WEFTEC CONNECT
MONDAY, OCTOBER 5 - FRIDAY, OCTOBER 9

INSPIRED CONNECTIONS
WEFTEC Connect is a little over a month away. Every year this conference allows us to learn, connect with friends across the globe and have a little fun. This October things will be different as we gather virtually, but that doesn’t mean our connections won’t be inspired.

This conference means more than the trying times we face today. We know that this year is having a major impact on our industry, and we’re honored to share stories of challenges and perseverance at WEFTEC.

Take a look at our speaker lineup. We look forward to connecting with you to hear your stories and learn how we can support your needs. Let’s make the most of WEFTEC and accomplish great things through inspired connections.
10+ Pump Vibration Issues Examined Along with Their Solutions  
Category: Managing Equipment and Facilities  
Author: John Koch

Anne Arundel County’s Integrated Management Approach to Long-Term TMDL Compliance  
Category: Integrated Planning: One Water, Many Solutions  
Author: Ed Shea

“It’s important for our community to continue sharing the important progress being made to clean our water. I look forward to sharing the latest from Anne Arundel County, Maryland, on their innovative efforts to sustainably meet Chesapeake Bay TMDLs through an Integrated Planning approach. Keep safe, everyone!”

Applied Fundamentals: Emerging Technologies  
Category: Strategies to Optimize WRRFs for Nutrient Removal  
Authors: Bryce Figdore, Eric Evans

Brewing up Innovative Solutions for Optimizing Total Nitrogen Removal in a Biological Nutrient Removal Facility  
Category: Interactive Knowledge Exchange  
Authors: Coralyn Revis, Bill Buxton

The City of Boise’s Digestion and Dewatering Project: Making the Most Out of Your Existing Assets, How to Maximize Your Existing Digestion, and Dewatering Facilities and Eliminate the Need to Build New Infrastructure  
Category: Vertical Asset Management: Big to Small  
Author: Jim Wodrich

“The City of Boise took a hard look at the question “Do we build new infrastructure that ties up CAPEX and OPEX dollars for many years to come or can we assess the condition of the existing assets and enhance the existing systems to still meet our goals?” I look forward to participating in the new web-based format and hope to be seeing more presentations than I was able to at previous WEFTEC events.”

Category: Strategies to Optimize WRRFs for Nutrient Removal  
Author: Bryce Figdore

City of Omaha Papillion Creek Water Resource Recovery Facility: Emergency Restoration After Inundation of Floodwaters  
Category: Major Flood Event Challenges: Self-Help Plus FEMA Funding Responses  
Author: Ronald Sova

WEFTEC Connect will offer recorded technical presentations virtually for the upcoming year.
Comparison of Struvite and Brushite Recovery: Model Based Technical and Economic Evaluation and Sensitivity Analysis
Category: Sidestream Phosphorus Removal and Recovery Operation
Author: Sara Arabi

“My first talk will be discussing how incorporating sulfur and relevant reactions into a general plantwide models has recently become possible. This has enabled modelers to simulate sulfur-rich wastewaters such as flue gas desulfurization and vegetable oil wastewater.”

Condition Assessment for Operators and Maintenance Personnel: Level 1 and 2 Made Easy
Category: Vertical Asset Management: Big to Small
Author: John Koch

“A Fresh Look at Recycle Pumping Using Optimized Hydraulics, CFD and Physical Modeling
Category: Applying CFD from Primary Treatment through Disinfection
Author: Chris Painter

Impact of Water Conservation on Utilities
Category: Earth, Wind, and Fire: Natural Disasters Other Than Flooding
Author: Mario Benisch

In Pursuit of Lifecycle Cost Greatness: Using Reliability Best Practices to Inform Asset Management Decisions
Category: Capital Planning Within Asset Management
Author: Steven Rogowski

“WEFTEC Connect is such an important venue for folks in our industry to share information and I’m glad the organization found a way to keep it going through these unique times. It’s going to be different, but people will have good opportunities to compare notes and learn from the experiences of others. Asset management is going to be a really important topic for utilities going forward as a way to manage life-cycle costs and ensure they are providing value for ratepayers. I’ll be presenting on how process reliability metrics can be used to provide performance and cost information to support asset management decision-making.”

