



Upcoming Meeting

Date: October 27th, 2021

Time: 6:00pm to 8:00pm

Place: Olive Grove Restaurant

Topic: Oil/Water Separators
Sizing, Locations, Features

Speaker: Chas Tevis—Highland Tank

****MEMBERSHIP AWARDS****
See page 23 for details

Meeting Format

6-6:30 Social

6:30-6:45 Announcements and Table Tops

6:45 Dinner Served

7:00-8:00 Speaker

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MEETING LOCATION



Olive Grove
Restaurant & Lounge

**705 North Hammonds Ferry Road
Linthicum, Maryland 21090
Phone: 410.636.1385**



*Local Chapters are not authorized to speak for the Society.
Newsletter questions please contact [Jason Eagles](#)*

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Please Contact [Jason Eagles](#) or [Jeff Edwards](#)

Make checks payable to Baltimore Chapter of ASPE. Please contact the chapter Treasurer with any questions.

Kathy Dwyer
EJ Dwyer Company Inc.
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Jeffrey W. Edwards, CPD ,GPD
President

President's Report

It was great being able to see everyone again in person at our first meeting of the year several weeks ago. If you weren't able to join us last month, I hope you are available to join us on October 27th when oil/water separators are presented and discussed.

This month we are also awarding chapter membership tenure awards to some of our loyal members.

From what I read and hear, the ASPE Technical Symposium held in San Diego last month was a great success. I am happy to announce that the Baltimore ASPE chapter once again earned the Award of Merit for all our hard work for our membership.

If you need to contact me for any reason, please email me at President@BaltimoreASPE.com.

I look forward to seeing everyone on October 27th.

Best Regards

Jeff Edwards, CPD, GPD

President-ASPE Baltimore Chapter



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ASPE Design Guide Volume 4 Chapter 4

“The goal of the designer should be for the system to operate with as little energy as possible for a given demand.”

“At no time is a booster at 100 percent flow based on Hunter’s diversity curves”

“When selecting the total flow capacity, one preferred way to evaluate the operational efficiency is to use a method that can be scientifically proven, such as the 70 percent method.”

“Tanks will typically be required when the manufacturer does not utilize low flow testing algorithms to detect low flow”

“New energy standards concede that reducing the speed of a pump during most of its operational time and restarting for makeup loads is more efficient than using tanks as “water storage batteries” during low-flow conditions.”

** The above is taken from American Society of Plumbing Engineers design guide volume 4 chapter 4**

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Chuck Swope, PE, CPD, LEED AP BD+C
Vice President—Technical

Technical Report

We're proud to announce that there were a few successes in the ASPE community last month. We had our first in-person meeting in almost 18 months and it was very well attended! We thank Andrew Macaluso from Watts Water Technologies for presenting on the very interesting topic of Heat Pump Water Heaters. Apparently, we've come full circle and are now starting to use CO2 and other natural refrigerants to help us combat global warming and inefficient energy use. I learned that using CO2 was first patented in 1870 and was in use up until the artificial refrigerants began to displace them in the markets around 1928.

The 2021 ASPE Tech symposium also concluded last month, with over 600 attendees! It was impressive return to form after the virtual convention held last year. I was not able to attend, but I'm looking forward to next year's convention. Join us in Indianapolis, won't you? More details to come as they are announced.

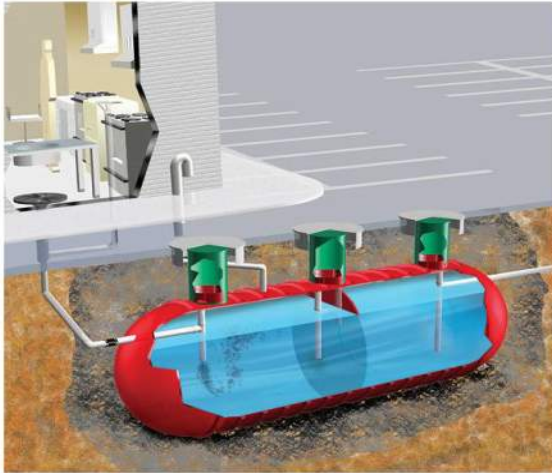
This month, we have Chas Tevis from Highland Tanks joining us to present Oil/Water separators and the guidelines for sizing, locations and features to keep in mind for when they are required. Chas is the Division Manager for Highland Tank Grease Interceptors and was educated at the Temple University School of Engineering. He is an active member of ASPE, the Water Environmental and Technology (WEFTEC) and Plumbing and Drainage Institute (PDI). He participated in Uniform Plumbing Code Task Group for Fats, Oils, and Grease and in the 100 mg/l Task Group for Plumbing and Drainage Institute. He helped develop the grease interceptor code development for the Canadian Standard Association (CSA B481) and assisted in the development and patent of a continuous level probe designed to measure fats, oils, and grease in grease interceptors. He routinely interfaces with pretreatment coordinators, inspectors, engineers, and facilities on grease interceptor design, sizing, performance, maintenance and compliance issues.

