Rebecca Ridenour,  Montana DEQ  Valley of the Sun AB	Alabama DEM Valley of the Sun C Booths and Poster Sessio Site Investigations: Tools You May Not Have Considered Richard Spiese, Vermont DEC  Valley of the Sun C position, and Poster Session	Mexico ED  Valley of the Sun DE  n Area – Second Floor Foyd  Improving Compliance: Common Violations, Citation Authority, & Inspection Frequency Jill Grant, Jill Grant & Associates, LLC	Paradise Valley er and Encanto Ballroom Whirlwind Tour of Compliance Apps Charles Reyes, ASTSWMO Paradise Valley	

7:00-5:00	Conference Registration and Information Desk Open – Second Floor			
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Laveen A			
8:00-5:00	Exhibit Booths and Poster Session Area Open – Second Floor Foyer and Encanto Ballroom			
8:00-9:30	Sumps and Spill	Does Low LNAPL	BUSTED: UST	States Only Meeting
	Buckets – Are You	Transmissivity Equal	Insurance Fraud	Leslie Carr, Kentucky
	Ready?	No Further Action?	Uncovered and	DEP
	Paul Miller, U.S. EPA	Jeffrey Kuhn, Montana	Prosecuted in	Deer Valley
	OUST	DEQ	Michigan	
			Dan Yordanich,	Tribal Only Meeting
			Michigan DEQ	Randy Bettelyoun,
				Oglala Sioux Tribe
	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Maryvale
9:30-10:00		Booths and Poster Session	<b>on Area –</b> Second Floor Fo	oyer and Encanto
	Ballroom			
10:00-11:30	Walkthrough	Site Characterization	States in Transition –	How to Get to the
	Inspections	<ul><li>Hi-Resolution Tools</li></ul>	State Fund or Private	Truth without Torture
	Paul Miller, U.S. EPA	and Environmental	Insurance?	Amy Cole, Colorado
	OUST	Forensics	Mitch Scheel, Oregon	OPS
		Wayne Pudney,	DEQ	
		Arizona DEQ		
	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Deer Valley
11:30-1:00	Lunch (on your own)			
1:00-2:30	Overfill Device	Carbon-Based	Recklessly	Long-Term
	Inspections & Online	Injections: Finding	Abandoned: Options	Stewardship &
	Delivery Driver	Our Way in the Dark	for Orphan Tanks	Institutional Controls
	Awareness Program	Michael Albright,	Lori Spagnolo,	Steve McNeely, U.S.
	Elizabeth McDermott,	Kentucky DEP	Delaware DNREC	EPA OUST
	U.S. EPA OUST			
	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Deer Valley
2:30-3:00		: Booths and Poster Sessi	<b>on Area –</b> Second Floor Fo	yer and Encanto
	Ballroom			
3:00-4:30	Improving Outreach	Innovative	Getting the Most Out	Double Dipping and
	to Benefit	Technologies	of Release Detection	Cost Recovery
	Stakeholders,	Wayne Pudney,	Equipment Testing	Jane Bral, Colorado
	Regulators, and the	Arizona DEQ	Tim Smith, U.S. EPA	OPS
	Public		OUST	
	Matthew Jones, New			
	Hampshire DES			
	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Deer Valley

# Side Meetings:

9:30 a.m. – 12:30 p.m. RP Search/ATP Analysis Location: *Laveen A* 5:00 p.m. – 6:00 p.m. State Program Approval: Ideas for Location: *Estrella* 

Streamlining the Process

5:00 p.m. – 8:00 p.m. EPA Only – UST Enforcement Session Location: *Laveen A* 

7:00-10:00	Conference Registration and Information Desk Open – Second Floor			
7:00-7:45	Mandatory Speaker/Moderator Breakfast – Laveen A			
8:00-12:00	Exhibit Booths and Poster Session Area Open – Second Floor Foyer and Encanto Ballroom			
8:00-9:30	Compatible? Can You	Thinking Outside the	Fraud Prevention	Tribal & U.S. EPA
	Prove It?	<b>Box: Creative Cleanup</b>	Jane Bral, Colorado	Meeting
	Ryan Haerer, U.S. EPA	Programs	OPS	Randy Bettelyoun,
	OUST	Andrew Miller,		Oglala Sioux Tribe
		Maryland DOE		Carolyn Hoskinson,
				U.S. EPA OUST
	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Deer Valley
9:30-10:30	Exposition Raffle, Poster Session Area Open – Second Floor Foyer			
10:30-12:00	Corrosion in USTs	Legal Updates	<b>Cost Savings and Cost</b>	States & U.S. EPA
	Storing Ultra-Low	Perry Theriot,	Control	Meeting
	Sulfur Diesel (ULSD)	Louisiana DEQ	Darnell Manning,	Leslie Carr, Kentucky
	Ann Marie Gregg,		Georgia DNR	DEP
	Battelle			Carolyn Hoskinson,
				U.S. EPA OUST
	Valley of the Sun AB	Valley of the Sun C	Valley of the Sun DE	Deer Valley
12:00	Adjourn			

### **Side Meetings:**

1:00 p.m. – 5:00 p.m.	EPA Regional Program Managers Meeting	Location: <i>Laveen A</i>
1:30 p.m. – 5:00 p.m.	National Work Group on Leak Detection Evaluations	Location: Ahwatukee A
1:30 p.m. – 5:00 p.m.	Technical Forum on Fuel in Ground Water	Location: Deer Valley

# Thursday Meetings, September 17, 2015

8:00 a.m. – 10:00 p.m. National Work Group on Leak Detection Evaluations Location: *Ahwatukee A* 8:00 a.m. – 12:00 p.m. EPA Regional Program Managers Meeting Location: *Laveen A* 

# Friday Meetings, September 18, 2015

8:00 a.m. – 12:00 p.m. National Work Group on Leak Detection Evaluations Location: Ahwatukee A

# Pre-Conference Workshops / Sunday, September 13, 2015

# **Improved LNAPL Assessment and Remedy Selection**

Sunday, September 13, 1:00 p.m. to 5:00 p.m. Location: Valley of the Sun A

Presented by: Michael Hawthorne, Vice President/Principal, GEI Consultants

This workshop will demonstrate powerful, readily available forensic techniques to improve LNAPL remedy success by substantially improving LNAPL Conceptual Site Model Scientific Reliability. Discussions will include the range and distribution of LNAPL transmissivity values to provide practitioners and regulators with the context and scale within which to implement this critical metric.

# **Understanding Natural Source Zone Depletion**

Sunday, September 13, 1:00 p.m. to 3:00 p.m. Location: Valley of the Sun B

Presented by: Julio Zimbron, Research Scientist, Colorado State University

This workshop will outline the basis of the ITRC approach to Natural Source Zone Depletion (NSZD). Special emphasis will be placed on the methodologies available to quantify NSZD, how data can be used and experiences of measuring NSZD rates at nearly 50 petroleum contaminated sites. All of the case studies use current data from the past 5 years.

# The Future of UST Technology Trends

Sunday, September 13, 1:00 p.m. to 3:00 p.m. Location: Valley of the Sun C

Presented by: Amanda Bennett, Director of Compliance, Titan Cloud Software; Scot Thrash, Chief Operating Officer, Titan Cloud Software

This workshop will review how technology continues to evolve and take root in the petroleum industry helping owner/operators and State UST programs manage and automate many of the more tedious aspects of environmental compliance and remediation. This workshop will explore how Cloud and IoT (Internet of Things) technologies are being applied by leading petroleum retailers and regulators to stay on top of environmental risks, manage site inspections and exchange key reports and data.

# **Petroleum Vapor Intrusion Workshop**

Sunday, September 13, 1:00 p.m. to 5:00 p.m. Location: Valley of the Sun D

Presented by: **Robin Davis**, Environmental Scientist, Utah DEQ; **George DeVaull**, Principal Technical Expert, Shell Global Solutions; **Tom Rejzek**, Professional Geologist, Santa Barbara County EHS; **Todd Ririe**, Environmental Technology Coordinator, BP; **Richard Spiese**, Environmental Analyst V, Vermont DEC; **Tom Walker**, Environmental Protection Specialist, U.S. EPA OUST

This workshop will focus on presenting information and updates on the assessment and evaluation of vapor intrusion from subsurface sources into buildings from petroleum release sites. Topics to be covered include: 1) Conceptual site models for petroleum vapor intrusion (PVI) and the difference between petroleum and chlorinated solvent vapor intrusion; 2) Types and characteristics of sites where PVI may be a concern; 3) The API Biovapor Model, and other models, as tools to evaluate PVI; 4)Use of screening criteria for determining the potential for PVI; 5) Sampling and analytical methods for PVI including case studies and lessons learned; and 6) Updates on guidance documents, including EPA OUST, ITRC, other States, and their impact on the future of PVI investigations.

# Pre-Conference Workshops / Sunday, September 13, 2015

# **High-Resolution Site Characterization Workshop**

Sunday, September 13, 1:00 p.m. to 5:00 p.m. Location: Valley of the Sun E

Presented by: Stephen Dyment, Superfund Technical Liaison, U.S. EPA OSRTI

High-Resolution Site Characterization (HRSC) strategies and technologies have been found to improve remedy designs and performance in the Superfund program. Many of these tools and strategies have entered the Leaking Underground Storage Tank (LUST) universe and are being used with varying degrees of success. This workshop will discuss: 1) the impact of subsurface heterogeneity on the investigation and clean-up of groundwater and related media, 2) the need for Scale-appropriate measurements and adequate data density, 3) the tools and strategies that are available to overcome the difficulties of subsurface heterogeneity. Particular emphasis will be placed on tools and strategies potentially applicable to LUST sites and will highlight improvements to the conceptual site model and remedy performance through a series of case studies.

# **Use of Innovative GIS for Application of Structured Decision Making**

Sunday, September 13, 1:00 p.m. to 5:00 p.m. Location: Maryvale A

Presented by: **Brian Dyson**, Operations Research Analyst, U.S. EPA Region 5; **Fran Kremer**, Associate National Program Director; U.S. EPA Region 5; **Andrew Murray**, GIS Research Trainee, U.S. EPA ORD; **Jim Weaver**, Research Hydrologist, U.S. EPA Region 6

This workshop will emphasize understanding the fate and transport of contaminants from sources in relation to the position of water supply wells as a key to protecting water supplies. A preliminary step in addressing the influence of contaminant sources on water wells is to understand the geospatial context of both water supply wells and contaminant sources. This workshop will demonstrate the use of geospatial information in a structured decision making (SDM) process, supported by decision-analytical tools that can assist communities, States, and the USEPA in addressing the needed clean-up and ultimately, the land use planning to protect community water supplies.

# Responsible Party Search and Ability to Pay – Working Together to Provide for a Better Result

Sunday, September 13, 3:15 p.m. to 5:00 p.m. Location: Valley of the Sun B

Presented by: Nina Kondos, Retired, Arizona DEQ; Leo Mullin, President, Environmental Liability Assessment

This workshop will explain the basics for how a responsible party search is conducted and how an ability to pay analysis is completed. The workshop will then explain how these two different approaches will work with each other for the purpose of getting a better idea of who is liable and who is capable of paying for the cleanup. After the initial explanation of the basics, the remainder of the class will discuss examples of how the two approaches work together. For example, the results of the Responsible Party Search will be compared to tax information. This will help to ensure that all assets are identified and valued fairly.

# **Operator Training on Trial**

Sunday, September 13, 3:15 p.m. to 5:00 p.m. Location: Valley of the Sun C

Presented by: Leslie Carr, Energy Act Coordinator, Kentucky DEP; Suzanne Connelly, UST Operator Training Specialist, New Hampshire DES; Ellen Frye, LUSTLine Editor, Enosis; Ray Leather, Vice President of Regulatory and Environmental Affairs, Cumberland Farms; Marcel Moreau, President, Marcel Moreau Associates; Marshall Mott-Smith, President, Mott-Smith Consulting Group; Thu Perry, Public Participation Coordinator, Hawaii DOH; Bob Renkes, Executive Vice President, PEI; Doug Reske, Team Leader, Texas CEQ; Ben Thomas, President, USTtraining.com

This workshop will put Operator Training on trial for not doing its job of protecting air, water and soil. New evidence will be introduced and seasoned professionals will bear witness resulting in a spirited presentation about how States fared after the operator training deadline, whether operator training has helped, what are the metrics, and what does it all mean.

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

# Opening Plenary, Valley of the Sun Ballroom

# **UST Compliance and Cleanups: Goals, Progress, and Fostering Behavior Change**

Carolyn Hoskinson, Director of U.S. EPA's Office of Underground Storage Tanks, will open the conference with a welcoming address and a report on the nation's progress and initiatives. Jennifer Tabanico, President and cofounder of Action Research, will translate 100 years of research from the social sciences into practical methods for promoting environmentally responsible behaviors and decisions. Her presentation will equip you with new insights on how to motivate others to take action, helping you achieve your program goals. Don't miss this dynamic "kick-off" for the conference!

Carolyn Hoskinson, Director, U.S. EPA OUST; Jennifer Tabanico, President, Action Research

Moderated by Carol Eighmey, Executive Director, Missouri PSTIF

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

# Airport Hydrant Systems, Field-Constructed Tanks, and Marinas – Not Your Corner Gas Station Tanks!, Valley of the Sun AB

The 2015 revised UST regulations removed the "deferred" status for airport hydrant systems and field constructed tanks. These systems are very different from the typical corner gas stations - in design, construction and throughput. This session presents a great opportunity to learn more about these systems and their unique requirements. Further you will hear about tanks associated with marinas and the highs and lows of helping marina owners achieve compliance.

Diana Parks, Environmental Protection Specialist, Defense Logistics Agency; Danae Smith, Environmental Protection Specialist, Defense Logistics Agency; Grant Smith, Commercial Fueling & Ramp Services, Burns & McDonnell; Ted Unkles, UST Program Coordinator, Vermont DEC

Moderated by Erin Knighton, Environmental Protection Specialist, U.S. EPA OUST

# PVI – Updates on Vertical Screening, PVIScreen Model, and OUST PVI Guide, Valley of the Sun C

This session will highlight updates on the assessment and evaluation of potential PVI from subsurface sources into buildings from petroleum release sites. Areas to be covered include: 1) Vertical Screening Distances for Ethylene Dibromide (EDB) and 1,2 Dichloroethane (1,2 DCA) from Historical UST Releases of Leaded Gasoline; 2) US EPA "PVIScreen" Model – Using Model Uncertainty to Increase Screening Reliability and; 3) an update on EPA OUST's PVI Guide; "Technical Guide For Addressing Petroleum Vapor Intrusion At Leaking Underground Storage Tank Sites".

Matthew Lahvis, Consultant, Shell Global Solutions; Tom Walker, Environmental Protection Specialist, U.S. EPA OUST; Jim Weaver, Research Hydrologist, U.S. EPA Region 6

Moderated by Tom Walker, Environmental Protection Specialist, U.S. EPA OUST

# Release Prevention through Compliance and Remediation Integration, Valley of the Sun DE

Orren Doss, State of Colorado will provide a firsthand testimony on why integration between remediation and inspection staff makes sense, as well as challenges that need to be considered. It will focus on Cross Training between Inspection and Remedial staff by educating the regulated party and enhancing release prevention effectiveness. Brad Hoffman will present leak detection technologies that go beyond compliance to find issues that may not be detected by normal leak detection. John Olko will present on innovative inspection techniques that inspectors in the State of New Jersey employ. All three parts of the presentation will be useful to remedial and inspection staff and help to integrate these programs.

Orren Doss, Environmental Protection Specialist, Colorado OPS; **Brad Hoffman**, Vice President of Engineering, Tanknology, Inc.; **John Olko**, Supervising Environmental Specialist, New Jersey DEP

Moderated by John Olko, Supervising Environmental Specialist, New Jersey DEP

# RP Searches - Beyond the Basics: What Else Do You Need To Know, Deer Valley

Nina's back! Nina Kondos, retired Senior Enforcement Officer from Arizona DEQ, returns to share her expertise on Responsible Party (RP) searches. We will start with a game that covers the basic steps in the RP search process The game will provide a foundation for those new to RP searches and a review for those who participated in the Denver RP Search session or the March 2014 Webinar. Nina's presentation will provide a detailed look at business structures including corporations, LLC, partnerships, sole proprietors and more; and how to identify and name the RP on legal documents. We will allow time for questions and answers and discussion at the end of the session. Please share your RP search experiences with the group.

Nina Kondos, Retired, Arizona DEQ

Moderated by Susan Burnell, Environmental Protection Specialist, U.S. EPA OUST

# Session Abstracts / Monday, September 14, 2015

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

# Is This Still a Lining? Does It Fit in My Regulations, Valley of the Sun AB

Is it a new tank? Is it a double wall upgrade? Linings aren't just linings anymore, but what are they? The new UL1856 outlines three classes of tank upgrades including single wall linings, co-structural and self-structural double-wall upgrades. The new systems on the market today may not fit well in your current regulations. Using NLPA631 or API1631 for lining inspections? These may not align quite right with the new UL1856 standard. A manufacturer will discuss the three types of products. Regulators will share how they changed their regulations to accommodate the new options. Come and share your thoughts and experience as well!

Michael Juranty, Oil Compliance Section Supervisor, New Hampshire DES; Jonathan McNeely, Sales Manager, Tank Tech., Inc.; Heather Peters, Environmental Specialist, Missouri DNR

Moderated by Brad Hoffman, Vice President of Engineering, Tanknology, Inc.

# Changing the Landscape: Redevelopment and Revitalization, Valley of the Sun C

This session will provide attendees an opportunity to listen to, learn and discuss various ways that our ongoing efforts to protect human health and the environment also provide a return on investment to constituents and stakeholders. Come prepared to discuss ways that we can enhance communications and outreach regarding this redevelopment and revitalization "exit strategy." A strategy that can also help our collective efforts to better define the benefits that constituents derive from their subsequent reuse.

Stephen Dyment, Superfund Technical Liaison, U.S. EPA OSRTI; Michael Latin, Environmental Protection Supervisor, Arizona DEQ; Craig Schroer, UST Branch Chief, Indiana DEM

Moderated by Dorothy Malaier, Environmental Manager, Alabama DEM

# State Fund Survey Results and Fund Soundness Measures, Valley of the Sun DE

Speakers from EPA OUST and two states will discuss the interesting findings and lessons learned from the State Fund Survey and Fund Soundness evaluations. Of particular interest is how states have benefitted from the surveys or are looking to modify how they administer their funds. Speakers will also discuss national trends and discuss how the information is changing the dialogue between the EPA Regions and the states, and even internally within the states. The session will invite dialogue with the audience.

Will Anderson, Cleanup and Revitalization Division Director, U.S. EPA OUST; Bill Foskett, Environmental Protection Specialist, U.S. EPA OUST; Lynda Provencher, Project Manager, Vermont DEC; Michael Trombetta, Bureau Chief, Montana DEQ; Terry Wadsworth, Executive Director, Montana DEQ

Moderated by Dana Bahar, Petroleum Storage Tank Bureau Chief, New Mexico ED

# Using GIS Tools to Strengthen the Tanks Program, Paradise Valley

This session will provide an opportunity to see how 3 states and EPA are using GIS tools to strengthen their programs. NM and AZ will share how they use GIS to rank their LUST sites based on their potential risk to human health and the environment. VA will share how they use GIS as part of their strategic plan. EPA will show how it uses GIS to advance groundwater management decisions.

Suzan Arfman, GIS Coordinator, New Mexico ED; Debra Crouse, Information Technology Specialist, Arizona DEQ; Andrew Fox, Senior Project Manager, Timmons Group; Jim Weaver, Research Hydrologist, U.S. EPA Region 6

Moderated by Chuck Schwer, Director of Waste Management and Prevention Division, Vermont DEC

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

# Ability to Pay, Valley of the Sun AB

In the world of petroleum cleanup, it seems that everywhere you turn funding is tight. States and agencies struggle to find money needed for cleanup. What happens when someone tells the regulator that he/she doesn't have the financial resources to cleanup? Better yet, when should the state take their word that they can't afford cleanup? Recently, in Montana, we have implemented a standardized business process on how to handle a situation to determine if a true hardship applies. This session will explain how an ability to pay analysis works, focus on some scenarios that Montana has encountered, lessons learned, and what sort of avenue was pursued in release cleanup and cost recovery.

Rebecca Convery, Attorney, Montana DEQ; Leo Mullin, President, Environmental Liability Assessment; Rebecca Ridenour, Petroleum Tank Cleanup Supervisor, Montana DEQ

Moderated by Rebecca Ridenour, Petroleum Tank Cleanup Supervisor, Montana DEQ

# Site Investigations: Tools You May Not Have Considered, Valley of the Sun C

Site investigations usually include drilling wells, sampling, reporting, drilling wells, sampling, reporting.... This session will show some out of the box investigative tools that may be used to better understand the characterization of a LUST site. The first speaker will explain how predictive contaminant behavior compares with actual behavior. The second speaker will explain how horizontal directional drilling can be utilized for soil sampling and site characterization. The last speaker will explain how a multi-disciplinary approach can help to lead to a comprehensive understanding of a LUST site.

**David Bardsley,** Geologist, Directed Technologies Drilling, Inc.; **Kevin Brackney,** Groundwater Program Leader, Nez Perce Tribe; **Alexander Wardle,** Environmental Geologist, Virginia DEQ

Moderated by Richard Spiese, Environmental Analyst V, Vermont DEC

# Improving Compliance: Common Violations, Citation Authority, & Inspection Frequency, Valley of the Sun DE

All UST/LUST regulators share the common goal of improving compliance and release rates. Learning from historically common violations, utilizing local field citation authorities and inspecting facilities more frequently have proven to be effective in achieving these goals. The results of the 2014 Common Compliance Violations Survey of the ASTSWMO Task Force will be presented to highlight the comparison in compliance rates for states since 2012. In addition, the Navajo Nation will discuss their program which gives Federally Credentialed Inspectors the authority to issue field citations for compliance violations. Finally, OUST has partnered with several states to measure the success of changing to a 3 year inspection cycle and the results will be analyzed using data from approximately 5,000 facilities in Louisiana as an example.

Warren Roan, Environmental Specialist, Navajo Nation EPA; Karen Sullivan, Economist, U.S. EPA OSWER; Todd Thompson, Houston Region Petroleum Storage Tank Team Leader, Texas CEQ

Moderated by Jill Grant, Attorney, Jill Grant & Associates, Inc.

# Whirlwind Tour of Compliance Apps, Paradise Valley

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

Amanda Bennett, Director of Compliance, Titan Cloud Software; Sofia Kaczor, Principal Environmental Specialist, Rhode Island DEM; Betty Lamp, Office of Spill Response & Remediation Director, Virginia DEQ; Jon Marinas, President & CEO, JMM Global

Moderated by Charles Reyes, Senior Program Manager, ASTSWMO

# Session Abstracts / Tuesday, September 15, 2015

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

# Sumps and Spill Buckets - Are You Ready?, Valley of the Sun AB

Are you ready for the new periodic testing requirement for spill buckets and containment sumps used for piping interstitial monitoring? This testing will help ensure spill buckets and containment sumps are liquid tight and prevent releases to the environment. In this session we will hear from 3 speakers who will describe the new requirement, discuss a code of practice that may be used for testing, and provide some experiences with spill bucket and containment sump testing.

Laura Fisher, UST Leak Prevention Chief, California SWRCB; Kevin Henderson, President, Kevin Henderson Consulting, LLC; Matt Schuessler, Territory Manager, Franklin Fueling Systems, Inc.

Moderated by Paul Miller, Environmental Engineer, U.S. EPA OUST

# **Does Low LNAPL Transmissivity Equal No Further Action?,** Valley of the Sun C

As less complex sites are cleaned up and closed, state cleanup project lists contain an increasing percentage of difficult remediation sites where hydraulic LNAPL recovery is limited. These sites often have low-permeability stratigraphy, weathered product, and LNAPL trapped in the vadose zone. LNAPL classroom training sessions sponsored by the Interstate Technical and Regulatory Council (ITRC) have helped introduce the idea of LNAPL transmissivity. But how are states currently using LNAPL transmissivity (Tn) numbers? If a site reaches a specific Tn value, should the site be evaluated for formal site closure? Session presenters will discuss LNAPL projects from across the U.S. and compare the success of specific technologies employed, transmissivity values, and project closure strategies.

Robert Frank, Principal Hydrogeologist, CH2M Hill; Read Miner, Geologist, South Carolina DHEC; Mike Pecorelli, Project Manager, Utah DEQ

Moderated by Jeffrey Kuhn, LUST Brownfields Section Chief, Montana DEQ

# BUSTED: UST Insurance Fraud Uncovered and Prosecuted in Michigan, Valley of the Sun DE

Federal regulations require owners or operators (O/Os) of underground storage tank (UST) systems to obtain and maintain financial responsibility coverage of \$1 million to clean up releases to the environment from UST systems. In Michigan, many O/Os rely on private insurance to meet the federal and state requirements for UST financial responsibility. If the UST system was old and at risk of failing, insurance companies would not write policies or the cost of insurance would be expensive. Unscrupulous insurance agents devised a scheme to sell fake certificates of insurance that would deceive regulators. In this presentation, Special Agent Porter will discuss the joint investigation (FBI, Michigan Department of Natural Resources, United States Postal Inspection Service, and Michigan Department of Licensing and Regulatory Affairs), their findings, and prosecution of the criminal case which involved the creation of fake insurance certificates involving USTs in more than 30 cities across Michigan.

**Rich Porter,** Special Agent, U.S. EPA Criminal Investigation Division; **Sandra Siler,** Enforcement Officer, U.S. EPA Region 5; **Erick Thorson,** Detective, Michigan DNR Moderated by **Dan Yoranich,** Environmental Specialist, Michigan DEQ

# States Only Meeting, Deer Valley

This meeting is for state managers only. This will be an interactive session where audience participation will be required. Managers will be asked to break-out into UST, LUST and State Funds/FR to discuss important issues. A summary of important outcomes from this meeting will be shared with U.S. EPA OUST.

Moderated by Leslie Carr, Energy Act Coordinator, Kentucky DEP

# Tribal Only Meeting, Maryvale

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

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

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

# Walkthrough Inspections, Valley of the Sun AB

Are you ready for walkthroughs? Walkthrough inspections help identify and resolve problems quickly; decrease the chance of a potential spill or release; and increase the understanding and compliance with UST regulations. Some UST professionals have found that requiring regular walkthrough inspections to be a critical component of a prevention program. In this session we will hear from Shawn Howard, Citizen Potawatomi Nation, Doug Hansen, Utah Department of Environmental Quality and David Piercey, JD2 Environmental Inc., who will each share their experience with walkthroughs, the positive impacts on their programs, and lessons learned while implementing regularly scheduled walkthroughs.

**Doug Hansen,** UST Compliance Section Manager, Utah DEQ; **Shawn Howard,** Assistant Environmental Director, Citizen Potawatomi Nation; **David Piercey,** Vice President, JD2 Environmental

Moderated by Paul Miller, Environmental Engineer, U.S. EPA OUST

# Site Characterization - Hi-Resolution Tools and Environmental Forensics, Valley of the Sun C

The push is on to gather in field real-time data in order to reduce the number of mobilizations needed to characterize a site. High resolution tools help achieve this goal. These tools can result in focused and cost effective remedial efforts by providing more complete conceptual site models that can include 3-D depictions of the contaminant plume. Roger Lamb will present a case study on how high resolution site characterization tools assisted in defining LNAPL distribution and the site hydrogeology. John Fontana will continue with more discussion on high resolution tools and how those tools help with remedial efforts. In addition to talks on high resolution tools and their applications, Joseph Berlin will present applications of engineering and environmental forensics. Best and worst practices will be discussed, along with how selective forensic environmental analysis can be used to meet project goals.

Joseph Berlin, President, BLDI Environment Engineers; John Fontana, President & CEO, Vista GeoScience, LLC; Roger Lamb, U.S. Sales Manager, COLUMBIA Technologies

Moderated by Wayne Pudney, Senior Geologist, Arizona DEQ

## States In Transition – State Fund or Private Insurance?, Valley of the Sun DE

This session will focus on states that are transitioning from a state fund to insurance or from insurance to a state fund to meet requirements for financial responsibility. What events lead a state to determine that their state fund is no longer viable or reestablishing one is the best option for their state to demonstrate financial responsibility? Enforcement issues related to other financial responsibility mechanisms will be explored along with lessons learned along the way as we delve into the benefits and pit falls of a state fund versus other financial responsibility mechanisms.

