



2019 National Pretreatment & Pollution Prevention Workshop + Training

May 14 -17, 2019

Hotel Murano
Tacoma, WA

Agenda

Current as of May 8, 2019

All Meeting Rooms are on the 1st Floor unless otherwise indicated.

Tuesday, May 14

7:30 – 4:00 Registration

Rotunda

Bicentennial Pavilion

7:30 – 9:00 Continental Breakfast

Rotunda

Bicentennial Pavilion

8:00 – 5:00

Pavilion A

TRAINING COURSE: Pretreatment 101 – Introduction to the Pretreatment Program for Wastewater Utilities

This optional, full-day training course is geared toward pretreatment professionals in the first few years of their pretreatment careers. Please see www.nacwa.org/19pretit for additional information about this course.

Separate registration is required for the training course.

8:00 – 5:00

Pavilion BC

TRAINING COURSE: Advanced Local Limits

This optional, full-day training course will provide an in-depth focus on local limits, answering all the “who, what, when, where, why, and how” questions about local limits. Please see www.nacwa.org/19pretat for additional information about this course. ***Separate registration is required for the training course.***

8:00 – 5:00

Pavilion D

TRAINING COURSE: Industrial Sampling and Quality Control

This optional, full-day training course will provide a focus on wastewater sampling and monitoring associated with Industrial Pretreatment Program compliance, with additional discussion focused on quality assurance, ethics, and how the data is utilized. Please see <http://www.nacwa.org/19pretist>

for additional information about this course. ***Separate registration is required for the training course.***

8:00 – 5:00
Pavilion EF

TRAINING COURSE: Improving Your FOG Program

This optional, full-day training course will provide insight into why FOG programs are such a critical part of a pretreatment program and the tools to identify and understand problems and make improvements. Please see <http://www.nacwa.org/19pretfog> for additional information about this course. ***Separate registration is required for the training course.***

Wednesday, May 15

6:30
Lobby Level

Morning Run/Walk through Tacoma

Join fellow *Workshop* participants for an hour of exercise to begin your day. Runners and walkers of all levels are invited – we will divide into groups of different paces. Rain or shine, please meet us in the lobby!

8:00 – 12:00
Ballroom Foyer

Registration

9:00 – 9:15
Venice Ballroom

Introductory Remarks

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee
Sewer and Wastewater Engineering Supervisor
City of Vancouver, Department of Public Works
Vancouver, WA

Opening Remarks

Daniel Thompson

Division Manager, Business Operations
City of Tacoma, Environmental Services Department
Tacoma, WA

Adam Krantz

Chief Executive Officer
National Association of Clean Water Agencies
Washington, DC

9:15 – 9:45
Venice Ballroom

Pretreatment 2.0 – Future Roles of the Program

The Pretreatment Program has been the bedrock of assuring the integrity of the collection system and wastewater treatment plant. The classic motivations have been to prevent “pass through” and “interference” and protect effluent and biosolids quality. With the advent of the “Utility of the Future” and the ability to generate energy, recover nutrients and promote water reuse, will this portend an evolving role for the Pretreatment Program? Jeff Lape will take us on a bit of a futurist point of view and offer a glimpse of how the role of the Pretreatment Program and Coordinator might evolve given the evolving nature of technology, innovation, and resource recovery.

Jeff Lape

Deputy Director, Office of Science and Technology
Office of Water
US Environmental Protection Agency
Washington, DC

9:45 – 10:30
Venice Ballroom

National Pretreatment Program Update

US Environmental Protection Agency (EPA) Headquarters staff will update *Workshop* attendees on several national issues affecting the pretreatment program. The latest Effluent Limitation Guidelines (ELG) Program plan will be discussed, including the study that EPA is conducting for the Electronics & Electrical Components category and the study on the holistic management of oil and gas extraction wastewater from onshore facilities. Other topics will include e-reporting and updates to guidance documents and pretreatment program manuals.

