

THANK YOU!  
Breakfast Sponsor



**Evergreen North America**

INDUSTRIAL SERVICES

*"Quality Service Is Our Obsession"*

Industrial Cleaning  
**Sign-In Form**





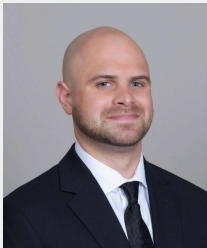
## INDUSTRIAL CLEANING COMMITTEE



**CO-CHAIRPERSON: JOSE RAMOS, KURARAY**



**CO-CHAIRPERSON: BRADLEY COBLE, COVESTRO**



**VICE-CHAIRPERSON: FRANK G. ROMITO, STONEAGE**

# ANTI-TRUST GUIDELINES FOR CONDUCTING MEETINGS

IBR appreciates your willingness to be an important part of this organization and the services provided to our industry.

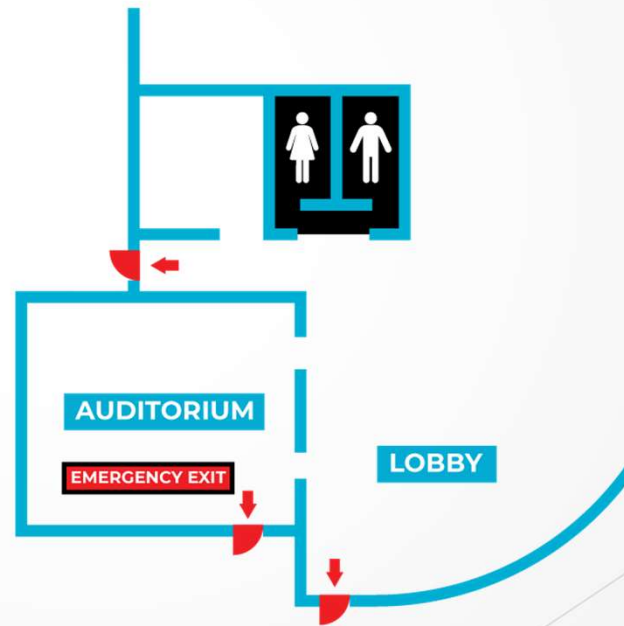
The following guidelines shall be followed in conducting meetings of IBR. This is not an exhaustive list of every possible subject to be avoided; in the event you have doubts about the propriety of any matter to be discussed in a meeting, our legal counsel is available for consultation. Generally, the anti-trust laws proscribe unlawful combinations or agreements. Sometimes “agreements” may be inferred from conduct. IBR wants to avoid even the appearance of impropriety, and this is the spirit of these guidelines.

- ❖ Do not discuss the prices of goods or services of any particular company(s).
- ❖ Do not disparage the goods or services of any particular company(s)
- ❖ Do not recommend the selection of any particular company as a supplier or customer
- ❖ Do not urge or counsel that participating companies engage in any concerted activity to accomplish any unlawful purpose, i.e., boycotting any company or coercing a company to take some desired action.
- ❖ Do not discuss matters which may be trade secrets or confidential to any company, i.e. don't engage in “off the record” comments or state matters “not to be repeated out of this room”.
- ❖ Do not propose secret or “rump” sessions after the official meeting is adjourned to discuss matters which cannot lawfully be discussed at the official meeting.
- ❖ Do not recommend or sponsor the gathering of statistical data, the publishing of standards, or doing joint research without advance written approval of the Operating Committee of IBR.
- ❖ Industry Business Roundtable's purpose is to educate participating companies, so every company represented will be better informed and can make its own individual decisions. IBR members are not required to adopt the IBR recommendations or policies.

