2011 National Pretreatment and Pollution Prevention Workshop

Meeting Pretreatment Challenges, Old & New

May 18-20, 2011
St. Louis Union Station Marriott
St. Louis, Missouri

All rooms are on the First Floor Garden Section of the St. Louis Union Station Marriott unless otherwise noted.

Wednesday, May 18

Morning
8:00 – 4:00  Registration
Foyer A

9:00 – 12:15  GENERAL SESSION I
Grand Ballroom
A/B/C

GENERAL SESSION I

Opening Remarks
Theresa Pfeifer
Chair, NACWA Pretreatment and Pollution Prevention Committee
Regulatory Compliance Officer
Metro Wastewater Reclamation District
Denver, CO

Welcoming Remarks
Jeff Theerman
NACWA President
Executive Director
Metropolitan St. Louis Sewer District
St. Louis, MO

Panel Presentation –
National Pretreatment Program Update
U.S. Environmental Protection Agency (EPA) Headquarters staff will update Workshop attendees on several national issues affecting the pretreatment program. Details about EPA’s efforts to increase the education of pretreatment professionals and development of pretreatment resources will be provided.
Information will be given about monitoring and research related to contaminants of emerging concern and potential effects for publicly owned treatment works (POTWs). The impacts of POTW acceptance of hydraulic fracturing wastewater has recently received increased media attention and legal action is being taken against several POTWs, and EPA will provide the latest regulatory information related to this issue. The latest effluent guidelines plan will also be discussed.

**Moderator:**
Theresa Pfeifer  
*Chair, NACWA Pretreatment and Pollution Prevention Committee*

**Panelists:**
Marcus Zobrist  
Chief, Industrial Branch  
Water Permits Division, Office of Wastewater Management  
Office of Water  
U.S. Environmental Protection Agency  
Washington, DC

Jan Marie Pickrel  
National Pretreatment Team Coordinator  
Water Permits Division, Office of Wastewater Management  
Office of Water  
U.S. Environmental Protection Agency  
Washington, DC

Carey Johnston  
Environmental Engineer  
Engineering and Analysis Division, Office of Science and Technology  
Office of Water  
U.S. Environmental Protection Agency  
Washington, DC

10:30 – 10:45 Break

**Panel Discussion –**
Filling in the Holes of the Dental Amalgam Separator Rule  
EPA announced last year that it was beginning an effluent guideline rulemaking to reduce mercury discharges from dental facilities, the main source of mercury entering POTWs. EPA is focusing its technology assessment on amalgam separators, and the rule will likely establish requirements for amalgam separator installation at dental facilities as pretreatment standards. With approximately 120,000 dental offices across the country, the potential burden on POTWs and states for enforcing these standards is huge. Panelists will discuss these burdens and potential ways to reduce them, such as the use of best management practices rather than numeric limits and the use of the non-
significant categorical industrial user provision of the Pretreatment Streamlining Rule.

Moderator/Speaker:
Martie Groome  
Vice Chair, NACWA Pretreatment and Pollution Prevention Committee  
Laboratory and Industrial Waste Supervisor  
City of Greensboro Water Resources Department  
Greensboro, NC

Panelists:
Justin Pimpare  
Pretreatment Coordinator  
U.S. Environmental Protection Agency, Region 1  
Boston, MA

Jeff Troupe  
Legislative Liaison  
American Dental Association  
Chicago, IL

Al Garcia  
Pretreatment Coordinator  
U.S. Environmental Protection Agency, Region 8  
Denver, CO

Kerry Britt  
Pretreatment Manager  
Narragansett Bay Commission  
Providence, RI

Afternoon
12:15 – 1:15  Lunch (on your own)

1:30 – 3:00  GENERAL SESSION I (continued)

Grand Ballroom
A/B/C

Opening Remarks
Martie Groome  
Vice Chair, NACWA Pretreatment and Pollution Prevention Committee

Panel Discussion –
To Flush or Not to Flush: The Question of Unused Pharmaceutical Disposal
Concerns about pharmaceuticals in the nation’s waters continue to be raised, and programs encouraging the safe disposal of unused pharmaceuticals are receiving national attention as a method of reducing pharmaceuticals in the environment and protecting human health. This panel will include a presentation by EPA on its Best Management Practices for Unused Pharmaceuticals at Health Care Facilities, developed as a result of its detailed study of the health services industry for the Effluent Guidelines Program. Panelists will also
discuss the Secure and Responsible Drug Disposal Act of 2010 that may make drug take-back programs more common by easing restrictions in the Controlled Substances Act, and the Product Stewardship Institute’s project – supported in part by NACWA – to establish recommendations for the safe disposal of pharmaceuticals.