Jan Pickrel

National Pretreatment Team Coordinator
Water Permits Division, Office of Wastewater Management
Office of Water
US Environmental Protection Agency
Washington, DC

10:30 – 10:45

Networking Break

10:45 – 11:15
Venice Ballroom

Drilling into the Dental Amalgam Rule Requirements

Full implementation of the Dental Amalgam Rule is just around the corner, with compliance for existing dental offices will be required by June 2020. The responsibilities for pretreatment programs to oversee dental office compliance are different than for other pretreatment standards, but these responsibilities are still not clear. This panel will discuss the requirements of the rule and the clarifications sought about the expectations of EPA, the EPA Regions, and states for local pretreatment program implementation of the rule.

Jan Pickrel

US Environmental Protection Agency

Michael Le

Pretreatment/Biosolids Coordinator
US Environmental Protection Agency, Region 10
Seattle, WA

Martie Groome

Laboratory and Industrial Waste Section Supervisor
City of Greensboro Water Resources Department
Greensboro, NC

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee

11:15 – 12:00
Venice Ballroom

Law and Order: Illegal Discharge Unit

Illegal discharges into the sewer system can cause frustrating problems for utilities and their pretreatment programs. In this case study, a truck washing company was allegedly discharging hazardous chemicals into the sewer system. This presentation will show how the City of Tacoma worked with the Washington State Department of Ecology to investigate the discharges, which led to criminal charges against the business owner. The successful strategies used in the investigation and the lessons learned will be discussed.

Brett Burrows

Environmental Compliance
City of Tacoma, Environmental Services Department
Tacoma, WA

12:00 – 1:45

Lunch (on your own or optional networking lunch)

Whether you are attending the *Workshop* for the first time or are a repeat attendee, the optional networking lunch will be a chance to get to know some new people and share conversation over lunch. After registering for the *Workshop*, you will receive an email asking for a few pieces of information from you if you would like to be included in a networking group. We will assign you to a small group and provide a list of nearby restaurants. Each participant will be responsible for paying for their own lunch.

1:45 – 4:00
Ballroom Foyer

Registration

2:00 – 2:05
Venice Ballroom

Opening Remarks

Frank Dick
Chair, Pretreatment and Pollution Prevention Committee

2:05 – 3:15
Venice Ballroom

Will PFAS Become a Pretreatment Issue?

The class of chemicals known as per- and poly-fluoroalkyl substances, or PFAS, are becoming a household name as the media pays more attention to their presence in groundwater and drinking water. Although much of the PFAS may come from legacy sources, pretreatment programs may be asked to do more to regulate PFAS from any potential industry sources. This session will cover the latest developments about the regulation of PFAS and how utilities are responding to concerns about these chemicals.

Holly Davies

Senior Toxicologist, Office of Environmental Public Health Sciences
Washington State Department of Health
Olympia, WA

Stephen Kuplicki

Manager-Operations – Industrial Waste Control and Analytical
Laboratory
Great Lakes Water Authority
Detroit, MI

3:15 – 3:45
Venice Ballroom

Wipes: Moving Beyond the Tip of the Fatberg

Flushed wipes are a major component of fatbergs, and over the past five years, NACWA and other wastewater associations have worked extensively on flushability and labeling specifications for wipes. Legislation is now necessary to make these specifications a requirement for all wipes, and public education on what can be flushed is still a vital part of addressing fatbergs and other problems caused by flushed consumer products. This session will provide an update on the work on wipes and how additional progress can be made.

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee

Cynthia Finley

Director, Regulatory Affairs
National Association of Clean Water Agencies
Washington, DC

3:45 – 4:00

Networking Break

4:00 – 5:30

EPA Regional Roundtable Discussions

The Regional Roundtable session provides an opportunity for EPA, state, and municipal *Workshop* participants to discuss priority issues in each EPA Region. Regional EPA officials and experts will be on hand to take your questions.

Region	Room Name
1	Studiolo 2, 4 th Floor
2	Studiolo 2, 4 th Floor
3	Living Room, 3 rd Floor
4	Lido Board Room, 3 rd Floor
5	Cavallino, 3 rd Floor
6	Burano, 3 rd Floor
7	Gallery, 4 th Floor, by BITE Restaurant
8	Gallery, 4 th Floor, by BITE Restaurant
9	Torcello, 3 rd Floor
10	Venice Ballroom

6:00 – 7:00
*Living Room,
3rd Floor*

Welcoming Reception

This complimentary reception is open to all *Workshop* participants.

