

 NTC 2022

September 2022

Dear Colleague,

On behalf of the conference sponsors, it is our pleasure to welcome you to Pennsylvania for the 27th National Tanks Conference and Exposition (NTC). As you take part in the many learning and networking opportunities offered at the conference, we encourage you to make the most of your time at the Wyndham Grand and throughout the beautiful and historic city of Pittsburgh.

The 2022 conference agenda includes many pertinent topics including environmental justice, site closure, supply chain challenges, and state fund soundness. With so many outstanding sessions offered, we urge you and your colleagues to be strategic when deciding the sessions to attend. For your convenience and continued learning, the majority of presentations will be available for download on the conference website.

We have made real progress on tanks issues over the past few decades, but there is always more work to be done. It has been four years since the last NTC, and we have so much to discuss, share, and learn from each other. We urge you to take advantage of this rare opportunity when the tanks community comes together as one. Thank you for joining us.

Sincerely,



Susan J. Sullivan
Executive Director
New England Interstate
Water Pollution
Control Commission



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



Mark Barolo
Acting Director
Office of Underground
Storage Tanks
Environmental Protection
Agency



Ramez Ziadeh, P.E.
Acting Secretary
Pennsylvania Department of
Environmental Protection



Michael Humphreys
Acting Commissioner
Pennsylvania Insurance
Department

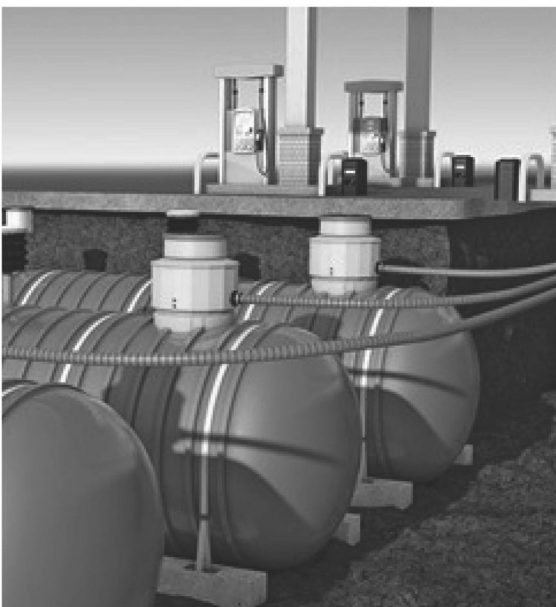


Pennsylvania's Underground Storage Tank Program

Under the Storage Tank and Spill Prevention Act, which became effective on August 5, 1989, the Storage Tank Program is responsible for developing and implementing regulations, policies, technical guidance, and public outreach programs for aboveground and underground storage tank systems. Specific program responsibilities include storage tank registration and payment of an annual registration fee, certification of third-party tank handling and inspection individuals and companies, permitting of storage tanks, establishment of technical and operational standards for aboveground and underground storage tank systems, and procedures for reporting of releases and corrective action by storage tank owners. The Storage Tank Cleanup Program is responsible for developing and maintaining regulations, policies, technical guidance, and public outreach programs necessary to remediate releases from storage tanks in accordance with the Clean Streams Law, the Storage Tank and Spill Prevention Act and the Land Recycling and Environmental Remediation Standards Act (Act 2). Storage Tank Cleanup Program staff in each of DEP's six regional offices respond to complaints from individuals affected by releases from storage tanks, oversee and track the status of responsible party-led cleanups, and perform state-led corrective actions.



Rachel Carson State Office Building
400 Market Street, 14th Floor,
Harrisburg, PA 17101
717-772-5599
1-800-42-TANKS (in PA Only)



Pennsylvania's Underground Storage Tank Indemnification Fund

The USTIF formally began operations on February 1, 1994, and since that time has provided funding to remediate over 5,000 LUST sites in the Commonwealth. In addition to providing the funding for site cleanup activities, the USTIF also provides coverage for tank installation firms in the event their activities result in a release and an optional Heating Oil Program that provides coverage for tanks greater than 3,000 gallons.

The mission of the USTIF is to provide for a cleaner Commonwealth by administering a fiscally responsible program to reimburse eligible participants for reasonable and necessary expenses incurred from releases into the environment.



USTIF | 901 N. 7th Street | Harrisburg, PA 17102
(717) 783-8093 | www.ustif.pa.gov

National Tanks Conference Co-Sponsors



New England Interstate Water Pollution Control Commission

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

NEIWPCC is a non-profit interstate organization established through an act of Congress in 1947. The organization coordinates activities that encourage cooperation among the states, trains environmental professionals, leads research projects, and provides overall leadership in the management and protection of water and the environment. In addition to planning the NTC, NEIWPCC develops and promotes national training opportunities and manages a workgroup of state and federal UST professionals in the Northeast. NEIWPCC has published and distributed LUSTLine since 1985, which is the publication of record for UST, LUST, and Financial Responsibility matters nationwide.

NEIWPCC Tanks Program Contact: Lillian Zemba | 978-349-2525 | lzemba@neiwpcc.org



Office of Underground Storage Tanks

1200 Pennsylvania Avenue, NW 5401T
Washington, DC 20460
www.epa.gov/ust

United States Environmental Protection Agency

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: Liz McDermott | 202-564-0646 | mcdermott.elizabeth@epa.gov



Association of State and Territorial Solid Waste Management Officials

1015 18th Street, NW, Suite 803
Washington, DC 20036
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. Our 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 and EPA OUST to achieve our common goal of protecting human health and the environment.

ASTSWMO Staff Contact: Charles Reyes | 202-640-1063 | charlesr@astswmo.org

Walkable Dining Options from Pittsburgh's David L. Lawrence Convention Center

- 1 Alihan's Mediterranean
- 2 August Henry's City Saloon
- 3 Backstage Bar at Theater Square
- 4 Bakersfield
- 5 Bardacia
- 6 Bigelow Grille at DoubleTree
- 7 Bill's Bar & Burger
- 8 Blend Bar & Cigars
- 9 Braddock's Rebellion
- 10 Butcher and the Rye
- 11 Capital Grille of Pittsburgh
- 12 Christos Mediterranean Grille
- 13 City Works Eatery & Pour House
- 14 Con Alma
- 15 Condado Tacos
- 16 Crazy Mocha Coffee
- 17 Dibella's Subs
- 18 Eadies' Market & Catering
- 19 Eddie Merlot's
- 20 Eddie V's Prime Seafood
- 21 Elevation
- 22 Eleven Contemporary Kitchen
- 23 Ephesus Mediterranean
- 24 Fifth Avenue Place Arcade Shops
- 25 Five Iron Golf
- 26 fl.2
- 27 Fogo de Chao
- 28 Freshii
- 29 Hello Bistro
- 30 Hotel Monaco Biergarten
- 31 Howl at the Moon
- 32 Jimmy John's Sandwiches
- 33 La Gourmandine
- 34 Original Oyster House
- 35 Meat & Potatoes
- 36 Mezzo at Sienna Mercato
- 37 Millie's Homemade Ice Cream
- 38 Milk Shake Factory
- 39 Moe's Southwest Grill
- 40 Morton's The Steakhouse
- 41 Nicholas Coffee & Tea Co.
- 42 Olive or Twist
- 43 Ollie's Gastropub
- 44 McCormick & Schmick's
- 45 Palm Court at Omni
- 46 Penn City Grille at Westin
- 47 Penn Society
- 48 Penn Station East Coast Subs
- 49 Primanti Bros. Market Square
- 50 Redbeard's Sports Bar & Grill
- 51 Revel & Roost
- 52 Rock 'n' Joe Coffee Bar
- 53 Ruth's Chris Steak House
- 54 Scarpino
- 55 Sienna Mercato

- 56 Slider Vibes
- 57 Sly Fox Taphouse at the Point
- 58 Social Circle
- 59 Social House 7
- 60 Steelhead Brasserie & Wine Bar
- 61 Sullivan's Steakhouse Pittsburgh
- 62 tako
- 63 Talia Cucina
- 64 Tap/Terrace Room at Omni
- 65 The Commoner
- 66 The Eagle Food & Beer Hall
- 67 The Market Exchange
- 68 The Speakeasy at The Market Exchange
- 69 The Speakeasy
- 70 The Speckled Egg
- 71 The Standard Market & Pint House