**Moderator:**
James Baginski  
Regulatory Control Branch Head  
City & County of Honolulu  
Department of Environmental Services  
Kapolei, HI

**Panelists:**
Scott Collier  
Diversion Program Manager  
Office of Diversion Control, St. Louis Division  
U.S. Department of Justice  
St. Louis, MO

Dave Galvin  
Hazardous Waste Program Manager  
King County Department of Natural Resources and Parks  
Seattle, WA

Amy Tiemeier  
Associate Director of Experiential Education  
Assistant Professor of Pharmacy Practice  
St. Louis College of Pharmacy  
St. Louis, MO

Carey Johnston  
U.S. Environmental Protection Agency

**Announcements**
Martie Groome  
Vice Chair, NACWA Pretreatment and Pollution Prevention Committee

**3:00 – 5:00**
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 will be on hand to take your questions.

**NOTE:** Breakout room assignments for specific region discussions will be announced before the session.
Region 1
Justin Pimpare
U.S. Environmental Protection Agency, Region 1

Kerry Britt
Narragansett Bay Commission

Region 2
Virginia Wong
Pretreatment Coordinator
U.S. Environmental Protection Agency, Region 2
New York, NY

Christine Gasparine
Industrial Pretreatment Operations Manager
Hanover Sewerage Authority
Whippany, NJ

Region 3
Ron Johnson
Chief of Pretreatment & Pollution Prevention
Hampton Roads Sanitation District
Virginia Beach, VA

Region 4
Jon van Hoff
Industrial Pretreatment Coordinator
Metropolitan Sewerage District of Buncombe County
Asheville, NC

Region 5
Ash Sajjad
Pretreatment Coordinator
U.S. Environmental Protection Agency, Region 5
Chicago, IL

Ralph Erickson
Pretreatment Coordinator
Madison Metropolitan Sewerage District
Madison, WI

Regions 6 and 7
Paul Marshall
Pretreatment Coordinator
U.S. Environmental Protection Agency, Region 7
Kansas City, KS

Doug Mendoza
Metropolitan St. Louis Sewer District
Industrial Pretreatment Manager
St. Louis, MO
Region 8
Al Garcia
U.S. Environmental Protection Agency, Region 8

Theresa Pfeifer
Chair, NACWA Pretreatment and Pollution Prevention Committee

Region 9
Paul Schmidtbauer
Industrial Waste Administrator
South Orange County Wastewater Authority
Dana Point, CA

Region 10
Clayton Brown
Source Control Manager
Clean Water Services
Hillsboro, OR

Evening
6:00 – 7:00  Reception
Grand Hall
Head House
Conference Center

Thursday, May 19
Morning
8:00 – 4:00  Registration
Foyer C

9:00 – 12:00  GENERAL SESSION II
Grand Ballroom
A/B/C

Opening Remarks
Theresa Pfeifer
Chair, NACWA Pretreatment and Pollution Prevention Committee

Featured Speaker
This BERS for You: Bio-Energy Recovery System at Anheuser-Busch Breweries
Anheuser-Busch InBev breweries use a bio-energy recovery system (BERS) to treat their waste, lowering biological oxygen demand and recovering methane for fuel. Use of the BERS system has resulted in positive environmental impacts and cost savings for the breweries. Anheuser-Busch InBev will discuss how their system works and its benefits, and the challenges faced with retrofitting existing breweries to use BERS.
Panel Presentation –
The Growing Utility Appetite for Food Waste
With over 30 million tons of food waste sent to landfills each year, POTWs are discovering how to turn this abundant waste into an important resource by using it in specific parts of the wastewater treatment process. Panelists will provide case studies on how utilities can use food waste in anaerobic digestion to increase methane production, including an innovative program at the East Bay Municipal Utility District that uses post-consumer food waste.

Moderator:
Clayton Brown
Clean Water Services

Panelists:
Andy Bohner
Project Manager
HDR HydroQual
Mawah, NJ

Michael Keleman
Environmental Engineer
InSinkErator
Racine, WI

Sophia Skoda
Program Manager
East Bay Municipal Utility District
Oakland, CA

10:45 – 11:00  Break

11:00 – 12:00  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 and potential solutions.

NOTE: Breakout room assignments for specific issue discussions will be announced before the session.

