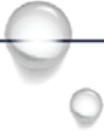


# WEFTEC 2023 Technical Sessions

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## **MONDAY, OCTOBER 2, 2023 | 1:30 PM**

### **Biosolids & Residuals Management/Energy**

Understanding and Addressing PFAS in Biosolids  
Advances in Anaerobic Digestion and Side-  
stream Treatment

### **Collection Systems & Distribution**

The Ultimate Collection Systems Basics Trivia  
Challenge 2.0

### **Disinfection & Public Health**

What's Next for Wastewater Surveillance?

### **Facility Operations & Maintenance**

Biomass Fermentation for Carbon Efficient  
Biological Phosphorus Removal

### **Future Issues & Global Insights**

Global Approaches to Tackling Fugitive Methane  
Emissions

Aquanomics: Future Economics of Water Risk and  
Energy Food Nexus

### **Industrial Issues & Treatment Technologies**

Industrial Pretreatment Trends  
Food and Beverage: Upgrades and  
Troubleshooting

### **Municipal Wastewater Treatment Process & Design**

Sweat Your Assets Off: BNR Optimization  
Primary Treatment Technologies: Should We Settle  
for Conventional Primary Sedimentation?

### **Research & Innovation**

WEF/AEESP Master Lecture: Belinda Sturm

### **Stormwater Management**

Latest in Stormwater Trends

### **Utility Management & Leadership**

Water Policy Update  
Asset Management Journeys: A Tale of Three  
Utilities  
Optimizing Energy Investments Part I: Energy  
Master Planning

### **Water Reuse & Reclamation**

The Water Reuse Landscape Through the Eyes of  
Industry Leaders

### **Watershed Resources**

### **Management & Sustainability**

Nutrient Management: Growing Water Quality

**MONDAY, OCTOBER 2, 2023 | 3:30 PM**

## Biosolids & Residuals

### Management/Energy

Full-scale Thermal Drying System Implementation

## Collection Systems & Distribution

Technology Driven Optimization of Collection Systems

## Disinfection & Public Health

Advancements and Optimization with Chlorine, Peracetic Acid, and Performic Acid Disinfection  
Wastewater Surveillance: How Does the Sewer Impact the Data?

## Facility Operations & Maintenance

Managing the Third Effluent Part I  
Extracting Carbon for Nutrient Removal

## Future Issues & Global Insights

Decarbonization Case Studies

## Industrial Issues & Treatment

### Technologies

Water Reuse & Resource Recovery: Brines, Trains, and (EV) Automobiles

## Municipal Wastewater Treatment

### Process & Design

Alternative Approaches to Intensify Secondary Treatment  
Thinking Outside the Basin: Auxiliary Wet Weather Treatment

## Research & Innovation

Improving Biosolids Treatment Efficiency

## Stormwater Management

Understanding the Basics of Stormwater Design  
Creative Stormwater Program Management  
Resources: Finance, O&M, and Asset Management

## Utility Management & Leadership

Optimizing Energy Investments Part II: Energy Use is in the Details  
Equitable Service Delivery Approaches and Community Bridging

## Water Reuse & Reclamation

Ozonation: Water Reuse on a New Level

## Watershed Resources

### Management & Sustainability

I Plan, You Plan, We All Plan for Integrated Plans



**TUESDAY, OCTOBER 3, 2023 | 8:30 AM**

## **Biosolids & Residuals**

### **Management/Energy**

Translating Bench-scale to Full-scale Operations:  
Is Food Waste Co-digestion Right for You?

## **Collection Systems & Distribution**

Innovative Project Delivery Methods

## **Disinfection & Public Health**

Pathogens and Indicator Update for 2023

## **Facility Operations & Maintenance**

The BNR Instrumentation and Controls Selection  
Adventure  
Side-stream Nitrogen Removal: From Established  
to NextGen

## **Future Issues & Global Insights**

Environmental Social Justice: Enduring Issues After  
the Spotlight Fades

## **Industrial Issues & Treatment**

### **Technologies**

Operation and Trouble Shooting of Flotation  
Technologies in Petroleum Refinery Wastewater  
Treatment

## **Municipal Wastewater Treatment**

### **Process & Design**

The Big Bad Blower: Huffing and Puffing Air  
Through Your Aeration Basins  
Low Carbon BNR Fundamentals and Controls

## **Research & Innovation**

Updates on Microplastic Occurrence, Regulation,  
and Removal

## **Stormwater Management**

Flood Modeling Case Studies

## **Utility Management & Leadership**

Unprecedented Weather Events: Planning for  
Organizational and Operational Resiliency  
A National Bioresources Strategy for England  
Capital Project Management in Today's  
Challenging Times  
Managing the Modern Media Mix to Keep Your  
Community Engaged