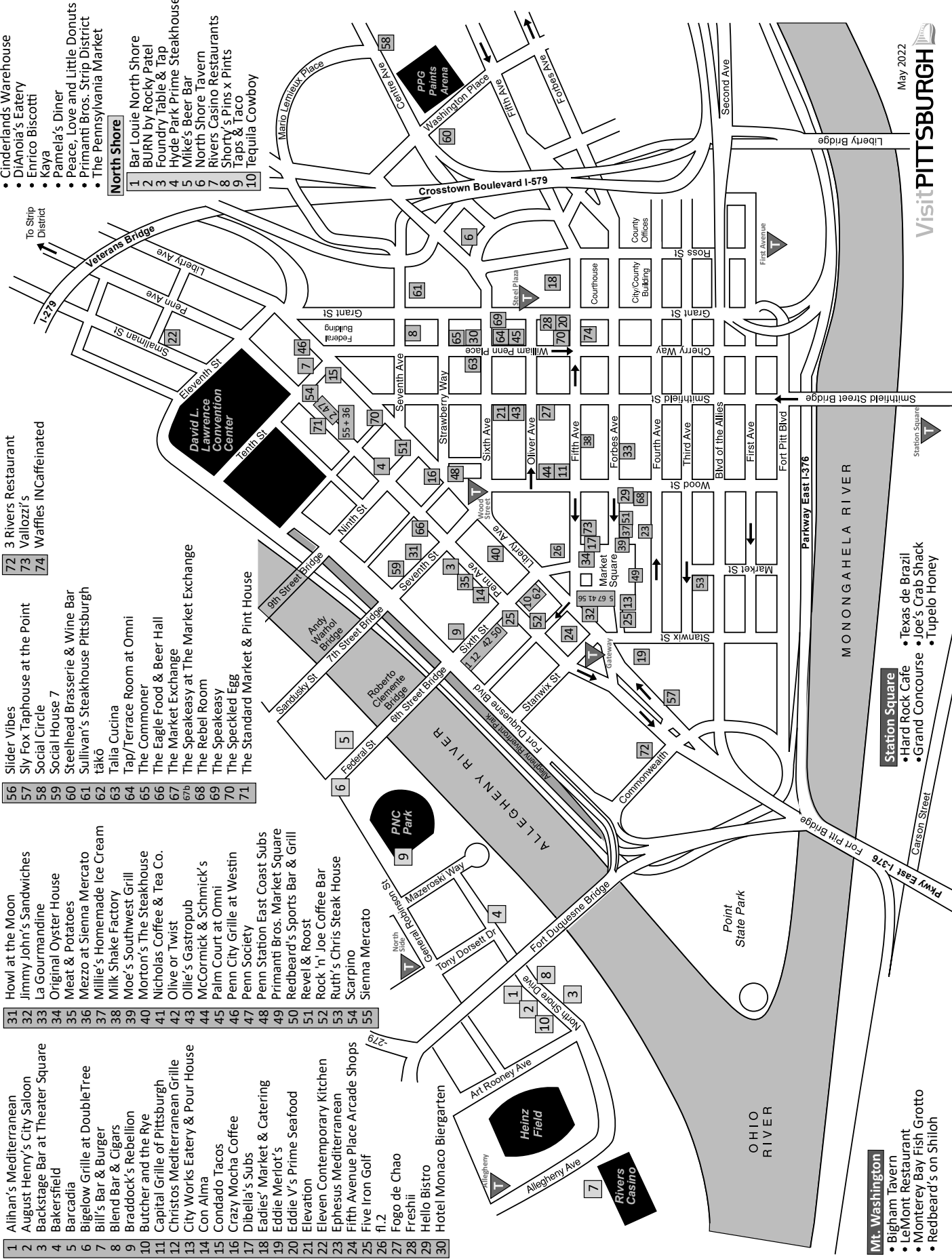
- 72 3 Rivers Restaurant
- 73 Vallozzi's
- 74 Waffles INCAffeinated

Strip District

- Bar Marco
- Cinderlands Warehouse
- DiAnoia's Eatery
- Enrico Biscotti
- Kaya
- Pamela's Diner
- Peace, Love and Little Donuts
- Primanti Bros. Strip District
- The Pennsylvania Market

North Shore

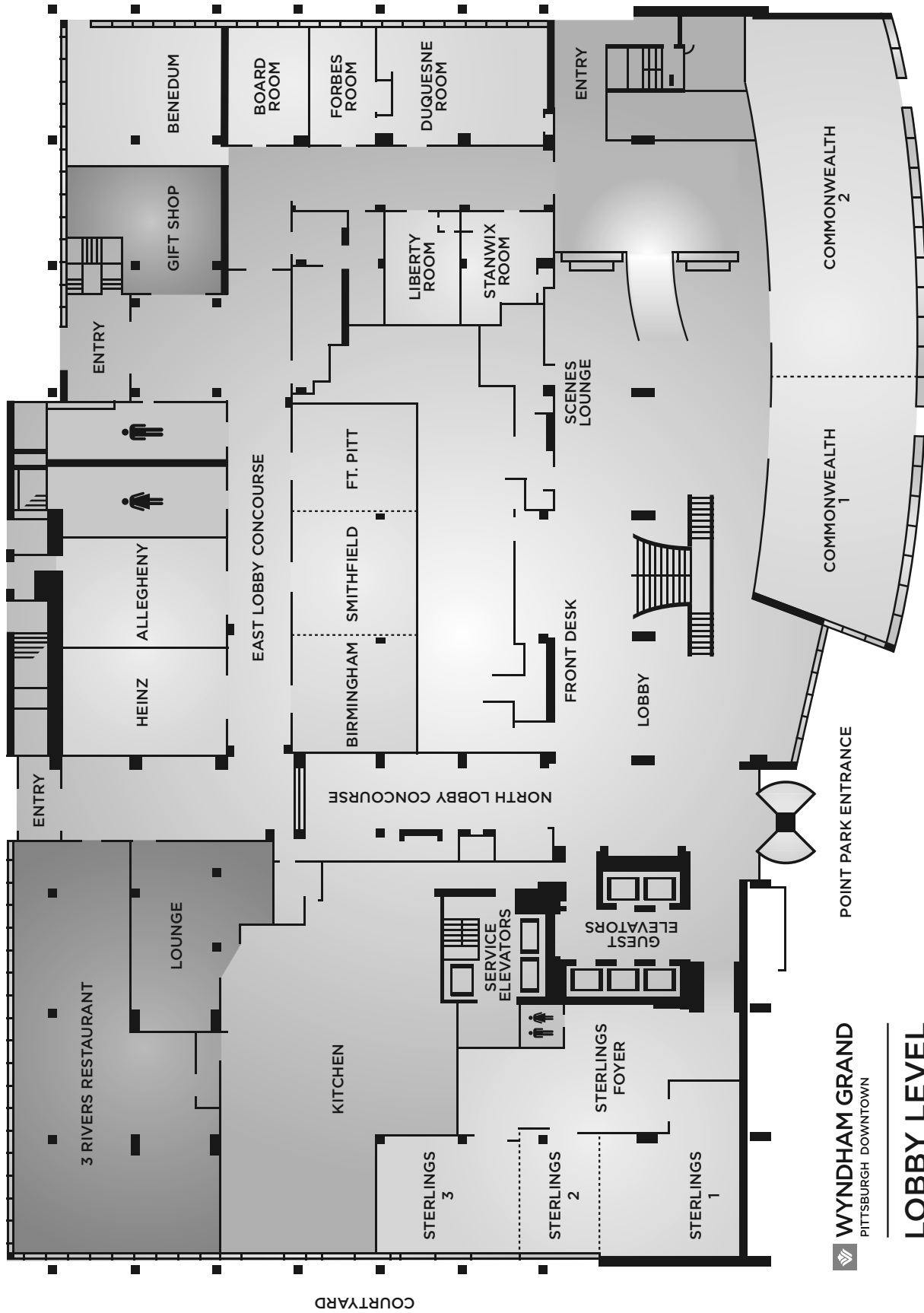
- 1 Bar Louie North Shore
- 2 BURN by Rocky Patel
- 3 Foundry Table & Tap
- 4 Hyde Park Prime Steakhouse
- 5 Mike's Beer Bar
- 6 North Shore Tavern
- 7 Rivers Casino Restaurants
- 8 Shorty's Pins X Pints
- 9 Taps & Taco
- 10 Tequila Cowboy



- ### Mt. Washington
- Bigham Tavern
 - LeMont Restaurant
 - Monterey Bay Fish Grotto
 - Redbeard's on Shiloh

- ### Station Square
- Hard Rock Cafe
 - Grand Concourse
 - Texas de Brazil
 - Joe's Crab Shack
 - Tupelo Honey

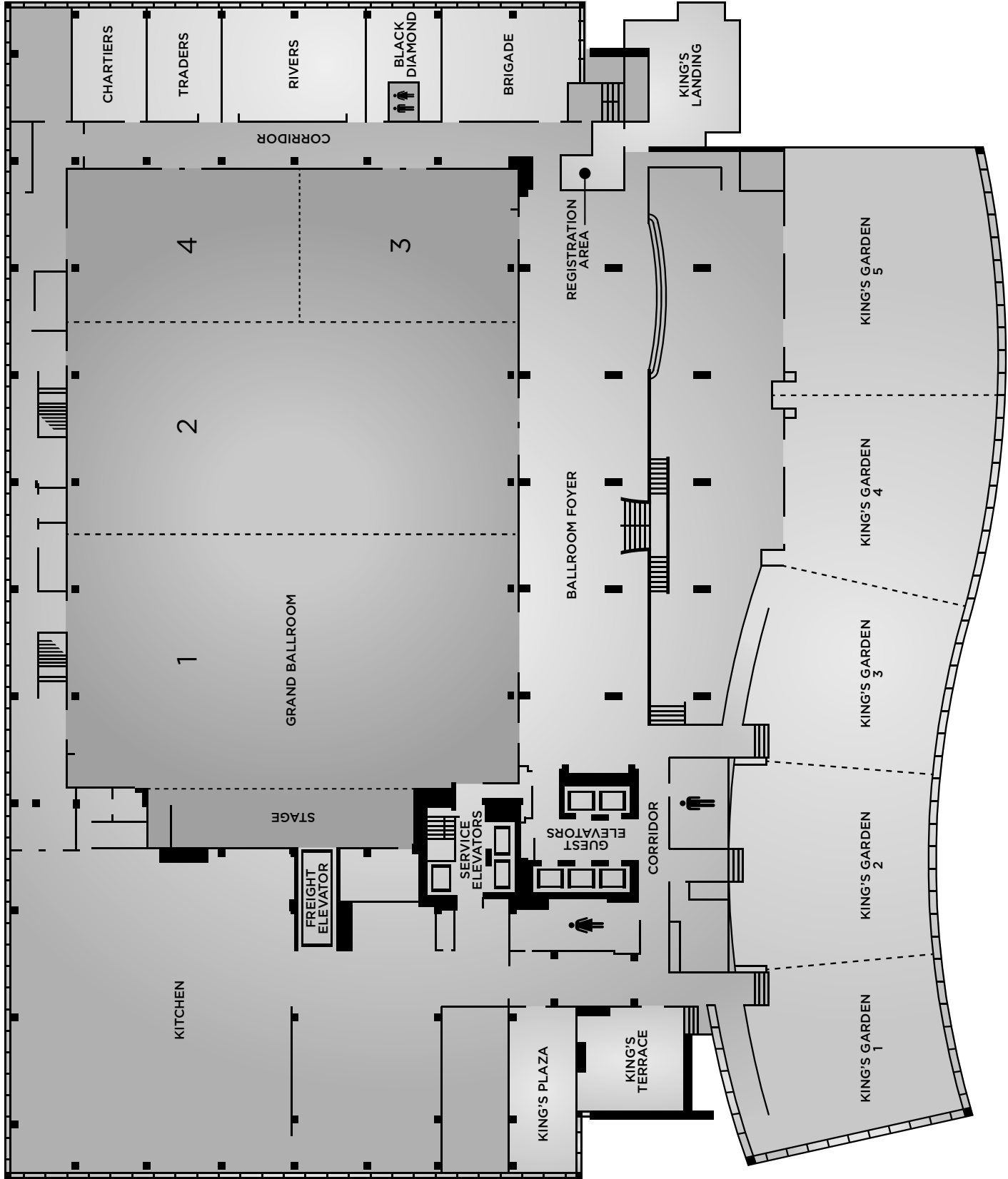
Meeting Space Floor Plan – Wyndham Grand – Lobby Level



WYNDHAM GRAND
PITTSBURGH DOWNTOWN

LOBBY LEVEL

Meeting Space Floor Plan – Wyndham Grand – Ballroom Level



Conference Information

Registration and Information Desk Hours

Wyndham Grand Ballroom Foyer – Second Level

Monday, September 12	11:00 a.m. – 6:00 p.m.
Tuesday, September 13	7:00 a.m. – 5:00 p.m.
Wednesday, September 14	7:00 a.m. – 5:00 p.m.
Thursday, September 15	7:00 a.m. – 12:00 p.m.