Thursday, May 16

6:30
Lobby Level

Morning Run/Walk through Tacoma

Join fellow *Workshop* participants for another hour of running or walking through Tacoma. Rain or shine, please meet us in the lobby!

8:00 – 12:00
Ballroom Foyer

Registration

8:30 – 9:30
Venice Ballroom

Pretreatment Issues Roundtable Discussions – Round 1

This session will provide an opportunity for *Workshop* participants to network with other pretreatment professionals and discuss issues affecting their programs. Tables will be labeled with a topic of discussion, and *Workshop* participants should sit at the table of their choice. Pretreatment issues for discussion will include the following:

- Best Management Practices & Site-Specific Limits
- Centralized Waste Treatment Facilities
- Electronic Data Management & Mobile Apps
- Emerging Contaminants: Microplastics, Nanomaterials, & More
- Local Limits Development and Enforcement
- Enforcement & Awards Programs
- Extra Strength Surcharges
- Mercury Minimization & Dental Amalgam Programs
- Pretreatment 2.0 – The Utility of the Future and the Role of the Pretreatment Program
- Microbreweries, Craft Distilleries, & Wineries
- PFAS, PFOA, PFOS, etc.
- Pharmaceuticals: Hazardous Waste Rule & Other Disposal Issues
- Pollution Prevention and Source Control
- Hauled Waste
- Pretreatment Gone to Pot: Marijuana Industry
- Fats, Oils & Greases (FOG)
- Zero Discharge & Non-Significant Categorical Industrial Users

9:30 – 9:45

Networking Break

9:45 – 9:50
Venice Ballroom

Opening Remarks

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee

9:50 – 11:15
Venice Ballroom

Money Matters: Setting Rates & Fees for Industrial Users

Setting appropriate rates for industrial users is an essential part of running a pretreatment program, but getting rates right can be tricky. These case studies will demonstrate how rates can be structured – including charges for permit issuance, monitoring, and administration – and how rate changes can be clearly communicated to businesses. The special case of brewery wastewater will also be addressed with the results of study of wastewater strength to determine how the rates should be set.

Mark Henley

Manager, Industrial Waste Program

King County Wastewater Treatment Division

Seattle, WA

Alan Aplin

Account Executive

City of Tacoma, Environmental Services Department

Tacoma, WA

11:15 – 12:00

Venice Ballroom

Bio-Cremation: RIP in the Sewer?

The use of alkaline hydrolysis, commonly known as bio-cremation, to dispose of human remains is becoming more widely accepted, with the number of states legalizing it continually increasing. It is often seen as a “green” alternative to traditional cremation, since it requires less energy and results in fewer air pollutants. However, pretreatment programs must consider potential impacts since the remaining liquid may be disposed of via the sewer system. During this session, the bio-cremation process will be explained, and the pretreatment considerations will be discussed.

Rachel Wall

Environmental Specialist

Pollution Prevention Services

City of Portland, Bureau of Environmental Services

Portland, OR

12:00 – 1:45

Lunch (on your own or optional networking lunch)

As on Wednesday, *Workshop* participants will have the option to be assigned to a small group for a networking lunch.

1:45 – 4:00

Ballroom Foyer

Registration

2:00 – 2:05

Venice Ballroom

Opening Remarks

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee

2:05 – 3:45

Venice Ballroom

Focus on FOG

Fats, oils, and greases (FOG) can wreak havoc on a sewer system despite a utility’s best efforts to keep FOG out of their system. This panel will present innovative and practical ways that utilities can improve FOG control compliance of food service establishments. The panel will also provide examples of how utilities can improve their own efficiency in this process by improving their methods of data collection and data management.