**Thank you in advance for adhering to these guidelines.**



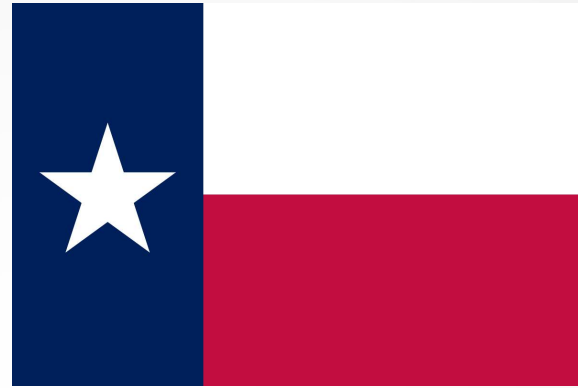
# Emergency Exits and Restrooms





## Pledge of Allegiance

I pledge allegiance to the flag of the United States of America and to the Republic, for which it stands. One Nation, under God, Indivisible, With Liberty and justice for all.



## Texas Pledge

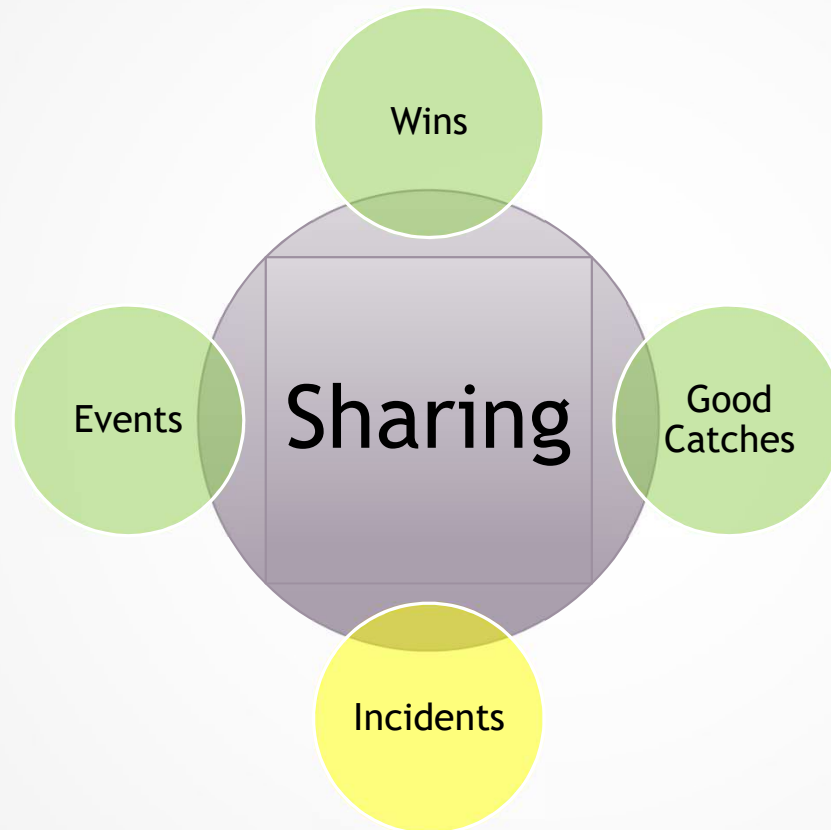
Honor the Texas Flag; I pledge allegiance to thee, Texas, one state under God, one and indivisible.

# New Attendee Introductions





# Best Practice Sharing



# WJTA UPDATE





## Reducing Hydroblasting Risks within your Operation



**Foundational Training**  
*(Part 1)*



**Field Verification**  
*(Part 2)*

### WATERJET

#### 19HBFT

- 3-hour course
- 3-year expiration
- 80% passing score on multiple choice test

#### 19HBFV

- Classroom and hands-on instruction and skills assessment



## Program Metrics (as of 08-16-24)

	Foundational Training (19HBFT)		Field Verification (19HBFV)		Verified Trainer (19HBQT)		Vacuum Foundational (19VACFT)	
	Pass	Fail	Pass	Fail**	Pass	Fail	Pass	Fail
<b>2024*</b>	1,598	93	227	0	21	1	517	49
<b>2023</b>	1,856	76	348	4	22	5	463	30
<b>2022</b>	1,719	49	405	18	27	4	91	7
<b>2021</b>	1,130	33	287	7	37	0		
<b>2020</b>	491	3	66	0	48	0		
<b>2019</b>	400	4						
<b>2018</b>	58	0						
<b>Totals</b>	<b>7,252</b>	<b>258</b>	<b>1,333</b>	<b>29</b>	<b>155</b>	<b>10</b>	<b>1,071</b>	<b>86</b>