Clifford Knaggs, President, Knaggs, Harter, Brake & Schneider, P.C.; Tara Rosie, UST Corrective Action Section Manager, Arizona DEQ; Peter Zack, Assistant Division Director, Connecticut DEEP

Moderated by Mitch Scheel, UST Policy Coordinator, Oregon DEQ

# How to Get to the Truth without Torture, Deer Valley

Do you ever feel like we are spinning our wheels on solutions that don't address the real problems? If the answer is yes, maybe or I don't know, then this session is for you. Often, decisions are made based on emotion and there is no data-derived truth behind these decisions. But, the new era of data-driven decisions in government is approaching, so how can we capitalize on our 30 years of data and be leaders in our sector? How can we use the data we have to make more informed decisions? What data are lacking or of poor quality? What can we learn from each other? This session will provide state and private sector perspectives on data-informed decision making, the challenges we face, and how to succeed with better data.

**Therron Blatter,** UST Branch Manager, Utah DEQ; **Russell Olsen,** Director, Washington State PLIA; **Patrick Rounds,** President, Rounds & Associates Moderated by **Amy Cole,** Environmental Protection Specialist, Colorado OPS

# Session Abstracts / Tuesday, September 15, 2015

1:00 p.m. - 2:30 p.m.

# Overfill Device Inspections & Online Delivery Driver Awareness Program, Valley of the Sun AB

This session will focus on two distinct topics, inspecting overfill devices and an introduction of a new online educational program for delivery drivers. We will provide a New Hampshire Dept. of Environmental Services' (NH DES) perspective toward physical and manual inspections of various overfill devices. The presentation will explain how to confirm proper operation, recognize signs of compromised devices, and general information regarding maintenance. To inspire suitable delivery driver practices, the NH DES has devised an awareness training module. Navigating through the program, the learner is exposed to both underground and aboveground storage tank structures, New Hampshire specific spill reporting requirements and the lessons from experienced drivers.

**Suzanne Connelly,** UST Operator Training Specialist, New Hampshire DES; **John Olko,** Supervising Environmental Specialist, New Jersey DEP; **Spruce Wheelock,** Inspector Oil Compliance, New Hampshire DES

Moderated by Elizabeth McDermott, Environmental Protection Analyst, U.S. EPA OUST

# Carbon-Based Injections: Finding Our Way in the Dark, Valley of the Sun C

Carbon-based injection (CBI) is the subsurface injection of activated carbon slurry (with or without a variety of amendments) under controlled pressures and flows to remediate petroleum contaminants. In this session, Neal Farrar will present the application of CBI to reduce/eliminate LNAPL at a site in Missouri, Ed Winner will summarize Kentucky's experience with CBI, and Tom Fox will report on preliminary efforts to evaluate the success of CBI in Colorado. Injecting a black material blindly into the ground can certainly leave anyone in the dark---let us shine some light!

**Neal Farrar,** Principal Geologist, Sunbelt Environmental Services; **Thomas Fox,** Environmental Protection Specialist II, Colorado OPS; **Edward Winner,** Branch Manager UST, Kentucky DEP

Moderated by Michael Albright, Geologist, Kentucky DEP

# Recklessly Abandoned: Options for Orphan Tanks, Valley of the Sun DE

In this session, you'll hear about different approaches to addressing abandoned tanks. Partnerships, funding mechanisms and community benefits will be highlighted. Get inspired by the contributions these programs have made to reducing backlogs and meeting clean up goals!

Rick Brunton, State Lead Unit Project Manager, Arizona DEQ; Amy Bryson, Hydrologist III, Delaware DNREC; Laura Fisher, UST Leak Prevention Chief, California SWRCB

Moderated by Lori Spagnolo, Environmental Program Manger I, Delaware DNREC

# Long-Term Stewardship & Institutional Controls, Deer Valley

Many States have used Institutional Controls (ICs), both physically engineered and administrative, to manage their active caseload and effectively reduce their leaking underground storage tank (LUST) site backlog. This session will address how Missouri, Indiana and other states are maintaining, tracking and evaluating ICs and providing Long Term Stewardship of their sites. The Missouri Department of Natural Resources has developed an interactive map that allows users to conduct a search for investigations and cleanups, and other site information within a specific community or area. This map is designed to provide easily accessible information to the public about all cleanups and any related physical controls or property use restrictions to help ensure safe property use. In 2009, the Indiana Department of Environmental Management (IDEM) remediation programs increased reliance on the use of institutional and engineering controls to manage exposure to contamination. Now Indiana, like many other States, is grappling with questions about long-term management of sites with activity and use restrictions. This presentation will focus on the implementation, tracking, compliance, and budgetary challenges IDEM has encountered at leaking UST sites with ICs. The EPA Office of Underground Storage Tanks (OUST) will provide about an overview of Long-Term Stewardship (LTS) issues involving closed leaking underground storage tank sites. EPA OUST will introduce the audience to a new Long Term Stewardship "user's manual" that outlines examples of what other states are using to monitor closed LUST sites, which can be used to refine or develop LTS programs.

**Laura Luther,** RBCA Unit Chief, Missouri DNR; **Steve McNeely,** Environmental Protection Specialist, U.S. EPA OUST; **Craig Schroer,** UST Branch Chief, Indiana DEM Moderated by **Steve McNeely,** Environmental Protection Specialist, U.S. EPA OUST

# 3:00 p.m. - 4:30 p.m.

# Improving Outreach to Benefit Stakeholders, Regulators, and the Public, Valley of the Sun AB

With dwindling budgets and resources, and new Federal regulations needing to be implemented, many states are looking for ways to "do more with less". Some states have turned to outreach efforts as a way to keep up with their tasks and meet their goals. Whether preparing for new regulations, improving your public relations, or increasing the effects of your inspection program, this session will provide you with some ideas that can benefit your program.

Zach Hope, Release Prevention Supervisor, Colorado OPS; Alexander Wardle, Environmental Geologist, Virginia DEQ; Jacquee Wilson, Communication Coordinator, Colorado OPS

Moderated by Matthew Jones, Oil Compliance and Enforcement Subsection Chief, New Hampshire DES

# Innovative Technologies, Valley of the Sun C

Technology is being used in innovative and exciting ways these days. Come to this session and listen to three speakers that have successfully utilized technology in innovative ways. David Bardsley begins with a talk about the benefits and effectiveness of horizontal directional drilling at small sites. Robert Frank will follow with a discussion that involves using a biologically-enhanced soil-vapor extraction (BSVE) system to remediate a 77- acre target zone that includes a 46-acre zone of free-product jet fuel. Brett Tavener ends the session with two case studies involving the injection of oxygen to protect municipal wells from MtBE plumes.

**David Bardsley,** Geologist, Directed Technologies Drilling, Inc.; **Robert Frank,** Principal Hydrogeologist, CH2M Hill; **Brett Tavener,** Environmental Scientist IV, Kansas DHE

Moderated by Wayne Pudney, Senior Geologist, Arizona DEQ

# Getting the Most Out of Release Detection Equipment Testing, Valley of the Sun DE

This session discusses the new federal regulatory requirements pertaining to annually testing release detection equipment. EPA will provide an overview of the testing requirements for electronic and mechanical release detection equipment. Two major U.S. manufacturers of release detection equipment will share their company's perspectives on properly testing specific types of equipment. This session will also detail issues observed in the field and discuss the importance of physical inspections to confirm proper operation, from the perspective of a state inspector.

Dave Emmington, Environmental Products Manager, Veeder-Root Company; Matt Schuessler, Territory Manager, Franklin Fueling Systems, Inc.; Spruce Wheelock, Inspector Oil Compliance, New Hampshire DES

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

# **Double Dipping and Cost Recovery, Deer Valley**

Double dipping refers to a State Fund applicant obtaining reimbursement from the State Fund and also from their insurance company for the same costs. This is not permitted and if insurance proceeds are received the money should be returned to the State Fund. Several States have pursued double dipping recoveries and have been successful. This session will begin with Tom Schruben discussing in general terms the data and records needed to achieve a successful recovery. Mahesh Albuquerque will follow and discuss the strategies used to obtain successful recoveries for Colorado. Julia Fraser will describe two cost recovery processes used in Colorado. The first involves recovering money from State Fund applicants who have been accepted to the State Lead program (State hires the contractor to perform the necessary investigations and corrective actions) but have a percent reduction for non-compliance imposed on their reimbursement awards. Money recovered for the value of the percent reduction is returned to the State Fund. A second process involves recovering money from the State Fund to replenish EPA grants that were used for investigation and corrective action.

**Mahesh Albuquerque,** Director, Colorado OPS; **Julia Fraser**, Environmental Protection Specialist, Colorado OPS; **Thomas Schruben**, Partner, ACRM, LLC Moderated by **Jane Bral**, State Fund Section Supervisor, Colorado OPS

# Session Abstracts / Wednesday, September 16, 2014

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

# Compatible? Can You Prove It?, Valley of the Sun AB

Ensuring that your UST system is compatible with the substances you will store is critical to preventing releases to the environment. In this session you will learn about: new federal regulations on compatibility; the evolving state of infrastructure and equipment options compatible with these fuels; New York City's Fleet services' experiences and lessons learned; and Minnesota Pollution Control Agency's experience with developing an alternative option for owners to meet the compatibility requirement.

Nate Blasing, Tanks Unit Supervisor, Minnesota PCA; Kristi Moriarty, Project Leader, National Renewable Energy Laboratory; Eric Richardson, Deputy Chief Fleet Management Officer, The City of New York

Moderated by Ryan Haerer, Program Analyst, U.S. EPA OUST

# Thinking Outside the Box: Creative Cleanup Programs, Valley of the Sun C

Since the UST program began, states and EPA have looked for innovative ways to continue cleanup progress. Policies such as risk-based decision making represent an evolution in thinking about how to conduct cleanups differently. That evolution continues as programs refine cleanup approaches. In this session, three states will share new directions implemented by their programs. Randy Chapman will review changes to Virginia's program over time supported by statistical data and anecdotes. Jeff White will discuss lowa's consensus building process to support corrective action decisions. Jennifer Strauss will present Colorado's Low Risk Closure Policy and how it has been applied to two sites with offsite contamination on adjacent properties.

Michael Kanner, Petroleum Remediation Manager, Minnesota PCA; Jennifer Strauss, Environmental Protection Specialist, Colorado OPS; Jeff White, Environmental Specialist Senior, Iowa DNR

Moderated by Andrew Miller, Chief Remediation Division, Maryland DOE

# Fraud Prevention, Valley of the Sun DE

Using Charles Darwin's theory of evolution throughout the presentation, Melinda Crutchfield and Karen Stachowski will demonstrate how three state government agencies came together and successfully litigated against a major oil company and won a \$6.4 million settlement. This successful collaboration resulted in the creation of an Environmental Investigator position within the Tennessee Department of Environment and Conservation to build a fraud detection and prevention program to protect the division's \$47 million reimbursement fund. Jane Bral will describe an auditing process the Colorado Petroleum Storage Tank Fund has recently implemented to try to detect and prevent fraud.

Jane Bral, State Fund Section Supervisor, Colorado OPS; Melinda Crutchfield, Environmental Investigator, Tennessee DEC; Karen Stachowski, Deputy General Counsel, Office of General Counsel

Moderated by Jane Bral, State Fund Section Supervisor, Colorado OPS

# **Tribal & U.S. EPA Meeting,** Deer Valley

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

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

# Session Abstracts / Wednesday, September 16, 2015

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

# **Expo Raffle and Poster Session, Second Floor Foyer**

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

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

# Corrosion in USTs Storing Ultra-Low Sulfur Diesel (ULSD), Valley of the Sun AB

Severe corrosion of metal components in USTs storing ULSD continues to appear across the country since it was first reported around 2007. The session will discuss the findings of the EPA research, present a distributor's successful practices for proactively managing fuel and equipment to minimize the risk of corrosion in USTs. The session will conclude with a look at some possible causes of the corrosion in the fuel itself and present areas for consideration for finding long-term solutions.

Mahesh Albuquerque, Director, Colorado OPS; Ryan Haerer, Program Analyst, U.S. EPA OUST; Russ Lewis, Refining Analytical & Development Supervisor, Marathon Petroleum Company

Moderated by **Anne Marie Gregg**, Principal Research Scientist, Battelle

# **Legal Updates,** Valley of the Sun C

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

William Alpine, Director of Cost Recovery/Corporate Counsel, Environmental Compliance Services, Inc.; Perry Theriot, Attorney Supervisor Enforcement & Remediation, Louisiana DEQ

Moderated by Perry Theriot, Attorney Supervisor Enforcement & Remediation, Louisiana DEQ

# Cost Savings and Cost Control, Valley of the Sun DE

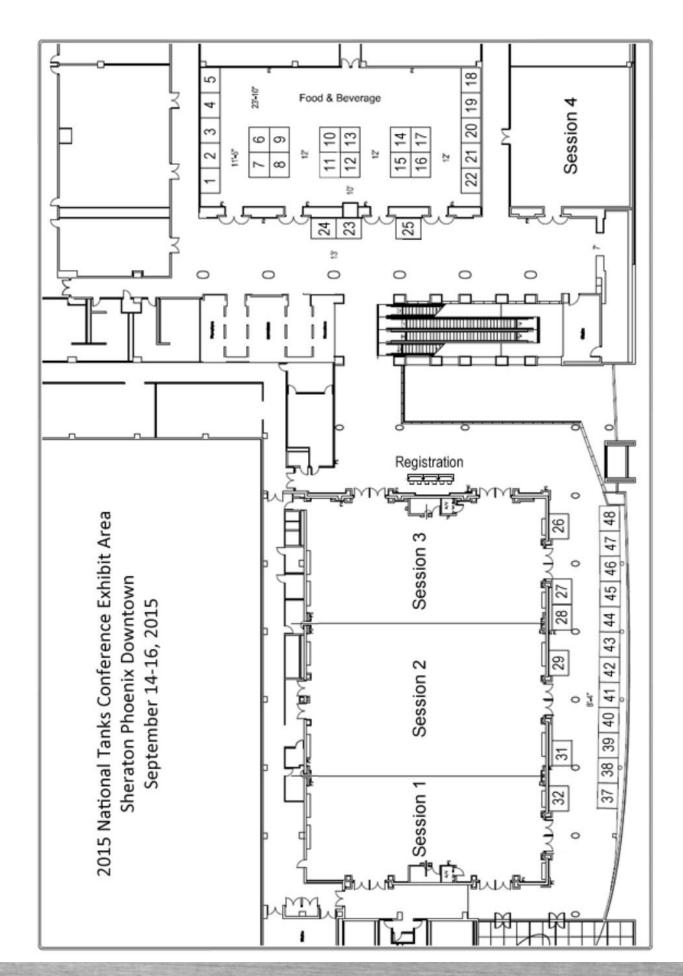
How do you deal with corrective action cost? Are you in the business of Managing or Controlling cost? Or are costs a secondary concern in relation to environmental protection? In this session, we will help clarify your needs by presenting various approaches. The State of Utah will discuss how site prioritization and its practical application have proven valuable when developing site specific approaches for individual cleanups. Utah has experienced cost savings by prioritizing assessments to decide compliance frequency, and determining where to focus efforts. We will then discuss how 20 years of Pay For Performance cleanups has helped South Carolina control cost and bring their State's Trust Fund back from the verge of insolvency. We will close out the session with innovative approaches implemented by the State of Tennessee in their continual efforts to control cost and reduce cleanup backlogs.

**Cindy Greene,** Deputy Director, State of Tennessee; **Lee Monts**, Geologist, South Carolina DHEC; **Jason Wilde**, Environmental Specialist, State of Utah Moderated by **Darnell Manning**, Program Manager I, Georgia DNR

# States and U.S. EPA Meeting, Deer Valley

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

Moderated by Leslie Carr, Energy Act Coordinator, Kentucky DEP; Carolyn Hoskinson, Director, U.S. EPA OUST



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CGRS, Inc. 1301 Academy Court Fort Collins, CO 80525 Tel: 970-493-7780 Contact: Tim Goodrich Email: tim@cgrs.com http://www.cgrs.com



Booth 9

JCGRS provides Environmental, Compliance, Engineering and Construction services for the petroleum industry. Upstream to downstream, we focus on helping our customers conduct business in compliance with applicable regulations. We believe that business, industry and the environment can all thrive. Since 1987, it has been our mission to find the right combination of science, technology, innovation and experience to enrich both. At CGRS, safety is priority number one.

### **Official Room Sponsor**

### **JMM Global**

2496 Technology Drive Elgin, IL 60124-7925 Tel: 847-888-0276 Contact: Jennifer Betz Email: jbetz@jmmglobal.com http://www.jmmglobal.com



Booth 13

JMM Global is a leading managed services provider of storage tank management and regulatory compliance solutions. We provide a comprehensive software platform and environmental compliance expertise to manage storage tanks. In addition to storage tank management, our core business competencies include inventory management, 24/7 call center services, and cradle to grave project oversight. Through our parent company, BSM Technologies, we bring telematics and GPS tracking solutions for rubber tire fleets, yellow iron, rail equipment, railcars, and locomotives.

### **Official Room Sponsor**

## **Purpora Engineering**

P.O. Box 80265 658 N. Progress Drive Saukville, WI 53080 Tel: 262-536-4081 Contact: Dawn Brooks



Email: dawnb@purporaengineering.com http://www.purporaengineering.com

Booth 26

Since 1978 Purpora Engineering has been delivering industry leading service and solutions for tank and line testing. Stephen Purpora, President, states "Our strategic plan is to offer a complete tank and line test system with the widest range of capabilities. We are confident that with Alert and Petro-Tite we do just that. Our second to none training, exceptional products and exclusive partnerships with the highest quality manufacturers, offer a distinct ongoing advantage to our clients."

### **Exhibitors**

### **ACE**

436 Walnut Street, 7th Floor Philadelphia, PA 19106 Tel: 215-640-4437 Contact: Julie Steward Email: julie.steward@acegroup.com http://www.acegroup.com/us



**Booth 28** 

ACE is one of the world's largest multiline property and casualty insurers, providing commercial and personal property and casualty insurance, personal accident and supplemental health insurance, reinsurance and life insurance. ACE has operations in 54 countries, with approximately 21,000 employees serving a diverse group of customers worldwide.

### Aestus, LLC

2605 Dotsero Court Loveland, CO 80538 Tel: 303-717-8893 Contact: Stuart McDonald Email: swm@aestusllc.com http://www.aestusllc.com



Booth 16

Developing accurate conceptual site models (CSMs) from the data generated from tens of wells is virtually impossible. Fortunately, Aestus GeoTrax CSM ultra-high resolution site characterization process delivers tens of thousands of real field data points, yielding CSMs that actually work. GeoTrax CSMhas successfully delineated contaminant distribution in complex geologic settings, zones of bioactivity, and impacts to surface water and sediments. The result is expedited site closure at lower costs. See www.aestusllc.com for more info.

### CalClean, Inc.

1790 N. Case Street Orange, CA 92865 Tel: 714-921-1234 Contact: Noel Shenoi

Email: noelshenoi@calclean.com http://www.calclean.com

PROTECTING AMERICA'S WATERS

Booth 46 & 47

CalClean is an innovated mobile remediation technology used for Petroleum Hydrocarbons and Chlorinated Solvents. We use mobile High Vacuum Dual Phase Extraction (HVDPE) along with a patent pending groundwater treatment system to remediate and take sites to closure. CalClean's patent pending water treatment system gives the advantage to treat the water onsite, which avoids expensive handling and disposal fees. With the system being mobile CalClean can be onsite within hours working, which will reduce the site's potential impacts to the environment. CalClean's HVDPE system can be used over a wide range of sites and lithology conditions, and can be combined with other remediation technologies to further enhance the process. Our system allows for minimal disturbance to site operations and has no capital investment price tag. CalClean's mobile system shortens the treatment time due to its optimal system design, use of longer extraction event times, and the systems being manned 24-hours, which allow system adjustments on the fly for better recovery.

### Cardno

7606 Whitehall Executive Center Drive, Suite 800

Charlotte, NC 28273 Tel: 704-529-3200 Contact: Mike Shaw Email: mike.shaw@cardno.com

http://www.cardno.com



Booth 22

With over 200 offices in the Americas, Cardno offers the invaluable technical resources of a national company with the independence to serve our clients cost-effectively in each local office. Because we work across many industries, we staff our projects with experts in your industry. We also bring innovative ideas from other industries that face similar problems. Cardno's experience with numerous state agencies across the US has provided us with an extensive depth of experience in managing petroleum storage tank issues for both above and underground tanks.

### **COLUMBIA Technologies**

6700 Alexander Bell Drive, Suite 200 Columbia, MD 21046 Tel: 410-536-9911



CONTAINMENT

**SOLUTIONS®** 

Contact: Roger Lamb Email: yfang@columbiatechnologies.com http://www.columbiatechnologies.com

**Booth 8** 

COLUMBIA Technologies is your Partner for Smarter Sustainable Solutions. We focus on enhancing your complete LNAPL conceptual site model by leveraging your existing data with the best high resolution tools such as LIF and onsite field analytics. Following established ITRC guidelines, we apply the best science, technology, data, and engineering to identify and close data gaps. Collaboratively, we optimize long-term business outcomes for all stakeholders using the best science and quality. Think. Restore. Sustainably.

### **Containment Solutions**

5150 Jefferson Chemical Road Conroe, TX 77301 Tel: 936-756-7731

Contact: Vanessa Flores Email: vflores@csiproducts.com

http://www.containmentsolutions.com

Booth 45

Containment Solutions is the largest American fiberglass tank manufacturer. Specializing in underground storage tanks ranging from 600-60,000 gal., for the storage and handling of petroleum and biofuels, water, automotive lubricants and more. The company offers a comprehensive selection of innovative products for the perpetual storage and handling of hazardous, non-hazardous, flammable, and combustible liquids. In addition to our fiberglass tanks, we complement our underground product line with aboveground steel tanks for fuel and automotive lubricants.

### Crompco, LLC

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



Booth 20

Serving the industry for over 32 years, Crompco is one of the nation's leading UST compliance testing firms. Our goal is to serve UST owners and operators with unmatched experience, attention to detail and cost-effective solutions designed to protect the environment and our customer's assets. Crompco's Cloud-Based Vault Services provides owners with an array of tools and information including test results, scheduling, date tracking, document tracking, archiving, gauge monitoring, work order management, and pricing tools.

### **DoubleTrac By Omegaflex**

213 Court Street, #1001 Middletown, CT 06457 Tel: 860-704-6829 Contact: Don Effgen Email: don@omegaflex.com http://www.doubletrac.net



Booth 32

Single and double wall piping for DEF, petroleum, diesel, biofuels.

### **EcoVac Services**

105 Weatherstone Drive, Suite 610 Woodstock, GA 30188 Tel: 888-4-ECOVAC Contact: Nick Athens Email: nick.athens@ecovacservices.com

http://www.ecovacservices.com



Booth 48

EcoVac Services is a remediation services firm with offices positioned in numerous states. We provide cost-effective in situ mobile remedial solutions for VOC/SVOC impacted sites. EcoVac Services is the world leader in dual-phase/multi-phase extraction services. We conducted over 15,000 mobile extraction events at over 2,000 sites throughout the United States (40 states) and Puerto Rico. Our EFR process alone has been successful in removing over 1,000,000 equivalent gallons of contaminants for environmental groundwater remediation.

### **ESC Lab Sciences**

2211 S 48th Street, Suite H Tempe, AZ 85282 Tel: 602-708-8233 Contact: Emily Vanaskey Email: evanaskey@esclabsciences.com http://esclabsciences.com



ESC is a single location nationally certified full service environmental laboratory. We provide analyses on soil, groundwater, wastewater, drinking water, air, mold and TCLP matrices. With over 90,000 operational square feet on a single campus, nearly 24/7 staffing and redundant instrumentation for most analyses, our 250 staff owners are prepared to meet today's challenges of large sample sets, low reporting limits and fast turnaround. ESC is well positioned to serve as your primary laboratory resource in quality, service and capacity. Our demonstrated commitment to being the industry leader in certifications held, easy-to-use field ready sample kits and sample transport logistics has provided us many growth opportunities in major metropolitan areas as well as in the far off corners of the United States.

### Franklin Fueling Systems

3760 Marsh Road Madison, WI 53718 Tel: 562-480-0167 Contact: John Adrian



### Franklin Fueling Systems

Email: adrian@franklinfueling.com http://franklinfueling.com

Booth 21

Franklin Fueling Systems offers the world's most complete line of petroleum equipment including Submersible Pumping Systems, Piping & Containment Systems, Service Station Hardware, Dispensing Systems, Fuel Management Systems and Transport Systems. As the industry's total system solution provider, we offer the world's most complete line of petroleum equipment including FE Petro brand Submersible Pumping Systems, APT and UPP brand Piping & Containment Systems, EBW and FLEX-ING brand Service Station Hardware, HEALY and FLEX-ING brand Dispensing Systems, INCON brand Fuel Management Systems and EBW brand Transport Systems.

### fueloperator

310 W 200 N Pleasant Grove, UT 84062 Tel: 801-854-8679 Contact: Steven Wellman Email: steve@fueloperator.com http://www.fueloperator.com

fueloperator

Booth 19

We provide Business Intelligence and data collection for fuel and facility operators, we put your data to work for you. You can customize the questions by region, state or facility. We push data back in real-time as the inspections are being performed. We fill out, manage and host state specific forms as needed.

### Geological Resources, Inc.

3502 Hayes Road Monroe, North Carolina 28110 Tel: 704-845-4010 Contact: Lisa Hilbish Email: Ilh@geologicalresourcesinc.com

http://www.geologicalresourcesinc.com



Geological Resources, Inc.

Booth 31

Geological Resources, Inc. is a leading environmental consulting firm specializing in Phase I/II Environmental Site Assessments, Asbestos Inspections, Vapor Intrusion, UST Removals, Soil and Ground Assessments and Remediation, Permitting and Compliance, Emergency Spill Response Management, Brownfields, Spill Prevention, Control and Countermeasures (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPP) and Permits, and Sedimentation and Erosion Control Plans.

### **Icon Containment Solutions**

905 N. Main Street, D-1 North Salt Lake, UT 84054 Tel: 855-379-7867 Contact: Paul Reber Email: paul@icontainment.com http://www.icontainment.com



Booth 42

Exclusively focused on containment leak repair and corrosion prevention, Icon provides and supports the widest range of effective repair products in the market, including sealants, instant water block, watertight sump lids, split-repair fittings, structural repair bonders, and testing kits. If it leaks, we have a solution and support the installer with training, parts specification, and technical support. Icon also offers a corrosion preventing humidity/vapor absorbent and sealants for sealed STP sumps.

### JMM Global

2496 Technology Drive Elgin, IL 60124-7925 Tel: 847-888-0276 Contact: Jennifer Betz Email: jbetz@jmmglobal.com http://www.jmmglobal.com



Booth 13

JMM Global is a leading managed services provider of storage tank management and regulatory compliance solutions. We provide a comprehensive software platform and environmental compliance expertise to manage storage tanks. In addition to storage tank management, our core business competencies include inventory management, 24/7 call center services, and cradle to grave project oversight. Through our parent company, BSM Technologies, we bring telematics and GPS tracking solutions for rubber tire fleets, yellow iron, rail equipment, railcars, and locomotives.

### **Leak Detection Technologies Inc.**

1889 N Oracle Road Tucson, AZ 85705 Tel: 855-255-LEAK Contact: David Rabb



Email: david.rabb@leakdetect.net http://www.MDLeak.com

**Booth 44** 

Leak Detection Technologies owns the world's most precise leak detection methods. Unique to the industry is the capability to transfer from leak detection to leak identification within the same mobilization. Leaks are located with pinpoint precision for repair and retest within hours not days. Our Scientists continue with the largest R&D program of its kind. LDT's 24/7 emergency team is the fastest and most precise leak detection team within the USA. Visit us at WWW.MDLeak.com.

### **MobileWright Solutions**

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



MobileWright's UST Inspector (a mobile inspection software application) has streamlined and improved the inspection process at several state UST programs (NH DES, CT DEP, ID DEQ, NC DENR, VI DEP, SC DHEC, and RI DEM). 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 testing/certification of Class A/B operators.

### Modern Welding Co.

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



Booth 7

Modern means business; yesterday, today and tomorrow. Underground tanks (GLASTEEL II) with purpose. Aboveground tanks (FIREGARD) with a survival mission. Separators (KLEERWATER) that give synergy to the separation. Manufacturing Locations Nation-wide.

### Morrison Bros. Co.

570 E. 7th Street Dubugue, IA 52001 Tel: 563-583-5701



Contact: Kelly Mulligan

Email: kmulligan@morbros.com

http://www.morbros.com

Booth 43

Morrison Bros. Co. is a leading manufacturer of petroleum marketing products used in a variety of applications including ASTs, service stations, tank trucks, and various environmental areas. Some of these products include vents, valves, spill containers, gauges, and manholes.