## **Water Reuse & Reclamation**

Water Reuse Regulations Across the States

## **Watershed Resources**

### **Management & Sustainability**

Roadmap: Integrated Planning from Municipal  
and Stormwater



**TUESDAY, OCTOBER 3, 2023 | 1:30 PM**

## **Biosolids & Residuals Management/Energy**

Behavior of Emerging Contaminants in Thermal Treatment Processes

## **Collection Systems & Distribution**

Pump Stations: Lessons Learned

## **Disinfection & Public Health**

Disinfection in the 2020s

## **Facility Operations & Maintenance**

Lessons Learned from Early PdNA Implementation  
Applications of Machine Learning in Full-scale Nutrient Management Part I

## **Future Issues & Global Insights**

Indigenous Environmental Practices: Lessons from the Past

## **Industrial Issues & Treatment Technologies**

Microelectronics Industry: Challenges and Solutions  
The Future of Datacenters: From Water Users to Water Stewards

## **Municipal Wastewater Treatment Process & Design**

Advancing Low-energy Biological Nitrogen and Phosphorus Removal Through Low DO Operation  
Connecting Molecular Biology and Sensors to EBPR Performance

## **Research & Innovation**

Making Forever Chemicals Gone Forever

## **Stormwater Management**

Stormwater Design Case Studies

## **Utility Management & Leadership**

Utility Leaders Afternoon & Utility of the Future  
Today Awards  
Small Communities Utilize Decentralization Effectively  
Stories of Digital Transformation: It's Not About the Journey but the Destination  
Recognize the DRIFT in Asset Management Implementation

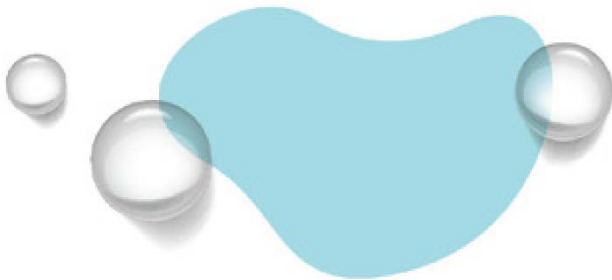
## **Water Reuse & Reclamation**

Reconsidering Biological Treatment for Water Purification: Reuse-nutrient Removal-nexus Part I

## **Watershed Resources**

## **Management & Sustainability**

Long-term Control Planning and Consent Decree Orders



**TUESDAY, OCTOBER 3, 2023 | 3:30 PM**

## **Biosolids & Residuals Management/Energy**

Creating Renewable Revenue Streams with RNG

## **Collection Systems & Distribution**

Perspectives on Inflow and Infiltration Reduction  
Cost Effectiveness

## **Disinfection & Public Health**

PFAS Impacted WRFs: Knowledge Update  
Novel Applications of QMRA for Sizing Wastewater  
UV Systems and Identifying Shellfish Harvesting  
Zones

## **Facility Operations & Maintenance**

Case Studies of Machine Learning in Full-scale  
Nutrient Management Part II

## **Future Issues & Global Insights**

From Global Best Science to Mitigation of Nitrous  
Oxide

## **Industrial Issues & Treatment Technologies**

The A to Z's of Refinery Wastewater Treatment  
Membrane Filtration and Zero Liquid Discharge  
(ZLD) Wastewater Treatment System

## **Municipal Wastewater Treatment Process & Design**

Design Tools for Preliminary and Primary  
Treatment

## **Research & Innovation**

Full-scale Continuous Flow Densification Systems

## **Stormwater Management**

Stormwater Capture and Release: Emerging  
Regulatory Paradigms  
Predicting Flooding Before It Happens

## **Utility Management & Leadership**

Communications Plans and Actions: Septics,  
Source Control, and Stakeholders  
Small Community Applications of Decentralization  
and Associated Management Approaches  
Utility Leaders Roundtable

## **Water Reuse & Reclamation**

Refining Wastewater Effluent for Purification:  
Reuse-nutrient Removal-nexus Part II

## **Watershed Resources**

## **Management & Sustainability**

Better Outcomes with CSO Administrative Orders  
and Consent Degrees



**WEDNESDAY, OCTOBER 4, 2023 | 8:30 AM**

## **Biosolids & Residuals Management/Energy**

Intensifying and Optimizing Anaerobic Digestion

## **Collection Systems & Distribution**

Balancing Costs vs. Cleaning: Effective  
Programmatic Sewer Cleaning Approaches  
Design and Construction Challenges for CSO  
Control Implementation

## **Disinfection & Public Health**

UV Disinfection: Where are we? Where are we  
going?