David McNeil

Founder & Chief Executive Officer

BlueBridge

Phoenix, AZ

Clayton Brown

Program Manager

Western States Alliance

Seattle, WA

Ken Loucks
Principal and Member
IW Consulting Service, LLC
Vancouver, WA

Michael O'Dwyer
Founder & Chief Executive Officer
SwiftComply
Pleasanton, CA

4:00 – 5:30
Pavilion A **Pretreatment and Pollution Prevention Committee Meeting**
All *Workshop* participants are invited to attend this meeting, whether or not they are members of the Committee.

6:00 – 7:00
Courtyard, 4th Floor **Taste of the Pacific Northwest Reception**
This complimentary reception is open to all *Workshop* participants.

Friday, May 17

6:30
Lobby Level **Morning Run through Tacoma**
Join fellow *Workshop* participants for another hour of running or walking through Tacoma. Rain or shine, please meet us in the lobby!

8:00 – 10:00
Ballroom Foyer **Registration**

8:30 – 9:30
Venice Ballroom **Pretreatment Issues Roundtable Discussions – Round 2**
Using the same format as the roundtable session on Thursday morning, this second roundtable will provide an additional opportunity for *Workshop* participants to choose a pretreatment issue to discuss with other pretreatment professionals. Tables will be labeled with a topic of discussion, and *Workshop* participants should sit at the table of their choice. Pretreatment issues for discussion will include the following:

- Best Management Practices & Site-Specific Limits
- Electronic Data Management & Mobile Apps
- Water Conservation & Reuse Challenges
- Local Limits Development and Enforcement
- Enforcement & Awards Programs
- Enforcement Response Plans
- Extra Strength Surcharges
- Microbreweries, Craft Distilleries, & Wineries
- PFAS, PFOA, PFOS, etc.
- Hauled Waste
- Pollution Prevention and Source Control
- Pretreatment Gone to Pot: Marijuana Industry
- Fats, Oils & Greases (FOG)
- Zero Discharge & Non-Significant Categorical Industrial Users

9:30 – 9:45 **Networking Break**

9:45 – 9:50
Venice Ballroom

Opening Remarks

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee

9:50 – 10:30
Venice Ballroom

Nanoparticles in Wastewater: Sources, Detection, Removal, and Implications

The applications of nanomaterials in a variety of products and processes continue to increase, which means that the amount and type of nanomaterials in wastewater is also likely to increase. Should this be a cause of concern for wastewater utilities and their pretreatment programs? What are the primary sources of nanoparticles, and how can these particles be detected and removed? These questions will be addressed by Dr. Paul Westerhoff, who has conducted extensive research on the fate of nanomaterials in water and on water treatment technologies.

Paul Westerhoff

Vice Dean for Research and Innovation

Ira A. Fulton Schools of Engineering

Arizona State University

Tempe, AZ

10:30 – 11:00
Venice Ballroom

Preventing Potential Problems from Food Waste

More municipalities and states are passing laws to keep food waste out of landfills, but this seemingly environmentally friendly requirement may cause unintentional problems for utilities with waste discharged by compost and biofuel facilities. Utilities must beware of the noxious gases and odors that can be produced as food waste breaks. Proper facility operation is critical to keep unwanted materials out of the sewer and treatment plant, including plastics, and pretreatment programs must play a prominent role in the prevention of these potential problems

Nicole Sears

Environmental Specialist

Sacramento Regional County Sanitation District

Sacramento, CA

11:00 – 11:30
Venice Ballroom

Investigating for Toxicants & Inhibitors in Wastewater

The discharge of industrial wastewaters can include elevated concentrations of toxic compounds that result in whole effluent toxicity (WET) test failures or cause interference with the biological treatment processes. Identifying the cause of the toxicity or interference has often proven to be very difficult. This presentation will use examples of toxicity identification evaluations that demonstrate the difficulties in identifying the cause of toxicity. In addition, available assessment tests, including rapid assessment tests, to investigate industrial discharges for the presence of inhibitory compounds will be discussed.

Chris Pasch

Team Leader – Water Quality/Permitting
Alan Plummer Associates, Inc.
Austin, TX

11:30 – 11:35
Venice Ballroom

Closing Remarks

Frank Dick

Chair, Pretreatment and Pollution Prevention Committee