### **NOV Fiber Glass Systems**

17115 San Pedro Avenue, Suite 200

San Antonio, TX 78323 Tel: 864-617-2439

Contact: Joshua Fowler Email: joshua.fowler@nov.com http://www.nov.com/fgs



Booth 39

NOV Fiber Glass Systems' Red Thread IIA and Dualoy fiberglass piping systems are UL971 Listed for identified fuels, products and applications. They are compatible with all blends of Biodiesel and Ethanol, and DEF. Our Sump Entry Termination fittings meet California's requirement of a Class 1 (leak prevention) systems, suitable for continuous vacuum monitoring, and offer a 30-year Water Intrusion Warranty. We have always been on the leading edge of regulatory compliance and standards testing!

### **OPW CleanEnergy Fueling Products**

9393 Princeton-Glendale Road Hamilton, OH 45242 Tel: 800-422-2525

Contact: Erik Shelton Email: kelly.klodell@opwglobal.com http://www.opwglobal.com

A DOVER COMPANY

**Booth 4 & 5** 

OPW CleanEnergy Fueling Products is Leading the Way in fueling the future, offering the world's most complete line of CNG (compressed natural gas), Hydrogen and LPG (liquefied petroleum gas) fueling products, including: Autogas Nozzles, Breakaways, Shear Valves, Adaptors and Hose Assemblies.

### **Petro Classroom**

9237 Ward Parkway, Suite 220 Kansas City, MO 66213 Tel: 913-645-9140 Contact: Patrick Vuchetich Email: pjv@petroclassroom.com http://www.petroclassroom.com



Booth 40

If you are looking for Class A/B Operator Certification Training or Class C Operator Certification Training, as required by the Energy Policy Act of 2005, you have come to the right place. Petro Classroom offers affordable and convenient compliance training that not only meets, but exceeds the training requirements and guidelines established by the EPA. We currently offer Classroom and Online Training for Class A and B Operators and Online Training for Class C Operators.

### **ProTechnology**

2828 Cochran Street Simi Valley, CA 93065 Tel: 805-527-1248 Contact: Dean Wetherston



Email: dean.wetherston@protechinc.com

http://protechinc.com/

ProTechnology delivers market-driven and proven solutions that enhance business productivity and agility by automating document-based business processes. We offer a standards-compliant suite of products that enable customers to improve operational efficiency and gain a competitive edge by reducing manual data entry costs, improving information accuracy, automating routing and workflow procedures, and providing immediate, personalized communications to customers, their partners and employees.

### **Purpora Engineering**

P.O. Box 80265 658 N. Progress Dr Saukville, WI 53080 Tel: 262-536-4081 Contact: Dawn Brooks

Email: dawnb@purporaengineering.com http://www.purporaengineering.com



Booth 26

Booth 1

Since 1978 Purpora Engineering has been delivering industry leading service and solutions for tank and line testing. Stephen Purpora, President, states "Our strategic plan is to offer a complete tank and line test system with the widest range of capabilities. We are confident that with Alert and Petro-tite we do just that. Our second to none training, exceptional products and exclusive partnerships with the highest quality manufacturers, offer a distinct ongoing advantage to our clients."

### Regenesis

1011 Calle Sombra San Clemente, CA 92673 Tel: 949-366-8000

Contact: Lori Muggee
Email: Imuggee@regenesis.com

Email: Imuggee@regenesis.com http://www.regenesis.com

REGENESIS

Technology-Based Solutions for the Environment

Booth 27

REGENESIS is a global leader in proven and cost-effective environmental technologies for the remediation of contaminated sites. Since 1994, the company has been developing and manufacturing a range of products that are applied directly into soil and groundwater to enhance the treatment of environmental contaminants. Many of these contaminants, which include: gasoline, diesel fuel, jet fuels, heat oil, and industrial solvents have impacted the subsurface as a result of spills, leaks, and/or poor disposal practices. Worldwide, REGENESIS products have been applied at tens of thousands of sites in more than 20 countries. For more information visit www.regenesis.com.

### S. Bravo Systems, Inc.

2929 Vail Avenue Commerce, CA 90040 Tel: 323-888-4133 Contact: Paola Bravo Email: pbravo@sbravo.com http://www.sbravo.com



Booth 3

Bravo is a certified woman-owned and Made in the USA accredited manufacturer of premium, frustration-free secondary containment systems. Bravo provides products and support that incorporate innovative engineering, industry feedback and unrivaled customer service to deliver superior products that protect your local ground water, perform for the life of your station, provide future-ready upgradeability and all with the lowest total cost of ownership.

### STI/SPFA

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



**VEEDER-ROOT** 

Booth 2

STI/SPFA is a non-profit trade association that has as its members fabricators of steel construction products (and their suppliers). Member companies produce steel storage tanks, field erected steel tanks, pressure vessels and heat exchangers and piping and pipelines used in the petrochemical, power generation, food, drug, fuel, wastewater and water transmission industries.

### **The Veeder Root Company**

11548 Big Four Way Gold River, CA 95670 Tel: 916-638-2066 Contact: Dave Emmington

Contact: Dave Emmington
Email: demmington@veeder.com
http://www.veeder.com

Booth 11

Veeder-Root is the number-one supplier of automatic tank gauges in the world, backed by an unmatched service network. Veeder-Root is the world's most experienced and trusted name in fuel management solutions monitoring well over a half million underground storage tanks for major oil companies, airports, governments, package deliverers, large truck fleets, car rental companies, public utilities and thousands of service stations in the U.S. and around the globe.

### **Timmons Group**

1001 Boulders Parkway Suite 300 Richmond, VA 23225 Tel: 703-331-3752

Contact: Andy Fox Email: andy.fox@timmons.com http://www.timmonsgis.com



Booth 38

Timmons Group is a leading professional consulting firm providing information technology and geospatial consulting services to public and private clients throughout the U.S. Our GIS service offerings include requirements definition, strategic planning, implementation planning, infrastructure design, database design, data model development, application development, data conversion, field data collection, mobile and web development, system integration and implementation services.

### **UST Training**

3495 Daisy Lane Clinton, WA 98236 Tel: 360-321-4776



Contact: Ben Thomas Email: ben@USTtraining.com http://www.USTTraining.com

Booth 10

UST Training provides lively, engaging, state-specific online training for Class A/B and C UST operators plus offers live UST classes nationwide. Founder Ben Thomas has 26 years' experience in the UST world and has trained more operators than anyone in the industry. Stop by his booth and say hi!

### Vaporless Manufacturing, Inc.

8700 E Long Mesa Drive Prescott Valley, AZ 86314 Tel: 800-367-0185 Contact: Barbara Kelly Email: sales@vaporless.com http://www.vaporless.com



Booth 15

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

### Vista GeoScience

130 Capital Drive, Suite C Golden, CO 80401 Tel: 303-277-1694 Contact: John Fontana Email: jfontana@vistageoscience.com http://www.VistaGeoScience.com



Booth 41

Vista GeoScience provides expert site investigation and remediation support services to consultants and engineers at commercial, DOE and DOD sites. Services include: Direct-Push (Geoprobe®) soil, soil gas and groundwater investigation; High-Resolution Subsurface Sensing and Mapping Technologies including MIP, HPT, LIF/UVOST and others; Precision placement injections of reagent liquids and slurries including in-situ chemical oxidation, chemical reduction, bio-remediation and bio-augmentation using the Clean-Inject® system. Vista also provides installation of proppants and/or treatments using hydraulic fracturing technologies.

### **Warren Rogers Associates**

747 Aquidneck Avenue WRA Middletown, RI 02842 Tel: 800-972-7472 Contact: William Jones Email: wjones@warrenrogers.com http://www.warrenrogers.com



Booth 17

Warren Rogers provides CITLDS Continual Reconciliation monitoring for convenience stores and travel centers. The system is capable of monitoring tanks and lines at high throughput sites and provides advanced diagnostics of fueling equipment performance.

### **Xerxes Corporation**

7901 Xerxes Avenue South, Suite 201 Minneapolis, MN 55431 Tel: 952-887-1890 Contact: Kristi Peterson Email: kristi.peterson@xerxes.com http://www.xerxes.com



Booth 18

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

### **Zerust Oil & Gas**

23900 Mercantile Road Beachwood, OH 44122 Tel: 216-450-5702 Contact: Lilia Lipps Email: llipps@ntic.com http://www.zerust-oilgas.com



Booth 29

Zerust Oil & Gas is a division of Northern Technologies International Corporation (NASDAQ: NTIC) that provides corrosion mitigation solutions and services to clients in the Oil & Gas and process chemical industries. Some of our oil and gas clients include Conoco-Philips (USA), EPPCO (UAE), Petrobras (Brazil), Schlumberger (Malaysia), EMS Pipeline (USA), PEMEX (Mexico), Shell (Malaysia) and FMC Technologies (USA). The team leverages NTIC's global network of trained corrosion management professionals and channel partners to deliver products, provide local support, conduct client training and participate in solution field trials. In addition, the R&D group works with companies like Petrobras and Total (France) to develop specialized corrosion mitigation solutions and shared intellectual property (IP) technologies.

### Michael Albright, Kentucky DEP

Michael Albright is a Geologist with the Kentucky Department for Environmental Protection. He has been with Kentucky DEP since 2008. Prior to his work at Kentucky DEP, he worked in the areas of karst hydrogeology and environmental research. Michael has an M.S. in Geology from Eastern Kentucky University.

### Mahesh Albuquerque, Colorado OPS

Mahesh Albuquerque is the Director of the Colorado Division of Oil and Public Safety. His responsibilities include oversight of Colorado's Storage Tank Programs - UST/AST Inspection, LUST Remediation, Petroleum Reimbursement Fund, and Weights & Measures, as well as several Public Safety Programs including Explosives, Boilers and Pressure Vessels, Conveyances, and Amusement Rides and Devices. He has been with the Division for over fifteen years and serves in leadership positions on several national technical committees and workgroups on standards and policy development. Prior to joining the Division, he spent eight years in the private sector as an environmental consultant. He received his B.S. and M.S. degrees in Geology from the University of Bombay, and is a registered professional geologist.

# Bill Alpine, Environmental Compliance Services, Inc.

William Alpine is Corporate Counsel and Director of Cost Recovery for Environmental Compliance Services, Inc., (ECS) a multi-state environmental and energy Services Company. He is responsible for providing in-house legal guidance on such matters as contract management, risk management, environmental due diligence, and human resources to the company's approximately 300 engineers, scientists and administrative personnel. He is also Director of ECS' Cost Recovery program where he oversees the reimbursement process for claims submitted to various state financial assurance programs. Prior to joining ECS in 2005, he worked for the Commonwealth of Massachusetts for 17 years, the last 12 of which he served as Executive Director of the Massachusetts Underground Storage Tank Cleanup Fund. He also 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.

### Will Anderson, U.S. EPA OUST

Will Anderson is the director of the Cleanup and Revitalization Division in EPA's Office of Underground Storage Tanks. He has worked at EPA for over 20 years. His current areas of responsibility include state fund soundness, petroleum vapor intrusion guidance and other LUST technical issues, LUST backlog reduction strategies, and petroleum brownfields. Prior to joining EPA, he served as a Peace Corps volunteer in Cameroon, West Africa where he taught biology and chemistry to high school and middle school

students. He received his B.S. in pre-med studies from the University of Notre Dame. Go Irish!

### Suzan Arfman, New Mexico ED

After 20 years with American Airlines Suzan Arfman decided it was time for something new. She has been with the New Mexico Environment Department since 2005. Her focus has been GoNM, Geographic Information System Screening Tool of New Mexico. It is an environmental assessment identification and prioritization tool developed to provide a systematic approach to determine cumulative impacts in making environmentally sound decisions. GoNM evaluates petroleum facilities in New Mexico on their potential to leak and the jeopardy such a leak could cause the public and the environment and illustrates remediation information. GoNM has expanded its original objective by using ResourceSpace, a document management system that allows storage of reports, maps, and spreadsheets that can be viewed and downloaded by the public.

### Dana Bahar, New Mexico ED

Dana Bahar has over 20 years of experience overseeing remedial actions of leaking petroleum storage tank sites and Superfund sites, as well as managing environmental clean-up programs, including the New Mexico Environment Department's Superfund Oversight Section. She is currently the Bureau Chief of the New Mexico Petroleum Storage Tank Bureau which includes the Tank Registration, and Prevention and Inspection programs, as well as the Remedial Action and Corrective Action Fund Reimbursement programs.

# David Bardsley, Directed Technologies Drilling, Inc.

David Bardsley has over thirty years of environmental drilling experience working in a variety of settings across the United States. He was an early leader in the use of horizontal drilling to solve environmental challenges and has authored/co-authored over twenty papers on horizontal environmental drilling methodology. He has been directly involved in the design and installation oversight of over 100,000' of horizontal environmental wells including seventy-six blind well completions. He has a Bachelor of Science degree in Geology & Geophysics along with a Communications Minor (1984) from the University of Missouri-Rolla. He is a licensed well driller in Texas, Arizona and Louisiana and holds RG/PG certifications in Texas, Missouri, Louisiana and Tennessee.

### **Amanda Bennett, Titan Cloud Software**

Amanda Bennett has over 10 years' experience overseeing regulatory compliance and environmental management at over 2000 retail, commercial, and fleet fuel facilities. At Titan Cloud Software, she has led the company's compliance and software services initiatives, including the automation of environmental best practices at many of the nation's largest convenience stores.

She graduated from the University of Wisconsin, Milwaukee with a BS in Architecture. She earned her MBA from Texas Christian University.

### Joe Berlin, BLDI Environmental Engineers

Joseph Berlin, President and founding member of BLDI, is responsible for risk analysis, remediation and forensic assessments. He has provided risk management, remediation and forensic services to private parties, lenders and their advisers throughout BLDI's primary footprint of Ohio, Michigan, Kentucky and Indiana since 1991. He has a B.S. and M.S. in Civil Engineering, as well as an MBA. He is a licensed engineer in Ohio and several other states, a VAP Certified Professional (Ohio CP #351), and a member of the National Academy of Forensic Engineers (NAFE). He regularly works on forensic cases, with some of his most recent cases being in Texas and Michigan. He regularly provides training in the areas of risk management, UST assessments and forensics.

### Randy Bettelyoun, Oglala Sioux Tribe

Randy Bettelyoun works as the Coordinator of the Underground Storage Tank/Leaking Underground Storage Tank program for the Oglala Sioux Tribe in Pine Ridge, South Dakota. He has an A.A Degree in Business and General Studies from Oglala Lakota College in Kyle, South Dakota. He received his tribal certification in Underground Storage Tank Operations removal and inspections through Intertribal Council of Arizona Inc. Since 1997, when he began working for the Oglala Sioux Tribe, he oversaw the installation removal and cleanup of UST /LUST sites on the Pine Ridge Indian Reservation and has acquired not only classroom training but also practical hands-on experience in the UST/LUST field. He also is a veteran of the Marine Corps from 1983 - 1987.

### Samar Bhuyan, Arizona DEQ

Samar works in the State Lead Program of UST Corrective Action Section and is involved in developing and implementing scope of for investigation and remediation of petroleum contamination.

### Nate Blasing, Minnesota PCA

Nate Blasing graduated College from the University of Minnesota, Duluth in 2001 with a major in Environmental Studies and a minor in Communications. He has worked for the Minnesota Pollution Control Agency for approximately 15 years, 13 of which have been in the Tanks program. He is married to his wife Nicky and has two children, Bri (5 yrs. old) and Abby (3 yrs. old). His hobbies include most anything outdoors, sports, and he is a walleye fishing guide in his spare time.

### Therron Blatter, Utah DEQ

Therron Blatter is the Manager for the Underground Storage Tank Branch of the Utah Department of Environmental Quality. In this capacity, he is responsible for oversight of Utah's compliance and enforcement program, LUST cleanup program, and Petroleum Storage Tank

cleanup fund. He has been involved in Utah UST program for the past 24 years, eight as a UST field inspector, eleven as the UST compliance program manager and the last five as UST branch manager. Therron received his B.S and M.S. in geology from Brigham Young University.

### Bill Brab, AST Environmental, Inc.

Mr. Brab has a B.S. in Geology with 14 years of experience in environmental consulting and remediation. His consulting experience includes site investigation and corrective action implementation in overburden soils and bedrock regimes. For the last 4 years he has served as a senior member of AST Environmental's In-Situ Remediation Division and provides timely, cost effective remediation utilizing Trap and Treat® BOS 100® and BOS 200®.

### Kevin Brackney, Nez Perce Tribe

Kevin is an Idaho Registered Professional Geologist and a Certified Ground Water Professional, National Ground Water Association. He received an M.S. Degree in Hydrology from the University of Idaho in 1992 and a B.S. in Geology from Ft. Lewis College, Durango, Colorado, in 1978. He has a total of 23 years of professional experience as Hydrogeologist including 14 years working on environmental protection and restoration for the Nez Perce Tribe and 9 years conducting groundwater bioremediation research with U.I. He also worked for 12 years as an Exploration and Mining Geologist in 12 states with a primary focus on precious and base metals. He is an active backcountry skier, whitewater rafter, swimmer, hiker, and has a love of nature.

### Jane Bral, Colorado OPS

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

### Rick Brunton, Arizona DEQ

Rick Brunton is Project Manager for the Arizona Department of Environmental Quality's (ADEQ) UST Corrective Action Section, State Lead Unit, which focuses on orphan and abandoned UST sites. He manages multiple UST cleanup projects across the entire. He has worked for ADEQ for just under 10 years. Prior to relocating to Arizona, he worked for a private consulting firm servicing

Northeast Ohio and Southeast Michigan for 15 years.

### **Amy Bryson, Delaware DNREC**

Amy Bryson is a Hydrologist with the Delaware Department of Natural Resources and Environmental Control, Tank Management Section (DNREC-TMS) Corrective Action Group. Prior to joining DNREC in 2010, she worked for 13 years as an environmental consultant focusing on the performance of underground storage tank removals and leaking underground storage tank (LUST) investigations. As a DNREC-TMS project officer, she manages the investigation and remediation of RP-lead and State-lead LUST projects. She is the leader of the DNREC-TMS State Lead Work Group which develops and implements policies and programs for State-funded UST and LUST projects. She was the driving force behind the creation of DNREC's innovative Heating Fuel UST Closure Assistance Program, and now administers the program. She holds a B.S. in Environmental Science with a concentration in Geology from Allegheny College.

### Susan Burnell, U.S. EPA OUST

Susan Burnell works in the Cleanup and Revitalization Division of EPA's Office of Underground Storage Tanks. She has been with EPA for 20 years and has worked in OUST since 2009. She is the content lead for OUST's backlog studies. She has worked with EPA's Office of Site Remediation Enforcement on the development of RP search guidance for the tanks program and on ability to pay issues. She is OUST's Regional Liaison for Regions 3 and 6. She has a B.A. from Albion College in Albion, MI, majoring in Biology.

### Leslie Carr, Kentucky DEP

Leslie is the Energy Act Coordinator for the Underground Storage Tank Branch UST Compliance Section. She has worked for the Commonwealth of Kentucky for 16 years and in the Underground Storage Tank Program for 12 of those years. In her current role she trains inspectors and the regulated community, as well as writing draft regulations for the Kentucky's compliance program and managing their online training program, KY TOOLS. She has been active with the ASTSWMO UST Task Force since 2008 and currently is the Tanks Subcommittee Chair. She earned her Bachelor's degree in Natural Resource Conservation Management from the University of Kentucky.

### Amy Cole, Colorado OPS

Amy Cole has worked with the Colorado Division of Oil & Public Safety for almost two years. She recently transitioned from working on enforcement and compliance to a new position as Policy and Research Specialist. Her favorite part about her new position is the opportunity to work creatively, conduct research and help to develop new policies that are making a difference both in the office and for external stakeholders.

Before working in state government, she spent three years with the Environmental Protection Agency in Washington, D.C. She holds an M.P. in Environmental Policy and a B.S. in Natural Resource Economics, both from the University of Maryland in College Park.

### **Suzanne Connelly, New Hampshire DES**

Suzanne Connelly is the Underground Storage Tank (UST) Operator Training Specialist at the New Hampshire Dept. of Environmental Services. She began her career in 2007 as an inspector of over 600 aboveground and underground storage tank facilities. Ever since she took over the Operator Training Program in 2011, she has been presenting while leading 5 other guest speakers in a monthly classroom-style course to owners and operators of regulated UST facilities. In addition to training, she continues to conduct inspections of over 150 facilities. She is also a member of the Rewards & Recognition Committee, the Website Advisory Board, the Presentation Team and is an advisor to the Dept. of Transportation Tank Management Group. She holds an Environmental Studies Degree from Franklin Pierce College.

### Rebecca Convery, Montana DEQ

Rebecca "Becky" Convery is an attorney with the Montana DEQ. Since 2014, she has served as the Department's leaking underground storage tank (LUST) and petroleum Brownfields attorney. She is responsible for all legal issues related to the LUST and petroleum Brownfields programs, including enforcement of state laws and rules, cost recovery and identifying responsible parties. She is also responsible for drafting relevant legislation and administrative rules, legal pleadings, administrative orders, consent decrees and other settlement documents. She holds a Master's of Environmental and Land Use Law from the University of Florida, and a J.D. from the University of Montana. She also holds a B.A. in International Relations from Mary Washington University and an M.A. in Foreign Policy Studies from the University of Virginia.

### Debra Crouse, Arizona DEQ

Debby Crouse is a relative new-comer to the field of GIS. A former teacher, she returned to school to get her Master's at Arizona State University in GIS. She has worked for the past two years at the Arizona Department of Environmental Quality following an internship at Epcor Water in Sun City, Arizona. At the DEQ she has been able to bring more state-of-the-art processes to the Agency and a fresh outlook to problem solving. She says she loves her job because she gets to learn new things every day. She works mostly in the Waste Division, but also moonlights in the Air Quality Division. She considers herself a life-long learner and loves to take training activities to increase her knowledge and skills in GIS.

### Melinda Crutchfield, Tennessee DEC

Melinda Crutchfield is the Environmental Investigator for the Tennessee Department



of Environment and Conservation, Division of Underground Storage Tanks. She is responsible for the creation and implementation of the Program Integrity Protection Plan that helps protect the division's \$47 million program fund from fraud, waste and abuse. She has a Bachelor's degree in political science and a Master's degree in criminal justice, both from Middle Tennessee State University. She has been a Certified Fraud Examiner for over 15 years, and holds memberships in the National Association of Certified Fraud Examiners and the National Association of Government Accountants. She has provided specialized training across the country on matters related to fraud and fraud auditing, interviewing and interrogation techniques, behavioral analysis, and detecting and identifying deceptive behavior.

### Robin Davis, Utah DEQ

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

### Nicholas de Sieyes, UC Davis

Dr. de Sieyes is a postdoctoral scholar at UC Davis in the Department of Land, Air and Water Resources. His research focuses on fate and transport of contaminants in soil and groundwater. He received his PhD from the Department of Civil and Environmental Engineering at Stanford University in 2010.

### **George DeVaull, Shell Global Solutions**

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

### **Orren Doss, Colorado OPS**

Orren Doss graduated from Colorado State University in 2002 with a MS in Soil and Crop Sciences. Since graduation, he worked with the United States Geological Survey and transitioned into environmental consulting in 2008. As an environmental consultant, he worked primarily in the LUST program, conducting site assessments and petroleum hydrocarbon remediation activities in Colorado. In 2013, he joined the Colorado Division of Oil and Public Safety as an Environmental Protection Specialist with compliance inspection duties. Currently, he is working in the Release Prevention Section and is working closely with the Remediation and

Compliance Sections to enhance efficiency, increase communication and educate the regulated community to achieve release prevention effectiveness.

### Stephen Dyment, U.S. EPA OSRTI

Stephen Dyment is a chemist with more than 18 years' experience including 4 years in a commercial analytical laboratory and 8 years in environmental consulting. He joined EPA in 2005 with a focus towards enhancing acceptance and use of emerging analytical technologies, sampling strategies, and remediation approaches. His perspective draws upon years of practical laboratory and field experience to apply EPA's Triad approach at sites in Superfund, Brownfields, RCRA, UST, and State programs. His efforts have resulted in the development of numerous EPA case studies, profiles, and training courses that outline successful strategies for the use and understanding of collaborative data sets, adaptive QC programs, and real time analytics. The resulting targeted high resolution information improves the conceptual site model and uses scale appropriate measurements to optimize remedy design effectiveness and facilitate the application of green and sustainable remediation approaches. He provides project-specific support for sites through the Brownfield and Superfund technical support centers and teaches classes on sampling design, x-ray fluorescence, Triad, and other technical subjects. He holds a B.S. in Environmental Science/ Toxicology from the University of Massachusetts at Amherst.

### Brian Dyson, U.S. EPA Region 5

Dr. Brian Dyson is an Operations Research Analyst with the U. S. EPA Office of Research and Development and leads the Decision Science and Support Tools Project. He started with the EPA working on land management decision support for non-point source runoff and habitat conservation. His current work is aimed at integrating decision methods and developing decision support tools for community assessment, contaminated site remediation, and watershed/estuary management.

### Carol R. Eighmey, Missouri PSTIF

Carol R. Eighmey has served as Executive Director of Missouri's Petroleum Storage Tank Insurance Fund for 18 years, an experience which has provided a broad base of knowledge of underground and aboveground tank regulations and equipment, cleanup technologies and costs, federal and state case law, and politics. She has served on several national committees, on the board of directors of NatLUST, and as a reviewer for EPA technical papers; she also regularly writes articles on UST-related topics for various publications. She has a BS in Applied Physics and a MS in Engineering Management from the Missouri University of Science and Technology.

# **David Emmington, The Veeder-Root Company**Dave Emmington has been in the petroleum

equipment industry for over 27 years and has been with The Veeder-Root Company for over eleven years. As Manager of Environmental Products, he interacts with regulatory agencies, end-users, distributors and contractors for familiarization of the company's various environmental products. He is directly responsible to translate regulatory and end-users preferences into product specification, design, and functionality. He is continually involved with product development, education, and the training on all of Veeder-Root's products.

### Catalina Espino Devine, Chevron Energy Technology Company

Catalina Espino Devine is a lead engineer with Chevron Energy Technology Company, Site Assessment and Remediation Team. She has an M.S. in Civil and Environmental Engineering from the University of California, Berkeley. She is a registered civil engineer in the State of California. She has been working on environmental site assessment and remediation projects for over 10 years.

### **Neal Farrar, Sunbelt Environmental Services**

Neal Farrar is a professional geologist who has been working in the environmental consulting field since 1986. He is a Missouri Registered Geologist and a Professional Geologist in Illinois and Arkansas. He has extensive experience with the characterization of petroleum hydrocarbons in soil, groundwater and fractured bedrock. He received a B.S. in Geology from Southeast Missouri State University and studied hydrogeology and contaminant hydrogeology at Emporia State University. He is currently the Principal Geologist and manager of drilling services at Sunbelt Environmental Services, Inc. in Springfield, Missouri.

### Laura Fisher, California SWRCB

Mrs. Laura Fisher is Chief of the UST Leak
Prevention Unit and Office of Tank Tester Licensing
at the California Water Resources Board. She
has been involved in the development and
implementation of California's UST Program for
20 years. She currently serves on a number of
technical committees including Underwriters
Laboratories (UL) and Petroleum Equipment
Institute (PEI), and also serves as the Region 9
Representative for The Association of State and
Territorial Solid Waste Management Officials
(ASTSWMO) Underground Storage Tanks Task
Force.

### John Fontana, Vista GeoScience, LLC

John is President and CEO of Vista GeoScience where he oversees high-resolution site characterization and innovative in-situ remediation services. A professional geologist and licensed water well driller in multiple states, John has over 30 years of experience with exploration geochemistry, environmental site investigation, and remediation technology projects at DOD, DOE and commercials sites. He has co-authored over

80 presentations, papers and workshops in these fields. He is the current President of the Colorado Environmental Management Society and also serves on the EPA's Science Advisory Board on Hydraulic Fracturing's Impact on Drinking Water. He earned a degree in Geology, Oceanography and Physics from Humboldt State University in California in 1981.

### Bill Foskett, U.S. EPA OUST

Bill Foskett has worked in OUST since it started on matters regarding UST cleanups. During this time he has prototyped intelligent decision-support software, led OUST's initiative on Pay-for-Performance Cleanup contracting, led OUST's Phase 1 backlog analysis and collaborated in the Phase 2 backlog analysis team. He led development of OUST's 2013 guidance on state fund soundness oversight, developed and maintains the Excel State Fund Soundness Workbook, reviews and analyzes state fund data, and collaborates with EPA regional offices on state fund soundness.