Welcome Reception

The Tuesday evening Welcome Reception is located in the Exhibit Hall and the Second Floor Foyer. Your conference badge is your ticket.

Tuesday, September 13 5:00 p.m. – 7:00 p.m.

Conference Attire and Badges

The attire for the 27th National Tanks Conference will be “business casual.” Please wear your badge during the conference as it identifies you as a participant. Badges allow 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

Pittsburgh Regional Transit 28X Airport Flyer bus operates between the airport and downtown Pittsburgh. Bus schedules can be found at portauthority.org. Additionally, rideshare apps Uber, Lyft, and Ztrip offer pick up and drop off from Pittsburgh International Airport.

Exhibit Hall and Poster Session Hours

Tuesday, September 13	8:30 a.m. – 7:00 p.m.
Wednesday, September 14	8:00 a.m. – 5:00 p.m.
Thursday, September 15	8:00 a.m. – 12:00 p.m.

Evaluation Forms

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 monitor before leaving the session and your Full Conference Evaluation Forms at the Registration/Information Desk.

Business Center and Office Supplies

FedEx Office Print & Ship
326 Fifth Ave, Pittsburgh, Pennsylvania, 15222
(412) 471-8004

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

Medical Information and Pharmacy

Mercy Hospital/ER

1400 Locust Street
Pittsburgh, PA 15219
(412) 232-8111

Concentra Urgent Care

1600 West Carson Street
Suite 200
Pittsburgh, PA 15219
(412) 391-1137

CVS Pharmacy

242 Fifth Avenue
Pittsburgh, PA 15222
(422) 566-2619

Agenda for Monday, September 12, 2022

8:00 a.m. – 6:00 p.m.	Conference Registration and Information Desk Open
8:00 a.m. – 12:00 p.m.	Exhibitor Setup
1:00 p.m. – 3:00 p.m.	<i>2-Hour Workshop</i>
	Ins and Outs of ATGs: Everything you need to know but were afraid to ask! <i>Fort Pitt</i>
1:00 p.m. – 5:00 p.m.	<i>4-Hour Workshops</i>
	AHS Field Trip <i>Conference Registration Desk</i>
	ITRC Hydrocarbon Guides <i>Smithfield</i>
	UST Insurance 101 <i>Benedum</i>
3:00 p.m. – 5:00 p.m.	<i>2-Hour Workshop</i>
	UST Finder & EJ Screen <i>Birmingham</i>
6:30 p.m. – 8:30 p.m.	Social Event – Reception at PNC Park Join us for a reception at PNC Park, home of Major League Baseball's Pittsburgh Pirates! Appetizers will be provided, and a cash bar will be available. <i>Note: Pre-registration is required.</i>

Agenda for Tuesday, September 13, 2022

7:00 a.m. – 5:00 p.m.	Conference Registration and Information Desk Open			
8:30 a.m. – 9:30 a.m.	Welcome Plenary: UST Program Status and Direction, and Environmental Justice <i>Grand Ballroom 1</i>			
9:30 a.m. – 10:00 a.m.	Break <i>Exhibit Hall</i>			
10:00 a.m. – 11:30 a.m.	UST System Testing <i>Kings Garden 5</i>	Site Assessment I: Bedrock Sites <i>Kings Garden 4</i>	Emerging Trends Impacting UST Programs (Regulators-Only) <i>Kings Garden 3</i>	Impacts of Natural Disasters on USTs <i>Kings Garden 2</i>
11:30 a.m. – 1:00 p.m.	Lunch (on your own)			
1:00 p.m. – 2:30 p.m.	Sump Testing– Reality and Challenges of Sump Integrity Testing <i>Kings Garden 5</i>	Site Assessment II: High Resolution Site Characterization <i>Kings Garden 4</i>	Strategies for Cost Control <i>Kings Garden 3</i>	The Brownfields Two-step: Pulling tanks and addressing legacy gas stations <i>with style!</i> <i>Kings Garden 2</i>
2:30 p.m. – 3:30 p.m.	Break <i>Exhibit Hall and Poster Area</i>			
3:30 p.m. – 5:00 p.m.	Inspections: Compliance vs Walkthrough <i>Kings Garden 5</i>	Treatment Trains – When One Remedy Isn’t Enough <i>Kings Garden 4</i>	State of State Funds <i>Kings Garden 3</i>	States-Only Meeting <i>Commonwealth 2</i> Tribes-Only Meeting <i>Commonwealth 1</i>
5:00 p.m. – 7:00 p.m.	Welcome Reception and Exposition <i>Exhibit Hall and Poster Area</i>			

Tuesday, September 13 Side Meetings:

11:30 a.m.-1:30 p.m. | Region 3 EPA States | *Duquesne*

Agenda for Wednesday, September 14, 2022

7:00 a.m. – 5:00 p.m.	Conference Registration and Information Desk Open			
8:00 a.m. – 5:00 p.m.	Exhibit Hall and Poster Area Open			
8:00 a.m. – 9:30 a.m.	Emergency Power Generator (EPG) UST Systems: One of The Last Frontiers <i>Kings Garden 5</i>	Natural Source Zone Depletion <i>Kings Garden 4</i>	Current Issues with UST Financial Responsibility Insurance <i>Kings Garden 3</i>	State of the Industry Discussion <i>Kings Garden 2</i>
9:30 a.m. – 10:00 a.m.	Break <i>Exhibit Hall and Poster Area</i>			
10:00 a.m. – 11:30 a.m.	UST Compliance Technology (Pinball) <i>Executive Foyer</i>	Low Threat Closure: Three State Experiences <i>Kings Garden 4</i>	Aging Tanks <i>Kings Garden 3</i>	Navigating Impacts of COVID <i>Kings Garden 2</i>
11:30 a.m. – 1:30pm	Lunch (on your own)			
1:30 p.m. – 3:00 p.m.	UST Removal Time <i>Kings Garden 5</i>	Reducing LUST Backlog <i>Kings Garden 4</i>	Fraud, Waste, and Abuse <i>Kings Garden 3</i>	State-Run UST Service Provider Certification Programs: Implementation and Challenges <i>Kings Garden 2</i>
3:00 p.m. – 3:30 p.m.	Break <i>Exhibit Hall and Poster Area</i>			
3:30 p.m. – 5:00 p.m.	Enforcement Roundtable <i>Kings Garden 5</i>	Activated-Carbon Injection: Lessons, Practices, and Results (Pinball) <i>Executive Foyer</i>	Challenges and Opportunities of a Multi-Cultural UST Industry <i>Kings Garden 3</i>	Field-constructed Tank Systems, Airport Hydrant Systems, ASTs and SPCC <i>Kings Garden 2</i>

Wednesday Side Meetings:

5:00-7:00 p.m. | EPA/ASTSWMO Prep Meeting | *Sterlings 1*

Agenda for Thursday, September 15, 2022

7:00 a.m. – 12:00 p.m.	Conference Registration and Information Desk Open Exhibit Hall and Poster Area Open			
8:00 a.m. – 9:30 a.m.	Emerging Fuels <i>Kings Garden 5</i>	Taking the Mystery Out of Closing LUST Remediation Projects <i>Kings Garden 4</i>	Environmental Justice and Climate Change: Framing Underground Storage Tank Issues in a Social and Environmental Justice Context (Workshop Follow-Up) <i>Kings Garden 3</i>	Tribes and U.S. EPA Meeting (Regulators Only) <i>Commonwealth 1&2</i>
9:30 a.m. – 10:30am	Exposition Raffle <i>Exhibit Hall</i>			
10:30 a.m. – 12:00 p.m.	UST Compliance Successes and Challenges <i>Kings Garden 5</i>	Post-Closure <i>Kings Garden 4</i>	Water Cooler Think Tank <i>Kings Garden 3</i>	States and U.S. EPA Meeting (Regulators Only) <i>Commonwealth 1&2</i>
12:00 p.m.	Adjourn			
2:00 p.m.	Exhibits Cleared			

Thursday Side Meetings:

1:30 p.m. - 5:00 p.m. | National Work Group on Leak Detection Evaluations (NWGLDE) | *Sterlings 2&3*

1:00 p.m. – 5:00 p.m.

AHS Field Trip | *Conference Registration Desk*

This workshop is an introduction to the design and operation of an airport hydrant system including a review of the pertinent portions of the prevention requirements of the UST regulations. Attendees of this workshop will tour the Pittsburgh International Airport fuel distribution system with a discussion of the design of hydrant systems and the application of the UST regulations to the various components of the hydrant system. Attendees will gather at the conference registration desk to be bussed to the airport at 1:00 and will return at approximately 5:00. Attendance at this workshop is limited to 25 people with a target audience of those that have job responsibilities that include compliance with the airport hydrant system requirements of the UST regulations.