Best Regards,
Charles J. Swope, PE, CPD, LEED AP BD+C
Vice President - Technical



Tech Topic: Grease Interceptors

Clear, consistent and predictable FOG control.



More regulators are beginning to echo the message that fats, oils, grease and food solids aren't just limited to what you cook, it has a lot to do with what you wash. Photo courtesy of Xerxes

June 24, 2016
Sterling Laylock

Grease interceptors recently have been receiving more attention as regulators in many municipalities impose more stringent regulations to reduce the amount of fats, oils, grease and food solids found in city wastewater collection systems.

Restaurants, industrial food facilities and other commercial food-service establishments are significant sources of FOG because of the amounts produced from cooking, food preparation and cleanup work. More regulators are beginning to echo the message: “FOG isn’t just limited to what you cook, it has a lot to do with what you wash (i.e. washing pots, pans and

dirty dishes).” FOG sticks to the sides of kitchen plumbing pipes and eventually finds its way into sewers and hardens inside pipes.

These events lead to blockages that clog sewer pipes and can cause raw sewage to overflow onto streets, and into homes and businesses – costing our municipalities a lot of money due to problematic disruptions (i.e., road closures, costly emergency services and business interruptions).

When grease interceptors malfunction there are virtually no early warning signs.

Operations maintenance and system design

While grease pumpers claim “skimming grease” is a cost-effective alternative, the impacts of these practices can be detrimental. Settled food solids left in the bottom of concrete and metal grease interceptors for prolonged periods of time can cause highly acidic conditions (i.e., low pH and aggressive free-fatty acids).

Over time these acidic conditions can cause significant deterioration in metal and concrete tanks that can eventually lead to premature replacement of grease interceptors. In concrete tanks (that do not have protective additives in the aggregate mix), leaching can occur. Cement separates from the concrete walls, passes through to sewers and calcifies down the line to create rock-hard blockages. Additionally, steel reinforcement in concrete tanks (rebar) can become exposed to accelerated corrosion.

Grease interceptors are manufactured out of several different materials giving owners, designers and municipalities options to consider. However, with more stringent regulations becoming more prevalent, facility managers and owners are turning to fiberglass grease interceptors as the preferred choice because of their long-term benefits and proven performance in highly corrosive environments.

To ensure proper disposal of FOG and to prevent sewage backups, municipalities require commercial and industrial FOG-generating food-service establishments to properly install, operate and maintain correctly sized and designed grease interceptors. Some jurisdictions also are beginning to pay close attention to the need for filtering FOG-laden food solids before they enter kitchen pipes and end up in the bottom of grease interceptors.

This is important because a significant volume of grease accumulated inside grease interceptors is released from the decaying food (settled solids) and floats to the top of the tank adding to the grease layer. Food solids separators that filter out solids before they cause problems are beneficial to owners and operators for three reasons:

- Clogs in pipes are reduced; minimizing emergency service costs and downtime;
- Preventing decaying food solids from settling inside grease interceptors reduces the risk of accelerated deterioration of metal and concrete tanks, and can lead to favorable conditions regarding odor control.
- Removing food solids from the waste stream increases the grease interceptor's ability to capture and retain fats, oils and grease; their main purpose.

Options galore



There typically are two types of grease interceptors used in commercial and institutional kitchen applications — hydromechanical and gravity units. Photo courtesy of Xerxes.

There typically are two types of grease interceptors used in commercial and institutional kitchen applications.

- Hydromechanical grease interceptors, more commonly known as grease traps are usually found indoors in close proximity to the discharge point. These grease traps typically are constructed of steel or polypropylene plastic and are compact in size.

Gravity grease interceptors are engineered and prefabricated units constructed of materials such as fiberglass, steel, polyethylene and precast concrete. The sizes of these grease interceptors typically are large and located outside the given facility.

Facility managers and property owners sometimes make buying decisions based on lifecycle costs. The total cost of ownership typically considers the initial purchase cost, ongoing maintenance costs and the replacement costs.

Unfortunately, many of these decisions are made based on installing the smallest unit allowable combined with the lowest possible price. Spending the bare minimum to get by can significantly impact the facility's ability to control FOG discharges and can lead to much greater lifecycle operating costs over the medium to long term.