### **Andrew Fox, Timmons Group**

Andrew Fox has been implementing geospatial solutions for over 20 years. He oversees information technology projects for the company's many state, local and federal government clients. His professional experience includes work with a wide variety of GIS applications for managing the environment, land and assets. He specializes in strategic planning and designing solutions related to the many facets of an Enterprise GIS. He enjoys spending time with his family, most outdoor activities, home improvement, and growing a variety of hot peppers needed to make his homemade hot sauce. He earned his Doctorate's degree in Geological Sciences from Cornell University and his M.Sc. in Geology from the University of Canterbury in New Zealand as a US Fulbright Research Fellow.

### Tom Fox, Colorado OPS

Tom Fox graduated from Michigan State University with an MS in Geology. He participated in petroleum exploration with a major oil company before transitioning to environmental consulting in 1987. Since then, he has worked as a consultant in environmental assessment and remediation of petroleum hydrocarbons, mainly in the western U.S., and joined the Colorado Division of Oil & Public Safety in 2007. Recently, he has been involved in developing electronic formats for standardized reporting to OPS, and studying LNAPL transmissivity in relation to recovery efforts. In 2014 he began evaluating the use of activated carbon as an in-situ sequestering agent to foster groundwater cleanup, and recently authored an article in LUSTLINE regarding carbon injection.

### Robert Frank, CH2M Hill

Robert J. Frank, R.G. is a principal hydrogeologist at CH2M in Tempe, Arizona. He is a registered geologist in the State of Arizona and has over

25 years of experience in the environmental industry. His expertise and research interests are focused on multiphase flow of contaminants in both the saturated and unsaturated zone, and he is a recognized leader within the company on non-aqueous phase liquid (NAPL) distribution, mobility, and recoverability. He serves on the review board of Applied NAPL Science Review (ANSR), a scientific e-journal that provides insight into the science behind the characterization and remediation of NAPLs.

### Julia Fraser, Colorado OPS

Julia Fraser is a technical reviewer in the Division of Oil and Public Safety. She provides oversight and reviews site assessment and remediation efforts on petroleum contaminated sites. She also manages the Colorado cost recovery efforts. She has held this position for the past 4 years.

# Ellen Frye, Enosis-The Environmental Outreach Group

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

### Judy Goodson, Nez Perce Tribe

Judy Goodson has worked for the Nez Perce
Tribe, Groundwater Program for 5 years as a GIS
Specialist. She graduated in 2008 from Lewis
Clark State College, Lewiston ID and has a BAS in
Engineering Technology with a minor in GIS. She
generates cartography and site plans with GIS and
AutoCAD, conducts UST Compliance Assistance
Inspections, performs site investigations and
preliminary ESA's, and participates in the
Hazardous Emergency Response Team trainings.
She is a Licensed Land Surveyor in Training and
has completed all required ICS course work for an
Operation Section Chief. Her hobbies are her farm
and garden in Deary, ID and she even finds time to
sew her quilts.

### Jill Grant, Jill Grant & Associates, LLC

Jill Grant, of Jill Grant & Associates, LLC, assists tribes with developing environmental programs and addressing the implementation, enforcement, jurisdictional, and other issues that arise. She has drafted tribal legislation and regulations under all the major federal environmental statutes, including RCRA Subtitle I, and has obtained TAS and primacy for many tribal programs. She also has litigated tribal jurisdictional and enforcement

issues before administrative agencies and in the federal courts. She is currently working with several tribal environmental programs to implement and enforce their UST/AST, solid waste, hazardous waste, CAA, and CWA requirements, and is negotiating with federal entities to obtain proper remediation at leaking storage tank and Superfund sites. She is a graduate of Harvard Law School and has a B.A. summa cum laude from Yale College.

### **Cindy Greene, Tennessee DEC**

Cindy Greene has worked with the state of Tennessee Division of Underground Storage Tanks in the Department of Environment and Conservation for over 24 years. She is the Deputy Director for Central Office Operations which includes oversight of technical development, LUST Trust/contract management, fees and notification, fund reimbursement, enforcement and division administration and has been in this position since February 2014. Previous to that she was the Corrective Action Program Manager for 9 years and was responsible for the development of the current risk-based corrective action program as well as development of various technical guidance documents for conducting site assessments and clean-ups, including investigating potential vapor intrusion from petroleum releases. In addition to these duties, she was also responsible for oversight of the UST Fund and the LUST/TRUST federal grant program. Prior to these assignments, she worked as a contamination case manager and compliance inspector in the Nashville environmental field office for 14 years. During her time in the field office, she was named TDEC employee of the month. Prior to her state service, she worked in private industry for 5 years as a process engineer at a pesticide/insecticide manufacturing plant. She graduated from Vanderbilt University with a degree in chemical engineering and holds a professional engineering license in the state of Tennessee. She is a 2007 graduate of the Tennessee Government Management Institute (TGMI).

### Anne Marie Gregg, Battelle

Ms. Anne Marie Gregg has 14 years' experience of relevant research experience in environmental science and environmental heath. Her understanding of environmental issues and analytical chemistry has supported multiple Battelle projects concerning air and water quality and human health and exposure. Her main interest is the improving our understanding of water resource monitoring as they pertain to contamination of ground water resources and ultimately human health protection. She has directed verification tests of commercially available technologies for the detection of contaminants in water (arsenic monitoring, enzymatic test kits, ground water samples, and microcystin test kits) and for the detection of leaks from underground storage fuel tanks (automatic tank gauging systems). She has a strong interest in biofuels research as it pertains to infrastructure

and compatibility issues with new fuels being used with equipment certified on older fuels. Currently, she is managing a project to investigate severe and rapid corrosion of storing and dispensing equipment related to ultra-low sulfur diesel service.

### Ryan Haerer, U.S. EPA OUST

Ryan is a member of EPA's Office of Underground Storage Tanks Release Prevention team, where he focuses on ensuring emerging fuels are compatible with the UST systems in which they are stored. Prior to joining the EPA, he served in the U.S. Army as a Combat Medic, deploying to Iraq in 2005-06, after running a small landscaping business. Originally from Dayton, Ohio, he graduated from Ohio State University and completed an M.A. in Energy, Resources and Environmental Policy and Economics from Johns Hopkins School of Advanced International Studies (SAIS). Outside of EPA, he works in climate resilient sustainable aquaculture and agriculture, and enjoys playing sports, golfing, and doing construction projects with salvaged materials. He lives in Washington, D.C. with his wonderful wife

### Todd Halihan, Oklahoma State University

Dr. Halihan is a Professor of Geology at Oklahoma State University and the Chief Technical Officer for Aestus, LLC. His expertise includes developing methods for site characterization using Electrical Resistivity Imaging and developing methods to integrate various hydrogeophysical datasets. He has geophysical experience including resistivity, electromagnetic methods, and ground penetrating radar. His hydrogeological experience includes developing analytical models for fractured and karstic aquifers and well testing techniques.

### Doug Hansen, Utah DEQ

Doug Hansen graduated with a Bachelor of Science in Chemical and Fuels Engineering from the University of Utah, and is a licensed Professional Chemical Engineer. He spent 13 years in the Utah Petroleum Storage Tank Fund program where he managed the investigation, remediation, and closure of over 250 leaking underground storage tank projects. He spent a year on special assignment with the Western Climate Initiative where he led a work group charged with developing a compliance verification program. Since 2009, he has managed the UST Compliance program for the State of Utah and has overseen the implementation of many of the Energy Act requirements and other process improvement projects.

### Michael Hawthorne, GEI Consultants

Mike Hawthorne is a Professional Geologist with Bachelor's and Master's degrees in Geology from Baylor University, and post-graduate work in Groundwater Hydrology from Wright State University. He began his career in 1988 with Groundwater Technology, moved to Texaco and then to KEI, before co-founding H2A Environmental, Ltd., which was acquired by GEI Consultants, Inc. He serves as the NAPL Practice Group Leader for GEI, and leads comprehensive LNAPL Conceptual Site Model development, pilot testing, and remediation programs. He is a past member of the Texas TRRP-32 and TRRP-12A NAPL guidance teams and the ASTM LNAPL transmissivity guidance team. He is a current member of the ASTM LCSM guidance update team. He founded Applied NAPL Science Review (www. NAPL-ANSR.com), and serves as editor and Review Board Chairman.

# 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. He is a professional geologist with a B.S. in Geology and an M.S. in Geological Engineering. He is a member of numerous standards making organizations and committees responsible for the development of various UST industry codes and practices. In addition, he is an instructor for a number of organizations providing training for contractors, regulators and owner/operators throughout the country. He brings 24 years of experience to the installation, operation, maintenance and management of UST systems and is widely recognized as an expert in the field.

### Brad Hoffman, Tanknology

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

### Zach Hope, Colorado OPS

Zach Hope supervises the Release Prevention Section of the Colorado Division of Oil and Public Safety, which implements and enforces regulations on USTs, ASTs, propane and other gaseous fuels, fuel quality, and point-of-sale accuracy. The Release Prevention Section focuses on encouraging compliance, minimizing the environmental impact of petroleum releases, and unifying the Division's Petroleum Program. Prior to supervising within the Petroleum Program, he spent several years in the Division's Remediation Section overseeing petroleum assessment and remediation projects and enforcing applicable release reporting regulations. Before joining the Division, he completed his environmental engineering undergraduate education at the Colorado School

of Mines and performed environmental consulting with a private firm.

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

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

### Shawn Howard, Citizen Potawatomi Nation

Shawn Howard currently serves as Assistant Environmental Director of the Citizen Potawatomi Nation located between Oklahoma City and Tulsa in central Oklahoma. She has been with the Tribe for almost 11 years, starting in the Office of Self Governance and moving to the Department of Environmental Protection to build the Tribe's environmental programs. She has been integral in expanding the Tribe's program capacity in various environmental media. Since 2008, the Tribe has conducted a baseline assessment of the quality of tribal surface waters through EPA's Clean Water Act Section 106 program. With this information, the Tribe is currently developing a watershed approach to pollution prevention through EPA's Clean Water Act Section 319 Nonpoint Source program. Under her tenure, the Tribe successfully negotiated an Environmental Cooperative Agreement with the state of Oklahoma, the first Tribe to do so under the 2005 Midnight Rider. The Tribe is currently seeking regulatory Treatment as a State for federal delegation of a Clean Water Act Section 303(c) Water Quality Standards program and a 401 Water Quality Certification program. Ms. Howard oversaw the successful completion of multiple air projects. Through EPA's Clean Air Act Section 103 program, the Tribe first completed an assessment of potential air pollution sources. From this assessment, the Tribe completed an air emissions inventory and subsequently partnered with the Cherokee Nation of Oklahoma to conduct ground-level ozone monitoring. Fostering partnerships with federal and tribal staff, she developed a proactive approach to managing underground fuel storage tanks at tribal facilities. Her environmental staff actively provides compliance assistance through ondemand and monthly monitoring of underground storage tanks and fuel dispensing systems. For these efforts, EPA Region 6 presented Ms. Howard with the UST Excellence Award "in recognition of noteworthy contribution beyond the call of duty to the R6 Tribal Environmental Program".

Ms. Howard currently serves as member-elect, representing EPA Region 6 tribes on the National Tribal Operations Committee. She also has served multiple terms as Vice-Chair and Secretary delegate to the EPA Region 6 Regional Tribal Operations Committee.

### **Matthew Jones, New Hampshire DES**

Matt Jones is the Underground and Aboveground Oil Compliance and Enforcement Subsection Chief within the Oil Remediation and Compliance Bureau of NHDES, overseeing the inspection program for underground and aboveground tanks, the UST Operator Training Program, and Safetank Program. He has been with the NHDES for 13 years performing such duties as hazardous and solid waste complaint investigation, emergency response, air stationary source inspections, underground storage tank inspections, aboveground storage tank inspections, and development and implementation of the UST Operator Training Program. Currently, he is the U.S. EPA Region 1 representative and Vice Chair of the ASTSMWO UST Task Force. He has a BS in Environmental Science from Lyndon State College.

### Mike Juranty, New Hampshire DES

Mike Juranty supervises the Oil Compliance Section of the New Hampshire Department of Environmental Services. The Oil Compliance Section is responsible for all aspects of the aboveground and underground storage tank leak prevention programs as well as the vapor recovery and Safetank programs. He has been involved in the tank programs for the past 15 years and before that worked in Solid Waste, Air Resources, and the Dept. of Transportation. He has served on the ASTSWMO UST Task Force and the Federal Regulations Workgroup and is currently a member of the National Work Group on Leak Detection Evaluations. He is a registered Professional Engineer and received his B.S. in Mechanical Engineering and his M.S. in Civil Engineering from the University of New Hampshire.

### Sofia Kaczor, Rhode Island DEM

Sofia M. Kaczor is a Principal Environmental Scientist with the RI DEM and a Certified Professional Geologist with AIPG. She has 28 years of experience in the environmental field. For the past 22 years, she has worked in the LUST Program at RI DEM managing the discovery, investigation and remediation of petroleum and hazardous product releases from USTs into the environment. She obtained her Bachelor's Degree in Geology from Barnard College and her Master's Degree in Geology from SUNY at Stony Brook (published thesis).

### Michael Kanner, Minnesota PCA

Michael Kanner is the manager of the Petroleum Remediation and Redevelopment Programs at the Minnesota Pollution Control Agency. He was a Project Leader for the predecessor of Minnesota's Superfund, then supervisor and manager of Superfund at its inception. He has actually managed all of Minnesota's cleanup programs twice over, including both Superfund and Petroleum Brownfield programs, the Closed Landfill Program, Emergency Response and NRD. He is passionate about completing cleanups. His education includes a Bachelor's degree in Geography from the University of Wyoming and a Master's degree in Ecology from the University of Minnesota. He is pleased to be talking to you today about a continuous improvement project to get >10 year old petroleum tank leak sites to closure or O & M.

# Clifford Knaggs, Knaggs, Harter, Brake & Schneider, P.C.

Mr. Knaggs is president of Knaggs, Harter, Brake & Schneider, P.C.. His practice focuses on representing petroleum distributors in Michigan and the Great Lakes Region. His environmental law expertise is extensive. He has been involved in Michigan's UST program since its inception in 1988. He was appointed to the UST Cleanup Advisory Board which issued its report to the MDEQ and Legislature recommending creation of a new state fund to assist owners and operators in meeting financial assurance requirements. He assisted Senate sponsors in drafting the legislation that created Michigan's new fund. He is a former Vice Chairman of the American Bar Association's Petroleum Marketing Committee and serves as general counsel for the Michigan Petroleum Association and Michigan Association of Convenience Stores.

### Erin Knighton, U.S. EPA OUST

Erin works in U.S. EPA's Office of Underground Storage Tanks in the Release Prevention Division. Her responsibilities include working on the regulation development team with a focus on previously deferred USTs and managing the NEIWPCC UST and LUST grants. She earned a B.S. in Biology from Albany State University and an M.S. in Environmental Policy and Management from American Military University.

### Nina Kondos, Retired Arizona DEQ

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

from Phoenix College.

### Fran Kremer, U.S. EPA Region 5

Dr. Fran Kremer is presently serving as the Senior Science Advisor with the U.S. EPA National Risk Management Research Laboratory, Office of Research and Development (ORD) addressing water resources. In ORD, she is working to incorporate a GIS-based approach to better identify sources of contamination and the potential for existing and future water resource impacts. She has previously served in various roles in ORD including the Associate Director and Assistant Laboratory Director, developing research to address contaminated sites and impacted water and land resources. She has formed and led internal and external research groups and developed public/private partnerships, nationally and internationally, to advance research in implementing technologies and solutions, in support of the Agency's Program Offices and Regions and State agencies.

### Jeffrey Kuhn, Montana DEQ

Jeffrey Kuhn is a hydrogeologist and program manager for the Montana DEQ overseeing the management of petroleum remediation sites, brownfields projects, and federal military base cleanups. He has led numerous technical task forces and work groups and frequently speaks on issues involving emerging contaminants and the use of innovative remediation technologies at complex contaminant sites. He serves on the Board of the Interstate Technical and Regulatory Council (ITRC) and has served on numerous ITRC Technical Teams. He has a B.S. degree in Geology and German Language from Juniata College, Huntingdon, PA and an M.S. degree in Geology from the University of Montana, Missoula, MT. He is an avid hiker, climber, and skier, and is periodically sighted in the backcountry of Glacier National

### **Matthew Lahvis, Shell Global Solutions**

Matt holds a Bachelor's Degree in Geology from Bucknell University, a Master's Degree in Engineering Geology from Drexel University, and a Ph. D. in Civil Engineering from Drexel University. His research focuses on quantifying fate and transport of petroleum compounds in the unsaturated zone at gasoline-spill sites. He joined the New Jersey District office of the U.S. Geological Survey in 1989 and 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 serves as Team Lead for the Soil and Groundwater R&D Program. He has published extensively on vapor transport in the unsaturated zone and has been serving as an Associate Editor for the Ground Water Monitoring and Remediation Journal since 2005.

### Roger Lamb, COLUMBIA Technologies

Mr. Lamb has a B.S. in Geology and an M.S. in Urban Environmental Geology. He has 30



years of experience in chemical release site characterization, environmental hydrogeology, and soil/groundwater remediation. Over the past 20 years he has performed pioneering work in the area of high resolution site characterization using direct sensing tools and the TRIAD approach process. This work is critical to reliable risk assessment and remediation feasibility, design and monetization projects. He is currently the U.S. Sales Manager for COLUMBIA Technologies and in this role helps clients use high resolution tools to meet project business goals, improve project outcomes, and guarantee results.

## Betty Lamp, Virginia DEQ

Betty Lamp is the Director of the Office of Spill Response and Remediation at the Virginia Department of Environmental Quality. She has worked at DEQ for over 29 years, 26 of which have been in the tanks regulatory program. Before taking the helm of the program in 2008, she was responsible for administration of the Virginia Petroleum Storage Tank Fund as well as processing Tank Reimbursement Claims and Tank Registrations. When she is not occupied with the daily operations of the Tank Compliance and Cleanup programs, she serves on committees such as the EPA National Tanks Conference Planning Committee and the DEQ's Steering Committee for converting documents to digital format (of which she is past chair).

# Michael Latin, Arizona DEQ

Michael Latin is the Manager for Arizona DEQ's State Lead Unit (State Lead Program). The State Lead Program manages site assessments and cleanup for releases from underground storage tanks when the responsible party is either Unknown, Unwilling or Unable to conduct those activities. He has been involved in Arizona's UST/LUST program for 20 years and has managed the State Lead Program for 15 years.

# Ray Leather, Cumberland Farms, Inc.

Mr. Raymond F. Leather, P.O.E., P.E., L.S.P., Vice President of Environmental and Regulatory Affairs for the Cumberland Gulf Group of Companies in Framingham, MA. He 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 participated as a member of API and state regulatory committees. He is currently a Member of the Board of Directors of the Independent Oil Marketers Association of New England and member of the Superfund Advisory Committee for the Massachusetts DEP. He has a B.S. in Civil Engineering from Merrimack College, an M.S. in Energy Management & Power from the University of Pennsylvania where he was a National Science Foundation Fellow; and,

an M.B.A. from the University of Houston. He is a Registered Petroleum Operations Engineer, a Registered Professional Engineer, and a Licensed Site Professional in the Commonwealth of Massachusetts.

# Russ Lewis, Marathon Petroleum Company LP Russ is involved in managing fuel quality from refinery to retail for most of 26 years in petroleum refining industry, including design/admin of oversight programs. He oversees a corrosion

refining industry, including design/admin of oversight programs. He oversees a corrosion mitigation lab as part of responsibilities and is an active member in several organizations including ASTM, CRC, NCWM, and SAE.

## Laura Luther, Missouri DNR

Laura Luther began with the Missouri Department of Natural Resources in 2004 as a Remediation Project Manager in the Tanks Section overseeing tank cleanup projects. In 2007 she accepted the position of Tanks RBCA Unit Chief. Prior to working for the Department, she was a Laboratory Technician and Laboratory Manager at environmental labs for 11 years. She received her Bachelor's of Science Degree in Chemistry from the University of Missouri - Rolla in 1993 and a Master's in Adult Education and Distance Learning from the University of Phoenix in 2006.

# **Dorothy Malaier, Alabama DEM**

Dorothy Malaier is the Chief of the Underground Storage Tank Corrective Action Section of the Alabama Department of Environmental Management. She is responsible for the oversight of the UST Corrective Action Program which includes the LUST Cleanup program and is a manager of the Alabama Underground and Aboveground Storage Tank Trust Fund. She has been a part of the Alabama UST program for over 23 years. She is an Alabama licensed Professional Geologist and is currently the vice-Chair of the ASTSWMO LUST Taskforce. She received her B.S. and M.S. in Geology from the University of Alabama.

### Darnell Manning, Georgia DNR

Darnell Manning is a Unit Coordinator for the Georgia Environmental Protection Division - Underground Storage Tank Management Program. With a BS in Chemical Engineering from Michigan State University, he has been with Georgia's UST Management Program since 1990. After working as an Environmental Engineer and Project Manager overseeing corrective action by both State and Owner led contractors, he took over as direct manager of the Corrective Action Unit with shared Trust Fund management responsibilities in 1996. He currently manages corrective action, enforcement and disbursements of \$22+ Million annually from the State Trust Fund.

# Jon Marinas, JMM Global

Jon Marinas is a company founder and current managing member of JMM Management Group, LLC d/b/a JMM Global. He is responsible for all company operations and oversight for the Illinois and California office. He has over 19 years of UST/AST regulatory management, operational compliance management, information management and health and safety representation. He holds a Bachelor of Science degree in Civil Engineering with an emphasis on Environmental Management from the University of California-Berkeley. He is also a Licensed Professional Engineer in Illinois, Texas, Florida, and Georgia. He previously served with BP Products North America Inc., as an in-house environmental manager which duties included oversight of BP's central business units' health and safety department as a prevention/assurance team lead and environmental team lead for BP's East of the Rockies operations; Tanknology as Vice-President of Corporate Services, Senior Project Manager and Unit Manager; Earl Sheib, Inc. as a health and safety assistant; Chevron Oil Company (during undergraduate studies) as an intern for Chevron's environmental health and safety department; United States Naval Petty Officer 3rd Class as a Weapons Specialist During Operation Desert Storm. He enlisted in the U.S. Navy through a Temporary Active Reserve (TAR) Program designed to provide financial aid to undergraduate students while taking an active role in defending America's freedom. He was honorably discharged with several naval citations and served in active reserves for the remainder of his military tenure. He has been an active member/ participant in the American Petroleum Institute (API) Management and Technology Conferences, Petroleum Equipment Institute (PEI), State Tank and Equipment Contractor Associations, UST Management/Compliance Seminars and numerous petroleum industry associations. He has been instrumental in shaping numerous Federal, State and Local Storage Tank Regulations. Through numerous submittals and presentations, he regularly advocates on behalf of JMM's client base. He and his team are participants in California CUPA and AQMD conferences. By serving through these various mediums, JMM's regulatory expertise becomes more recognized amongst the regulatory community. He also has an extensive background in Construction Management, and Project Management Systems. He is an instrumental part in the development of Internet/Web-Based Management Information Systems (MIS) for JMM's APEC, IPMS, IMS, OTP and SmartComply Database.

# Elizabeth McDermott, U.S. EPA OUST

Elizabeth McDermott has worked for the U.S. Environmental Protection Agency since 1997. She has been with the Office of Underground Storage Tanks since 2008 as the Team Leader for the revisions to the UST regulations.

# Jonathan McNeely, Tank Tech, Inc.

Jonathan McNeely is the Director of Corporate Communications for Tank Tech. With over a decade of experience in the UST/AST markets, he has been privileged to serve as the keynote

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

### Steven McNeely, U.S.EPA OUST

Steven D. McNeely is an EPS with the U.S. Environmental Protection Agency's (EPA) Office of Underground Storage Tanks (OUST). During his 28+ years, he has served as liaison officer for EPA Regions 2, 4, 5, 6, 8 and currently 9 coordinating efforts to improve the operation and performance of state UST/LUST programs. He currently serves as the team leader for the OUST Petroleum Revitalization Initiative The Petroleum Revitalization Team coordinates with other public and private stakeholders to help facilitate the assessment, cleanup and subsequent reuse of petroleum impacted sites. He is currently managing the development of a Long-Term Stewardship Best Practices guide to assist state programs in the development of new systems or to enhance current systems used to manage institutional and engineering control sites.

## Paul Miller, U.S. EPA OUST

Paul Miller is an Environmental Engineer in EPA's Office of Underground Storage Tanks. He received his Bachelor's and Master's degrees in Engineering Science and Mechanics from the Pennsylvania State University. 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 compatibility of UST systems with the regulated substance stored. He has worked in the Office of Underground Storage Tanks since 1994.

# **Drew Miller, Maryland DOE**

Drew Miller is Chief of the Remediation and State-Lead Division of the Oil Control Program at the Maryland Department of the Environment (MDE) where he and his staff are responsible for managing the assessment and remediation of over 700 active cases. He received his Bachelor of Science degree in Geology from Colorado State University and spent more than 20 years in the environmental consulting field dealing primarily with petroleum impacted sites prior to joining the MDE in 2012.

## **Read Miner, South Carolina DHEC**

Read Miner is a Hydrogeologist with the South Carolina Department of Health and Environmental Control Underground Storage Tank (UST) Management Division. He received his BS degree in Geology from Furman University, and completed additional post-BS studies in Geology at the University of Arkansas and Sul Ross State University. He is a SC Registered Professional Geologist. He has worked with the UST Division for 27 years and has coordinated corrective action activities at hundreds of UST facilities. He has also contributed to the development of South Carolina's Risk-Based Corrective Action, Pay-for-Performance corrective action procedures, and improved methodologies for removal of LNAPL from the subsurface. He has been a speaker in past conferences regarding fuel additives and lead scavengers.

#### Lee Monts, South Carolina DHEC

Lee Monts has been employed by the Underground Storage Tank Management Division of the SC Department of Health and Environmental Control since 1990. He has been in a management position since 1996, and he currently manages 10 geologists in the Corrective Action Section. Lee has provided several presentations on Pay for Performance at past National Conferences and to UST Programs in Montana, Vermont and New Hampshire.

#### Marcel Moreau, Marcel Moreau Associates

For the past 30 years, Marcel Moreau has been studying, writing, 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 L.U.S.T.Line since its inception.

# Kristi Moriarty, National Renewable Energy Laboratory

Kristi Moriarty has 12 years of experience evaluating, developing, and deploying bioenergy projects, including extensive knowledge of refueling system equipment and compatibility with biofuels. She is the author of numerous studies and reports analyzing the biomass resource, fuels and energy markets, economics, and policies for biofuels, biopower, and anaerobic digestion facilities. She has a Master's degree in renewable energy systems technology engineering from Loughborough University, a graduate diploma in biomass energy from Universidad de Zaragoza, and a Bachelor's degree in biology from Virginia Tech.

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

Marshall Mott-Smith is the President of The Mott-Smith Consulting Group and the Vice President of The National Institute for Storage Tank Management. He has worked with storage tank systems since 1983, and was the Florida DEP Storage Tank Regulation Section Administrator from 1986-2008. He was instrumental in developing Florida's Compliance Verification Program, writing Florida's rules for secondary containment, bringing flex-pipe problems into public view, and establishing Florida's Leak Autopsy Studies. He is an international expert in Aboveground and Underground Storage Tank Systems. He has testified before four Congressional Committees, given hundreds of presentations, and has written numerous articles for national and international publications. He is on the UL 971 and 1856 Reference Standard Committees, and is an STI SP-001 Certified AST Inspector.

#### Leo Mullin, Environmental Liability Assessment

Leo Mullin is the President of a company that conducts ability to pay analyses and responsible party search activities. Prior to October 2013, he was a Cost Recovery Expert for EPA Region 3. He joined EPA as a Civil Investigator in 1989. While working for EPA, his responsibilities include conducting potentially responsible party searches; assisting with cost recovery complaints; and making determinations on liability issues such as corporate veil piercing, corporate successor liability, allocation of liability, ability to pay, and financial assurance. He also assists in responding to questions concerning the potential liability of purchasers of contaminated property. He has testified as an expert witness on issues such as ability to pay, property valuation, the cost of site cleanups, and allocation of responsibility for site

# Andrew Murray, U.S. EPA ORD

Andrew Murray is a second year graduate student at the University of Cincinnati studying Geography with a focus in GIS and hydrology. He was awarded a traineeship at the U.S EPA and will be completing his M.S. in April 2016. Currently, he is working with a research group at EPA working on identifying methods utilizing GIS to determine potential risk of contamination to private domestic water wells from leaking underground storage tanks. His interests are spatial analysis of environmental issues with a specific interest in water resources.

