



WEF/IWA
**Innovations in
 Process Engineering
 Conference**



June 6 - 9, 2023 | Hyatt Regency Portland, Portland, OR

TIME	TOPIC	HAZEN CONTACT
Tuesday, June 6th		
11:15 a.m.	Application of Partial Nitrification- Denitrification-Anaerobic Ammonia Oxidation for Nitrogen Removal in Tertiary MBBR	Greg Pace
Wednesday, June 7th		
10:50 a.m.	Evaluating the Sensitivity of Secondary Treatment Infrastructure Requirements Utilizing BioWin: Wet and Dry Weather Infrastructure Needs	Katya Bilyk
10:50 a.m.	Full-scale Mainstream Deammonification via Partial Nitrification Denitrification-Anammox	Greg Pace
11:20 a.m.	Leveraging Densified Activated Sludge and Partial Nitrification/Denitrification/ Anammox within an Integrated Advanced Water Treatment Facility for Large-Scale Potable Reuse	Yewei Sun
2:05 p.m.	Optimize Biologically Active Filtration (BAF) Design and Operation Using Mathematical Model	Yewei Sun
3:35 p.m.	Unraveling the Differences between Densified and Flocculant Activated Sludge Properties	Haley Noteboom
3:50 p.m.	Understanding Factors that Influence DAS Stability and Performance - Influence of Carbon Management Strategy, Physical Selection and Aeration Control	Wendell Khunjar
4:05 p.m.	Assessing Impacts of Thermal Hydrolysis on Mainstream Non-Biodegradable Organic Carbon and Nutrients at the Broad Run WRF	Ankit Pathak
Thursday, June 8th		
8:35 a.m.	Application of Real-Time Process Control and Post-Anoxic Denitrification Via Internally Stored Carbon to Achieve Low TN Discharge Limits	David Wankmuller
9:20 a.m.	Combination of EBPR, Endogenous Denitrification, Partial Nitrification/Denitrification and Anammox to Achieve Cost-Effective Nutrient Removal	Yewei Sun
3:35 p.m.	Successful Full-Scale Demonstration of Nitrogen Removal in a High Purity Oxygen Facility with no Infrastructure Modification	Bryce Danker
4:20 p.m.	Strategies for Managing Recalcitrant Nutrients to Meet Low Nutrient Limits	Wendell Khunjar
Friday, June 9th		
11:05 a.m.	Nutrient Management and Process Operation Optimization using Data-Driven Modeling, Case Study Loudoun Water, Virginia	Javad Roostaei