There are five key factors that facility managers and owners should consider when selecting the appropriate grease interceptor design for a project.

1. Grease interceptor material choices:

When comparing tanks, concrete always seems to be the default choice when property owners and food-service operators do not specifically request a more appropriate material. This is, in part, because concrete has been the material of choice in the past.

Fiberglass tanks have become the industry standard for numerous underground tank storage applications such as gasoline stations and jet-fuel storage at airports. The choice for grease interceptors should be no different since internal tank corrosion is a major consideration in both applications. The performance benefits and longevity of fiberglass storage tanks should be considered a superior option for effective, long-term FOG control by forward-thinking facility managers and property owners.

Fiberglass offers a full range of performance benefits that facility managers and owners should expect when specifying effective, performance-driven grease interceptor equipment needed to control FOG.

- Strong structural design for water loading conditions makes fiberglass ideal for installations in parking lots and high-traffic areas.
- Installation steps and costs are minimized by the lightweight nature of fiberglass. This is an important consideration when tank installation sites are difficult to access. When comparing fiberglass to concrete grease interceptors there are a few more factors to consider.
- Concrete grease interceptors are susceptible to corrosion, leading to performance failures, odor issues (embedded bacteria) and leaks. Concrete grease interceptors can be designed with an internal lining in an attempt to provide an added level of protection, but due to free-fatty acids and acidic conditions often present inside grease interceptors, internal coatings may only serve to delay the deterioration of these types of tanks.
- Concrete tanks also are extremely heavy, adding to installation difficulty and cost. Many concrete tanks are not designed for water loads so the placement of a concrete grease interceptor can be limited to non-traffic locations. Metal tanks, such as steel, also present certain disadvantages when used to fabricate grease interceptors.

- By nature of the material, metal tanks are prone to corrosion. Both internal and external coatings are recommended. As with all tanks, regular maintenance/inspections during the life of the tank are required when attempting to manage them through to their designed useful life.
- Fiberglass can provide the structural integrity that metal tanks offer but without the need to use coatings and cathodic protection to survive the corrosive environments found in grease interceptors.

2. Size and flow rates really do matter: Determining the correct size of a grease interceptor is an important consideration.

- If you have a tank that is too small or too large for your needs, maintenance and cleaning can become more difficult and increase the cost to operate the facility where the grease interceptor is installed.
- FOG and food solids stored for prolonged periods smell bad. When maintenance and cleaning becomes difficult due to improper sizing of the grease interceptor, the odor can linger into parking-lot areas causing the initial customer experience to be an unpleasant public nuisance.
- Fiberglass storage tanks are designed, constructed and sized to conform with recognized plumbing codes requiring one- to 30-minute retention times.



Proper maintenance and cleaning of grease interceptors is necessary because of the potential odors could become a public

3. Proper maintenance of grease interceptors:

Fiberglass grease interceptors require minimal maintenance when it comes to the cleaning of the interior tank walls. Alternatively, concrete grease interceptors without a liner have porous surfaces where bacteria can reside and start to corrode structural integrity. In comparison to concrete, fiberglass grease interceptors have a smooth nonporous surface, which reduces the amount of residue and bacteria that can build up and enter the wastewater collection system.

4. Monitoring system for ease of mind:

Grease in tanks that overflows and spills into the environment requires close attention. Regulators can impose monetary fines and/or facility shutdowns if facility managers and owners fail to comply with the municipality's regulations.

In an effort to measure and verify grease interceptor operational efficiencies and drive costs down, many facility managers and owners are choosing to install electronic interceptor monitoring devices to measure the accumulation of FOG as well as the level of sludge (food solids) at the bottom of their grease interceptors. A monitoring system allows facility managers to monitor tank functionality from the control unit without having to physically open the tank lids.

Compliance with changing regulations

Even the U.S. Environmental Protection Agency realizes FOG control methods used by food-service businesses and regulators are outdated.

This has made compliance efforts costly and difficult for all stakeholders. Advanced interceptor monitoring devices, and electronic reporting help to make compliance efforts more clear, consistent and predictable. They also drive costs down by protecting investments in infrastructure.

FOG, food solids and free-fatty acids combine in grease interceptors to create the right conditions to form hydrogen sulfide gas-H₂S (it's the noxious rotten egg smell that comes from sewers and grease interceptors). Once combined with oxygen, H₂S aids in the creation of sulfuric acid which can destroy concrete. This biological activity equates to a bacteria known as Thiobacillus Concretivorous, which is Latin for "eats concrete." An experienced microbiologist likely is to be the best source of information when considering the effects that FOG has on concrete grease interceptors.