Russ Brauksieck, Physical Scientist, U.S. EPA

ITRC Hydrocarbon Guides | *Smithfield*

Hydrocarbon-impacted sites are subject to regulations and guidance directed at petroleum vapor intrusion, total petroleum hydrocarbons in soil, and LNAPL. These regulations do not always acknowledge the interrelated nature of these concerns. ITRC has provided guidance related to each concern; however, practical integration of the concepts in each of the three guidance documents is necessary to provide a comprehensive evaluation at most petroleum hydrocarbon sites. The course will provide a high-level review of concepts presented in the ITRC documents. Participants will use a case-study exercise and discuss in teams how to:

- approach a hydrocarbon release in a holistic manner,
- develop a comprehensive conceptual site model (CSM),
- utilize all three guidance documents to address concerns as they are recognized,
- avoid the creation of data gaps (and excess cost to fill them), and
- better manage an investigation.

Participants are expected to be reasonably familiar with the three ITRC hydrocarbon guidance documents (PVI, TPH Risk, LNAPL). Class size will be limited to 30 to allow in-depth discussion.

Tom Fox, Environmental Protection Specialist, CO Div. Oil & Public Safety | **Margaret Greene**, Environmental Consultant 3, TN DEC

UST Insurance 101 | *Benedum*

This workshop is an introduction to insurance basics. The presentation will be based on previous workshops hosted by OUST in late 2021 and 2022. State, tribal, and EPA regional attendees should sign up for this workshop if they are new to insurance, if they regularly work with insurance or review policies, or if they are insurance experts and want to share their knowledge and hear what other states are doing. The workshop will be interactive and will allow for collaborative sharing and knowledge transfer among participants. At the end of the workshop, participants will be able to define key insurance terms, understand the basic components of an insurance policy, and review policy language to identify common deficiencies that make insurance policies ineligible for providing FR coverage. Participants will be able to use the knowledge from the workshop to inform their future work with insurance.

Emma Krulick, Environmental Protection Specialist, U.S. EPA OUST | **Tom Schruben**, Physical Scientist, U.S. EPA OUST

1:00 p.m. – 3:00 p.m.

Ins and Outs of ATGs: Everything you need to know but were afraid to ask! | Fort Pitt

With so many ATG's out in the market, it is sometimes difficult and confusing to understand all the functions of an ATG system. During this training, participants will learn why one should use an ATG system for release detection, types of ATG Systems, and functions of an ATG including how to respond to alarms, how to read and interpret reports, and other valuable information. Also learn about the phasing out of the Veeder Root TLS 350 and what you can do to prepare. Please join Ben Thomas of UST Training as he discusses the ins and outs of ATG systems. Tribal, State and EPA are encouraged to join.

Benjamin Thomas, President, UST Training, Inc.

3:00 p.m. – 5:00 p.m.

UST Finder & EJ Screen | Birmingham

UST Finder is the first and only database and web mapping application of US, territorial and tribal underground storage tanks, underground storage tank facilities and leaking underground storage tanks. It provides a snapshot on this infrastructure's location, infrastructure characteristics, and points of potential exposure to populations and drinking water supplies. This database can provide key insights into the age of this infrastructure, composition of fuel storage, and potential vulnerabilities to flooding and wildfires.

EJSCREEN is an environmental justice mapping and screening tool that provides a nationally consistent dataset and approach for combining environmental and demographic indicators. The recent release of EJSCREEN V2 contains a new EJ indicator: USTs. This new index allows users to examine where disadvantaged communities are burdened by underground storage tank infrastructure.

This workshop will provide information on how to navigate these two tools and how to leverage key information that can help answer questions on UST infrastructure and how to screen for environmental justice communities. Participants will learn how navigate the two tools as well as integrate information between these tools and learn how to inform environmental justice considerations into decision making. Workshop organizers recommend that participants bring their laptops.

Alex Hall, Geographer, U.S. EPA OUST | **Fran Kremer**, Senior Scientist, U.S. EPA OUST

Session Descriptions / Tuesday, September 13, 2022

8:30 a.m. – 9:30 a.m.

Opening Session | *Grand Ballroom 1*

NEIWPC and U.S. EPA's Office of Underground Storage Tanks (OUST) will welcome attendees to the 2022 National Tanks Conference & Expo. Mark Barolo of U.S. EPA OUST, will provide a report on the UST Compliance and Cleanup Programs' progress and current and future initiatives. The session will conclude with perspectives from EPA and Justin Dula, Pennsylvania Department of Environmental Protection (DEP), on environmental justice and considerations for implementing environmental justice in the UST programs.

Mark Barolo, Acting Director, U.S. EPA OUST | **Justin Dula**, Director, Office of Environmental Justice, PA DEP | **Dania Rodriguez**, Executive Director, ASTSWMO

Introduction: **Susan Sullivan**, Executive Director, NEIWPC

10:00 a.m. – 11:30 a.m.

UST System Testing | *Kings Garden 5*

Since the federal UST rule amendments of 2015, more components of UST systems are required to be tested. How are we to know what tests are valid, or if they are conducted properly? This session will offer a comprehensive overview of system testing, from how equipment is listed by the NWGLDE to how tests of the equipment are required to be conducted.

Kevin Henderson, Consultant | **Edward Kubinsky Jr.**, Director of Regulatory Affairs, Training and Certification, Crompco, LLC | **Tim Smith**, Environmental Protection Specialist, U.S. EPA OUST

Moderated by **Michael Hollis**

Site Assessment I: Bedrock Sites | *Kings Garden 4*

The session will provide information regarding quantitative High Resolution Site Characterization (qHRSC) consisting of soil and groundwater sampling to evaluate the horizontal and vertical extent of LNAPL in saturated soil. The data collected from the discrete soil and groundwater sampling provided information to assist in choosing optimal injection locations and groundwater remediation design. Using results from LUST sites in the desert southwest, geophysics data for conceptual site model (CSM) development, plume mapping, and the geophysical response to natural attenuation will be demonstrated. The case studies will highlight the potential for geophysical measurements to characterize natural attenuation process and shows how geophysical data can be integrated into CSM development and decision making. Additionally, this session will share geophysical results from two LUST sites and practical web based (EPA Environmental Geophysics) tools to educate and guide geophysical investigations. The EPA environmental geophysics web presence allows practitioners, site investigators, stakeholders, and others online content readily accessible to help serve their objectives for environmental cleanup.

Todd Halihan, Professor, Oklahoma State University | **Nathan Thacker**, Senior Geologist, AST Environmental | **Dale Werkema**, Research Geophysicist, U.S. EPA

Moderated by **Mihir Mehta**

Emerging Trends Impacting UST Programs (regulators only) | *Kings Garden 3*

Do you feel changes are needed to improve your funds revenue stream? You will find yourself answering this and many other questions that will be posed during this session. Fasten your seatbelts as ASTSWMO's State Fund- Financial Responsibility Task Force takes you on a journey encouraging you to see the signs. You will travel through an interactive presentation encouraging you to prepare your fund for the future of transitioning from gasoline, changes in transportation, changes in fueling stations and changes to funding for State UST and infrastructure programs. On this journey you will be challenged to examine your program's future by seeing potential outcomes or following the lead of other states who are on the forefront of this emerging trend.

Therron Blatter, PST Branch Manager, UT DEQ | **Russ Olsen**, Executive Director, WA PLIA | **Jill Stoltz**, Environmental Control Supervisor, KY DEQ

Moderated by **Jill Stoltz**

Session Descriptions / Tuesday, September 13, 2022

Impacts of Natural Disasters on USTs | *Kings Garden 2*

Set the stage of climate change related to scope and scale of natural disasters and impacts on USTs. Hear from states with experience in these areas and from the EPA regarding existing tools to prepare for and respond to natural disasters.

Annette Ademasu, Senior Tank Inspector, WA State Dept. of Ecology | **Linda Gerber**, Program Analyst, U.S. EPA OUST | **Eric Kelley**, Tanks Program Coordinator, OR DEQ | **Brian Osterman**, Field Operations Branch Manager, KY DEP

Moderated by **Kris Grinnell**

1:00 p.m. – 2:30 p.m.

Sump Testing– Reality and Challenges of Sump Integrity Testing | *Kings Garden 5*

Please join us as we discuss a hot topic in the UST world – carrying out EPA’s national requirement for triennial sump testing. We’ll hear from regulators on compliance realities – who’s complying, who’s not and why. And we’ll hear from technical service companies on the realities of costs, logistics, and wastewater management.

Ryan Ariail, Customer Service Liaison, SC DHEC | **Courtney Evans**, Environmental Health Manager, SCDHEC | **Marshall Mott-Smith**, President, Mott-Smith Consulting Group | **David Katish**, Field Quality Manager/Safety Coordinator, Crompco, LLC

Moderated by **Caroline Ganley**

Site Assessment II: High Resolution Site Characterization | *Kings Garden 4*

This session will provide case studies highlighting strategies for site characterization methods to refine the conceptual site model. This session will enforce the importance of relevant physical and chemical data. Come prepared to discuss cases studies highlighting technologies and techniques to apply scale-appropriate investigations, measurements, and sample density to define contaminant context and distribution, with greater certainty to provide and support more effective site cleanup, and lessons learned.

West Johnson, Petroleum, Oil & Gas Business Lead for North America, Columbia Technologies, LLC | **Mark Junker**, Tribal Response Coordinator, Sac and Fox Nation of Missouri in Kansas and Nebraska | **Corie White**, Hydrogeologist III, SC DHEC

Moderated by **Ross Elliot**

Strategies for Cost Control | *Kings Garden 3*

As managers of state funds, we have a charge to both clean-up sites and to ensure that the monies we manage are spent prudently to maximize the cleanups completed. Controlling costs and ensuring that reimbursement rates are both fair and reasonable is challenging. Factor in today’s current inflation and knowing what is fair and reasonable becomes even more of a challenge. This session will begin with a review of the EPA Office of Underground Storage Tanks recent analysis on cleanup costs in three states. We will then hear from two states about their recent efforts to control costs. The state of Indiana will discuss their new electronic claim submittal process which facilitates task-based cost controls and allows them to capture, query, and analyze all costs related to tasks across all sites and consultants. The state of Utah will present their new “Cost Guidelines for Utah Underground Storage Tank Sites” document which establishes the framework for a standardized and consistent approach for work done by state contractors and for state fund reimbursements. These cost guidelines address labor classifications and rates, not to exceed costs for common tasks, bid requirements, and much more. The final portion of the session will be an interactive dialogue on what states are doing on various related issues such as labor rates, consultant markups, and accounting for inflation.