# John Olko, New Jersey DEP

John has been with the New Jersey DEP for 24+ years. During his time with the Department he has been involved with multiple DEP programs and has managed multiple complicated enforcement cases. For the past 10 plus years he has been in the Underground Storage Tank Inspection Program. He assisted in developing New Jersey's inspection program and continues to provide training and compliance assistance. He currently supervises the Northern & Southern Underground Storage Tank Field Offices. Their Office conducts inspections at approximately 4200 regulated facilities. He is currently the Chair of the ASTSWMO UST Task Force and represents U.S. EPA Region 2.

## Russ Olsen, Washington PLIA

Russell E. Olsen was appointed as Director of the Washington State Pollution Liability Insurance Agency (PLIA) in May 2013. He received a Bachelor of Arts in Political Science and Criminal Justice from St. Martin's College, and a Master's Degree in Public Administration from Seattle University. He also holds a position as a Commissioner for the Thurston County Public Utilities District. Prior to his appointment as Director, he served as the Northwest Regional Voluntary Cleanup Program (VCP) Unit Supervisor for the Department of Ecology's Toxic Cleanup Program and was responsible for ensuring cleanup actions met state and federal requirements. During his time as the VCP Unit Supervisor, he oversaw the implementation of five Multi-site and Technical Assistance Agreements with major oil companies, encompassing over 200 leaking underground storage tank sites, and served as project lead for multiple EPA grants. As the Director of the PLIA, Russ has come back to his roots, where he began his career in 2002 within the environmental field as an Environmental Specialist, and later the agency's Commercial Underground Storage Tank Reinsurance Program Manager. He also served as the PLIA's rules coordinator and legislative liaison developing policy recommendations and potential legislation. Russ' experience has given him a well-rounded and solid understanding of the regulations surrounding environmental cleanup, as well as, financial responsibility for underground storage tanks.

# **Diane Parks, Defense Logistics Agency**

Diane is an Environmental Protection Specialist for Defense Logistics Agency Installation Support for Energy. She is the Program Manager for a centrally managed leak detection program for DLA. This program encompasses leak detection testing and maintenance of airport hydrant systems, field constructed underground storage tanks and military service stations on a worldwide basis. She works with the Energy offices for the Navy (Marines), Air Force and Army, along with the DoD fuel facilities to conduct the testing and ensure environmental compliance. She has been with the Defense Logistics Agency Installation Support for Energy, working as an Environmental Protection Specialist for 10 years and has worked as an Engineer with the DoD for an additional 20 years. She received her Bachelor of Science degree in Civil Engineering from West Virginia University.

# Mike Pecorelli, Utah DEQ

Mike Pecorelli has been a Project Manager since 1996 at the State of Utah in the Petroleum Storage Tank Trust Fund, Division of Environmental Response and Remediation, Department of Environmental Quality, Salt Lake City, Utah. He has been the Project Manager for over 220 releases and 187 of those releases have been closed out. He earned a Bachelor of Science degree from the University of Utah in Metallurgical Engineering in 1993. Before working for the State of Utah,

he worked at the Bureau of Mines (1993-1996) conducting research in the remediation of petroleum contaminated soil sediments from the Chicago River and remediation of lead contaminated soil from military firing range berms.

## Thu Perry, Hawaii DOH

Thu is a graduate of Western Washington
University in Environmental Science. Public
Participation Coordinator for the UST Department
in the Solid & Hazardous Waste Branch of the
Hawaii Department of Health for the last four
years. During this time, he helped facilitate the
crafting and implementation of the latest round of
UST rule changes. He presented for the regulated
communities on the Big Island, Maui, Oahu
and Kauai. Currently, working on a negotiated
agreement with the Navy to address a fuel release
from their field constructed tanks in Red Hill, which
holds over 200 million gallons of fuel.

## Heather Peters, Missouri DNR

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

# David Piercey, JD2 Environmental Inc.

Mr. Piercey is a Vice President and co-founder/ owner of JD2 Environmental, Inc., where he manages storage tank programs for various commercial clients and government agencies. He has over 30 years of experience throughout North America working on tank design, inspection, and training. He lectures for various training organizations, as well as for private companies on storage tanks and SPCC issues. He is co-author of two books, UST Management: A Practical Guide, 5th Edition, and AST Tank Management and SPCC Guide, 2nd Edition. He is a certified STI SP001 Inspector and is a member of the PEI RP900 and RP100 committee for tank inspections and installations. He holds a Bachelor Degree from Neumann College, as well as many professional and state certifications.

# Michael Pomes, U.S. EPA Region 7

Michael L. Pomes works as an Environmental Scientist in the Storage Tank and Oil Pollution Branch in the Air and Waste Management Division of EPA Region 7 in Lenexa, Kan. Before coming to EPA in September of 2010, he supervised the Preventative UST Unit of the Storage Tank Section at the Kansas Department of Health and Environment for 10 years that ran the permitting program for USTs and ASTs in Kansas. He received a Ph.D. in Geology from the University of Kansas, Lawrence, an M.S. degree in Geology from Fort Hays State University, Hays, Kan., and a B.S. degree in Geological Sciences from the University of Wisconsin-Milwaukee. He is a Kansas Licensed Geologist and a NACE-Certified Cathodic Protection Technician (CP2).

# Richard Porter, U.S. EPA CID

Special Agent Richard Porter has been employed with the U.S. Environmental Protection Agency - Criminal Investigation Division for over 13 years and he has been doing investigative work for the Federal Government for over 15 years. He has worked directly for the Federal Government for over 17 years and has worked in contract roles for an additional 2-3 years. He holds a B.S. and M.S. from the University of Michigan.

#### Lynda Provencher, Vermont DEC

Lynda Provencher has worked for the Vermont DEC, Waste Management and Prevention Division in the Sites Management Section for approximately 20 years. Since the early 1990's, she has been coordinating the Annual State Fund Survey updates, and has often presented the results of the survey in various workshops and conferences. When not working on the State Fund Survey, she is a State Project manager and works on petroleum, non-petroleum, and Brownfields sites.

### 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 Waste Programs Division at AZDEQ. He focuses on providing technical and regulatory training for staff and stakeholders. He has an M.S. degree in geology and 20 years of experience working on LUST and Superfund sites.

# Thomas Rejzek, Santa Barbara County EHS

Thomas Reizek is the Professional Geologist and Certified Hydrogeologist for the Santa Barbara County's Leaking Underground Fuel Tank Program, where he performs regulatory oversight for the investigation and remediation of contaminated soil and groundwater sites. Prior to joining Santa Barbara County in 1999, he worked in environmental consulting, primarily focusing on the investigation and remediation of contaminated sites. He also performed hydrogeologic studies and water production well installation. During this time, he worked on sites in California, Nevada, Arizona, Utah, Florida, Minnesota, Guam, and the Gaza Strip. Prior to environmental consulting, he briefly worked as a Formations Evaluation Geologist in the oil

exploration field. He earned B.A.s in Geological Sciences and Geography from the University of California, Santa Barbara in 1987.

#### **Bob Renkes, PEI**

Bob Renkes is executive vice president and general counsel of the Petroleum Equipment Institute, based in Tulsa, Oklahoma. He has been with PEI since 1979, which makes him old.

## Doug Reske, Texas CEQ

Doug has a Bachelor's of Science Degree in Resource and Environmental Studies from Southwest Texas State University. He began with the TCEQ (TNRCC at the time) as an Environmental Investigator in the DFW Regional office in March of 1996. He briefly tried the Air program for a few months in 2001, but luckily came back to his senses and applied for and became the PST/Stage II Team Leader for the Region and continues in that role today. Over the years, he has been involved in several rule change packages, including a major SIP revision to the Stage II program in 2002, and most recently the Stage II Vapor Recovery Decommissioning and Stage I rule packages. He is a valued and a much sought out resource for both private Industry and TCEQ management and staff from around the State and will play a prominent role in the coming months now that the new PST rules have been finalized.

#### **Charles Reyes, ASTSWMO**

Charles Reyes is a Senior Program Manager at the Association of State and Territorial Solid Waste Management Officials (ASTSWMO). ASTSWMO is an association representing interests of State environmental regulators from the 50 U.S. States, five territories, and the District of Columbia (States). He manages the research and projects of ASTSWMO's Tanks Subcommittee and Federal Facilities Research Center, and works closely with States, U.S. EPA, Department of Defense, and other federal agencies to provide policy and technical training to States related to tanks and federal facility restoration and reuse programs. Prior to working with ASTSWMO, he worked as a consultant for federal and State agencies conducting research and investigations required under CERCLA, the Defense Environmental Restoration Program, and State regulatory programs. He received his B.A. in Political Science from the Virginia Polytechnic Institute and State University (Virginia Tech) in 2004.

#### Eric Richardson, The City of New York

Mr. Eric Richardson is the Deputy Chief Fleet
Management Officer for the New York City
Department of Citywide Administrative Services,
NYC Fleet. He oversees the management and
implementation of New York City's first citywide
fuel management system, the implementation
of fuel and vehicle event tracking through
CANceivers, and works with Dr. Ramona LedesmaGarrido in regard to the current Biodiesel
Implementation Program and the B50 pilot. He

also helped to create the citywide fuel emergency plan and worked closely with NYS OEM, NYC OEM, and the National Guard during emergency fueling operations after Hurricane Sandy.

#### Rebecca Ridenour, Montana DEQ

Rebecca Ridenour has been the section supervisor for the Petroleum Tank Cleanup Section at the Montana Department of Environmental Quality for the last 6 years. Prior to working in the tank cleanup world, she worked in the wastewater permitting section and the water quality section at the MT DEQ. Before going to graduate school, Rebecca spent time underground as a gradecontrol geologist in both Nevada and South Central MT.

#### Todd Ririe, BP

G. Todd Ririe is environmental technical specialist with BP's remediation technology group in La Palma, CA. He has worked at BP since 2006 and prior worked for 24 years for Unocal. He provides technical support to operations primarily on the West Coast and as needed throughout various business units. He has a BA degree in geology from Cornell College, and PhD degree in geology from the University of Iowa and is a registered professional geologist in California. He has over 25 years of experience in applied geology, geologic instruction, and environmental applications of geology. Since 1990, his primary responsibility has been on environmental projects primarily focused on petroleum hydrocarbon site assessment, vapor intrusion, and application of effective remedial approaches to reach closure.

# Warren Roan, Navajo Nation EPA

Warren J. Roan is employed with the Navajo Nation **Environmental Protection Agency Underground** Storage Tank Program located in Window Rock, AZ. He has been the UST inspector with the tanks program for eleven years. He obtained his B.S. in Environmental Science from Haskell Indian Nations University in Lawrence, KS. He conducts inspections on the Navajo Nation Indian Reservation that compasses 25,000 square miles with 100 operating UST facilities and 30 operating AST facilities. The Navajo Storage Tank Program will soon be issuing tribal field citations to non-compliant storage tank facilities once the legislation for the tribal regulations is approved by the Navajo Nation Council. He is a member of the Navajo Nation Indian tribe and is originally from Oakridge, AZ.

# John Robertson, Arizona DEQ

Education: BS Geology Arizona State University (1981); MS Geology Arizona State University (1986) Professional Registration: Registered Geologist (Arizona) Employment History: Hydrogeologist for the Arizona Department of Environmental Quality (1986-Present); Current Assignment: Supervising cleanup of hydrocarbon-impacted soil and groundwater resulting from leaking underground storage tanks for the ADEQ Waste Programs

Division, Corrective Actions Section, State Lead

#### Tara Rosie, Arizona DEQ

Tara Rosie manages Arizona DEQ's LUST/corrective action program. She previously served as the state LUST cleanup fund administrator and has been involved in Arizona DEQ's UST program for 17 years. Prior to joining the state, she worked as an environmental consultant in Arizona, Texas and Ohio. She is currently a member of the ASTSWMO Emerging Fuels Task Force and was previously a member of the ASTSWMO State Fund - Financial Responsibility Task Force.

# **Patrick Rounds, PMMIC Insurance**

Patrick Rounds, President of R&A Risk Professionals is also President and CEO of PMMIC Insurance Company, a property and casualty insurance carrier specializing in environmental liability insurance for petroleum storage tank systems. He is the former Administrator of the Iowa UST Fund with over 25 years' experience in the petroleum UST industry. He has worked with numerous state UST funds to evaluate program performance and develop long-term solvency solutions. He is a frequent speaker on topics related to tank operations, loss control, risk financing and program management.

# Mitch Scheel, Oregon DEQ

Mitch Scheel is the Underground Storage Tank Policy Coordinator for the Oregon Department of Environmental Quality. He has worked in the Tanks Program for 21 of the 22 years he has worked for the Department. His current responsibilities include creating and revising guidance and policy, legislative coordination, rule writing and technical interpretation. He is also an afterhours duty officer for the Department's Emergency Response Program and is currently a member of ASTSWMO's State Fund-Financial Responsibility Task Force.

# Craig Schroer, Indiana DEM

Craig Schroer works for the Indiana Department of Environmental (IDEM) as the Underground Storage Tank Branch Chief. He is responsible for managing the UST compliance, LUST corrective action and State Fund programs. He has more than 30 years of environmental management experience in local and state government. Prior to his current position, he managed other IDEM environmental response programs including Emergency Response, State Cleanup, Voluntary Remediation and Leaking UST Sections.

# Tom Schruben, ACRM, LLC

Tom Schruben is an environmental risk management consultant and a Partner in American Cost Recovery Management, LLC. 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 States with release prevention and corrective action issues. He has helped develop many of the ASTM site assessment and

remediation standards. He joined the insurance industry in 1992 and directed the environmental division of United Capitol Insurance Company. Since 2000 he has consulted on UST failures, risk management and State Fund cost recoveries.

**Matthew Schuessler, Franklin Fueling Systems** 

Matthew Schuessler has 23 years invested in the petroleum equipment business. He has held various sales, marketing, analyst, and construction/ maintenance positions with companies such as Gilbarco, ConocoPhillips, MECO, and Worsley. Prior to entering this field he served in the USAF, including Operation Desert Storm. In January, 2008 he joined Franklin Fueling Systems, a division of Franklin Electric, a \$1B publicly traded company (NASDAQ: FELE). He holds an Associate degree in Avionic Systems, and a Bachelor degree in Business Information Systems. In May 2000 he was interviewed by Scientific America for an article titled Fill 'Er Up, exploring the advancement of RFID technology in the retail petroleum sector. He resides in northern California and oversees business in Arizona, northern California, and northern Nevada.

## **Chuck Schwer, Vermont DEC**

Chuck Schwer is currently the Director of the Waste Management and Prevention Division. This Division oversees the Solid and Hazardous Waste Programs, Underground Storage Tanks, Salvage Yards, and the Site Cleanup Program (Superfund, RCRA, Brownfields, and LUST). He was formerly the Program Manager of Vermont's Site Cleanup Program where he served in this capacity for 27 years. He was also the manager of Vermont's Petroleum Cleanup Fund. He remains a member of the state's Hazardous Materials Response Team. He received an M.S. from University of Vermont and a B.S. from St. Lawrence University. He is married with two children.

# Sandra Siler, U.S. EPA Region 5

Sandra Siler, has been employed with the United States Government since 1984. From 1984-1988 she worked for the U.S. Railroad Retirement Board as a claims examiner. 1988 to present she has worked for the U.S. Environmental Protection Agency. Since 1991 she has been an Enforcement Officer for the Underground Storage Tank Section conducting environmental inspections for the Region 5 Chicago Office. She is also the State of Michigan Program Manager as well as the Tribal Coordinator for the State of Michigan. She is also part of U.S. EPA's Emergency Response Support Corps., with deployments to Hurricane's Katrina and Rita in Louisiana, as well as the Marshal Oil Spill in Michigan.

# **Danae Smith, Defense Logistics Agency**

Danae Smith is the Environmental Protection Specialist for the Naval Supply Systems Command Energy Office (NAVSUP Energy). NAVSUP Energy is the liaison between the Defense Logistics Agency (DLA) and the Navy and the USMC for DLA bulk fuels on the bases. She works with the sites to ensure the fuel farms are in environmental compliance by conducting internal audits and assists the sites in obtaining DLA environmental funds. She has been with NAVSUP Energy for 3 years, and has worked as an environmentalist with the DOD for an additional 3 years. She received her Bachelor's degrees in Environmental Sciences and Political Science from California State University Long Beach and her M.S. in Environmental Sciences and Management at UC Santa Barbara.

# Grant Smith, Burns & McDonnell Engineering Company

Grant is a Principal at Burns & McDonnell Engineering Company, Inc. and is the Director of Commercial Fueling & Aviation Services in the Aviation & Federal Division. He is responsible for the design and construction of fueling systems for commercial and military clients around the world. Burns & McDonnell has the largest group of fueling engineering specialist in the United States with over 70 professionals in this group. He received his Bachelors of Science Degree in Geology in 1987 and his Master's Degree in 1990 from the University of Iowa. He has been with Burns & McDonnell for 25 years working primarily at airport and aviation facilities. He transitioned his knowledge of aviation fueling systems from performing environmental investigations and remediation to managing projects that replaced or upgraded these systems.

## Tim Smith, U.S. EPA OUST

Tim is a member of the Release Prevention
Division at the 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. He is also the Team Leader of
the National Work Group on Leak Detection
Evaluations' Interstitial Monitoring and Out-ofTank Detector Methods Team.

# Lori Spagnolo, Delaware DNREC

Lori has been the Corrective Action Program Manager for the State of Delaware for 2 years. Working with a staff of 5 hydrologists, she is responsible for all aspects of both responsible party and state lead projects, including site clean-up, financial assistance, and enforcement. In addition, the State of Delaware has recently implemented a Heating Fuel Closure Assistance Program to eliminate potential releases from abandoned residential heating fuel tanks. With a strong background in policy and management, she has worked for several environmental agencies and organizations throughout her career including the Delaware Nature Society, the National Aquarium in Baltimore, and the EPA's Chesapeake Bay Program. She possesses a Master's in marine policy from the University of Delaware and a B.S. in Environmental Studies from Cook College, Rutgers University.

#### Richard Spiese, Vermont DEC

Richard Spiese is a project manager with the Vermont Department of Conservation's Waste Management Division, where he has worked since 1987. He has worked on over 500 hazardous waste sites in that time. He is also a member of the Agency's Spill Response Team and a member of the Vermont Hazardous Materials Response Team. He has worked on regional issues with Northeast Waste Managers Official's Association for over a decade and on national issues as a member and LUST Task Force Chair with the ASTSWMO for 15 years. He has also worked on planning for the National Tanks Conference for many years.

#### Karen Stachowski, Tennessee DEC

Ms. Stachowski is currently a Deputy General Counsel with the Tennessee Department of Environment and Conservation, Office of General Counsel. She has been with the Department for approximately 16 years. She has held various positions with the Department over the years, including Deputy Commissioner, Assistant Commissioner, and Assistant General Counsel. In addition to working for the Department, she was an Assistant Attorney General in the Enforcement & Special Prosecution Division of the Tennessee Office of the Attorney General & Reporter, and was senior legal counsel with the firm of Waller, Lansden, Dortch & Davis.

## Jennifer Strauss, Colorado OPS

Jennifer Strauss has been an environmental regulator in Pennsylvania and Colorado for the past ten years, joining the Colorado Division of Oil and Public Safety in 2012 as an Environmental Protection Specialist. She obtained her Bachelor of Science degree from Temple University in 2002 with a focus on geology. She was President of the Harrisburg Area Geological Society from 2009 to 2012. Some of her hobbies include hiking, rockhounding, making jewelry, and playing the piano.

# Kevin Strohmeier, Kentucky DEP

Kevin Strohmeier manages responses to UST emergencies and compiles data on over 600 suspected release reports per year for Kentucky. He has over 20 years' experience in the UST world, ranging from consultant, reimbursement, compliance, and response. He is working on a UST emergency preparedness plan that pulls together the isolated capabilities of several different agencies into a unified response.

### Karen Sullivan, U.S. EPA OSWER

Karen Sullivan is an Economist at the U.S. EPA's Office of Solid Waste and Emergency Response's (OSWER) Center for Program Analysis. Previously, she was an AAAS Science & Technology Policy fellow in the same office. She uses her expertise in economics and statistics to guide OSWER program and policy impact analyses and to provide technical advice on data issues. Prior to joining EPA, she conducted research on forest

policy in China and sustainable livelihoods in Tanzania. She earned her Doctorate's degree in Environmental and Natural Resource Economics from the University of Rhode Island in 2011. She also holds a MA in Economics from the University of Connecticut and a BA in Economics from Framingham State University.

#### Jennifer Tabanico, Action Research

Jennifer Tabanico is President and co-founder of Action Research, a firm that specializes in changing behavior for the public good by applying marketing and social science research to outreach programs that promote clean, healthy, and sustainable communities. She has a Master's in Experimental Psychology and more than a decade of experience developing and implementing behavior change programs. Her most recent clients have included the City and County of San Diego, the New York State Energy Research and Development Authority (NYSERDA), the Urban Sustainability Directors Network (USDN), the American Forest Foundation, and the Oregon Coast Aquarium. Jennifer's work has been published in a variety of technical and academic outlets including the Journal of Environmental Psychology, Social Influence, Criminology and the Handbook on Household Hazardous Waste.

## **Brett Tavener, Kansas DHE**

Brett Tavener is an Environmental Scientist in the Storage Tanks Section at the Kansas Department of Health and Environment. He is a project manager in the Remedial Unit, responsible with the investigation and remediation of leaking petroleum underground storage tank sites. He also oversees the installation and operation of treatment systems on municipal and private water wells impacted by petroleum releases. He has worked for KDHE for 13 years and has a B.S. in Environmental Science from the University of Nebraska-Lincoln and an M.S. from the University of Northern Iowa.

# Perry Theriot, Louisiana DEQ

Perry Theriot is currently employed as the Supervising Attorney in the Legal Affairs Division of the Louisiana Department of Environmental Quality with responsibility over Enforcement and Remediation. He serves as legal counsel for the Louisiana Motor Fuels Underground Storage Tank Trust Fund Advisory Board. In his past, he has served as Ombudsman for the Department, has acted as Legal Supervisor of the Permits Section, and as Bankruptcy counsel. He is a member of ASTSWMO's Aging Tanks Task Force.

# Ben Thomas, USTtraining

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 the 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.

# **Todd Thompson, Texas CEQ**

Todd Thompson is the team leader of the Texas Commission on Environmental Quality (TCEQ), Houston Region Petroleum Storage Tank, Stage II and Emergency Response Team. The team provides regulatory evaluation of Petroleum Storage Tanks through compliance evaluations and emergency response situational oversight. He has worked for the TCEQ for ten years. Prior to joining the TCEQ he was employed in the organics recycling/solid waste industry and taught biology and environmental science courses at a community college in Albuquerque, NM. He is currently a member of the ASTSWMO Underground Storage Tanks Task Force.

## Erick Thorson, Michigan DNR

Detective Erick Thorson has served with the Environmental Investigation Section of the Michigan DNR Law Enforcement Division since 2012. He has been a law enforcement officer for over 20 years. Prior to joining the DNR he served as a Deputy Sheriff in northern Michigan and a Police Officer in northern Idaho. He is a graduate of Northwestern Michigan College and Michigan State University.

# Scot Thrash, Titan Cloud Software

Scot Thrash is COO of Titan Cloud Software, the petroleum industry's leading software provider, where he leads software operations and business development including deployed cloud solutions at over 30,000 petroleum locations. A recognized industry expert, he has served as Senior Environmental Compliance Specialist for Enterprise Holdings, the world's largest fleet operator, where he led centralized underground storage tank (UST) and above ground storage tank (AST) compliance management initiatives. He is a member of the Petroleum Equipment Institute, Conexus, the International Facility Managers Association, and is a noted speaker on the topic of environmental compliance.

## Michael Trombetta, Montana DEQ

Mike Trombetta, Chief of Montana's Hazardous Waste Cleanup Bureau, is responsible for overseeing the investigation and cleanup of facilities in the LUST, State Superfund, Water Quality Act, and Brownfields Programs. He holds a BS in Geology from the University of Vermont, a MS in Earth Sciences from Montana State University, and a MSS from the US Army War College, and has worked for the Department of Environmental Quality for over 26 years.

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

Ted Unkles has worked for the State of Vermont's UST program for 25 years. He began working as a field inspector in 1990. In addition to his UST duties, he is a member of the DEC Spill response team, and he is also a member of the Vermont Hazardous Materials Response Team. He has a Bachelor's degree in Earth Science, and a Master's

Degree in Natural Resource Management. He also serves as Chairman of the Selectboard of the Town of Bradford, Vermont. Since the town has an underground tank containing diesel fuel at its highway maintenance garage, he occasionally gets to view the UST Program from the point of view of the regulated public.

#### Terry Wadsworth, Montana DEQ

Mr. Terry Wadsworth is Executive Director for the Petroleum Tank Release Compensation Board which administers Montana's petroleum tank release cleanup fund, a state special revenue fund that assists certain tank owners and operators with petroleum release cleanup and meeting financial assurance requirements under state and federal law. He has over thirty years of experience in the environmental industry carrying out diverse technical and managerial roles. He has authored several technical papers in environmental journals, conducted many training classes, and made numerous conference presentations. He received his Master's of Science degree in Information Systems from George Mason University and his undergraduate degree in Mathematics and Statistics from Montana State University.

# Tom Walker, U.S. EPA OUST

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

# Alexander Wardle, Virginia DEQ

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

# Jim Weaver, U.S. EPA Region 6

Jim Weaver received Master's 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 over 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.

#### Spruce Wheelock, New Hampshire DES

Spruce, has been with DES since 1992 as Compliance Coordinator/Inspector of under and aboveground storage tank facilities. Work encompasses field inspecting facilities for compliance and witnessing Vapor Recovery testing. At the State's monthly A&B Operator Training classes, he teaches overfill, corrosion protection, and leak monitoring. He has taught at the NEIWPCC Regional UST Inspectors' Training, ASTSWMO, and National Tanks Conference's. He holds an Associate Civil Engineer Water Quality degree from Vermont Technical College. In his prior years before DES as Associate Civil Engineer he designed and inspected sewer, water, septic systems, roads and site designs, along with commercial plumbing. He also designed and inspected underground petroleum tank systems.

## Jeff White, Iowa DNR

Jeff is a certified groundwater professional and well contractor in lowa and a professional geologist in Kansas and Nebraska. He has 7 years as petroleum geologist, 15 years as an environmental consultant specializing in LUST work, and 10 years as a regulator and corrective action specialist/conference facilitator for the UST Section of the lowa DNR. He is a member of the National Ground Water Association and has served on the Board of Directors of the lowa Ground Water Association and as President and Program Chair of Environmental Professionals of lowa. He is transitioning from the Corrective Action Specialist to the Enforcement Coordinator for the UST Section.

# Jason Wilde, Utah DEQ

Jason Wilde is an Environmental Scientist with the State of Utah's Department of Environmental Quality. He has been Compliance and Cleanup Project Manager with the Underground Storage Tank Program since 1999. His additional specialties include Environmental Risk Assessment and Severity Analysis, Public Outreach and GIS specialist. He also serves in the United States Military as an Army Officer and has deployed to Afghanistan twice as an embedded tactical military and police advisor. He is married with 6 children.

## Jacquee Wilson, Colorado OPS

Jacquee Wilson is the communication coordinator for the Colorado Division of Oil and Public Safety. She provides training on various communication skills, serves as the Division's webmaster, oversees planning for outreach events and ensures that the OPS mission (to protect the public and our environment) is effectively presented in all OPS media. She has a Master's Degree in Communication Studies, and she taught and researched in this field for eight years before coming to OPS four years ago.

## **Edward Winner, Kentucky DEP**

Edward Winner has been the manager for

Kentucky's Underground Storage Tank Branch since 2011. He started his employment with the Commonwealth of Kentucky in the Risk Assessment Branch where he conducted, examined, and approved risk analyses for a variety of industrial and commercial sites across the state. In 2007, he joined the Paducah Gaseous Diffusion Plant Section, becoming supervisor and Federal Facilities Agreement Manager. He came to state government from the University of Louisville, Lion's Eye Research Center where he had been a postdoctoral fellow. He has published peer review articles and white papers on a variety of topics such as the mechanisms of acrylonitrile toxicity, slow adapting receptors in the lung, probabilistic modeling for the determination of ground water plume 1/2-life, analysis of monitoring well data for comingled plumes, and anthropogenic background of inorganic elements in Kentucky. He has a B.A. from Tennessee Temple University, and B.S. and Ph.D. from the University of Louisville. He also pursued additional studies at the University of Louisville, Brandeis School of Law.

## Tiffany Yee, Arizona DEQ

Tiffany Yee was formerly an ADEQ UST inspector before joining the UST Corrective Action Section at ADEQ. She has worked at ADEQ since 2012. She is involved in the efforts to improve release source and cause data collection and analysis in order to assist Arizona's UST owners and operators with their leak prevention efforts.