Municipalities have increased the enforcement of regulations due to the amount of sewer system discharge violations. These violations can result in a water/sewer bill surcharge of at least 50% or more in many jurisdictions.

These deteriorating effects on grease interceptors have prompted major metropolitan areas such as Miami-Dade County, Fla., to develop regulations to help reverse this destructive trend.

Preventive maintenance is the key. Leveraging technology that monitors and data-logs FOG accumulation allows a business to know exactly when to clean their grease interceptors.

This can result in significant cost savings. When combined with an at-source food solids separator, interceptor monitoring devices can help businesses avoid over- or under-pumping their grease interceptors. Environmental regulators can more easily focus their enforcement and compliance efforts on those businesses that are late to adopt preventive/predictive FOG technologies.

Businesses that fail to become transparent in the effort to keep FOG out of sewers and public waterways will likely find distinct disadvantages. The unpredictable costs of FOG-related "urgent care emergencies" will put undue pressure on their profit-and-loss statements as operations and maintenance costs increase. Prevention is the best pathway for effective FOG control.

The type of grease interceptor utilized in FOG-generating food establishments has become an important element when confronting corrosion issues. Interceptor Monitoring Devices installed with grease interceptors can put your mind at ease with the ability to remotely monitor the function of an interceptor and immediately notify the owner's facility managers when there is a potential issue.

The type of material used to manufacture a grease interceptor has become important today. When combined with effective FOG control technologies, fiberglass grease interceptors continue to emerge as the preferred choice of system designers, owners and regulators across North America because of their resistance to corrosion, solid-built quality and long-term 30-year warranty.



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Nikita Patel, EIT, MBA
AYP Liaison



AYP Report

I am very excited to announce our AYP event for this fall. I know we will have a WHEEL-y fun time, because it's been a long time since we have all SEAT each other. Join us next month, and I promise it won't be a DRAG. No one can get TIRE-d while we have our own Mini Grand Prix, and you AUTO believe I have a lot more puns up my sleeve!

To hear more of them, pencil in Wednesday, November 3rd from 6-8PM with our Baltimore AYP group at Autobahn Indoor Speedway right by BWI. We will send out a link to register soon. The event will be capped at 25 participants. Those interested in attending but not racing, we will have the opportunity to catch up over food and drink and also try their hand at axe throwing!

Contact me for more details, and I hope to see you there.

Thanks,

Niki

Nikita Patel, E.I.T., M.B.A.
Sales Engineer

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Christopher Imhof, PE, CPD
Education Committee Chair

Legislative and Education Reports

Legislative

WSSC Water is Seeking Public Comment on Proposed Changes to the WSSC Water Plumbing and Fuel Gas Code.

WSSC Water proposes amendments to adopt the 2021 International Plumbing Code and the 2021 International Fuel Gas Code and making some technical and administrative modifications to the 2018 WSSC Plumbing and Fuel Gas Code. The proposed changes have been preliminarily reviewed by the WSSC Water Plumbing and Fuel Gas Board and are being released for public comment. The proposed changes are being coordinated with interested stakeholders, including building/trade associations and county officials.

To view public notice, you may visit the WSSC Water website at:

<https://www.wsscwater.com/news/2021/september/wssc-water-seeking-public-comment-proposed-changes-wssc-plumbing-and-fuel-gas>

WSSC Water intends to adopt these new regulations following a public comment period. Written comments will be accepted until October 26, 2021, by emailing Christopher Imhof, Technical Standards Engineering Manager, at christopher.imhof@wsscwater.com.

Education

Summer is over, but you can still visit <https://education.aspe.org/> to complete free Read, Learn, Earn articles. Regards,

Chris Imhof, PE, CPD
Vice President – Legislative
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Brian Crisp, CPD
Vice President - Membership

Membership Report

Hello again folks! Our first meeting of the year has come and gone, and it was great to see the old gang back together again. I can attest that the crab cakes are as good as ever - If you're comfortable, please join us at the Olive Grove once again.

We like to recognize the contributions of our members, so we are again providing Membership Tenure awards this year. We'll be awarding the 2020 Tenure recipients announced last month at our October meeting, as well as the following folks for the 2021 Tenure awards:

10 Year

Chuck Swope (VP, Technical)

Eric Erbeling

Michael Morrissey

Neal Cluck

Michael Notarange

Adam Rickey

20 Year

Merton Harris

Ben Ploskon (former President)

Don't forget – to show our appreciation your attendance is on us!

Baltimore is up to 109 members thanks in part to Michael Sauter – Design Plastic Systems. Please join me in welcoming them to our chapter, perhaps “buying” them an adult beverage at our upcoming meeting.