Douglas Louks, Deputy Assistant Commissioner, IN DEM | **Molly Parker**, Environmental Scientist, UT DEQ, DERR | **Tom Schruben**, Physical Scientist, U.S. EPA OUST

Moderated by **Therron Blatter**

The Brownfields Two-step: Pulling tanks and addressing legacy gas stations with style! | *Kings Garden 2*

The Bi-partisan Infrastructure Law's \$1.5B investment in Brownfields has provided an historic opportunity to cleanup and redevelop abandoned LUST sites. Come join us in this interactive session where Montana and New Mexico describe their strategies to increase the collaboration between the LUST and Brownfields programs, and EPA OUST shares national resources that may support cleanup and redevelopment of LUST sites. By challenging the norm, both Montana and New Mexico Brownfields programs have found innovative ways to increase the number of Petroleum Brownfields eligible sites, fund tank pulls, maximize the use of their state's Petro Fund, and leverage Brownfields Revolving Loan Fund grants. We look forward to the sharing of how other states have utilized Brownfields in the past and how we can all take advantage of this unique opportunity.

Sara Miller, Environmental Protection Specialist, U.S. EPA | **Savannah Richards**, Environmental Scientist & Project Manager, NM ED | **Jason Seyler**, Brownfields Coordinator, MT DEQ

Moderated by **Shannon Cala**

3:30 p.m. – 5:00 p.m.

Inspections: Compliance vs Walkthrough | *Kings Garden 5*

Brad Hoffman will be concentrating on finding of monthly walkthrough inspections that Tanknology has conducted, and David Piercey will be presenting on the third-party compliance inspections they do in Pennsylvania.

Brad Hoffman, VP, Research & Development, Tanknology | **Dave Piercey**, Vice President, JD2 Environmental Inc.

Moderated by **Joe Godwin**

Treatment Trains – When One Remedy Isn't Enough | *Kings Garden 4*

The focus of this session will be on several approaches to incorporating multiple treatment technologies on one site. A general approach to identifying the potential for multiple tools at the beginning of a project will be discussed as a way to work more efficiently towards cleanup goals. In addition, several states will share case studies on projects with treatment trains and describe their approaches, challenges, conclusions, and lessons learned.

Tom Fox, Environmental Protection Specialist, CO Div. Oil & Public Safety | **Geina Skinner**, Corrective Action Deputy Director, TN DEC | **Debra Thoma**, Section Manager - Corrective Action & Quality Assurance Section, SC DHEC

Moderated by **Clare O'Connor**

State of State Funds | *Kings Garden 3*

OUST will present the national picture of the state of state funds, using data collected through state fund soundness workbooks. ASTSWMO will give a summary of the State Fund Survey, including recent trends and improvements. The national portion will be about 30-40 minutes. Then, Diane Barclay and Cindy Williams will discuss improvements to the California state fund, including providing a look at both internal process improvements that may be useful to other funds, and external processes requested of their claimants to help them get paid more quickly. California's portion will also be about 30-40 minutes. Finally, the last 10-20 minutes will be open discussion led by OUST. OUST will ask leading conversational questions to encourage participants to share their state's perspective and discuss challenges and best practices.

Diane Barclay, Assistant Deputy Director, CA WRCB | **Emma Krulick**, Environmental Protection Specialist, U.S. EPA OUST | **Jill Stoltz**, Environmental Control Supervisor, KY DEP | **Cindy Williams**, President & CEO, Pinnacle Environmental Management Support

Moderated by **Therron Blatter**

Session Descriptions / Tuesday, September 13, 2022

States-only Meeting | *Commonwealth 2*

This meeting is for State regulators only. This will be an interactive session led by ASTSWMO's Tanks Subcommittee and audience participation is required. States will discuss compliance and prevention, cleanup, and State Fund/financial responsibility issues of importance to our programs. A summary of the discussion and questions generated will be shared with EPA OUST during the States and U.S. EPA Meeting at the conclusion of the Conference.

Moderated by **Charles Reyes**

Tribes-only Meeting | *Commonwealth 1*

This offers an opportunity for the Federally Recognized Tribes to formulate questions and concerns to be discussed with U.S. EPA staff in the Tribal and U.S. EPA Meeting scheduled for Thursday. Tribal representatives are invited to discuss UST issues and share successes and obstacles faced.

Moderated by **Randy Bettelyoun**

8:00 a.m. – 9:30 a.m.

Emergency Power Generator (EPG) UST Systems: One of The Last Frontiers | *Kings Garden 5*

This session will provide an overview of the federal UST requirements applicable to emergency power generator UST systems and highlight two recently posted EPA publications specific to these UST systems. It will discuss the wide variations in system designs as a result of application of inconsistent design standards. This session will also discuss certain complexities that are inherent to EPG UST systems such as having an UST or AST with delivery pipe going underground only to enter a building to fuel gensets, and/or boilers and the presence of atypical components such as different types of pumps, filtration systems, and complex controls. Attendees will learn what to look for and how to test sites like these to ensure regulatory compliance and safe fuel delivery. There will be time reserved at the end of the session for a robust question and answer period.

Jonathan McRae, Supervisor-UST/LUST, NDEP-BCA | **Tim Smith**, Environmental Protection Specialist, U.S. EPA | **Gregory Young**, Terra Primoris Consulting, VMI Manufacturing, LLC

Moderated by **Tim Smith**

Natural Source Zone Depletion | *Kings Garden 4*

Natural Source Zone Depletion (NSZD) represents the natural attenuation capacity of the subsurface to reduce LNAPL sources over time. This discussion will focus on using the resulting behavior model to identify the cumulative compositional effect NSZD has achieved at various locations within the plume. It will also provide alternative methods to help quantify the confidence of these estimates. The overall intent is an improved understanding of the occurrence of NSZD above and below the water-table as well as spatial effects on the LNAPL source area. This discussion will answer the following: how does this recent understanding of NSZD incorporate into existing regulatory frameworks, and secondly, how does it compare to past use of biodegradation effects and monitored natural attenuation to address dissolved plume associated with residual LNAPL?

Kyle Campbell, Environmental Protection Specialist, CO OPS | **Ian Hers**, Principal, Hers Environmental Consulting, Inc. | **Parisa Jourabchi**, Environmental Engineer, ARIS Environmental Ltd. | **Andrew Kirkman**, Subject Matter Expert - LNAPL Remediation, BP North America, | **Chris Marks**, Senior Environmental Scientist, AZ DEQ

Moderated by **Nancy Mann**

Current Issues with UST Financial Responsibility Insurance | *Kings Garden 3*

We will have three short presentations – New Jersey’s database improvements to stay ahead of insurance renewal dates and cancellation notices for timely action with owners and operators who lose their insurance; problems with insuring UST systems over 30 years old; and some of the more “creative” policy provisions states have forwarded to OUST in recent years. We will open the floor to conversations and questions regarding these topics or any other financial responsibility concerns.

Stuart Friedman, Section Chief, NJ DEP | **Emma Krulick**, Environmental Protection Specialist, U.S. EPA OUST | **Tom Schruben**, Physical Scientist, U.S. EPA OUST

Moderated by **Russ Olsen**

State of the Industry Discussion | *Kings Garden 2*

There’s been much discussion over the last couple years about where the UST industry is heading given the investment in electric vehicles by both public and private entities. But what are the tank manufacturers seeing? Where is the current state of demand really at, and what does the near future look like? The answers may surprise you. This session will consist of short presentations by members of both FPTI and STI, followed by an open discussion with the audience.

Steve Pollock, Manager of Technical Services, Steel Tank Institute | **Tom Tietjen**, Vice President, Xerxes Corporation

Moderated by **Mike Hollis**

10:00 a.m. – 11:30 a.m.

UST Compliance Technology (Pinball) | *Executive Foyer*

Interested in mobile inspection applications or tools for helping to maintain compliance? Join us for a pinball session which will provide you the opportunity to rotate through several rooms and view mobile inspection applications from around the country and other tools to help owners, operators, and regulators with achieving compliance with UST regulations.

Dan Blake, President, Mobile Wright Solutions, Inc. | **Joshua Blanco**, UST Supervisor, PA DEP | **Matt Jones**, Oil Compliance & Enforcement Subsection Chief, NH DES | **Jon Marinas**, Senior Vice President of Compliance, Titan Cloud Software | **David Wilson**, Environmental Scientist, UT DEQ

Moderated by **Kris Shiffer**

Low Threat Closure: Three State Experiences | *Kings Garden 4*

Speakers from California, Colorado and South Carolina UST programs will describe their experience developing and implementing low-threat policies for LUST site management and share some of their lessons learned.

Stephanie Briney, Manager of the Corrective Action and Field Support Section, SC DHEC | **Matthew Cohen**, UST Cleanup Program Manager, CA WRCB | **Mary K.V. White**, Remediation Supervisor, CO DLE - OPS

Moderated by **Alex Wardle**

Aging Tanks | *Kings Garden 3*

As a follow up to the ASTSWMO Aging Tanks Report this session will focus on case studies from the State of Washington and Arizona regrading program initiatives focused on supporting owners in dealing with aging infrastructure as well as an analysis of data surrounding owners' ability to pay and differing funding models to support those requests for prevention-based actions. We will also explore a case study of an aging fiberglass tanks' ability to maintain tightness with the use of different oxygenates. Through an autopsy of a fiberglass UST, we will determine why it had failed a tank tightness test and if this was potentially a larger problem with older fiberglass underground storage tanks. Ryan Haerer will also provide an overview of the development and launching of the EPA Aging Tanks webpage as a resource. Please come prepared to ask questions and share ideas from your state as we continue the discussion regarding aging tank infrastructure and prevention-based approaches.