## Dan Yordanich, Michigan DEQ

Dan received a Bachelor of Science degree in Geology from Michigan State University, and has over 25 years of experience in the regulation and enforcement of public health and environmental statutes. He is currently an Enforcement Specialist with the Remediation and Redevelopment Division of the Michigan Department of Environmental Quality with responsibility for coordination enforcement cases involving leaking underground storage tanks, state-wide institutional control implementation, and the development of policies and procedures and rules. When he isn't working he actively seeks outdoor adventures, and owns a small company performing residential inspections.

# Peter Zack, Connecticut DEEP

Peter Zack is the Assistant Division Director of the Emergency Response and Spill Prevention Division at the Connecticut Department of Energy and Environmental Protection (DEEP). He has worked for the Department for 32 years. His responsibilities include oversight of several permitting, enforcement, inspection, remediation and site assessment programs including underground storage tanks, marine terminals, PCB's and site assessment and support. In 1988 he began working in the Leaking Underground Storage Tank program managing the investigation of soil and groundwater contamination and cleanup of releases. Over the 27 years working in the LUST and UST programs his interests

included the development and implementation of rapidly deployed field analytical methods and investigatory approaches for emergency oil and chemical spill response. His current interests include developing E government solutions to maintain and improve environmental protection outcomes in a time of decreasing staff levels. He earned an M.S. in environmental science from the University of New Haven and a B.S. in biology from the University of Connecticut.

#### Julio Zimbron, Colorado State University

Education: B.S. Biochemical Engineering (1992), Monterrey Technical Institute, Mexico M.S. Chemical Engineering (1996), Colorado State University Ph.D. Chemical Engineering (2000), Colorado State University Dr. Julio Zimbron is research faculty at CSU and has worked in consulting and industrial R&D for environmental engineering applications since graduating in 2000. He is also the founder of E-Flux, a company that commercializes a technology developed at CSU to measure soil respiration rates. He conducts research related to the fate and transport of petroleum spills, including petroleum biodegradability and multiphase transport, and his specialty is to develop field methodologies for site assessment and characterization.

Alabama

Lee Davis

Alabama DEM Phone: 334-271-7759

Email: mld@adem.state.al.us

John Dean Alabama DEM Phone: 334-271-7846

Email: jdean@adem.state.al.us

Michael Ellison
PPM Consultants, Inc.
Phone: 205-836-5650

Email: michael.ellison@ppmco.com

Curt Johnson
Alabama DEM
Phone: 334-271-7986

Email: cdj@adem.state.al.us

Dorothy Malaier

Alabama DEM

Phone: 334-270-5613

Email: dsm@adem.state.al.us

Alaska

**Larry Brinkerhoff** 

Alaska DEC

**Phone:** 907-269-3055 **Email:** larry.brinkerhoff@alaska.gov

Evonne Reese

Alaska DEC

Phone: 907-465-5229

Email: evonne.reese@alaska.gov

Scott Ruth

Bristol Environmental Remediation Services, LLC

**Phone:** 907-563-0013

Email: sruth@bristol-companies.com

**American Samoa** 

Sikione Sikione, Jr.

American Samoa EPA

Phone: 684-633-2304

Email: sikione.sikione@epa.as.gov

William Sili

American Samoa EPA
Phone: 684-633-2304
Email: william.sili@epa.as.gov

Ignosy Toeava American Samoa EPA Phone: 684-633-2804

Email: ignosy.toeava@epa.as.gov

Arizona

Amy Aeed
Arizona DEQ

Phone: 602-771-4398 Email: ava@azdeq.gov

Alan Anderson

Tanknology, Inc.

Phone: 800-964-1250

Email: aanderson@tanknology.com

Calvina Ashley

Arizona DEQ
Phone: 602-771-4398
Email: cyl@azdeq.gov

Travis Barnum

Arizona DEQ

Phone: 602-771-4398 Email: tb6@azdeq.gov

Samar Bhuyan

Arizona DEQ

Phone: 602-771-4398 Email: sjb@azdeq.gov

Janet Bollman

Gila River Indian Community DEQ

Phone: 520-562-2753

Email: janet.bollman@gric.nsn.us

**Chuck Brockman** 

Eaton Sales & Service, LLC Phone: 602-415-3394

Email: chuckb@eatonmetal.com

**Rick Brunton** 

Arizona DEQ

Phone: 602-771-4745 Email: rlb@azdeq.gov

Jim Clemenson

Retired - U.S. EPA Region 7
Phone: 417-894-2510

Email: jamesclemenson@gmail.com

Debra Crouse

Arizona DEQ

Phone: 602-771-4398 Email: dc7@azdeq.gov

Jennie Cure

Arizona DEQ

Phone: 602-771-4398 Email: jec@azdeq.gov

David Dain

Arizona DEQ

Phone: 602-771-4398 Email: dd4@azdeq.gov

Kristie Daniels

Arizona DEQ

Phone: 602-771-4398 Email: kd4@azdeq.gov

Cynthia Davis

Arizona DEQ

Phone: 602-771-4398 Email: cr6@azdeq.gov

**Robert Frank** 

CH2M

Phone: 480-295-3927
Email: robert.frank@ch2m.com

Margaret Frantz

Arizona DEQ

Phone: 602-771-4398 Email: mef@azdeq.gov

Matthew Garcia

Arizona DEQ

Phone: 602-771-4398 Email: mfg@azdeq.gov **Daniel Gonzales** 

Arizona DEO

Phone: 602-771-4398 Email: dg9@azdeq.gov

Debi Goodwin

Arizona DEQ
Phone: 602-771-4398

Email: dg1@azdeq.gov

**Paul Guertin** 

Leak Detection Technologies, Inc. Phone: 855-255-5325

Email: paul@mdleak.com

Teresa Harris Atwell, LLC

Phone: 248-447-2000

Email: tharris@atwell-group.com

Henry Haven, Jr.

Navajo Nation EPA

Phone: 928-871-7993

Email: henryhaven@navajo-nsn.gov

Steve Heaton

Arizona DEQ

Phone: 602-771-4398 Email: sh5@azdeq.gov

Michael Hilstrom

Arizona DOA

Phone: 602-542-2863

Email: michael.hilstrom@azdoa.gov

Paula Johnson

Arizona DEO

Phone: 602-771-4398

Email: pj1@azdeq.gov

Aaron Jones

Navajo Nation EPA

Phone: 928-871-7993

Email: aajones@navajo-nsn.gov

Jason Kocer

Arizona DEQ

Phone: 602-771-4398

Email: jdk@azdeq.gov

Nina Kondos

Retired, Arizona DEQ

Phone: 602-978-5923

Email: amkondos@aol.com

Michael Latin

Arizona DEQ

Phone: 602-771-4398

Email: mrl@azdeq.gov

Mark Lewandowski

Arizona DEQ

Phone: 602-771-4398 Email: msl@azdeq.gov

Mark Lucas

Arizona DEQ

Phone: 602-771-4398 Email: mwl@azdeq.gov

Diane Malone

Navajo Nation EPA

Phone: 928-871-7993

Email: dmalone@navajo-nsn.gov

Laura Malone

Arizona DEQ
Phone: 602-771-4398
Email: Ilm@azdeq.gov

Heather Mann
U.S. EPA Region 6
Phone: 817-291-9106
Email: bentleymann@aol.com

Patricia Maples
Navajo Nation EPA
Phone: 928-871-7993

Email: pamaples@navajo-nsn.gov

**Gabe Messerly** 

Vaporless Manufacturing, Inc.

Phone: 928-775-5191

Email: gmesserly@vaporless.com

Brent Mitchell
Arizona DEQ
Phone: 602-771-4398
Email: bam@azdeq.gov

David Pettigrew
Arizona DEQ
Phone: 602-771-4398
Email: dp1@azdeq.gov

Wayne Pudney
Arizona DEQ
Phone: 602-771-4192
Email: wdp@azdeq.gov

David Rabb

Leak Detection Technologies, Inc. **Phone:** 855-255-5325

-----

-----

Email: david.rabb@leakdetect.net

Warren Roan
Navajo Nation EPA
Phone: 928-871-7995

Email: warrenjroan@navajo-nsn.gov

John Robertson
Arizona DEQ
Phone: 602-771-4398
Email: jar@azdeq.gov

Melanie Rodriguez Arizona DEQ Phone: 602-771-4398 Email: mab@azdeq.gov

Tara Rosie
Arizona DEQ
Phone: 602-771-4725

Email: tr1@azdeq.gov

Jason Rushmeyer

Arizona DEQ

Phone: 602-771-4398 Email: jr8@azdeq.gov

Arizona DEQ
Phone: 602-771-4398
Email: dt3@azdeq.gov

Steve Turner

**Danielle Taber** 

Eaton Sales & Service, LLC

Phone: 602-415-3394

Email: stevet@eatonmetal.com

**Emily Vanaskey** 

Ana Vargas

ESC Lab Sciences
Phone: 602-708-8233

Email: evanaskey@esclabsciences.com

Arizona DEQ
Phone: 602-771-4398
Email: aiv@azdeq.gov

Dave Veratti
ESC Lab Sciences
Phone: 602-377-2696

Email: dveratti@esclabsciences.com

Tanya Yazzie
Navajo Nation EPA
Phone: 928-871-7993

Email: tanyayazzie@navajo-nsn.gov

Tiffany Yee
Arizona DEQ
Phone: 602-771-4398
Email: tjy@azdeq.gov

Greg Young

Vaporless Manufacturing, Inc. **Phone:** 928-775-5191 **Email:** gyoung@vaporless.com

Rick Zeise

Arizona Attorney General Phone: 602-542-8553 Email: rick.zeise@azag.gov

**Arkansas** 

David Frazier
Arkansas DEQ
Phone: 501-682-0982
Email: frazier@adeq.state.ar.us

Joe Hoover
Arkansas DEQ
Phone: 501-682-0988

Email: hoover@adeq.state.ar.us

Robert Morgan
Arkansas DEQ
Phone: 501-682-0980

Email: morganr@adeq.state.ar.us

Daniel Murdaugh
Pollution Management, Inc.
Phone: 501-221-7122

Email: dmurdaugh@pmico.com
Wanda Paes
Arkansas DEQ

Phone: 501-682-0981
Email: paes@adeq.state.ar.us

Christopher Stewart
Walmart/Sam's Club
Phone: 479-204-0402

Email: christopher.stewart@walmart.com

Elizabeth Titus
Murphy Oil USA, Inc.
Phone: 870-875-7723

Email: beth.titus@murphyusa.com

**Greg Wells** 

Pollution Management, Inc.

Phone: 501-221-7122

Email: gwells@pmico.com

California

Mo Arellanes

ACE Group

Phone: 213-833-3184

Email: mo.arellanes@acegroup.com

Elizabeth Babcock
California SWRCB
Phone: 916-709-8398

Email: lisa.babcock@waterboards.ca.gov

Paola Bravo

S. Bravo Systems, Inc.
Phone: 323-888-4133
Email: pbravo@sbravo.com

John Elkins

Sacramento County EMD

Phone: 916-876-7884

Email: elkinsjo@saccounty.net

Dave Emmington
Veeder-Root Company
Phone: 916-638-2066

Email: demmington@veeder.com

Catalina Espino-Devine

Chevron

Phone: 925-842-9692
Email: espino@chevron.com

Laura Fisher
California SWRCB
Phone: 916-341-5870

Email: Ifisher@waterboards.ca.gov

Alison Fong
U.S. EPA Region 9
Phone: 415-972-3065

Email: fong.alison@epa.gov

Todd Herrington

Regenesis
Phone: 720-810-3608

Email: therrington@regenesis.com

Rebecca Jamison
U.S. EPA Region 9
Phone: 415-972-3365
Email: jamison.rebecca@epa.gov

Matthew Kaufmann

Contra Costa County Health Services

Phone: 925-335-3235

Email: matt.kaufmann@hsd.cccounty.us

Steven Linder
U.S. EPA Region 9
Phone: 415-972-3369
Email: linder.steven@epa.gov

Jun Lu AECOM

Phone: 562-213-4120
Email: jun.lu@aecom.com

Douglas McDaniel
U.S. EPA Region 9
Phone: 415-947-4106
Email: mcdaniel.doug@epa.gov

**Terry McManus** 

Groundwater & Environmental Services, Inc.

Phone: 925-459-4656

Email: tmcmanus@gesonline.com

Ian Moorhead

7-Eleven, Inc.

Phone: 562-217-0867

Email: ian.moorhead@7-11.com

Don Mukai

S. Bravo Systems, Inc.

Phone: 323-888-4133

Email: dmukai@sbravo.com

Dan Nunez Regenesis

Phone: 949-910-1977 Email: dnunez@regenesis.com

Sandeep (Bobby) Ojha U.S. EPA Region 9

Phone: 415-972-3374
Email: ojha.bobby@epa.gov

Robert Pallarino

U.S. EPA Region 9

Phone: 415-947-4128

Email: pallarino.bob@epa.gov

Arla Ramsey
Blue Lake Rancheria

Phone: 707-834-5541

Email: aramsey@bluelakerancheria-nsn.gov

Thomas Rejzek

Santa Barbara County Environmental Health

Phone: 805-346-8216 Email: tom.rejzek@sbcphd.org

**Todd Ririe** 

BP Products North America
Phone: 714-504-2316
Email: todd.ririe@bp.com

Karen Rogan

Blue Lake Rancheria

Phone: 707-668-5101

Email: krogan@bluelakerancheria-nsn.gov

Dan Roth ProTechnology

Phone: 805-368-1500
Email: dan.roth@protechinc.com

Helen Ruhic

Native American Environmental Protection Coalition

Phone: 951-296-5595 Email: hrubio@naepc.com

Teresita Salire
U.S. EPA Region 9
Phone: 415-972-3376

Email: salire.tess@epa.gov

Jeff Scott

U.S. EPA Region 9

U.S. EPA Region 9

Phone: 415-972-3311

Email: scott.jeff@epa.gov

Kimberly Sellards
California SWRCB
Phone: 916-341-5869

Email: ksellards@waterboards.ca.gov

Noel Shenoi Calclean, Inc. Phone: 714-936-2706

Email: noelshenoi@calclean.com

Kevin Sincock

ProTechnology
Phone: 949-429-7746

Email: kevin.sincock@protechinc.com

Matt Small

U.S. EPA Region 9 **Phone:** 415-972-3366

Email: small.matthew@epa.gov

Jennifer Tabanico

Action Research
Phone: 760-722-4001

Email: tabanico@action3630.com

Jerry Usvey

S. Bravo Systems, Inc.

Phone: 323-888-4133

Email: pbravo@sbravo.com

Steve Westhoff

California SWRCB

Phone: 916-327-7295

Email: steven.westhhoff@waterboards.ca.gov

Canada

Don Edgecombe

Petroleum Tank Management Association

Phone: 780-425-8265 Email: don@ptmaa.ab.ca

Boyde Hann Parsons

Phone: 403-294-4230

Email: boyde.hann@parsons.com

Parisa Jourabchi

Golder Associates Ltd. **Phone:** 604-296-2761

Email: pjourabchi@golder.com

Trudy Lowe 7-Eleven, Inc.

7-Eleven, Inc.
Phone: 587-896-7651
Email: trudy.lowe@7-11.com

June Lu SNC-Lavalin, Inc. Phone: 306-668-6800

Email: june.lu@snclavalin.com

Janice Paslawski

SNC-Lavalin, Inc.

Phone: 306-668-6800

Email: janice.paslawski@snclavalin.com

William Runciman 7-Eleven, Inc.

Phone: 604-363-4076

Email: william.runciman@7-11.com

Colorado

Mahesh Albuquerque

Colorado OPS

Phone: 303-318-8502

Email: mahesh.albuquerque@state.co.us

Jane Bral

Colorado OPS

Phone: 303-318-8510 Email: jane.bral@state.co.us

Steve Callahan

Kroger

Phone: 303-715-5925

Email: steve.callahan@kroger.com

John Casey

Daniel B. Stephens & Associates

Phone: 970-403-8895

Email: jcasey@dbstephens.com

Francisca Chambus

U.S. EPA Region 8

Phone: 303-312-6782

Email: chambus.francisca@epa.gov

Nancy Coen

CST Brands, Inc.
Phone: 303-373-6044

Email: nancy.coen@cstbrands.com

Amy Cole

Colorado OPS
Phone: 303-318-8530
Email: amy.cole@state.co.us

**Eliot Cooper** 

Vironex Technical Services

Phone: 303-669-7443

Email: ecooper@vironex.com

**Lonnie Dent** 

Remington Technologies

Phone: 970-278-1646

Email: Ident@remingtontech.net

Orren Doss

Colorado OPS
Phone: 303-318-8542
Email: orren.doss@state.co.us

**Grant Drennan** 

Remington Technologies **Phone:** 970-278-1646

Email: gdrennan@remingtontech.net

Stephen Dyment

U.S. EPA Region 8

Phone: 303-312-7044

Email: dyment.stephen@epa.gov

**Bob Elliott** 

Remediation Products, Inc.

Phone: 303-487-1001 x12

Email: bob@trapandtreat.com

John Fontana

Vista GeoScience, LLC

Phone: 303-277-1694

Email: jfontana@vistageoscience.com

Thomas Fox

Colorado OPS
Phone: 303-318-8535
Email: tom.fox@state.co.us

Julia Fraser Colorado OPS

Phone: 303-318-8504
Email: julia.fraser@state.co.us

Tim Goodrich

CGRS, Inc.

Phone: 970-493-7780 Email: tgoodrich@cgrs.com

Zach Hope Colorado OPS

Phone: 303-318-8545
Email: zach.hope@state.co.us

Randy Kenyon

CGRS, Inc.

Phone: 970-493-7780 Email: rkenyon@cgrs.com

Michael Kwiecinski

Phone: 303-318-8512

Email: mike.kwiecinski@state.co.us

**Matthew Langenfeld** 

U.S. EPA Region 8 **Phone:** 303-312-6284

Email: langenfeld.matthew@epa.gov

Matt Larsen CGRS. Inc.

Phone: 970-493-7780
Email: mlarsen@cgrs.com

Mike Martin

Vista GeoScience, LLC **Phone:** 303-277-1694

Email: mmartin@vistageoscience.com

**Stuart McDonald** 

Aestus, LLC

Phone: 303-717-8893 Email: swm@aestusllc.com

Kristi Moriarty

National Renewable Energy Laboratory

Phone: 303-275-4477

Email: kristi.moriarty@nrel.gov

Scott Noland

Remediation Products, Inc. **Phone:** 303-487-1001

Email:

Janice Pearson

U.S. EPA Region 8

Phone: 303-312-6354

Email: pearson.janice@epa.gov

Brett Redo

Storage Tank Technology, Inc.

Phone: 970-243-1642

Email: brett@sttienviro.com

Brendan Shine
U.S. EPA Region 8
Phone: 303-808-6133

Email: shine.brendan@epa.gov

Scott Simmons
Colorado OPS
Phone: 303-378-1103

Email: scott.simmons@state.co.us

Jennifer Steffes Colorado OPS

Phone: 303-318-8539

Email: jennifer.steffes@state.co.us

Jennifer Strauss Colorado OPS

Phone: 303-318-8548

Email: jennifer.strauss@state.co.us

Jesse Taylor

Remington Technologies **Phone:** 970-278-1646

Email: jtaylor@remingtontech.net

Kim Taylor

Remington Technologies **Phone:** 970-278-1646

Email: ktaylor@remingtontech.net

Glen Vallance

CGRS, Inc. **Phone:** 970-493-7780

Email: glen@cgrs.com

Jacquee Wilson

Colorado OPS

Phone: 303-318-8537

Email: jacquee.wilson@state.co.us

Julio Zimbron

Colorado State University

Phone: 970-492-4360

Email: jzimbron@rams.colostate.edu

Connecticut

**Gary Baker** 

DoubleTrac by Omega Flex
Phone: 860-704-6829
Email: gary@omegaflex.com

Paul Clark
Connecticut DEEP
Phone: 860-424-3345
Email: paul.clark@ct.gov

Allison Forrest
Connecticut DEEP
Phone: 860-424-3411
Email: allison.forrest@ct.gov

Eric Harvey
Global Partners LP
Phone: 845-238-7354
Email: eharvey@globalp.com

Peter Kellogg PMP Corporation Phone: 860-677-9656

Email: pkellogg@pmp-corp.com

Gregory McGee
PMP Corporation
Phone: 860-677-9656

Email: gmcgee@pmp-corp.com

Kelly McShea
Connecticut DEEP
Phone: 860-424-3662
Email: kelly.mcshea@ct.gov

Kent Reid

Veeder-Root Company
Phone: 860-651-2710
Email: kreid@veeder.com

**Emily Remmel** 

Business Legal Resources
Phone: 800-727-5257
Email: eremmel@blr.com

Dean Rivest

DoubleTrac by Omega Flex
Phone: 860-704-6829
Email: dean@omegaflex.com

Moises Torrent
Connecticut DEEP
Phone: 860-424-3343

Email: moises.torrent@ct.gov

Peter Zack

Connecticut DEEP
Phone: 860-424-3337
Email: peter.zack@ct.gov

Delaware

Amy Bryson
Delaware DNREC
Phone: 302-395-2500

Email: amy.bryson@state.de.us

Lori Spagnolo
Delaware DNREC
Phone: 302-395-2500

Email: lori.spagnolo@state.de.us

Jill Williams-Hall
Delaware DNREC
Phone: 302-395-2520
Email: jill.hall@state.de.us

**District of Columbia** 

Will Anderson
U.S. EPA OUST

**Brian Barone** 

Phone: 703-603-7156

Email: anderson.will@epa.gov

Mark Barolo
U.S. EPA OUST
Phone: 703-603-9900

Email: barolo.mark@epa.gov

District DOE
Phone: 202-741-5092

Phone: 202-741-5092
Email: brian.barone@dc.gov

Judy Barrows
U.S. EPA OUST
Phone: 703-603-7142

Email: barrows.judy@epa.gov

Bruce Bauman

American Petroleum Institute

Phone: 202-682-8345

Email: bauman@api.org

Susan Burnell
U.S. EPA OUST
Phone: 703-603-9231

Phone: 703-603-9231

Email: burnell.susan@epa.gov

Rachel Deitz

U.S. EPA OUST

Phone: 703-603-7143

Email: deitz.rachel@epa.gov
Bill Foskett
U.S. EPA OUST

Phone: 703-603-7153
Email: foskett.william@epa.gov

Elisabeth Freed
U.S. EPA OECA
Phone: 202-564-5117
Email: freed.elisabeth@epa.gov

Linda Gerber
U.S. EPA OUST
Phone: 703-603-7163
Email: gerber.linda@epa.gov

Jill Grant

Jill Grant & Associates, LLC

Phone: 202-821-1950

Email: jgrant@jillgrantlaw.com

Ryan Haerer

U.S. EPA OUST

Phone: 703-347-0151

Email: haerer.ryan@epa.gov

Lela Hagan
U.S. EPA OUST
Phone: 703-603-7145
Email: hagan.lela@epa.gov

Nazmul Haque
District DOE
Phone: 202-535-1330

Email: nazmul.haque@dc.gov

Carolyn Hoskinson

U.S. EPA OUST

Phone: 703-603-9900

Email: hoskinson caroly

Email: hoskinson.carolyn@epa.gov

Achyut Kafle U.S. EPA HQ

Phone: 202-566-1181
Email: kafle.achyut@epa.gov

Erin Knighton
U.S. EPA OUST
Phone: 703-603-8774
Email: knighton.erin@epa.gov

ASTSWMO

Phone: 202-640-1065 Email: mollyl@astswmo.org

Liz McDermott
U.S. EPA OUST
Phone: 703-603-7175

Email: mcdermott.elizabeth@epa.gov

Steve McNeely
U.S. EPA OUST
Phone: 703-603-7164
Email: mcneely.steven@epa.gov

U.S. EPA HQ
Phone: 202-564-5161
Email: miles.james@epa.gov

Paul Miller
U.S. EPA OUST
Phone: 703-603-7165
Email: miller.paul@epa.gov

Sylvester Mode
District DOE
Phone: 202-535-2529
Email: sylvester.mode@dc.gov

Natalie Morales-Hendricks

District DOE

Phone: 202-535-1944 Email: natalie.hendricks@dc.gov

Queenie Mungin-Davis U.S. EPA OUST Phone: 703-603-7176

Email: mungin-davis.queenie@epa.gov

Katherine Nam
U.S. EPA OGC
Phone: 202-564-5512
Email: nam.katherine@epa.gov

**Robin Parker** 

U.S. EPA OUST

Phone: 703-603-7149

Email: parker.robin@epa.gov

Fianna Phill
District DOF

Phone: 202-535-2326 Email: fianna.phill@dc.gov

Charles Reyes ASTSWMO

Phone: 202-640-1063 Email: charlesr@astswmo.org

Dania Rodriguez

Phone: 202-640-1060 Email: daniar@astswmo.org

Tim Smith
U.S. EPA OUST
Phone: 703-603-7158
Email: smith.timr@epa.gov

Karen Sullivan
U.S. EPA OSWER
Phone: 202-566-1259
Email: sullivan.karen@epa.gov

Tom Walker
U.S. EPA OUST
Phone: 703-603-7159
Email: walker.tom@epa.gov

Yolaanda Walker
U.S. EPA OSRE
Phone: 202-564-4281

Email: walker.yolaanda@epa.gov

Ray Worley
U.S. EPA OUST
Phone: 703-603-7172
Email: worley.ray@epa.gov

Stacey Yonce
U.S. EPA HQ
Phone: 202-564-2288
Email: yonce.stacey@epa.gov

Florida

Milei Aviles
7-Eleven, Inc.
Phone: 786-473-9744

Email: milei.aviles@7-11.com
Thomas Bates

Collier County Solid & Hazardous Waste

Phone: 239-252-5091

Email: thomasbates@colliergov.net

**Bob Cohen** 

American Cost Recovery Management, LLC

Phone: 352-514-5251

Email: bcohen@ustcostrecovery.com

Dan Jenkins Iron Ox

Phone: 813-877-4665

Email: djenkins@theironox.com

John Malkowski
Terracon Consultants
Phone: 407-740-6110

Email: john.malkowski@terracon.com

**Marshall Mott-Smith** 

Mott-Smith Consulting Group **Phone:** 850-391-9835

Email: marshall@mott-smithconsulting.com

Ram Nicoloff

Phone: 352-514-5251
Email: ramnicoloff@gmail.com

Ruth Rauenzahn
Orange County EPD

Phone: 407-836-1475
Email: ruth.rauenzahn@ocfl.net

Phil Snyderburn

Collier County Solid & Hazardous Waste

Phone: 239-252-5081

Email: philsnyderburn@colliergov.net

James Standiford

Collier County Solid & Hazardous Waste

Phone: 239-252-5091

Email: jamesstandiford@colliergov.net

Georgia

Lee Anderson
RaceTrac Petroleum, Inc.

Phone: 770-431-7600

Email: landerson@racetrac.com

Nick Athens
EcoVac Services
Phone: 770-592-1001

Email: nick.athens@ecovacservices.com

Tom Brzenk

UPS

Phone: 404-828-3941 Email: tbrzenk@ups.com

Lisa Ciotoli

RaceTrac Petroleum, Inc.

Phone: 770-431-7600

Email: lciotoli@racetrac.com

Marsh Duncan
Colony Specialty
Phone: 770-751-5093

Email: mduncan@colonyspecialty.com

Bill Greer

Georgia Tank & Equipment Contractors Assn.

Phone: 770-426-1133 Email: billgreer@gteca.com

Pam Greer

Georgia Tank & Equipment Contractors Assn.

Phone: 770-426-1133

Email: pamgreer@mindspring.com

**Aaryn Jones** U.S. EPA Region 4

Phone: 404-562-8969
Email: jones.aaryn@epa.gov

Darnell Manning Georgia DNR

Phone: 404-362-4526

Email: darnell.manning@dnr.ga.gov

Mallory Miller U.S. EPA Region 4

Phone: 404-562-9483
Email: miller.mallory@epa.gov

Shaheer Muhanna

Georgia DNR

Phone: 404-362-2579

Email: shaheer.muhanna@dnr.ga.gov

Jeff Pallas

U.S. EPA Region 4

Phone: 404-562-8569

Email: pallas.jeff@epa.gov

Lon Revall

Georgia DNR **Phone:** 404-362-2582 **Email:** lon.revall@dnr.ga.gov

Chris Runnels

Mansfield Oil Company
Phone: 678-414-5626

Email: crunnels@mansfieldoil.com

Terry Self U.S. EPA Region 4 Phone: 404-562-9366

Email: self.terry@epa.gov

Ben Singh

U.S. EPA Region 4

Phone: 404-562-8922

Email: singh.ben@epa.gov

Winston Smith
U.S. EPA Region 4

Phone: 404-562-9467
Email: smith.wg@epa.gov

**Greg Travis** 

**Berkley Specialty Underwriting Managers** 

Phone: 404-443-2008 Email: gtravis@berkleysum.com

Bill Truman
U.S. EPA Region 4
Phone: 404-562-9457

Email: truman.bill@epa.gov

Cesar Zapata

U.S EPA Region 4

Phone: 404-562-9744
Email: zapata.cesar@epa.gov

Guam

US Navy

Email: blaise.koki@fe.navy.mil

Michael O'Mallan Guam EPA

Phone: 671-300-4767

Email: michael.omallan@epa.guam.gov

Eric Palacios Guam EPA

Phone: 671-300-4767

Email: eric.palacios@epa.guam.gov

**Don Quinata** Guam EPA

Phone: 671-300-4768

Email: don.quinata@epa.guam.gov

Hawaii

**Richard Conner** Aloha Petroleum, Ltd.

Phone: 808-552-9704
Email: rconner@alohagas.com

Jeff Finch

Aloha Petroleum, Ltd.