\*1/1/2024-8/15/2024

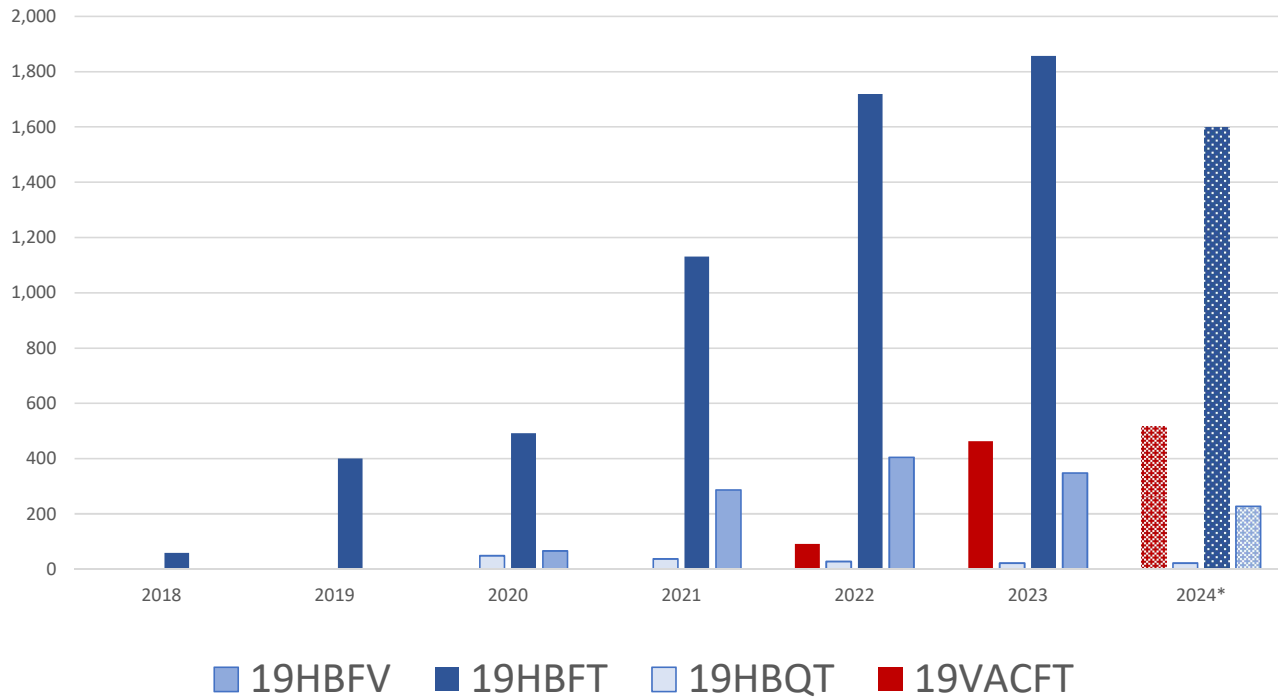
\*\* Failed 19HBFV typically indicates records submitted without the required 19HBFT prerequisite





# Program Metrics (as of 08-16-24)

WJTA Training Passed



## 2024 Highlights:

- 8 successfully passed Verified Trainers - August TTT event @ NLB
- On track for steady growth with 19HBFT
- Field Verification needs to pick up where possible to complete the certification





## ANNOUNCEMENTS!



### WJTA Inaugural Golf Tournament

Monday, October 28, 2024 | Wildcat Golf Club

12000 Almeda Road, Houston, TX 77045

- **Spanish 19HBFT**
  - Drafting in process, earliest release of September '24
- **E-Learning Module, 19HBQT Verified Trainer**
  - Historically a manual check for trainer activity to renew Verified Trainer credential, now offering ability to re-cert via a self-paced module with important reminders, updates, and information for the trainers in the network

