

- This interactive workshop will provide wastewater professionals with an overview of the capabilities, limitations, and data needs of available whole-WWTP models and CFD models and the linking between these tools.
- Participants will learn how to set up a CFD model of a clarifier and how to utilize the output, along with field data, to run a desktop dynamic analysis for a whole plant simulation.

R. Latimer, A. Griborio - Co-Chairs

## Presentation

## Presented by

## Session / Time

Presentation	Presented by	Session / Time
<b>Increasing Reuse Supplies by Blending Nanofiltration Concentrate with Treated Effluent</b>	D. Burden, E. Stanley, D.A. Arrington	Session 11 Monday, October 04, 10:30 am
<b>Combining Stress Testing and Dynamic Linking of Whole Plant Simulators and CFD for the Evaluation of WWTP Wet Weather Capacity</b>	A. Griborio, J. Rohrbacher, M. McGehee, P. Pitt, R. Latimer, J. Gellner	Session 3 Monday, October 04, 11:00 am
<b>Integrated Approach to Biosolids Management for a Utility with Multiple Small Facilities</b>	J. Edeback, D. Schmidt, G. Fries, J. Rohrich, B. Stayer, J. Hopp, R. Beltran	Alternate Session 25 Monday, October 04, 1:30 pm
<b>Precipitation, Adsorption, and Inhibitory Effects of Nano Copper in Activated Sludge</b>	J. Smeraldi, G. Rajagopalan, W.J. Cooper, T. Hosseini, D. Rosso	Session 20 Monday, October 04, 2:00 pm
<b>Investigating the Processes Governing Hormone and Nonionic Surfactant Removal and Transport in On-Site Wastewater Treatment and Reuse</b>	B. Stanford, H. Weinberg	Session 17 Monday, October 04, 2:15 pm
<b>Effect of Solids Retention Time in Full-Scale Activated Sludge Basins on Trace Organic Contaminant Concentrations</b>	D. Gerrity, B. Stanford, S. Snyder, L. Risso, B. Shepherd, D. Drury	Session 17 Monday, October 04, 2:30 pm
<b>Formation of Disinfection Byproducts by Chlorination of Secondary Wastewater Effluent and Their Removal With Water Reuse Technologies</b>	R. Harris, E. Castilla-Rodriguez, J. Page, A. Yu, B. Chalmers, J. Ferguson, P. Vinci	Session 30 Monday, October 04, 2:30 pm
<b>Deploying Alternative Supplemental Carbon for Denitrification at Full Scale: Glycerol from Biodiesel Production</b>	D. Katehis, R. Sharp, A. Deur, P. Young, V. Rubino, K. Beckmann	Alternate Session 40 Tuesday, October 05, 8:30 am
<b>New Wastewater Disposal Rules Aimed at Protecting the Environment Could Have Drastic Climate Change Impacts</b>	E. Vadiveloo, G. Brown, G. Bors, J. Wietgreffe, V. Morello	Alternate Session 75 Tuesday, October 05, 1:30 pm
<b>Kinetic Evaluation and Model Simulation of Temperature Impact on Biofilm Growth and Nitrification in a Full-Scale MBBR System</b>	C. Bjornberg, W. Lin, R. Zimmerman	Session 61 Tuesday, October 05, 1:30 pm
<b>Effect of COD Loading, Temperature, and Dissolved Oxygen Concentration on IFAS Nitrification Performance</b>	S. Scuras, J. Gellner, D. Howard, J. Beck, M. McGehee, C. White	Alternate Session 61 Tuesday, October 05, 1:30 pm
<b>Dynamic Energy and Carbon Footprint Analysis of Fine-Pore Aeration Systems</b>	L.M. Jiang, D. Rosso	Poster Session 57 Tuesday, October 05, 1:30 pm
<b>FOG - Figuring Out Good Solutions to Fats, Oils, and Grease in Advanced Wastewater Treatment Systems</b>	P. Vinci, J. Page, E. Castilla-Rodriguez, J. Ferguson, B. Chalmers	Alternate Session 62 Tuesday, October 05, 1:30 pm
<b>A 20-mgd BNR Demonstration Program: A First Step to Comply With Florida 2008 Ocean Outfalls Elimination Rule</b>	A. Griborio, R. Harris, P. Vinci, P. Davis, P. Pitt, R. Aliseo, A. Garcia	Session 63 Tuesday, October 05, 2:00 pm
<b>Evaluation of Nitrification Kinetics and Biological Phosphorus Removal Using Batch Rate Testing, Profile Sampling, and Simulation Modeling</b>	P.Yi, C. Bott, B. Balzer, K. Bilyk, A. Stone	Alternate Session 84 Wednesday, October 06, 8:30 am
<b>Managing Innovation: Optimizing Resource Allocation Using New York City's Innovative Technology Prioritization Tool</b>	V. Rubino, D. Katehis, R. Sharp, S. Dailey, G. Daigger, P. Young, A. Deur, K. Beckmann	Session 91 Wednesday, October 06, 9:00 am
<b>Low Cost Solutions that Combine Process Modeling, Optimization, and Pilot Testing to Comply with LOT Nitrogen and Phosphorus Standards at Two BNR Plants</b>	K. Bilyk, R. Taylor, P. Pitt, R. Latimer, C. White, L. Teuber, B. Dodson, J. Dodson	Session 84 Wednesday, October 06, 10:30 am
<b>Beyond Improvement or Hot Air? Comparison of High-Speed Single-Stage Blowers to Conventional Technologies</b>	J. Rohrbacher, A. Farina, J. Gellner, J. Cramer	Session 96 Wednesday, October 06, 11:00 am
<b>Do Sweat the Small Stuff: Microconstituent Impacts On Beneficial Digester Gas Utilization</b>	C.M. Bullard, M.A. Fishman, B.R. Lisk, S.A. Hardy	Poster Session 103 Wednesday, October 06, 1:30 pm
<b>Challenges of Developing and Implementing an Interbasin Transfer Management Strategy for Greenville Utilities Commission, North Carolina</b>	M. Sadler, D. Briley, S. Porter	Session 111 Wednesday, October 06, 2:00 pm