## **Facility Operations & Maintenance**

PdNA Whole Plant Considerations

## **Future Issues & Global Insights**

Intentional Integration of Social Equity into  
Climate Planning

## **Industrial Issues & Treatment Technologies**

Approaches to PFAS Destruction and Centralized  
Treatment  
Food and Aquaculture Wastewater Treatment

## **Municipal Wastewater Treatment Process & Design**

Chemical Phosphorus Removal  
Re-direct Carbon for Better Use

## **Stormwater Management**

Urban Stormwater Controls Operation and  
Maintenance

## **Utility Management & Leadership**

MERC/MARC: Equipment Procurement Practices

Qualifications-based Selection: Get What You  
Need, Show What You've Got

Emerging AI Technologies and Ways of Working to  
Optimize Water

## **Water Reuse & Reclamation**

Water Reuse: Challenges and Opportunities

## **Watershed Resources**

## **Management & Sustainability**

Let Me Know About BMPs





**WEDNESDAY, OCTOBER 4, 2023 | 10:30 AM**

## **Biosolids & Residuals**

### **Management/Energy**

Making Money from Biogas: RNG to RINs

## **Collection Systems & Distribution**

Public and Private Rehabilitation Strategies for I/I Reduction

BAP Tunnels and Interceptors

## **Disinfection & Public Health**

Microplastics Interaction with Pathogens and Other Microconstituents

## **Facility Operations & Maintenance**

Unlocking Hydrolysis and Internally Stored Carbon Utilization for Nitrogen Removal

## **Future Issues & Global Insights**

Building a Hydrogen Future



## **Industrial Issues & Treatment**

### **Technologies**

Using Modeling to Improve Industrial Wastewater Treatment

Advancements in Anaerobic Treatment of Industrial Wastewater

## **Municipal Wastewater Treatment**

### **Process & Design**

Secondary Clarification Advancements

Healthy as a Horse: Assessing Bio-P Stability

## **Research & Innovation**

Pushing the Boundaries of Our Biological Models

## **Stormwater Management**

Leveraging Stormwater Infrastructure to Build Better Community

## **Utility Management & Leadership**

Solving Customer Affordability Concerns with Innovative Rate Structures

Project Delivery Challenges: Continued Operations and Commissioning

Strategies for Transformational Change, Innovation, and Operational Efficiency

## **Water Reuse & Reclamation**

Water Reuse: Plan It Properly

## **Watershed Resources**

### **Management & Sustainability**

Nutrient Reduction Planning and Implementation Roadblocks

**WEDNESDAY, OCTOBER 4, 2023 | 1:30 PM**

## Biosolids & Residuals

### Management/Energy

Upgrading and Optimizing Thickening and Dewatering

## Collection Systems & Distribution

Conveyance Modeling

## Facility Operations & Maintenance

Managing the Third Effluent Part II

Advances in Preventative Maintenance

## Future Issues & Global Insights

Building Your Diversity, Equity, and Inclusion

Toolkit: WEF DEI Board Committee

## Industrial Issues & Treatment

### Technologies

Energy Efficiency and Recovery in Industrial

Anaerobic Treatment

## Municipal Wastewater Treatment

### Process & Design

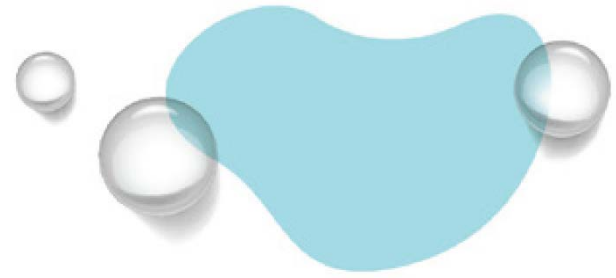
Conversion of Conventional Activated Sludge to

Suboxic (Low DO) Nutrient Removal

Applying Hydrocyclones for Densification

Planning and Process Improvement Case Studies:

Winning with Twinning



## Research & Innovation

Removing Emerging Contaminants: Beyond PFAS

## Stormwater Management

Creating Resilience with Stormwater Projects

## Utility Management & Leadership

Collection System Predictive Analysis

Cybersecurity

## Water Reuse & Reclamation

Advancing Desalination and Treatment of Non-traditional Source Waters

## Watershed Resources

### Management & Sustainability

From Fish Passages Design to Ocean Discharges:

Going Coastal



*Information as of June 7, 2023*