Ryan Haerer, Analyst, Release Prevention Division, U.S. EPA OUST | **Russ Olsen**, Executive Director, WA PLIA | **Mike Pecorelli**, Environmental Assurance Program-Cleanup Section Manager, UT DEQ | **Tiffany Yee**, Environmental Engineering Specialist, AZ DEQ

Moderated by **Russ Olsen**

Navigating Impacts of COVID | *Kings Garden 2*

Hear from panelists representing UST operators, service technicians, equipment distributors and inspectors how they are managing the disruptions to UST compliance caused by the COVID pandemic.

Edward Kubinsky, Director of Regulatory Affairs, Training and Certification, Crompco, LLC | **Edward Pedchenko**, North East Regional Manager, Source North America | **Adam Sansoucy**, Manager of Environmental Compliance & Training, EG America | **Benjamin Thomas**, President, UST Training, Inc.

Moderated by **Benjamin Thomas**

1:30 p.m. – 3:00 p.m.

UST Removal Time | *Kings Garden 5*

This session addresses the massive challenge to UST and LUST programs of a wave of aging UST systems nationally. How big of an issue is it, really? What does it look like in terms of national data, and from the inside of a 30+ year old system? Most states don't yet require older UST systems be removed, so this session will communicate how some states have attempted to limit their downsides and require or encourage the removal of older UST systems through various regulatory, compliance assistance, or funding approaches. What did they do, and what did they learn? What lessons might be helpful for your own state?

Ryan Haerer, Analyst, Release Prevention Division, U.S. EPA OUST | **Brad Hoffman**, VP, Research & Development, Tanknology | **Michael Hollis**, Bureau Chief, NJ DEP | **Matt Jones**, Oil Compliance & Enforcement Subsection Chief, NH DES

Moderated by **Ryan Haerer**

Reducing LUST Backlog | *Kings Garden 4*

The session will highlight both federal and state efforts and strategies to reduce the LUST backlog. Sara Miller will present the overall programmatic challenges and solutions to close LUST sites. Clare O'Connor will discuss the development of a process to ensure stakeholders have a remediation plan in place prior to UST removal along with a case study or two. Finally, Mohammed Rahman will discuss Illinois' A3 project with OUST/EPA Region 5 program and how it adapted to address their backlog.

Sara Miller, Environmental Protection Specialist, U.S. EPA | **Clare O'Connor**, Environmental Engineer II, RI DEM | **Mohammed Rahman**, Section Manager, IL EPA

Moderated by **Shannon Cala**

Fraud, Waste, and Abuse | *Kings Garden 3*

Melinda Weir will be giving a presentation providing detailed step-by-step processes for successful auditing and for fraud investigations. Also discussed will be the most common types of fraud indicators often found when working with contractors. Diane Barclay will be giving a presentation on California's new Expedited Claim Accounts Program (ECAP). This program coordinates between all parties related to site cleanup and has greatly reduced the amount of waste and abuse, while having funds reimbursed to contractors more quickly, as well as bringing the site to a closure in a more efficient manner.

Diane Barclay, Assistant Deputy Director, CA WRCB | **Melinda Weir**, Environmental Investigator, TN DEC

Moderated by **Matthew Cohen**

State-Run UST Service Provider Certification Programs: Implementation and Challenges | *Kings Garden 2*

Have you ever wondered about implementing or improving upon a certification program for UST service providers in your State? This session will provide a general overview of the service provider certification programs from four States: New Mexico, Louisiana, California, and New Jersey. This panel of representatives will provide a summary of their regulations related to exams, applications, fees, continuing education, State oversight, and revocation.

In addition, this session will include a discussion amongst the panelists on their experiences with implementation, program maintenance and quality control, and as well as past and forecasted challenges (e.g., the ever-increasing need for tightness testing).

UST programs can benefit from State-run service provider certification programs; join us to learn how a certification program can be implemented or improved in your State.

Joe Godwin, Program Manager NM PSTB | **Thomas Henderson**, UST Leak Prevention and Office of Tank Tester Licensing Manager, California Water Resources Control Board | **Michael Hollis**, Bureau Chief, NJ DEP | **Holly Lejeune**, Environmental Scientist Supervisor, LA DEQ

Moderated by **Kris Grinnell**

3:30 p.m. – 5:00 p.m.

Enforcement Roundtable | *Kings Garden 5*

Since the federal UST rule revision of 2015, states have had to phase in some new requirements, including periodic testing of more UST components. Coupled with a global pandemic and contractor shortages, Authorities Having Jurisdiction have faced many challenges in enforcing the new provisions. This roundtable discussion will focus on experiences and successes state and tribal representatives have had with their programs in implementing and enforcing the new requirements.

David Levering, Chief Deputy, Nebraska State Fire Marshal

Activated-Carbon Injection: Lessons, Practices, and Results (Pinball) | *Executive Foyer*

Activated carbon injection is a remedy used for subsurface contamination, but what are the key elements and best practices that lead to success? Edward Winner will unfold this information based on data collected from sites treated with activated carbon in the continental US and Europe. Also, he will introduce a product that employs a unique strategy to encourage biodegradation even in LNAPL environments. Tyler Harris will present case studies to highlight the benefits of utilizing best practices for field application methods. Todd Herrington will explain the particularity of the low injection pressure approach that led to successful site closure. And Mike Mazzaresse will detail the results of activated carbon injection in Pennsylvania's sites.

Tyler Harris, PetroFix Design Specialist, Regenesis | **Todd Herrington**, Global PetroFix Product Manager, Regenesis | **Mike Mazzaresse**, Senior Remediation Engineer, AST Environmental | **Edward Winner**, Vice President, RPI Group, Inc.

Moderated by **Tiffany Lee**, **Josh Stevens**, and **Amy Torres**

Challenges and Opportunities of a Multi-Cultural UST Industry | *Kings Garden 3*

Come learn about the changing landscape of UST ownership, which include immigrants, indigenous peoples, and those who've been here all along. Then join us as we explore the challenges and opportunities of technical assistance outreach to English-not-as-a-first language UST operators. The changing demographics of the US pose cultural and language challenges but also invite new, creative ways to think about UST outreach and education. Because of the change in demographics of UST owners, operational compliance might significantly improve if the UST agencies provided operator training and guidance documents in other languages.

Liliana Cruz, Latin America Director, PEI | **Kristopher Grinnell**, Toxics Cleanup Program Information and Policy Section Manager, WA Dept. of Ecology | **Bonny Hughes**, Environmental Scientist and Specialist, NM ED | **Warren Roan**, Environmental Department Manager, NNEPA

Moderated by **Benjamin Thomas**

Field-constructed Tank Systems, Airport Hydrant Systems, ASTs and SPCC | *Kings Garden 2*

What happens if there is an aboveground storage tank at the same facility as an underground storage tank system? What happens when an aboveground storage tank is part of an underground storage tank system? What requirements are applicable to the AST? What other EPA program regulates ASTs? If an AST is subject to another EPA program, what impact might that have on the requirements that need to be met with the UST? Many facility types might be impacted by the answers to those questions including motor fuel retail locations, industrial, health care, government agencies and airports.

This session will provide a general awareness of the requirements of the spill prevention, control, and countermeasures (SPCC) plans and review of the SPCC regulations with reference to USTs.

In addition, this session will provide information on determining applicability of the UST regulations to tank systems that include ASTs including airport hydrant systems (AHS) and field constructed tank systems (FCTS). A brief overview of the requirements of the UST regulations applicable to AHS and FCTS will also be included.

Russ Brauskieck, Physical Scientist, U.S. EPA OUST | **Robert May**, Senior Professional, Montrose Environmental

Moderated by **Russ Brauskieck**

8:00 a.m. – 9:30 a.m.

Emerging Fuels | *Kings Garden 5*

Discussion on overview of emerging fuels across the country. We will discuss compatibility and take a high-level look at the regulatory requirements. We will then dive into a mechanistic examination with regards to microbiologically influenced corrosion. Lastly, we will discuss operations and complex configurations at Travel Center sites in regard to alternative fuels.

Ryan Haerer, Analyst, Release Prevention Division, U.S. EPA OUST | **William Jones**, President, Warren Rogers LLC | **Jason Lee**, Materials Engineer, Naval Research Laboratory

Moderated by **Eric Kelley**

Taking the Mystery Out of Closing LUST Remediation Projects | *Kings Garden 4*

A Task Group is working with ASTM Committee E50 to develop a guide for "Moving Sites to Closure" (MStC), which will provide alternative remediation closure criteria for petroleum UST releases, based on the latest science as well as best management practices for moving stalled remediation projects forward. In this session, Task Group members will discuss the goals and organization of the standard, the results of their survey of current state closure practices, and State representatives will provide some examples of current best practices to reduce backlog sites.

Gregory Dunn, Deputy Chief, IL EPA | **Zach Pauley**, Reimbursement Program Specialist, VA DEQ | **Jim Rocco**, Principal, Sage Risk Solutions LLC | **Tom Schruben**, Physical Scientist, U.S. EPA OUST

Moderated by **Gregory Dunn** and **Tom Schruben**

Environmental Justice and Climate Change: Framing Underground Storage Tank Issues in a Social and Environmental Justice Context | *Kings Garden 3*

This session will continue the topics discussed during the UST Finder and Environmental Justice workshop. All are welcome to attend: those who participated in the workshop and those who did not.

Environmental justice, climate change, and USTs: three topics that may not seem related at first blush but do have significant overlap. Discussed will be the disproportionate environmental burden disadvantaged and communities of color face from exposure to LUSTs and potential exposure from USTs; how climate change, and specifically extreme flood events and wildfires, have impacted these communities and increased stress to UST systems. Finally, tools that help shed light on these issues such as EPA's EJScreen, FEMA's Flood Insurance Risk Maps, CEQ's Climate and Economic Justice Screening Tool—created to support the Justice40 initiative, and EPA's UST Finder.

Alex Hall, Geographer, U.S. EPA | **Fran Kremer**, Senior Scientist, U.S. EPA | **Sara Miller**, Environmental Protection Specialist, U.S. EPA OUST

Tribes and U.S. EPA Meeting (Regulators Only) | *Commonwealth 1 & 2*

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

Moderated by **Randy Bettelyoun** and **Mark Barolo**

10:30 a.m. – 12:00 p.m.