Phone: 808-522-9781

Email: jfinch@alohagas.com

Roxanne Kwan

Hawaii DOH

Phone: 808-586-4226

Email: roxanne.kwan@doh.hawaii.gov

Thu Perry Hawaii DOH

Phone: 808-586-4226
Email: thu.perry@doh.hawaii.gov

Idaho

**Kevin Brackney** Nez Perce Tribe

Phone: 208-843-3893
Email: kevinb@nezperce.org

Keith Dyarmett Idaho DEQ

Phone: 208-373-0442

Email: keith.dyarmett@deq.idaho.gov

Judy Goodson
Nez Perce Tribe
Phone: 208-843-7368
Email: judyg@nezperce.org

Susan Hamlin Idaho DEQ

Phone: 208-373-0494

Email: susan.hamlin@deq.idaho.gov

Rick Jarvis Idaho DEQ

Phone: 208-373-0247

Email: rick.jarvis@deq.idaho.gov

Kristi Lowder Idaho DEQ

Phone: 208-373-0347

Email: kristi.lowder@deq.idaho.gov

Julie Worth Idaho DEQ

Phone: 208-236-6160

Email: julie.worth@deq.idaho.gov

Illinois

Jennifer Betz

Phone: 847-888-0276 Email: jbetz@jmmglobal.com

Dennis Boyd

BP Products North America

Phone: 312-925-6233

Email: dennis.boyd@bp.com

**Dr. Ethel Crisp**U.S. EPA Region 5

Phone: 312-353-1442
Email: crisp.ethel@epa.gov

**Brian Donovan** 

STICO Mutual Insurance Company

Phone: 847-253-5761 Email: brian@stico.org

Wayne Geyer
Steel Tank Institute
Phone: 847-550-3829
Email: wgeyer@steeltank.com

Lorri Grainawi

Steel Tank Institute

Phone: 847-438-8265 x244 Email: lgrainawi@steeltank.com

Michael Harris

U.S. EPA Region 5

Phone: 312-886-0760

Email: harris.michael@epa.gov

Kevin Hill

U.S. EPA Region 5
Phone: 312-886-6087
Email: hill.kevin@epa.gov

**Sherry Kamke** 

U.S. EPA Region 5
Phone: 312-353-5794
Email: kamke.sherry@epa.gov

Matt Krol
US Foods

Phone: 847-268-5135

Email: matthew.krol@usfoods.com

Sharon Lowery-Martin

U.S. EPA Region 5 **Phone:** 312-886-4583

Email: lowery-martin.sharon@epa.gov

Jon Marinas

JMM Global **Phone:** 847-888-0276

Email: jon.marinas@jmmglobal.com

Estelle Patterson

U.S. EPA Region 5
Phone: 312-353-3594

Email: patterson.estelle@epa.gov

Michael Pepe

JMM Global **Phone:** 847-888-0276

Email: mpepe@jmmglobal.com

Mark Restaino
U.S. EPA Region 5

Phone: 312-886-0394

Email: restaino.mark@epa.gov

Fred Schneller

Illinois Office of the State Fire Marshal

Phone: 217-557-3131

Email: fred.schneller@illinois.gov

Sandra Siler
U.S. EPA Region 5
Phone: 312-886-0429

Email: siler.sandra@epa.gov

Jennifer Sosin

BP Products North America

Phone: 847-340-3092
Email: jennifer.sosin@bp.com

Jill Tubbs US Foods

Phone: 402-212-5976
Email: jill.tubbs@usfoods.com

Indiana

Roy Harbert Indiana DEM

Phone: 317-232-7957 Email: rharbert@idem.in.gov

Kyle Keesling

PASS Training & Compliance
Phone: 866-735-0201

Email: cory.keesling@passtesting.com

**Raymond Rees** 

PASS Training & Compliance
Phone: 866-735-0201

Email: raymond.rees@passtesting.com

Craig Schroer Indiana DEM

Phone: 317-234-0974
Email: cschroer@idem.in.gov

Roberta Steiff Indiana DEM

Phone: 317-234-0935
Email: rsteiff@idem.in.gov

Laura Swartz

PASS Training & Compliance
Phone: 866-735-0201

Email: laura.swartz@passtesting.com

Timothy Veatch

Indiana DEM

Phone: 317-234-0980

Email: tveatch@idem.in.gov

John Wade

Pinnacle Actuarial Resources, Inc.

Phone: 317-889-5760

Email: jwade@pinnacleactuaries.com

Iowa

Jennifer Carpenter

Seneca Companies

Phone: 800-369-5500

Email: jfelts@senecaco.com

Elaine Douskey

Phone: 515-725-8311

Email: elaine.douskey@dnr.iowa.gov

James Gastineau

Aon Risk Services/Iowa UST Fund Program

Phone: 515-440-7016

Email: james.gastineau@aon.com

Matthew Graesch Iowa DNR

Phone: 515-725-8331

Email: matthew.graesch@dnr.iowa.gov

Dorcee Lauen

Williams & Company Consulting, Inc.

Phone: 712-224-3269 Email: ddd@willconsult.com

Steve Lauen

Williams & Company Consulting, Inc.

Phone: 712-224-3260 Email: sll@willconsult.com

Paul Nelson Iowa DNR

Phone: 515-725-8324

Email: paul.nelson@dnr.iowa.gov

Lee Osborn Iowa DNR

Phone: 515-725-8335

Email: lee.osborn@dnr.iowa.gov

III Reams-Widder

Casey's General Stores
Phone: 515-965-6238

Email: jill.reams-widder@caseys.com

Patrick Rounds

R&A Risk Professionals

Phone: 515-334-3010

Email: pjr@roundsassociates.com

Jerry Schollmeyer

Morrison Brothers Co. **Phone:** 563-583-5701

Email: jschollmeyer@morbros.com

**Rich Stevens** 

Morrison Brothers Co. **Phone:** 563-583-5701

Email: rstevens@morbros.com

**David Steward** 

Iowa DOJ

Phone: 515-281-7242

Email: david.steward@iowa.gov

Josh Van Winkle

MidAmerican Energy
Phone: 515-281-2953

Email: jjvanwinkle@midamerican.com

Jeffrey White

Iowa DNR

Phone: 515-725-8325

Email: jeff.white@dnr.iowa.gov

Brian Wiegert

Petroleum Marketers Management Insurance Co.

Phone: 515-334-3001

Email: bjw@roundsassociates.com

Kansas

Mark Aaron

U.S. EPA Region 7

Phone: 913-551-7205

Email: aaron.mark@epa.gov

Todd Anderson

Cardno ATC

Phone: 913-284-0272

Email: lt.anderson@cardno.com

**Randall Carlson** 

Kansas DHE

Phone: 785-296-1684 Email: rcarlson@kdheks.gov

David Engelken

Tank Management Services, Inc.
Phone: 785-233-1414
Email: david@tankmgmt.com

Marcus Meerian

Kansas DHE

Phone: 785-296-6372 Email: mmeerian@kdheks.gov

Michael Pomes

U.S. EPA Region 7 **Phone:** 913-551-7216

Email: pomes.michael@epa.gov

Wilfredo Rosado-Chaparro U.S. EPA Region 7

Phone: 913-551-7944

Email: rosado-chaparro.wilfredo@epa.gov

Margaret Stockdale

U.S. EPA Region 7 **Phone:** 913-551-7936

Email: stockdale.margaret@epa.gov

**Brett Tavener** 

Kansas DHE **Phone:** 785-291-3105

Email: btavener@kdheks.gov

Kentucky

Michael Albright

Kentucky DEP
Phone: 502-564-5981

Email: michael.albright@ky.gov

Bill Brab

AST Environmental, Inc.

Phone: 859-846-4900

Email: bbrab@astenv.com

Leslie Carr

Kentucky DEP

Phone: 502-564-5981

Email: leslie.carr@ky.gov

**Ahad Chowdhury** 

Kentucky DEP
Phone: 502-564-5981

Email: ahad.chowdhury@ky.gov

Joe Ellis

Modern Welding Company, Inc.

Phone: 270-685-4400

Email: jellis@modweldco.com

**Tony Honey** 

Modern Welding Company, Inc.

Phone: 270-685-4400

Email: thoney@modweldco.com

Russ Lewis

Marathon Petroleum Company LP

Phone: 606-921-2009

Email: rplewis@marathonpetroleum.com

Lori Terry
Kentucky DEP
Phone: 502-564-5981

Email: lori.terry@ky.gov
Edward Winner
Kentucky DEP

Phone: 502-564-5981 Email: edward.winner@ky.gov

Louisiana

Jeff Baker

Louisiana DEQ
Phone: 225-219-3917
Email: jeffrey.baker@la.gov

Samuel Broussard

Louisiana DEQ

Phone: 337-262-5744

Email: samuel.broussard@la.gov

Jill Carter Louisiana DEQ

Phone: 225-219-3985 Email: jill.carter@la.gov

Durwood Franklin

Louisiana DEQ
Phone: 318-362-3050

Email: durwood.franklin@la.gov

Perry Theriot

Louisiana DEQ
Phone: 225-219-3985
Email: perry.theriot@la.gov

Maine

Patricia Aho Maine DEP

Phone: 207-287-2812 Email: patricia.aho@maine.gov

Randy Boucher
Franklin Fueling Systems
Phone: 207-571-1137

Email: boucher@franklinfueling.com

Marcel Moreau

Marcel Moreau Associates

Phone: 207-774-9263

Email: marcel.moreau@juno.com

Scott Whittier Maine DEP

Phone: 207-287-7674

Email: scott.whittier@maine.gov

Maryland

Eric Dana

DANA Insurance and Risk Management

Phone: 410-821-1995
Email: eric@dana-ins.com

(athy Fox

EA Engineering, Science & Technology, Inc.

Phone: 410-671-6051 Email: kfox@eaest.com

Michael Frank
Maryland DOE
Phone: 410-537-3442

Email: mike.frank@maryland.gov

Robert Holste
City of Baltimore
Phone: 410-396-3269

Email: robert.holste@baltimorecity.gov

Michael Jester
Maryland DOE
Phone: 410-537-3442

Email: michael.jester@maryland.gov

Roger Lamb
COLUMBIA Technologies
Phone: 615-406-0759

Email: rlamb@columbiatechnologies.com

Andrew Miller
Maryland DOE
Phone: 410-537-3389

Email: andrew.miller@maryland.gov

Daryl Moore

National Institutes of Health Phone: 301-496-7990 Email: bowlerv@mail.nih.gov

**Christopher Ralston** 

Maryland DOE
Phone: 410-537-3442

Email: chris.ralston@maryland.gov

Tom Ruszin

Royal Farms

Phone: 410-889-0200 Email: truszin@royalfarms.com Thomas Schruben

ACRM, LLC

Phone: 301-613-8858

Email: tschruben@ustcostrecovery.com

John Sohl

COLUMBIA Technologies **Phone:** 410-777-8814

Email: jsohl@columbiatechnologies.com

Thomas Walter Maryland DOE

Phone: 410-537-3442 Email: tom.walter@maryland.gov

Massachusetts

William Alpine

Environmental Compliance Services, Inc.

Phone: 781-246-8897
Email: balpine@ecsconsult.com

Susan Bailey NEIWPCC

Phone: 978-323-7929
Email: sbailey@neiwpcc.org

Andrea Beland
U.S. EPA Region 1
Phone: 617-918-1313

Email: beland.andrea@epa.gov

Dan Blake

Mobile Wright Solutions, Inc. **Phone:** 781-968-5245

Email: dblake@mobilewright.com

Gordon Bullard
Massachusetts DOR
Phone: 617-626-2600

Email: bullardgh@dor.state.ma.us

Stephanie Costa
Cumberland Farms, Inc.
Phone: 508-270-4472

Email: scosta@cumberlandgulf.com

Paul Craffey
Massachusetts DEP
Phone: 617-325-3566

Email: paul.craffey@state.ma.us

Elizabeth Deabay
U.S. EPA Region 1
Phone: 617-918-1343
Email: deabay.beth@epa.gov

Thomas DeNormandie
Massachusetts DEP
Phone: 617-292-5763

Email: thomas.denormandie@state.ma.us

Jason Frigon
Global Partners LP
Phone: 978-339-3545
Email: jfrigon@globalp.com

Ellen Frye
Enosis / LUSTLine
Phone: 413-296-4395

Email: ellen.enosis@gmail.com

Tom Groves NEIWPCC

Phone: 978-323-7929
Email: tgroves@neiwpcc.org

Jaclyn Harrison

NEIWPCC

Phone: 978-349-2515
Email: jharrison@neiwpcc.org

Kevin Horrigan

Massachusetts DOR
Phone: 617-626-2612

Email: horrigank@dor.state.ma.us

Ray Leather

Cumberland Farms, Inc. **Phone:** 5508-270-4444

Email: rleather@cumberlandgulf.com

Michele Piazza NEIWPCC

Phone: 978-323-7929
Email: mpiazza@neiwpcc.org

Angela Pimental
Cumberland Farms, Inc.
Phone: 508-270-4448

Email: apimental@cumberlandgulf.com

Kim Schweisberg
U.S. EPA Region 1
Phone: 617-918-1307

Email: schweisberg.kim@epa.gov

Julie Spencer AECOM

Phone: 978-905-2411

Email: julie.spencer@aecom.com

Susan Sullivan

NEIWPCC

Phone: 978-323-7929
Email: ssullivan@neiwpcc.org

Michigan

Joseph Berlin BLDI, Inc.

Phone: 616-459-3737

Email: jberlin@bldi.com

Clifford Knaggs Knaggs, Harter, Brake & Schneider, P.C.

Phone: 517-622-0590 Email: caknaggs@khbslaw.com

Joan Park
Michigan DEQ
Phone: 906-228-4520
Email: parkj@michigan.gov

Rich Porter
U.S. EPA Region 5
Phone: 734-692-7659
Email: porter.rich@epa.gov

Marcia Poxson
Michigan BFS
Phone: 517-373-3290
Email: poxsonm@michigan.gov

**Greg Shubel** 

Inter-Tribal Council of Michigan, Inc. **Phone:** 906-632-6896

Email: gshubel@itcmi.org

Erick Thorson
Michigan DNR
Phone: 989-894-6239
Email: thorsone@michigan.gov

**Danny Yordanich** 

Michigan DEQ

Phone: 517-284-5174

Email: yordanichd@michigan.gov

Minnesota

Benjamin Benoit

Leech Lake Band of Ojibwe Phone: 218-335-7441

Email: benjamin.benoit@llojibwe.org

Nate Blasing
Minnesota PCA
Phone: 218-316-3899

Email: nathan.blasing@state.mn.us

**Andrew Bovd** 

Mille Lacs Band of Ojibwe Phone: 320-532-7779

Email: andy.boyd@millelacsband.com

Jeffery Brandon Minnesota PCA Phone: 218-302-6610

Email: jeffery.brandon@state.mn.us

Joel Fischer
Minnesota DOC
Phone: 651-539-1507
Email: joel.fischer@state.mn.us

Richard Heisler
White Earth Nation
Phone: 218-204-1903

Email: richardh@whiteearth.com

Michael Kanner
Minnesota PCA
Phone: 651-757-2483

Email: michael.kanner@state.mn.us

Katie Koelfgen Minnesota PCA Phone: 651-757-2499

Email: katie.koelfgen@state.mn.us

John LeBlanc

Red Lake Band of Chippewa Indians

Phone: 218-679-1626

Email: jleblanc@redlakenation.org

Chris McLain
Minnesota PCA
Phone: 651-757-2562

Email: chris.mclain@state.mn.us

Camilla Pederson Holiday Companies Phone: 952-830-8899

Email: camie.pederson@holidaycompanies.com

Steve Reckinger
Holiday Companies
Phone: 952-830-8028

Email: steve.reckinger@holidaycompanies.com

Ryan Rupp

Mille Lacs Band of Ojibwe **Phone:** 320-532-7442

Email: ryan.rupp@millelacsband.com

**David Smith** 

Fond du Lac Reservation Environmental Dept.

Phone: 218-878-7119
Email: davidsmith@fdlrez.com

Sam Sveeggen

Holiday Companies

Phone: 952-830-8014

Email: sam.sveeggen@holidaycompanies.com

Tom Tietjen

Xerxes Corporation
Phone: 952-887-1890
Email: tom.tietjen@xerxes.com

Mississippi

**Lynn Chambers** 

Mississippi DEQ
Phone: 601-961-5117

Email: lynn\_chambers@deq.state.ms.us

Joseph Curro Mississippi DEQ Phone: 601-961-5655

Email: joseph\_curro@deq.state.ms.us

Andy Dyess Mississippi DEQ Phone: 601-961-5274

Email: andy\_dyess@deq.state.ms.us

Kevin Henderson

Kevin Henderson Consulting, LLC Phone: 601-825-1985 Email: kevin4824@comcast.net

Mike Pigford
Mississippi DEQ
Phone: 601-961-5052

Email: mike\_pigford@deq.state.ms.us

Missouri

**Carol Eighmey** 

Missouri PSTIF

Phone: 573-522-2352

Email: pstif@sprintmail.com

Neal Farrar

Sunbelt Environmental Services, Inc.

Phone: 417-831-5052 Email: nfarrar@sunbeltenv.com

Thais Ann Folta

Missouri Attorney Generals Office

Phone: 573-751-8795 Email: thais.folta@ago.mo.gov

Donnie Greenwalt

Wallis Companies

Phone: 636-549-1611

Email: donnie.greenwalt@wallisco.com

**Daniel Henry** 

Williams & Company Consulting, Inc.

Phone: 573-761-4060 Email: dlh@willconsult.com

Mark Jordan

Missouri Hazardous Waste Management Commission

Phone: 314-709-5534

Email: mjordan@mail.wallisco.com

Daniel Knaebel Missouri DNR

Phone: 573-522-1140

Phone: 636-949-8200

Email: dan.knaebel@dnr.mo.gov

**Jeff Langston**SCI Engineering, Inc.

Email: jlangston@sciengineering.com

Laura Luther

Missouri DNR
Phone: 573-522-2092

Email: laura.luther@dnr.mo.gov

Jonathan McNeely

Tank Tech, Inc.

Phone: 573-380-8321

Email: jonathan@tanktech.com

Heather Peters
Missouri DNR
Phone: 573-751-7877

Email: heather.peters@dnr.mo.gov

Rob Russell

Tank Tech, Inc.

Phone: 888-405-2369

Email: rob@tanktech.com

**Grant Smith** 

Burns & McDonnell Engineering
Phone: 816-822-3223
Email: gsmith@burnsmcd.com

Patrick Vavra
Missouri DNR
Phone: 573-751-6415

Email: patrick.vavra@dnr.mo.gov

Christopher Veit
Missouri DNR
Phone: 573-526-0971

Email: chris.veit@dnr.mo.gov

Patrick Vuchetich

Petro Classroom

Phone: 844-303-6752

Email: pjv@willconsult.com

**David Walters** 

Williams & Company Consulting, Inc.

Phone: 573-761-4060 Email: dww@willconsult.com

Montana

**Charles Armstrong** 

Town Pump, Inc. **Phone:** 406-497-6700

Email: charlesa@townpump.com

Rebecca Convery

Montana DEQ

Phone: 406-444-6347
Email: rconvery@mt.gov

Seth Hendrix Montana DEO

Montana DEQ
Phone: 406-444-1416
Email: shendrix@mt.gov

Jeffrey Kuhn

Montana DEQ
Phone: 406-841-5055
Email: jkuhn@mt.gov

Tom McClure

Confederated Salish & Kootenai Tribes

Phone: 406-883-2888
Email: tommc@cskt.org

Reed Miner

Montana DEQ Phone: 406-755-8982 Email: rminer@mt.gov

Email: jlangston@sciengineering.con



Rebecca Ridenour

Michael Trombetta

Montana DEQ
Phone: 406-444-6436
Email: rridenour@mt.gov

**Anita Trice** 

Fort Peck Tribe Environmental Protection

Phone: 406-768-2353
Email: anita.jbates@yahoo.com

Montana DEQ
Phone: 406-444-6463
Email: mtrombetta@mt.gov

Terry Wadsworth
Montana DEQ
Phone: 406-444-9712
Email: twadsworth@mt.gov

Nebraska

**David Chambers** 

Nebraska DEQ Phone: 402-471-4258

Email: david.chambers@nebraska.gov

Neal Heil
Nebraska DEQ
Phone: 402-471-3093
Email: neal.heil@nebraska.gov

Mona Wunder
Nebraska DEQ
Phone: 402-471-0289

Email: mona.wunder@nebraska.gov

Nevada

Michael Cabble Nevada DEP

Phone: 775-687-9504 Email: mcabble@ndep.nv.gov

Jeff Collins
Nevada DEP
Phone: 775-687-9381
Email: jrcollins@ndep.nv.gov

Email: jrcollins@nde

Washoe County Health District Phone: 775-328-2688

Email: mezell@washoecounty.us

Nicholas Florey

Washoe County Health District

Phone: 775-328-2648

Email: nflorey@washoecounty.us

Dominick Franchino
Southern Nevada Health District
Phone: 702-759-0603

Email: franchino@snhdmail.org

Washoe County Health District
Phone: 775-328-2690

Email: khunt@washoecounty.us

Southern Nevada Health District
Phone: 702-759-0603
Email: isler@snhdmail.org

Valerie King Nevada DEP

Phone: 775-687-9374
Email: vking@ndep.nv.gov

Jonathan Mcrae Nevada DEP

Phone: 775-687-9376
Email: jmcrae@ndep.nv.gov

Dante Merriweather

Southern Nevada Health District

Phone: 702-759-0603

Email: merriweather@snhdmail.org

**Brian Northam** 

Southern Nevada Health District
Phone: 702-759-0603
Email: northam@snhdmail.org

Xavier Tarango-Castorena

Nevada DEP

Phone: 775-687-9380

Email: xtarango-castorena@ndep.nv.gov

Dawn Zemo

Zemo & Associates, Inc. Phone: 775-831-6179

Email: dazemo@zemoassociates.com

**New Hampshire** 

Suzanne Connelly New Hampshire DES

Phone: 603-271-0673

Email: suzanne.connelly@des.nh.gov

Charles Corliss
New Hampshire DES
Phone: 603-271-0686

Email: charles.corliss@des.nh.gov

Benjamin Grigas

AECOM

Phone: 603-606-4814

Email: ben.grigas@aecom.com

Matthew Jones
New Hampshire DES
Phone: 603-271-2986

Email: matthew.jones@des.nh.gov

Michael Juranty
New Hampshire DES
Phone: 603-271-6058

Email: michael.juranty@des.nh.gov

Jennifer Marts
New Hampshire DES
Phone: 603-271-0652

Email: jennifer.marts@des.nh.gov

Spruce Wheelock
New Hampshire DES
Phone: 603-271-2933

Email: spruce.wheelock@des.nh.gov

Sarah Yuhas-Kirn
New Hampshire DES
Phone: 603-271-3645

Email: sarah.yuhaskirn@des.nh.gov

New Jersey

Michael Hastry
New Jersey DEP
Phone: 609-943-4989

Email: mike.hastry@dep.nj.gov

Michael Hollis
New Jersey DEP
Phone: 609-477-0945

Email: michael.hollis@dep.nj.gov

**Bonnie Moore** 

Rimkus Consulting Group

Phone: 732-530-6525

Email: bmmoore@rimkus.com

John Olko

New Jersey DEP Phone: 609-851-7989 Email: john.olko@dep.nj.gov

**New Mexico** 

Lane Andress
EA Engineering
Phone: 505-224-9013
Email: landress@eaest.com

Suzan Arfman
New Mexico ED/PSTB
Phone: 505-222-9527

Email: suzan.arfman@state.nm.us

Dana Bahar New Mexico ED/PSTB

Phone: 505-476-4377 Email: dana.bahar@state.nm.us

**Delia Flores** New Mexico ED/PSTB

Phone: 505-476-5555
Email: delia.flores@state.nm.us

Jennifer Foote New Mexico ED/PSTB Phone: 505-479-4352

Email: jennifer.foote@state.nm.us

Jennifer Fullam
New Mexico ED/PSTB
Phone: 505-476-4391

Email: jennifer.fullam@state.nm.us

Teri McMillan

EA Engineering

Phone: 505-715-4332

Email: tmcmillan@eaest.com

Richard Naranjo

Santa Clara Pueblo Environmental Department

Phone: 505-753-7326

Email: dallison@santaclarapueblo.org

Stephen Reuter
New Mexico ED/PSTB
Phone: 505-222-9577

Email: stephen.reuter@state.nm.us

**Leonard Sabatino** 

Eight Northern Indian Pueblos Council, Inc.

Phone: 505-747-1593
Email: lsabatino@enipc.org

New York

Russ Brauksieck New York State DEC Phone: 518-402-9553

Email: russ.brauksieck@dec.ny.gov

Kevin Hale

New York State DEC
Phone: 518-281-7347
Email: kevin.hale@dec.ny.gov

Richard Hall 7-Eleven, Inc.

Phone: 716-983-4981
Email: richard.hall@7-11.com

Ian Jimerson

Seneca Nation

Phone: 716-532-2546
Email: ian.jimerson@sni.org

**Tim Johncox** 

Stewart's Shops Corporation

Phone: 518-581-1201

Email: tjohncox@stewartsshops.com

Dennis McChesney
U.S. EPA Region 2
Phone: 212-637-4232

Email: mcchesney.dennis@epa.gov

Ton Moy

U.S. EPA Region 2

Phone: 212-637-4079

Email: moy.ton@epa.gov

Eric Richardson
City of New York
Phone: 212-386-0273

Email: erichard@dcas.nyc.gov

**Roland Riegel** 

Underwriters Laboratories

Phone: 631-546-2421

Email: roland.a.riegel@ul.com

**Matthew Twoguns** 

Seneca Nation

Phone: 716-532-2546

Email: matt.twoguns@sni.org

**North Carolina** 

Stephen Barnhardt

North Carolina DENR **Phone:** 919-707-8263

Email: art.barnhardt@ncdenr.gov

**Tomie Benton** 

Geological Resources, Inc. Phone: 704-845-4010

Email: Ilh@geologicalresourcesinc.com

John Brown

Geological Resources, Inc. **Phone:** 704-845-4010

 $\textbf{Email:} \ johnbrown@geologicalresourcesinc.com$ 

Lisa Hilbish

Geological Resources, Inc. Phone: 704-845-4010

Email: Ilh@geologicalresourcesinc.com

Vance Jackson
North Carolina DENR
Phone: 919-707-8262

Email: vance.jackson@ncdenr.gov

Terry Kennedy

Geological Resources, Inc. **Phone:** 704-845-4010

Email: tdk@geologicalresourcesinc.com

Rick Long

RDM Industrial Electronics, Inc.

Phone: 828-652-8346

Email: renae@rdm.net

John Patrick

RDM Industrial Electronics, Inc.

Phone: 828-652-8346

Email: renae@rdm.net

**Brent Puzak** 

Circle K Stores, Inc.