Afternoon
12:00 – 1:15  Lunch (on your own)
GENERAL SESSION II (continued)

Grand Ballroom
A/B/C

Opening Remarks
Martie Groome  
Vice Chair, NACWA Pretreatment and Pollution Prevention Committee

Panel Presentation –
Do the Little Things in Wastewater Mean a Lot?
The Latest in Contaminant Research
Research into emerging contaminants is increasing our understanding of the environmental impacts of these chemicals and their impacts on the wastewater treatment process. Recent research has shown that silver nanoparticles, which are used in consumer products as an antimicrobial, can impact the bacteria used in wastewater treatment. Another popular antimicrobial, triclosan, is frequently found in soaps and detergents – and in biosolids. Presenters will discuss the latest research into these two antimicrobials, as well as the results of extensive effluent sampling in Oregon for “priority persistent pollutants.”

Moderator/Presenter:
Curtis Barton  
Source Control Coordinator  
Water Environment Services of Clackamas  
Oregon City, OR

Panelists:
Zhiqiang “Zack” Hu  
Assistant Professor  
Civil and Environmental Engineering  
University of Missouri-Columbia  
Columbia, MO

Rolf Halden  
Associate Professor  
School of Sustainable Engineering and the Built Environment  
Arizona State University  
Tempe, AZ

Announcements
Martie Groome  
Vice Chair, NACWA Pretreatment and Pollution Prevention Committee

2:45 – 3:00  Break

3:00 – 4:00  Pretreatment Issues Roundtable Discussions – Round 2
This session will provide an opportunity for Workshop participants to network with other pretreatment professionals and discuss issues affecting their programs and potential solutions.
NOTE: Breakout room assignments for specific issue discussions will be announced before the session.

4:15 – 5:45  
NACWA Pretreatment and Pollution Prevention Committee Meeting  
Frisco/Burlington  
Head House  
Conference Center

Evening  
6:00 – 7:00  
Reception  
Midway Atrium  
Head House  
Conference Center

Friday, May 20  
Morning  
8:00 – 10:00  
Registration  
Foyer A  
9:00 – 11:15  
GENERAL SESSION III  
Grand Ballroom A/B/C  
Opening Remarks  
Theresa Pfeifer  
Chair, NACWA Pretreatment and Pollution Prevention Committee

Featured Speaker –  
Regional Mercury Reduction – A Case Study of the San Francisco Bay Area  
The San Francisco Bay Area has a regional mercury TMDL and watershed permit for its 39 municipal wastewater dischargers. Under this shared permit, the region-wide effort to reduce mercury discharges are evaluated by the percent of dental offices that participate in their local source control program and the estimated discharges of mercury that these source control programs prevent. Stephanie Hughes will present the single regional method to respond to these quantitative requirements, including a survey of discharges and systematic mass balance.

Stephanie Hughes  
Consulting Engineer  
Lecturer, Santa Clara University  
Santa Clara, CA

Tim Potter  
Environmental Compliance Superintendent  
Central Contra Costa Sanitary District  
Martinez, CA
**Featured Speaker –**

Investing in FOG Futures: Trends in Regulation and Treatment

Because fats, oils, and greases (FOG) can be a major cause of combined and sanitary sewer overflows, the stakes are high for utilities to minimize the discharge of FOG into the sewer system. Establishing an effective FOG program can be a challenge, due in part to the many entities involved with FOG-related issues, including plumbing fixture specifications, health departments, restaurants, and equipment vendors. Wayne Ludwig will present the latest progress in FOG programs, including standard grease abatement device (GAD) nomenclature, GAD performance levels, effects of small dairy-based food service establishments, partnering with school systems, and the potential benefits from a regionalized approach to FOG management that crosses jurisdictional boundaries – the “FOG Alliance.”

Wayne Ludwig
FOG Unit Coordinator
Regulatory Services Group
Washington Suburban Sanitary Commission
Laurel, MD

**Panel Presentation –**

Pretreatment Investigations: Gathering Info and Making a Case

Pretreatment professionals are sometimes called upon to solve wastewater mysteries and determine the source of a problem. Case studies will be presented that show how an investigation can be conducted and a problem solved through careful analysis of the problem, proper sampling and testing, and creative thinking.

**Moderator:**

Anne Zulka
Pretreatment Compliance Specialist
Special Services Division
Austin Water Utility
Austin, TX

**Panelists:**

Tim Potter
Central Contra Costa Sanitary District

Alan Aplin
Senior Environmental Specialist
City of Tacoma Public Works Department
Tacoma, WA

**Closing Remarks**

Theresa Pfeifer
Chair, NACWA Pretreatment and Pollution Prevention Committee