# Safety Council Report

**hasc**  
HEALTH & SAFETY  
COUNCIL







# GOLF TOURNAMENT

MONDAY  
**NOVEMBER 11, 2024**  
SOUTH SHORE HARBOUR COUNTRY CLUB



*Save the Date!*

**Mark Your Calendars: Registration Opens Friday, August 16**



# Welcome



## INDUSTRIAL CLEANING COMMITTEE MEETING

**TOPIC OF DISCUSSION:**  
THE NEW GENERATION OF NON-ENTRY



**SPEAKER:**  
**Chase Wilkinson**

**TITLE:** Sales Associate  
**COMPANY:** Sciphyn



**THURSDAY**  
August 22nd, 2024



**TIME**  
8:30AM - 10:30AM



**LOCATION**  
HASC AUDITORIUM: 5213 CENTER STREET  
PASADENA, TX, 77505





# THE NEXT GENERATION OF NON-ENTRY

A VISION FOR A SAFER TOMORROW

[www.sciphyn.com](http://www.sciphyn.com)





# THE DANGERS OF CONFINED SPACE ENTRY

In recent years, the robotics service industry has made significant strides in improving safety and efficiency in various industrial applications.

However, there are challenges in eliminating confined space entry and limiting shutdowns within our current industrial infrastructure.

It's time to reimagine the way we design industrial structures to better accommodate robotic services.

“The global service robotics market is projected to reach \$58.1 billion by 2026.”

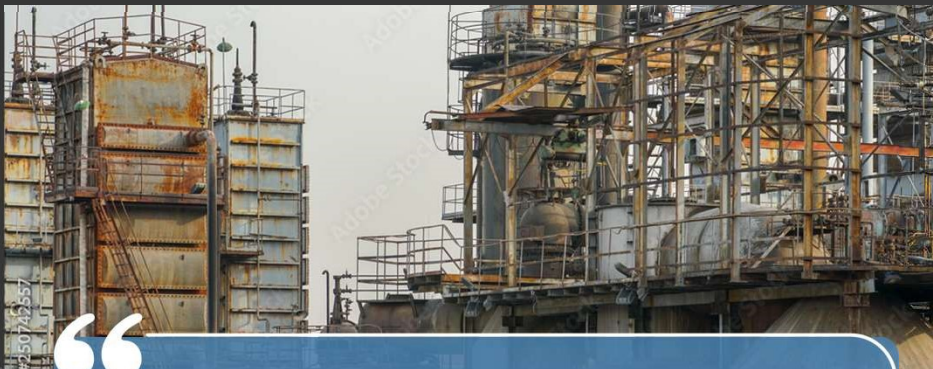
(Source: MarketsandMarkets)

“Confined space incidents account for an average of 92 fatalities and 5,600 injuries annually in the United States alone.”

(Source: OSHA)



## CURRENT CHALLENGES



“Approximately 55% of water and wastewater treatment facilities in the U.S. are over 50 years old, posing maintenance challenges.”  
(Source: EPA)



Our industrial landscape consists of aging structures, some over 50 years old.

Examples include process water tanks, cooling towers, waste treatment plants, and fire suppression systems.

Unfortunately, these structures were not originally designed with robotics or remote service work in mind.

This mismatch poses considerable challenges for modernizing maintenance and repairs.





## DESIGNING INDUSTRIAL INFRASTRUCTURE FOR ROBOTICS

To overcome these challenges, we propose a paradigm shift: designing new industrial infrastructure with robotics as a central consideration.

Redesigning structural elements, such as agitator locations, support structures, access points, pipe layouts, and height clearances, can simplify robotic inspection, repair, and cleaning services.

Proactive design changes hold the key to unlocking substantial safety and efficiency gains.



“

**"Redesigning infrastructure for robotics can lead to a 30-40% reduction in maintenance costs."**

(Source: Robotic Industries Association)

”



## WORKING TOGETHER

Achieving our vision requires close collaboration between key stakeholders:

- Industrial building contractors
- Industry owners and operators
- Planners and architects
- Remote service providers

An open and ongoing dialogue among these parties is essential to develop optimal designs that facilitate easier servicing throughout a structure's lifespan.