UST Compliance: Successes and Challenges | *Kings Garden 5*

We are in this together. Come to this session with a story, questions, solutions, and a desire to get to know your peers and find out how they can help your program. This session will provide an overview of the status of UST compliance nationwide and in Indian country. Panelists will share their wide-ranging perspectives and draw from the audience to respond to concerns about UST compliance, highlight track-record successes, and garner innovative ideas for future solutions.

Michael Arce, Environmental Specialist- Storage Tanks, Oneida Environmental, Health, Safety, Land and Agriculture Division | **Fran Chambus**, OPA UST Team Leader, U.S. EPA Region 8 | **Mark Junker**, Tribal Response Coordinator, Sac and Fox Nation of Missouri in Kansas and Nebraska | **Michael Pomes**, Physical Scientist, U.S. EPA Region 7 LCRD/TTPB/TLBP | **Emily Ewart**, Underground Storage Tanks Section Supervisor, MT DEQ

Moderated by **Page Hingst**

Post-Closure | *Kings Garden 4*

The session examines how sites are handled after receiving closure. Following risk-based closures, there is potential for the site to pose a risk to human health. Site use may change over time, completing pathways or making remedies non-operational. Investigation after closure may indicate that remaining impacts are a risk to public health. The case studies will examine how these situations are handled.

Gregory Dunn, Deputy Chief, IL EPA | **James Gastineau**, Senior Environmental Specialist, IA DNR | **Avery Holyoak**, Environmental Program Manager, UT DEQ

Moderated by **Matthew Pabich**

Water Cooler Think Tank | *Kings Garden 3*

If you attend the Emerging Trends Impacting UST Programs session you will be invited to join the Water Cooler/Think Tank session. Results from the interactive poll will be presented engaging in follow up questions and conversations. If you were not able to attend the Emerging Trends Impacting UST Programs session, please stop in to see what you missed and be prepared to ask questions and share your ideas and your state's plans to prepare for emerging trends impacting UST fund programs. The Task Force will briefly summarize results from the prior session and will lead a flexible discussion based on results, questions and new ideas.

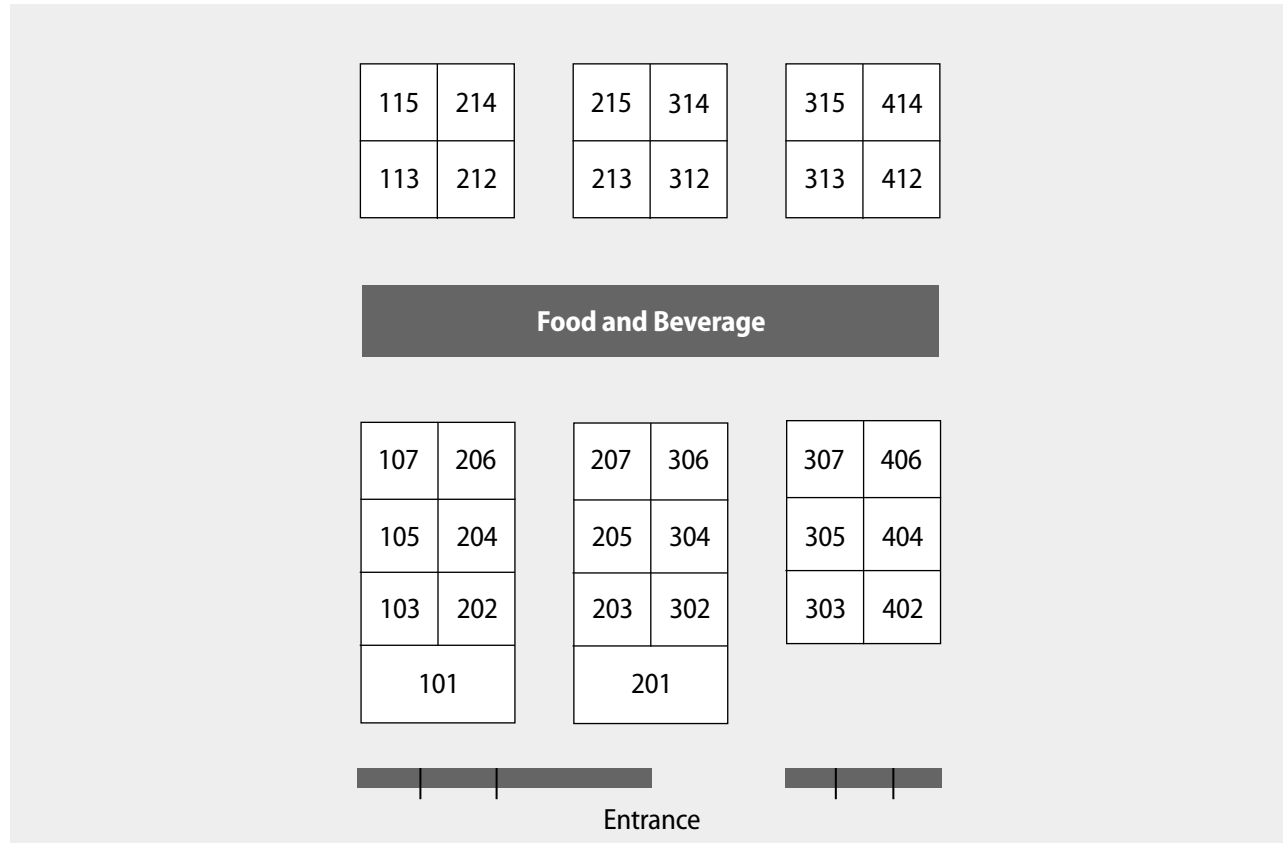
Moderated by **Russ Olsen** and the **Financial Responsibility Task Force**

States and U.S. EPA Meeting (Regulators Only) | *Commonwealth 1 & 2*

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

Moderated by **Charles Reyes** and **Mark Barolo**

Exhibit Hall Floorplan



- Titan Cloud SoftwareBooth 101
- Calclean Inc.....Booth 103
- Leighton O'Brien.....Booth 105
- Geological Resources Inc.....Booth 107
- CGRSBooth 113
- Tanknology, Inc.Booth 201
- Petroleum Containment, Inc.Booth 202
- REGENESISBooth 203
- MobileWright Solutions.....Booth 204
- Eagle Synergistic.....Booth 205
- Xerxes by ShawcorBooth 206
- Aestus, LLCBooth 207
- RPI Group.....Booth 212
- Crompco, LLC.....Booth 213
- Williams & Company Consulting Inc./Petro ClassroomBooth 214

- LaBella Associates.....Booth 215
- PASS Testing & ComplianceBooth 302
- Dover Fueling Solutions.....Booth 303
- Steel Tank Institute/Steel Plate Fabricators AssociationBooth 304
- Vista GeoScienceBooth 305
- The Veeder-Root CompanyBooth 306
- Icon Containment SolutionsBooth 307
- Warren Rogers Precision Fuel System DiagnosticsBooth 312
- UST Training, Inc.Booth 313
- ITRC.....Booth 314
- OPWBooth 315
- Jacob & Hefner Associates Inc.Booth 402
- Columbia TechnologiesBooth 404
- Directional TechnologiesBooth 406
- ChubbBooth 412

Exhibitor Profiles

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Franklin, TN 37067
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noelshenoi@calclean.com
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Geological Resources, Inc. Booth 107

3502 Hayes Road
Monroe, NC 28110
704-845-4010
lh@geologicalresourcesinc.com
www.geologicalresourcesinc.com



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CGRS Booth 113

1301 Academy Court
Fort Collins, CO 80524
970-420-6840
glen@cgrs.com
www.cgrs.com



CGRS 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.

Padfolio Sponsor

Tanknology Booth 201

11000 N Mopac Expy
Suite 500
Austin, TX 78759
479-445-2754
cbouldin@tanknology.com
tanknology.com



Tanknology is the world's largest provider of tank testing and environmental compliance services for petroleum systems. We have tested more than two million tanks and provide associated compliance services at more than 85,000 sites each year. Our success is the result of our unwavering mission: To be an affordable and accountable compliance partner for our clients.

Exhibitor Profiles

Petroleum Containment, Inc Booth 202

8873 Western Way
Jacksonville, FL 32256
904-358-1700
sales@pcisumps.com
petroleum-containment.com



PCI is a manufacturer of fiberglass secondary containment products for the petroleum industry for new construction and repair. Specializing in tank sumps, transition sumps, dispenser sumps and penetration fittings, we have water-tight solutions for any containment needs. All of our tank sumps utilize our innovative 'Twist-Lok' Access Cover to ensure a watertight seal while providing quick and easy access.

REGENESIS Booth 203

1011 Calle Sombra
San Clemente, CA 92673
303-399-1622
therrington@regenesisc.com
www.regenesisc.com



REGENESIS is an expert provider of cost-effective in situ soil and groundwater remediation products, vapor barrier systems and services. Offering turn-key solutions for remediating and polishing off a wide range of sites at the lowest total cost-to-closure. For over 25 years, REGENESIS has demonstrated a proven track record on more than 26,000 projects around the world. REGENESIS leads the industry with proven solutions to eliminate PFAS compounds and other emerging contaminants. REGENESIS is considered a technology leader in environmental remediation, working with environmental consulting firms serving a broad range of clients, including developers, insurance companies, manufacturers, municipalities, regulatory agencies and federal, state and local governments.

MobileWright Solutions, Inc. Booth 204

30 Wing Road
Lynnfield, MA 01940
781-968-5245
dblake@mobilewright.com
www.mobilewright.com



MobileWright Solution's UST Inspector (a mobile inspection software application) has streamlined and improved the inspection process at several state UST programs (NH DES, CT DEEP, ID DEQ, RI DEM, NC DEQ, SC DHEC, DC DOEE, LA DEQ, WV DEP, and others). The UST Inspector system facilitates performing a complete UST system inspection, calculating compliance with state and federal regulations, collecting of electronic signatures, generation of enforcement letters, site diagramming, GPS coordinate collection, facility management plan generation, and testing/certification of Class A/B operators.