Phone: 904-219-7170

Email: brent.puzak@thepantry.com

Michael Shaw Cardno ATC

Phone: 704-529-3200

Email: michael.d.shaw@cardno.com

Ruth Straus

North Carolina DENR **Phone:** 919-707-8299 **Email:** ruth.strauss@ncdenr.gov

**Rick Whately** 

Xerxes Corporation
Phone: 919-567-3851
Email: rick.whately@xerxes.com

**North Dakota** 

Jeff Bitz

North Dakota PRCF Phone: 701-328-9606 Email: jbitz@nd.gov

**Carl Ness** 

North Dakota DOH

Phone: 701-328-5166

Email: caness@nd.gov

Leon Vetter

North Dakota DOH

Phone: 701-328-5174

Email: lvetter@nd.gov

**Northern Mariana Islands** 

Lareina Camacho

Northern Mariana Islands DEQ Phone: 670-664-8500

Email: reinacamacho@becq.gov.mp

Jacob Lizama

Northern Mariana Islands DEQ
Phone: 670-664-8511
Email: jacoblizama@deq.gov.mp

Ohio

Khan Adams

Great American Insurance
Phone: 513-763-7134
Email: kladams@gaic.com

David Durling
Zerust Oil & Gas

Phone: 832-482-8781
Email: ddurling@ntic.com

Brian Dyson
U.S. EPA Region 5
Phone: 513-569-7789
Email: dyson.brian@epa.gov

Parrish Evans OPW

Phone: 800-422-2525

Email: parrish.evans@opwglobal.com

Scott Fleming Speedway, LLC Phone: 937-863-6624

Email: sjfleming@speedway.com

Anne Marie Gregg

Battelle

Phone: 614-424-7419 Email: gregga@battelle.org

Scott Heim OPW

Phone: 800-422-2525

Email: scott.heim@opwglobal.com

**Ed Kammerer** 

OPW

Phone: 513-235-2555

Email: ed.kammerer@opwglobal.com

Fran Kremer

U.S. EPA Region 5

Phone: 513-569-7346

Email: kremer.fran@epa.gov

Andrew Murray

U.S. EPA Region 5

Phone: 513-569-7332

Email: murray.andrew@epa.gov

Jonathan Stong

OPW

Phone: 513-235-2555

Email: jonathan.song@opwglobal.com

Eric Swaisgood

Speedway LLC
Phone: 937-863-6513

Email: emswaisgood@speedway.com

Tim Thickstun

MAST, Inc.

Phone: 614-252-0565 Email: tim@advfuel.com

Oklahoma

Chris Bouldin

PEI

Phone: 918-494-9696 Email: cbouldin@pei.org

Jeff Brammer EcoVac Services

Phone: 405-532-2766

Email: jeff.brammer@ecovacservices.com

Denetta Brannon

Oklahoma Corporation Commission

Phone: 405-522-4461

Email: d.brannon@occemail.com

**Darryl Cole** 

Oklahoma Corporation Commission

Phone: 405-522-4810 Email: d.cole@occemail.com

Todd Darrough

QuikTrip Corporation

Phone: 918-615-7412
Email: tdarroug@quiktrip.com

Keeley Godwin

Cherokee Nation/Inter-Tribal Environmental Coun

Phone: 918-453-5089

Email: keeley-godwin@cherokee.org

Todd Halihan

Oklahoma State University Phone: 405-744-9248

Email: todd.halihan@okstate.edu

**Kristie Hargrove** U.S. EPA Region 6 Phone: 580-436-8578

Email: hargrove.kristie@epa.gov

Cherokee Nation/Inter-Tribal Environmental Council

Phone: 918-453-5149

Email: david-hayes@cherokee.org

**Shawn Howard** 

Citizen Potawatomi Nation Phone: 405-275-3121

Email: showard@potawatomi.org

Ken Jewell

U.S. EPA Region 6 Phone: 580-436-8985 Email: jewell.ken@epa.gov

**Rick Long** PEI

Phone: 918-236-3970

Email: rlong@pei.org

Margarita Mendivelso

Oklahoma Corporation Commission

Phone: 405-522-1439

Email: m.mendivelso@occemail.com

Chickasaw Nation Phone: 580-399-0174

Email: josh.presley@chickasaw.net

**Bob Renkes** 

PEI

Phone: 918-809-6292 Email: rrenkes@pei.org

**Terri Roberts** 

Oklahoma Environmental Services

Phone: 405-514-9711

Email: terri.roberts@OEServices.net

**Evan Stallings** 

Citizen Potawatomi Nation Phone: 405-275-3121

Email: estallings@potawatomi.org

Laura Thompson

QuikTrip Corporation Phone: 918-615-7658 Email: Ithompso@quiktrip.com

U.S. EPA Region 6 Phone: 580-436-8550

Email: weaver.jim@epa.gov

**Damon Wright** QuikTrip Corporation Phone: 918-615-7633

Email: dawright@quiktrip.net

**Bob Young** 

PEI

Phone: 918-236-3966 Email: byoung@pei.org

Oregon

**Don Hanson** Oregon DEQ

Phone: 541-687-7349

Email: hanson.don@deq.state.or.us

Stephanie Holmes

Oregon DEQ

Phone: 503-229-6085

Email: holmes.stephanie@deq.state.or.us

Michael Kortenhof

Oregon DEQ

Phone: 503-229-5474

Email: kortenhof.mike@deq.state.or.us

Rodnev Mann

ESC Lab Sciences Phone: 303-981-3171

Email: rmann@esclabsciences.com

Jeff Schatz Oregon DEQ

Phone: 503-229-5024

Email: schatz.jeff@deq.state.or.us

Mitch Scheel

Oregon DEQ

Phone: 503-229-6704

Email: scheel.mitch@deq.state.or.us

Pennsylvania

**David Bardsley** 

Directed Technologies Drilling, Inc.

Phone: 713-545-1859

Email: david@horizontaldrill.com

Karen Crumlish

U.S. EPA Region 3 Phone: 215-814-3398

Email: crumlish.karen@epa.gov

**Matthew Cutshall** 

Sheetz, Inc.

Phone: 814-239-1308 Email: mcutshal@sheetz.com

**David Dodson** 

Sheetz. Inc.

Phone: 814-239-1402 Email: ddodson@sheetz.com

Kammy Halterman

Pennsylvania DEP Phone: 814-332-6191 Email: khalterman@pa.gov

**Gerald Hawk** ICF International

Phone: 724-459-0612 Email: jerryhawk@comcast.net

**Bill Jenkins** 

Crompco

Phone: 860-668-4643

Email: bill.jenkins@crompco.com

Sara Kinslow U.S. EPA Region 3

Phone: 215-814-5577 Email: kinslow.sara@epa.gov

Edward Kubinsky, Jr.

Crompco, Inc. Phone: 610-633-9732

Email: ed.kubinsky@crompco.com

**Robert May** 

Synergy Environmental Phone: 485-369-2007

Email: rmay@synergyenvinc.com

**Bob Minissale** 

Crompco

Phone: 800-646-3161

Email: bob.minissale@crompco.com

**Carlos Mora** 

ACE Group

Phone: 215-640-5212

Email: carlos.mora@acegroup.com

Leo Mullin

Environmental Liability Assessment, LLC

Phone: 215-826-0462 Email: leomullin@comcast.net

Farhan Nuruzzaman

U.S. EPA Region 3 Phone: 215-814-3382

Email: nuruzzaman.farhan@epa.gov

**David Piercey** 

JD2 Environmental, Inc. Phone: 610-430-8151 Email: dpiercey@jd2env.com

Louis Ramalho

U.S. EPA Region 3 Phone: 215-814-2681 Email: ramalho.louis@epa.gov

Michael Sarcinello

Aquaterra Technologies, Inc. Phone: 484-459-3815 Email: ms@aquaterra-tech.com

Kris Shiffer

Pennsylvania DEP Phone: 717-772-5809 Email: kshiffer@pa.gov

Tristan Steichen

Antea Group USA Phone: 914-715-2206

Email: tristan.steichen@anteagroup.com

Pennsylvania UST Indemnification Fund

Phone: 717-783-8093 Email: asteiner@pa.gov

Julie Steward

ACE Group Phone: 215-640-4437

Email: julie.steward@acegroup.com

**Ed Szalankiewicz** 

7-Eleven, Inc.

Phone: 724-651-7314 Email: edward.szalankiewicz@7-11.com

Karl Weimer Sunoco, LP

Phone: 610-213-3921

Email: kdweimer@sunocoinc.com

**Robert Winterburn** 

ACE Group

Phone: 215-640-1451

Email: robert.winterburn@acegroup.com

Josh Worth

Wawa

Phone: 610-558-8521

Email: joshua.m.worth@wawa.com

Brian Yazemboski

Penske Truck Leasing
Phone: 610-603-8450

Email: brian.yazemboski@penske.com

**Puerto Rico** 

**Efrain Calderon** 

Arcadis

Phone: 787-777-4000

Email: efrain.calderon@arcadis-us.com

Jancy DeJesus
Puerto Rico EQB
Phone: 787-767-8181

Email: jancydejesus@jca.pr.gov

**Carlos Figueroa** 

Puma Energy Caribe LLC **Phone:** 787-405-7215

 $\textbf{Email:} \ \, \textbf{carlos.figueroa@pumaenergy.com}$ 

Wanda Garcia
Puerto Rico EQB
Phone: 787-767-8073

Email: wandagarcia@jca.pr.gov

**Irving Rivera** 

Puma Energy Caribe LLC Phone: 787-705-5304

Email: irving.rivera@pumaenergy.com

Wilmarie Rivera
Puerto Rico EQB
Phone: 787-413-3049

Email: wilmarierivera@jca.pr.gov

Ivonne Rodriguez-Robles

Puerto Rico EQB

Phone: 787-767-8181

Email: ivonnerodriguez@jca.pr.gov

Rafael Romero
Puma Energy Caribe LLC
Phone: 787-382-5514

Email: rafael.romero@pumaenergy.com

**Rhode Island** 

Kevin Gillen

Rhode Island DEM

Phone: 401-222-2797

Email: kevin.gillen@dem.ri.gov

Hannah Jones

Warren Rogers Associates
Phone: 401-846-4747

Email: hjones@warrenrogers.com
Jill Jones

Warren Rogers Associates
Phone: 401-846-4747

Email: jjones@warrenrogers.com

William Jones

Warren Rogers Associates
Phone: 800-972-7472

Email: wjones@warrenrogers.com

Sofia Kaczor

Rhode Island DEM

Phone: 401-222-2797 x7121 Email: sofia.kaczor@dem.ri.gov

Richard LeFebvre

Rhode Island DEM
Phone: 401-222-1360

Email: richard.lefebvre@dem.ri.gov

Jillian Thompson

Rhode Island DEM
Phone: 607-427-5033

Email: jillian.thompson@dem.ri.gov

**South Carolina** 

Dee DeBerry Cardno ATC

Phone: 803-920-2625

Email: dee.deberry@cardno.com

Josh Fowler

NOV Fiber Glass Systems

Phone: 864-617-2439

Email: joshua.fowler@nov.com

Mihir Mehta

South Carolina DHEC

Phone: 803-898-2544

Email: mehtam@dhec.sc.gov

Read Miner

South Carolina DHEC
Phone: 803-898-2544
Email: minerrs@dhec.sc.gov

Lee Monts

South Carolina DHEC

Phone: 803-898-2544

Email: montsla@dhec.sc.gov

Don Siron

South Carolina DHEC
Phone: 803-898-2544
Email: sirondl@dhec.sc.gov

South Dakota

Alan Bakeberg

South Dakota DENR/PRCF Phone: 605-773-3769

Email: alan.bakeberg@state.sd.us

Randy Bettelyoun

Oglala Sioux Tribe Env. Prot. Phone: 605-867-5236 Email: ostust@oglala.org

Lloydell Mesteth

Oglala Sioux Tribe Env. Prot. Phone: 605-867-5236
Email: suzym@oglala.org

Tennesee

**David Freese** 

Titan Cloud Software

Phone: 615-618-0499

Email: dfreese@titancloud.com

Scot Thrash

Titan Cloud Software

Phone: 615-618-0499

Email: sthrash@titancloud.com

Tennessee

**Chris Andrews** 

MVI Field Services

Phone: 615-320-7317

Email: candrews@mvifieldservices.com

Ashley Ball

Tennessee DEC
Phone: 615-507-8564
Email: ashley.ball@tn.gov

**Amanda Bennett** 

Titan Cloud Software

Phone: 615-618-0499

Email: abennett@titancloud.com

Rob Boughton
Titan Cloud Software
Phone: 615-618-0499

Email: rboughton@titancloud.com

Lamar Bradley
Tennessee DEC
Phone: 615-532-0952
Email: lamar.bradley@tn.gov

**Keith Carlton**Pilot Travel Centers **Phone:** 865-850-4895

Email: keith.carlton@pilottravelcenters.com

Mike Chapman
Pilot Travel Centers
Phone: 865-253-5766

Email: mike.chapman@pilottravelcenters.com

Melinda Crutchfield

Tennessee DEC
Phone: 615-532-0955

Email: melinda.s.crutchfield@tn.gov

Cindy Greene
Tennessee DEC
Phone: 615-532-0988

Email: cindy.greene@tn.gov

Kate Harper

Tennessee Attorney General's Office

Phone: 615-253-3739
Email: kate.harper@ag.tn.gov

Phil Hunt

Titan Cloud Software

Phone: 615-618-0499

Email: phunt@titancloud.com

Rachel Jrade-Rice

Tennessee Attorney General's Office

Phone: 615-741-2820

Email: rachel.jrade-rice@ag.tn.gov

Dustin Leach
US Foods

Phone: 865-388-3886

Email: dustin.leach@usfoods.com

Heath Matlock

Titan Cloud Software

Phone: 615-618-0499

Email: hmatlock@titancloud.com

Willo Smith
MVI Field Services
Phone: 615-320-7317

Email: wsmith@mvifieldservices.com

Karen Stachowski

Tennessee DEC

Phone: 615-532-0114

Email: karen.stachowski@tn.gov

Don Taylor
Tennessee DEC
Phone: 423-854-5391

Email: don.taylor@tn.gov

Texas

Ignacio Allende

Tanknology, Inc. Phone: 512-380-7104

Email: iallende@tanknology.com

**David Anderson** U.S. EPA Region 6 Phone: 214-665-6512

Email: anderson.david@epa.gov

**Lauren Arons** Tanknology, Inc. Phone: 512-380-7104

Email: larons@tanknology.com

Tora Batiste Sunoco, Inc.

Phone: 832-234-3634

Email: tora.batiste@sunoco.com

Mark Becker 7-Eleven, Inc.

Phone: 716-830-9807 Email: mark.becker@7-11.com

Peggie Betz 7-Eleven, Inc.

Phone: 972-828-7805 Email: peggie.betz@7-11.com

Stephen Boyd 7-Fleven Inc

Phone: 714-771-5484

Email: stephen.boyd@7-11.com

Jennifer Dart CB&I

Phone: 972-773-8409 Email: jennifer.dart@cbi.com

George DeVaull Shell Global Solutions Phone: 281-544-7430

Email: george.devaull@shell.com

Pete DeWeese Tanknology, Inc. Phone: 512-568-9772

Email: pdeweese@tanknology.com

**Howard Dockery** Simmons Corporation Phone: 972-497-9002

Email: alison.amiot@simmons-corp.com

**Todd Ferguson** Tanknology, Inc. Phone: 512-380-7104

Email: tferguson@tanknology.com

**Clay Findley** 

Containment Solutions, Inc. Phone: 936-756-7731 Email: sales@csiproducts.com

Ron Fulenchek 7-Eleven, Inc.

Phone: 214-850-6786 Email: ron.fulenchek@7-11.com

Mike Hawthorne GEI Consultants, Inc. Phone: 817-380-3892

Email: mhawthorne@geiconsultants.com

Iamil Hershewe

7-Eleven, Inc.

Phone: 714-264-6074 Email: jamil.hershewe@7-11.com

**Evelyn Hicks** 

Containment Solutions, Inc. Phone: 936-756-7731 Email: sales@csiproducts.com

**Brad Hoffman** 

Tanknology, Inc.

Email: bhoffman@tanknology.com

**Scott Johnson** 

7-Eleven, Inc. Phone: 847-608-1136

Email: scott.johnson@7-11.com

**Kevin Keegan** 

Tanknology, Inc. Phone: 800-666-0288

Email: kkeegan@tanknology.com

Ravi Kolhatkar

Chevron Energy Technology Company

Phone: 713-654-2400 Email: kolhatrv@chevron.com

**Matthew Lahvis** Shell Global Solutions Phone: 281-544-6884

Email: matthew.lahvis@shell.com

Robert Largent

Army & Airforce Exchange Service

Phone: 214-312-2099 Email: largentrm@aafes.com

**Roy Lawrence** 

Containment Solutions, Inc. Phone: 936-756-7731

Email: rlawrence@csiproducts.com

Oleta Martin 7-Fleven Inc

Phone: 972-828-7384 Email: oleta.martin@7-11.com

Tameka McCaskill U.S. EPA Region 6 Phone: 214-665-8578

Email: mccaskill.tameka@epa.gov

**Raymond McNiece** SEI Fuels. Inc.

Phone: 210-829-3545

Email: raymond.mcniece@7-11.com

John Meyer 7-Eleven, Inc.

Phone: 904-501-6827 Email: john.meyer@7-11.com

Victoria Modak

Texas CEQ

Phone: 512-239-5695

Email: victoria.modak@tceq.texas.gov

John Nesbit

Tanknology, Inc. Phone: 512-380-7104

Email: jnesbit@tanknology.com

Carol Paton

Stripes/Sunoco Phone: 361-884-2463

Email: carol.paton@sunoco.com

Allen Porter

Tanknology, Inc. Phone: 512-380-7104

Email: aporter@tanknology.com

**Doug Reske** Texas CEQ

Phone: 817-588-5842

Email: doug.reske@tceq.texas.gov

lose Rios

7-Eleven, Inc. Phone: 972-828-6592

Email: jose.rios@7-11.com

William Rixey

University of Houston Phone: 713-743-4279 Email: wrixey@uh.edu

**Deanne Rotta** 

7-Eleven, Inc. Phone: 925-699-9795

Email: deanne.rotta@7-11.com

**Richard Schnabel** 

Tanknology, Inc. Phone: 888-811-7558

Email: rschnabel@tanknology.com

Suzanne Schweikart

7-Eleven, Inc. Phone: 757-201-0823

Email: suzanne.schweikart@7-11.com

**Ron Shaffer** 

Containment Solutions, Inc. Phone: 936-756-7731 Email: sales@csiproducts.com

John Sieger Tanknology, Inc. Phone: 80-666-1215

Email: jsieger@tanknology.com

Robert Snowbarger U.S. EPA Region 6 Phone: 214-665-7131

Email: snowbarger.robert@epa.gov

**Larry Speaks** 

Mass Technology Corporation Phone: 903-986-3564 Email: Ids@mtctesting.com

**Larry Thomas** 

U.S. EPA Region 6 Phone: 214-665-8344 Email: thomas.larry@epa.gov

**Todd Thompson** 

Texas CEQ

Phone: 713-422-8941

Email: todd.thompson@tceq.texas.gov

Juan Velasco

American Airlines Phone: 817-967-1835 Email: juan.velasco@aa.com

Trov Wallace

Army & Air Force Exchange Service

Phone: 808-391-8703 Email: wallacetr@aafes.com

Jennifer Washburn

Stripes/Sunoco Phone: 361-537-6690

Email: jennifer.washburn@sunoco.com

**Philip Watters** 

Rimkus Consulting Group Phone: 713-621-3550 Email: prw@rimkus.com

Marc Westfall 7-Eleven, Inc.

Phone: 214-415-0146

Email: marc.westfall@7-11.com

**Amy White** 

Ryder Fuel Services Phone: 281-647-8900 Email: amy\_white@ryder.com

John Willrodt

CST Brands, Inc. Phone: 210-692-2224

Email: john.willrodt@cstbrands.com

**Cathy Wise** 

7-Eleven, Inc. Phone: 407-247-6750 Email: cathy.wise@7-11.com

Utah

**Bob Barnes Fuel Operator** 

Phone: 213-465-3269

Email: bbarnes@fueloperator.com

**Therron Blatter** Utah DEQ

Phone: 801-536-4141 Email: tblatter@utah.gov

**Robin Davis** Utah DEQ

Phone: 801-536-4177

Email: rvdavis@utah.gov

**Brent Everett** Utah DEQ

Phone: 801-536-4100 Email: beverett@utah.gov

**Doug Hansen** Utah DEQ

Phone: 801-536-4454 Email: djhansen@utah.gov

Logan McDowell

**Icon Containment Solutions** Phone: 801-683-8482 Email: info@icontainment.com

Mike Pecorelli **Utah DEQ** 

Phone: 801-536-4291

Email: mpecorelli@utah.gov

**Paul Reber** 

**Icon Containment Solutions** Phone: 801-683-8482 Email: paul@icontainment.com John Wainwright

Stantec

Phone: 801-261-0090

Email: john.wainwright@stantec.com

Sean Warner Utah DEQ

Phone: 801-536-4163 Email: sdwarner@utah.gov

Steve Wellman

Fuel Operator Phone: 385-312-2111 Email: steve@fueloperator.com

Jason Wilde Utah DEQ

Phone: 801-536-4132 Email: jwilde@utah.gov

**David Wilson** 

Utah DEQ

Phone: 801-536-4138 Email: djwilson@utah.gov

Paul Zahn

Utah DEO

Phone: 801-536-4181 Email: pzahn@utah.gov

Vermont

**Matthew Moran** 

Vermont DEC

Phone: 802-522-5729

Email: matt.moran@vermont.gov

Lynda Provencher

Vermont DEC

Phone: 802-249-5562

Email: lynda.provencher@vermont.gov

June Reilly Vermont DEC

Phone: 802-522-0231

Email: june.reilly@vermont.gov

**Chuck Schwer** Vermont DEC

Phone: 802-249-5324

Email: chuck.schwer@vermont.gov

**Richard Spiese** 

Vermont DEC

Phone: 802-249-5083

Email: richard.spiese@vermont.gov

Ted Unkles

Vermont DEC

Phone: 802-522-0488

Email: ted.unkles@vermont.gov

Virgin Islands

U.S. Virgin Islands DPNR-DEP Phone: 340-773-1082

Email: peters.kerten@dpnr.vi.gov

Virginia

William Benni

Improved Analysis through Modeling (IAtM)

Phone: 540-394-3236 Email: wbenni@iatm-llc.com Thomas Crowder

Colony Specialty Phone: 804-560-3533

Email: tcrowder@colonyspecialty.com

**Andrew Fox** 

**Timmons Group** Phone: 571-212-2662 Email: andy.fox@timmons.com

Robert Howard

Virginia DEQ Phone: 540-562-6855

Email: robert.howard@deq.virginia.gov

**Betty Lamp** 

Virginia DEQ Phone: 804-698-4322

Email: betty.lamp@deq.virginia.gov

Dan Manweiler

Virginia DEQ Phone: 276-676-4837

Email: daniel.manweiler@deq.virginia.gov

**David Petersen** 

7-Eleven, Inc.

Phone: 407-403-2995

Email: david.petersen@7-11.com

Danae Smith

**NAVSUP Energy** Phone: 703-767-7343

Email: danae.smith@dla.mil

Alexander Wardle Virginia DEQ

Phone: 703-583-3822

Email: alexander.wardle@deq.virginia.gov

Washington

**Brittany Baugher** 

Washington DOE

Phone: 425-649-7149

Email: brittany.baugher@ecy.wa.gov

**Dennis Bock** 

Costco Wholesale Phone: 425-427-7653

Email: dbock@costco.com

**Charlotte Boulind-Yeung** 

U.S. EPA Region 10

Phone: 206-553-6315

Email: boulind-yeung.charlotte@epa.gov

**Peter Contreras** 

U.S. EPA Region 10 Phone: 206-553-6708

Email: contreras.peter@epa.gov

**Lauris Davies** 

U.S. EPA Region 10 Phone: 206-553-2857

Email: davies.lauris@epa.gov

**David Domingo** 

U.S. EPA Region 10 Phone: 206-553-2456

Email: domingo.david@epa.gov

Jim Greeves

U.S. EPA Region 10 Phone: 360-753-8080

Email: greeves.jim@epa.gov

Kristopher Grinnell

Washington DOE

Phone: 360-304-9496

Email: krgr461@ecy.wa.gov

Ben Horwitz

U.S. EPA Region 10 **Phone:** 206-553-2241

Email: horwitz.benjamin@epa.gov

Jeff Johnston Washington DOE

Phone: 360-407-6907

Email: jeff.johnston@ecy.wa.gov

Russell Olsen

Washington State PLIA

Phone: 360-407-0520

Email: russ.olsen@plia.wa.gov

Carrie Pederson

Washington State PLIA **Phone:** 360-407-0520

Email: carrie.pederson@plia.wa.gov

Rob Rau

U.S. EPA Region 10

Phone: 206-553-6285

Email: rau.rob@epa.gov

**Erik Sirs** 

U.S. EPA Region 10
Phone: 206-553-8634
Email: sirs.erik@epa.gov

Ben Thomas UST Training

Phone: 866-301-8265
Email: ben@USTtraining.com

Tally Young

Washington DOE

Phone: 425-495-1645

Email: tayo461@ecy.wa.gov

West Virginia

Erin Brittain

West Virginia DEP

Phone: 304-368-2000

Email: erin.r.brittain@wv.gov

Ruth Porter
West Virginia DEP
Phone: 304-926-0499
Email: ruth.m.porter@wv.gov

Wisconsin

John Adrian

Franklin Fueling Systems
Phone: 608-469-2256

Email: adrian@franklinfueling.com

Gregory Bareta
Wisconsin DATCP
Phone: 608-224-5150
Email: greg.bareta@wi.gov

Dawn Brooks

Purpora Engineering, Inc. **Phone:** 262-536-4081

Email: dawnb@purporaengineering.com

Steve Purpora

Purpora Engineering, Inc. **Phone:** 262-268-1150

Email: chrisr@purporaengineering.com

#### **Chris Ramshaw**

Purpora Engineering, Inc. **Phone:** 262-268-1150

Email: chrisr@purporaengineering.com

Matt Schuessler

Franklin Fueling Systems **Phone:** 925-785-2740

Email: schuessler@franklinfueling.com

## Wyoming

Oma Gilbreth

Wyoming DEQ **Phone:** 307-777-7097

Email: oma.gilbreth@wyo.gov

Scott Hendrickson

Wyoming DEQ

Phone: 307-777-7095 Email: scott.hendrickson@wyo.gov

57

#### **Will Anderson**

Director, Cleanup and Revitalization Division U.S. EPA OUST anderson.will@epa.qov

## **Randy Bettelyoun**

UST/LUST Coordinator Oglala Sioux Tribe ostust@oglala.org

### **Leslie Carr**

Energy Act Coordinator Kentucky DEP leslie.carr@ky.gov

#### **David Chambers**

Petroleum Remediation Supervisor Nebraska DEQ david.chambers@nebraska.gov

## **Matt Garcia**

Senior Inspector Arizona DEQ garcia.mathhew@azdeq.gov

#### **Linda Gerber**

Director, Release Prevention Division U.S. EPA OUST gerber.linda@epa.gov

#### **Tom Groves**

Director, Wastewater & On-Site Programs NEIWPCC tgroves@neiwpcc.org

#### Lela Hagan

Program Analyst U.S. EPA OUST hagan.lela@epa.gov

# Jill Hall

Planner Delaware DNREC jill.hall@state.de.us

# **Jaclyn Harrison**

Environmental Analyst NEIWPCC jharrison@neiwpcc.org

## **David Hayes**

Environmental Specialist Cherokee Nation david-hayes@cherokee.org

# **Betty Lamp**

Director, Office of Spill Response and Remediation Virginia DEQ betty.lamp@deq.virginia.gov

#### John LeBlanc

Environmental Response Coordinator Red Lake Band of Chippewa Indians jleblanc@redlakenation.org

#### **Dorothy Malaier**

Environmental Manager Alabama DEM dsm@adem.state.al.us

#### **Dan Manweiler**

Groundwater Manager Virginia DEQ daniel.manweiler@deq.virginia.gov

#### John Olko

Supervising Environmental Specialist New Jersey DEP john.olko@dep.state.nj.us

# **Janice Pearson**

UST, Solid Waste, and PCB Unit Chief U.S. EPA Region 8 pearson.janice@epa.gov

# **Heather Peters**

Environmental Specialist Missouri DNR heather.peters@dnr.mo.gov

#### Michele Piazza

Office Manager NEIWPCC mpiazza@neiwpcc.org

#### **Ron Poltak**

Executive Director NEIWPCC rpoltak@neiwpcc.org

# **Wayne Pudney**

Senior Technical Advisor Arizona DEQ pudney.wayne@azdeq.gov

# **Stephen Reuter**

Geologist Manager, Petroleum Storage Tank Bureau New Mexico ED stephen.reuter@state.nm.us

#### **Charles Reyes**

Senior Staff Associate ASTSWMO charlesr@astswmo.org

#### Dania E. Rodriguez

Deputy Executive Director ASTSWMO daniar@astswmo.org

#### **Jennifer Steffes**

Environmental Protection Specialist Colorado DLE jennifer.steffes@state.co.us

#### Susan Sullivan

Deputy Director NEIWPCC ssullivan@neiwpcc.org