If you or anyone you know is interested in joining, or at least hearing about the benefits of membership, please don't hesitate to reach out to me. You can also join directly at <https://www.aspe.org/join>.

Thanks and “see” you at the meetings!

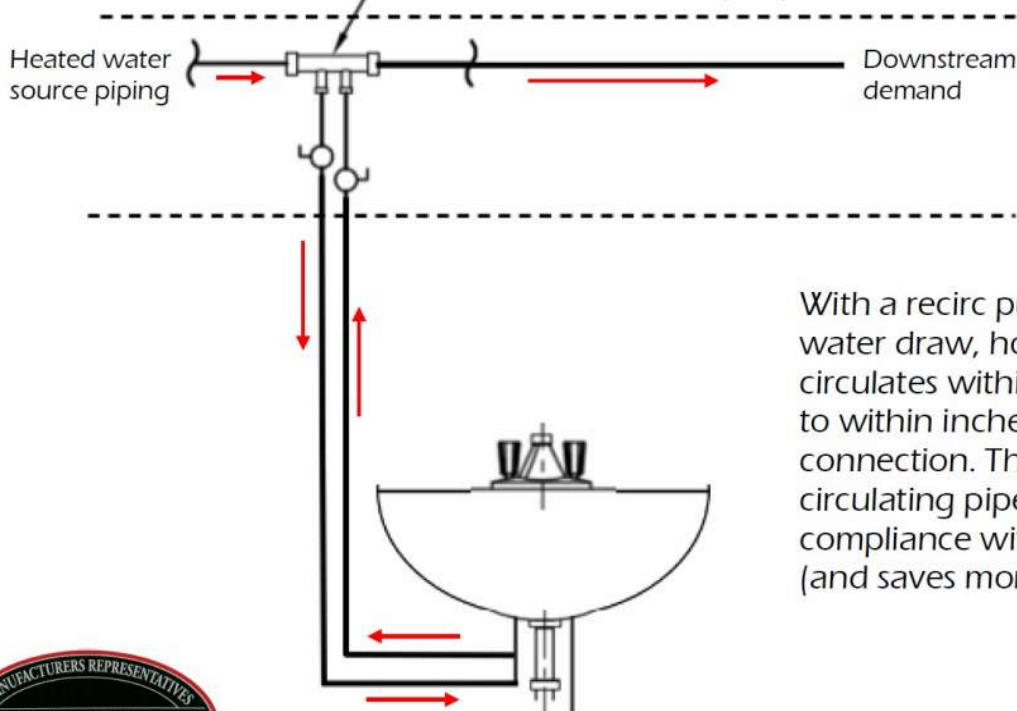
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2021-2022 ASPE Baltimore Chapter Meeting Schedule

Date: **September 22nd, 2021**
Speaker: Bay Associates
Topic: Heat Pump Water Heater Technology

Date: **October 27th, 2021**
Speaker: Highland Tank
Topic: Oil/Water Separators

Date: **November 17th, 2021**
Speaker: Ames
Topic: Direct Inline Pumping Systems for Sanitary and Storm

Date: **December 10th, 2021**
Holiday Party –TBD

Date: **December 15th, 2021**
Speaker: Joyce Agency
Topic: Pressure Reducing Valves

Date: **January 26th 2022**
Speaker: STH
Topic: Fire Pumps

Date: **February 20-26th, 2022**
Engineer's Week

Date: **February 23rd, 2022**
Speaker: Prof. Ken Isman
Topic: ESFR and Cloud Ceilings

Date: **March 23rd, 2022**
Speaker: Otto Sales
Topic: Wastewater Systems

Date: **April TBD, 2022**
Event: Annual Golf Outing

Date: **April 27th, 2022**
Speaker: Charlotte Pipe
Topic: Hands-on Starter Fittings

Date: **May 25th, 2022**
Speaker: EJ Dwyer
Topic: Emergency Fixtures



Monthly Sponsorship Opportunities

The Baltimore Chapter of ASPE continues to have successful meetings and is looking to continue improving throughout the year.

The Chapter has the following sponsorship opportunities for each month:

Tabletop Presentations: \$100 to provide a tabletop presentation of equipment or material relative to the plumbing profession. The tabletops will be set up from the beginning to the end of the monthly meeting and provides the opportunity to provide a brief (under 5 minutes) presentation.

Please make checks payable to the Baltimore Chapter of ASPE.

Contact Jeff Edwards or Kathy Dwyer if interested

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NOTE: ONLY APPLICABLE WHEN WE RETURN TO OUR REGULAR IN PERSON MEETING EVENTS