Eagle Synergistic Optimizing Technologies Booth 205

751 Pine Ridge Rd.
Golden, CO 80403
303-305-7783
marketing@eaglesynergistic.com
www.EagleSynergistic.com



Eagle Synergistic Optimizing Technologies is a specialized High Resolution Site Characterization subsurface imaging EDWOSB company, (8A pending). We utilize MIP, MIHPT, OIP, HPT, GW Profiler/Sampler, NMR, 3D modeling, & more for investigating contaminated sites (including PFAS). We also use a portable gas chromatogram that gives lab grade data for soil, gas, and groundwater contaminants in just 10 minutes in the field. HRSC Units are located coast to coast and have double sets of HRSC probes, trunklines, and rods set up for the easy switch of probes dependent on free phase or dissolved phase.

Xerxes by Shawcor Booth 206

7901 Xerxes Avenue
Minneapolis, MN 55431
403-863-4588
bronwyn.northey-taylor@shawcor.com
<https://www.xerxes.com/>



We are one of the largest manufacturers of underground fiberglass storage tanks in the world. Now owned by Shawcor Ltd., we are a leading innovator in composite tank engineering, with nearly 40 years of direct industry experience. When ZCL Composites Inc. acquired Xerxes Corporation in 2007, it brought together North America's two leading fiberglass tank brands: ZCL (founded in 1987) and Xerxes (founded in 1979). Our track record of approximately 200,000+ installations stands as proof of the reliability and excellence of our products. Xerxes by Shawcor tanks are structurally strong and made of 100% premium resin and glass (no fillers), making them corrosion-resistant, both inside and out. These are just a few of the reasons engineers and project specifiers select our tanks as the ideal storage solution for their Fuel, Water & Wastewater, and Oil & Gas applications.

Aestus, LLC Booth 207

2605 Dotsero Court
Loveland, CO 80538
970-278-4090
mwl@aestusllc.com
www.aestusllc.com



Aestus was founded 20 years ago to change the paradigm of subsurface characterization and conceptual site model (CSM) development from a drill first low data density approach, to a scan first then drill approach via electrical hydrogeology ultra-high resolution site characterization (Ultra-HRSC). As of 2022, Aestus has performed our GeoTrax CSM+™ electrical hydrogeology process in most USA states and internationally at hundreds of project sites. We have been privileged to work with industry clients, consulting firms, universities, state agencies, and federal agencies on these important projects.

Exhibitor Profiles

Official Lanyard Sponsor

RPI Group, Inc. Booth 212

6390 Joyce Drive, Suite 150
West Golden, CO 80403
720-639-8771
ed@trapandtreat.com
<https://www.trapandtreat.com/>



The RPI Group approach to remediation is often imitated but seldom equaled. BOS 100® and BOS 200® were the very first carbon-based injectates and remain the best researched. They are joined by BOS 200+® and CAT100, which extend the capabilities of the RPI product line. RPI Group projects target success with “best in class” project design/installation and pro bono analytical services from the only full-service laboratory dedicated to analyzing and studying wet activated carbon. RPI Group’s successful projects number in the thousands worldwide.

Crompco/OWL Booth 213

1815 Gallagher Road
Plymouth Meeting, PA 19462
610-278-7203
ed.kubinsky@crompco.com
www.crompco.com



Serving the petroleum industry for over 37 years, and now aligned with Trive Capital and Oscar W. Larson/OWL, Crompco is one of the nation’s leading UST compliance testing firms. With an extensive range of offerings, our goal is to serve all UST owners and operators with unmatched experience, attention to detail and cost-effective solutions designed to protect the environment and our customer’s assets. Major oil companies, C-Store chains, independent operators, government facilities and private industry all trust Crompco and our experienced team of professionals to protect their investments.

Petro Classroom Booth 214

9237 Ward Parkway, Suite 220
Kansas City, MO 64114
844-303-6752
info@petroclassroom.com
www.petroclassroom.com



Petro Classroom offers state-approved Class A/B and C Operator Certification courses, a 30-Day Walkthrough Inspection course and free courses on Common Releases and Inventory Control. Petro Classroom’s compliance training is affordable and convenient and not only meets, but exceeds the training requirements and guidelines established by the EPA and state implementing agencies. We also provide ICC prep and continuing education training for AST/UST installation and removal contractors.

LaBella Associates Booth 215

1000 Dunham Drive, Suite B
Dunmore, PA 18512
570-342-3101
ajmagnotta@labellapc.com
www.labellapc.com



From tank pulls to compliance services to remediation, the knowledgeable LaBella team is there to manage all the needs of your facility. We work closely with our clients to develop solutions to meet the unique needs of each client and each project. And with our diversity of services and team of professionals, we have an unmatched ability to address our clients’ needs and any challenges that may arise along the way. Buildings, energy, infrastructure, and environmental are what our teams are built for, but as a full-service engineering firm, being able to solve any challenge that’s put in front of us is what LaBella is known for.

PASS Training & Compliance Booth 302

720 N Dr. MLK Jr. Blvd
Muncie, IN 47303
765-281-5588
support@passtesting.com
passtesting.com



PASS Training & Compliance was founded in response to the EPA act of 2005. We worked with state regulators to help their laws to meet federal requirements. We then quickly grew in nearly every US state to become one of the largest providers of UST Operator Training. As regulations evolved, so did the demand for the attention of UST operators. We saw this as an opportunity to serve our customers, which led to the development of our cloud-based compliance management platform, PASS Tools for Companies, along with our partner-driven service provider network, PASS Tools for Service Providers.

Dover Fueling Solutions Booth 303

3814 Jarrett Way
Austin, TX 78728
512-388-8311
tami.becker@doverfs.com
<https://www.DoverFuelingSolutions.com>



Dover Fueling Solutions, made up of some of the most trusted, leading-edge brands in the industry, has a legacy of leadership that spans generations. With our talented, innovative, outstanding people, we are cultivating excellence, doing great things and redefining what is possible. Part of Dover Corp, DFS comprises the product brands of Wayne Fueling Systems, OPW Fuel Management Systems, ClearView, Tokheim, ProGauge, Fairbanks, LIQAL and AvaLAN. Headquartered in Austin, TX, DFS has a significant technology development and manufacturing presence around the world.

Exhibitor Profiles

Steel Tank Institute/Steel Plate Fabricators Association Booth 304

944 Donata Court
Lake Zurich, IL 60047
847-438-8265
info@steeltank.com
www.steeltank.com



STI/SPFA is a trade association representing fabricators of steel construction products. Member companies produce shop fabricated steel storage tanks, field erected tanks, pressure vessels, and pipe. Their customers are from the petrochemical, power generation, and water industries. STI also licenses technologies including Permatank, sti-P3, ACT-100 and ACT-100U, and a half a million tanks have been built to STI standards, under the STI quality control program.

Vista GeoScience Booth 305

130 Capital Dr. STE A
Golden, CO 80401
303-277-1694
RFP@vistageoscience.com
vistageoscience.com



Vista GeoScience is a full-service drilling and remediation contractor providing the latest advanced site characterization technologies and optimized in-situ remediation applications. We have off-road capable high-resolution site characterization systems (HRSC) including MIP/MiHPT, OIP/OiHPT, HPT/GWP, and several unique high-pressure/high-volume injection systems that allow for discrete top-down placement of any type of liquid or slurry reagent. Our HRSC systems provide real-time and 3D data CSM, and our injection systems will optimize the placement of your reagents for ensured success.

The Veeder-Root Company Booth 306

11548 Big Four Way
Gold River, CA 95670
916 715-9400
demmington@veeder.com
www.veeder.com



As the number one supplier of automatic tank gauges and the world's most experienced, trusted name in fuel management, Veeder-Root monitors over a half million tanks for major oil companies, hypermarkets, airports, governments, package deliverers, large truck fleets, car rental companies, public utilities, and thousands of fueling stations around the globe. Veeder-Root focuses on protecting your business's investments and reputation with the broadest range of new and proven technologies to help assess your total operation, improving performance, compliance, and profitability.

Icon Containment Solutions Booth 307

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Woods Cross, Utah 84087
855.DRY.SUMP
paul@iconcontainment.com
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Warren Rogers Fuel System Diagnostics Booth 312

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800-972-7472, x853
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UST Training, Inc. Booth 313

3495 Daisy Lane
Clinton, WA 98236
866-301-8265
ben@USTtraining.com
www.USTtraining.com



UST Training is the nationally recognized industry leader in UST operator training and has been training operators since 2003. We have trained more Class A/B and C operators for longer and more states than any other vendor. Also check out our popular "tank Savvy Minute" video series on YouTube. Learn from the best in the business: get Tank Savvy today.

Exhibitor Profiles

ITRC Booth 314

1250 H Street, NW Suite 850
Washington, DC 20005
202-266-4932
itrc@itrcweb.org
itrcweb.org



The Interstate Technology and Regulatory Council (ITRC) is a state-led coalition working to reduce barriers to the use of innovative air, water, waste, and remediation environmental technologies and processes. ITRC produces documents and training that broaden and deepen technical knowledge and expedite quality regulatory decision making while protecting human health and the environment. With public and private sector members from all 50 states and the District of Columbia, ITRC truly provides a national perspective.

OPW Booth 315

9393 Princeton-Glendale Rd
Hamilton, Ohio 45011
800-422-2525
marketing@opwglobal.com
www.opwglobal.com



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Jacob & Hefner Associates, Inc. Booth 402

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Downers Grove, Illinois, 60510
630-652-4640
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JHA provides Civil Engineering and Land Surveying, and Environmental Services on municipal infrastructure improvements; land development projects; residential, industrial, and commercial sites; Brownfields; and Superfund sites for various clients from different sectors including private and public industries, and local, state, and federal government. JHA's Environmental Services department provides environmental remediation and site services for the planning, management, and expert implementation of assessment, remediation, monitoring, environmental modeling, litigation support, and environmental construction management.

Columbia Technologies

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Suite 450-402
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Directional Technologies Booth 406

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Wallingford, CT 06492
203-294-9200
drilling@directionaltech.com
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Chubb Booth 412

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