# ROBOT ACCESSIBILITY

To fully embrace the potential of robotics in industrial maintenance, it's essential to design tanks and structures with robot-friendliness in mind.

Here are some key ideas to consider when designing tanks for robotic accessibility:

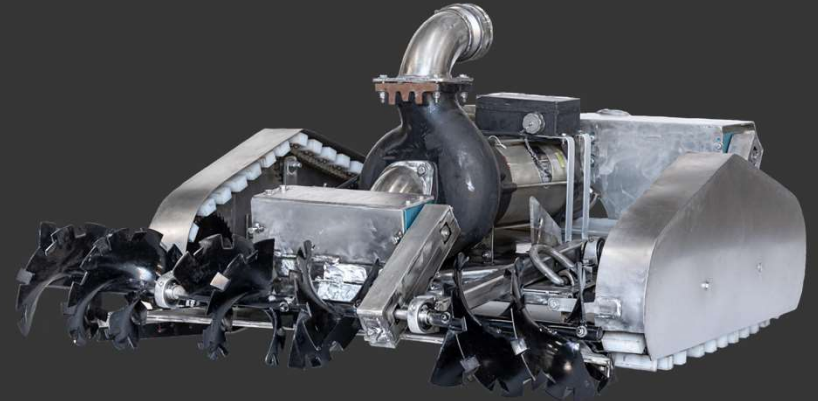




01

### Larger Hatch Sizes

- Enlarge access hatches to accommodate bigger robots with advanced capabilities.
- This allows for easier deployment and maneuverability within the tank.
- Larger hatches enable the use of specialized robotic tools and sensors.



02

### Sturdy & Wider Staircases

- Replace traditional ladders with sturdy and wider staircases.
- Staircases provide safer and more convenient access for both maintenance personnel and robots.
- They ensure stability and ease of movement during inspections and repairs.



03

### Reinforced Roofs

- Strengthen tank roofs to support the weight of both humans and robots.
- Reinforced roofs enable technicians and robots to work on top of the tank without concerns about structural integrity.
- This facilitates maintenance tasks and ensures safety.



04

### Lifting or Pulley System

- Install lifting or pulley systems on the side of the tank.
- These systems assist in transporting robots and equipment to the top of the tank.
- Robots can be easily positioned and retrieved, reducing the need for manual lifting and lowering.





## PRIORITIZING SAFETY & EFFICIENCY

The driving force behind our efforts is twofold: cost and safety.

Eliminating confined space entry and minimizing shutdowns not only reduce operational expenses but also significantly lower the risk of workplace injuries and fatalities.

Prioritizing these changes is a win-win for both the bottom line and the well-being of our workforce.



“From 2011 to 2018, 1,030 workers died from occupational injuries involving a confined space. The annual figures range from a low of 88 in 2012 to a high of 166 in 2017.”  
(Bureau of Labor Statistics)

**“The average cost of a confined space rescue can exceed \$1 million, not accounting for human suffering.”**  
(Source: Industrial Safety & Hygiene News)

”





# PLANNING FOR A SAFER TOMORROW

In conclusion, designing tanks and structures with robot-friendliness in mind is not just a concept; it's a practical approach to a safer and more efficient future.

By implementing these ideas, we not only make it easier for robots to perform critical tasks but also ensure the well-being of our workforce.

Let's continue to innovate and build a foundation for a robotic revolution in industrial maintenance.





# THANK YOU

“AT SCIPHYN, WE AREN'T JUST BUILDING A BUSINESS – WE'RE  
DISRUPTING AN OUTDATED INDUSTRY.”

[WWW.SCIPHYN.COM](http://WWW.SCIPHYN.COM)





# **IBR** **CLAY SHOOT**

*Thursday, August 29 2024*

*Greater Houston Sport Club  
6700 McHard Rd, Houston, TX 77053*

Registration Begins at 7:30 AM

**SAVE THE DATE!**



SAVE THE DATE

# HASC TAILGATE

FEBRUARY 7, 2025



PRESENTED BY  **hasc**

May 16, 2025



Next Meeting: October 24th, 2024

Innovation Through Collaboration!