Johnson County Wastewater (JCW) Integrated Management Plan: Shaping JCW’s Services for Decades to Come
Category: Finance Nightmares: Utility Rates and Finance Topics
Author: Trent Stober

Nutrient Permitting in Newport Bay Using a Simplified Modeling Approach
Category: Resiliency Runway: New Trends in Modeling
Author: Andy Thuman

“This year I will be presenting on a simplified modeling and data-based approach for evaluating nutrient impacts in Newport Bay, CA. And, I look forward to learning about other interesting projects from around the country to bring back to my everyday work life.”

Optimization Strategies: BOD to N-removal - OCSD Case Study
Category: Strategies to Optimize WRRFs for Nutrient Removal
Author: JB Neethling

Optimization Strategies: BOD to P (Des Moines Case Study)
Category: Strategies to Optimize WRRFs for Nutrient Removal
Author: Eric Evans

Optimization Strategies: Optimization Approach - Decision Tree
Category: Strategies to Optimize WRRFs for Nutrient Removal
Author: Michael Falk

Overview: Introduction and WRF Project Overview
Category: Strategies to Optimize WRRFs for Nutrient Removal
Author: JB Neethling

Process Modeling and Evaluation for Anaerobic Treatment of Vegetable Oil Refining Wastewater with High Sulfate Concentrations
Category: Application of Innovative Process Technologies in the Food and Beverage Industry
Author: Sara Arabi

“For my second presentation, I will be discussing how in the past, predicting phosphorus (P) recovery product yield relied on pilot testing and empirical analysis. Recent advances in simulators better account for biomass impacts on chemistry, kinetic limitations, and surface chemistry.”
A Tale of Two Pilots: Comparing a WAS-only Thermal Hydrolysis Process to Conventional THP  
Category: Implementing Thermal Hydrolysis: Optimizing the Operations Around Advanced Digestion  
Author: Sebastian Smoot  
“WEFTEC Connect is extremely useful to me to learn new ways of solving wastewater challenges. I leave every conference with a new idea that had never crossed my mind and transformed my way of thinking. This year, I will be presenting the results of a study that compares the performance of a conventional thermal hydrolysis process (THP) to WAS-only THP. There are less than ten WAS-only THP facilities in the world today, but that number may grow as more wastewater professionals learn about the potential benefits of this relatively new approach.”

Tertiary Membrane Filtration: A How-To Guide on Operation and Expansion from Coeur d’Alene, Idaho  
Category: Effluent Polishing in the Real World  
Author: Rickey Schultz  
“I will co-present with our Coeur d’Alene, ID client on the operation and expansion of their Tertiary Membrane Filtration Facility. HDR has worked with the city on complex wastewater treatment challenges for several decades. I’m excited to share some of the knowledge we’ve gained over the years. I’m also looking forward to hearing about some of the interesting activities and technologies surrounding wastewater from across the nation. To me, WEF is an organization that provides endless opportunities for learning. WEFTEC Connect is the pinnacle event of those opportunities.”

Using Advanced Control Logic to Achieve System Efficiency for a 100 MGD Pump Station  
Category: Process Control and Automation  
Author: Jason Kerns

Wastewater Plant Condition Assessment: Methods and Results  
Category: Vertical Asset Management: Big to Small  
Author: Cristina Piekarz  
“Be sure to catch our presentation on the condition assessment of their facility. I’m looking forward to sharing the methods and results of our work together, and also learning from others on ways to solve challenging water and wastewater treatment problems.”

Water Research Foundation’s (4973) Guidelines for Optimizing Nutrient Removal Plant Performance  
The goal of this project is to develop an approach to optimizing existing plants for nutrient removal, utilize full scale examples of how it is done, and to produce a guide on how to do it. These following WEFTEC Connect sessions will present some strategies, case studies, and guidance on nutrient optimization.  
- Applied Fundamentals: Emerging Technologies  
- Optimization Strategies: BOD to N-removal - OCSD Case Study  
- Optimization Strategies: BOD to P (Des Moines Case Study)  
- Optimization Strategies: Optimization Approach - Decision Tree  
- Overview: Introduction and WRF Project Overview
SESSION MODERATORS

Category: Implementing Thermal Hydrolysis: Optimizing the Operations Around Advanced Digestion
Moderator: Stephanie Spalding

Category: Strategies to Optimize WRRFs for Nutrient Removal
Moderator: JB Neethling; Assistant Moderator: Eric Evans

Category: Understanding and Responding to Changing Precipitation Patterns: Forecasting and Modeling
Moderator: Nitin Katiyar

Granular Developments: Advancements in Aerobic Granular Sludge Formation
Assistant Moderator: Mario Benisch