

# Wednesday, August 28, 2019

## Morning Technical Sessions

### Session 5 – Cyanobacteria Treatment

Room: TBD

Moderator: TBD

Start	End	Title, Author(s), Affiliation(s)
8:45	9:15	<b>How Green is My Water – Addressing Harmful Algal Blooms through Ozone and Peroxone</b> Peter D'Adamo (HDR)
9:15	9:45	<b>Oxidation of Cyanotoxins for Desalinated Water Effluent</b> Saad Jasim (SJ Environmental Consultants (Windsor) Inc.)
9:45	10:30	BREAK (45 Minutes)
10:30	11:00	<b>Evaluation of Ozone Treatment of Surface Water for Geosmin and MIB Removal for Wellington Water Plant, Colorado</b> Rupa Lamsal (SUEZ)
11:00	11:30	<b>Oxidation Combined with Biofiltration for Algae Related Taste &amp; Odor Issues – A Multiple Barrier Concept for an Emerging Challenge</b> Jens Scheideler (Xylem Inc.)
11:30	12:00	<b>Thorough Bench-Scale Testing Leads to Robust Ozone System Design at WaterOne</b> Aswathi Pradeep (Black & Veatch)

### Session 6 – Reuse and Contaminants

Room: TBD

Moderator: TBD

Start	End	Title, Author(s), Affiliation(s)
8:45	9:15	<b>Pilot Scale to 1-MGD: Lessons Learned During Start-Up of the SWIFT Research Center</b> Samantha Hogard (Virginia Tech)
9:15	9:45	<b>Organics Oxidation, Disinfection, Bromate Formation, and n-Nitrosodimethylamine Generation: The Balancing Act of Ozonation Processes Explored Through Bench-Scale Ozonation Experiments</b> Peter Buehlmann (Virginia Tech)
9:45	10:30	BREAK (45 Minutes)
10:30	11:00	<b>Impact of Ozone and Biological Filtration on NDMA Formation (WRF 4491 and 4669)</b> Ben Kuhnel (Arcadis)
11:00	11:30	<b>Non RO Based Treatment Trains for Reuse – A Solution for Inland Facilities</b> Jens Scheideler (Xylem Inc.)
11:30	12:00	<b>Advanced Oxidation Processes to Reduce Exposure to Pathogens and Contaminants in Reclaimed Water at a Transit Car Wash Facility</b> Chandra Mysore (Jacobs)

# Wednesday, August 28, 2019

## Afternoon Technical Sessions

### Session 7 – Ozone Design and Operation

Room: TBD Moderator: TBD

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Start	End	Title, Author(s), Affiliation(s)
1:30	2:00	<b>Start-Up of Loudoun Water's New Ozone-Biofiltration Water Plant – Does a Double Ozone Dose Make a Difference?</b> Christopher Schulz (CDM Smith); Geraro Castaneda (Loudoun Water); Tom Barrack; Jessica Edwards-Brandt
2:00	2:30	<b>Model Based Development of a Pipeline Contactor for High Turndown and High Ozone Dose Applications</b> Srikanth Pathapati (Mazzei Injector Company)
2:30	3:00	<b>Real-Time Monitoring and Measurement Challenges for Residual Dissolved Ozone</b> Srikanth Pathapati (Mazzei Injector Company); James Jackson
3:00	3:45	BREAK (45 Minutes)
3:45	4:15	<b>Welcome to the Modern Age: Upgrading Existing Air Based Ozone Systems to LOX</b> Bryan Townsend (Black & Veatch); Nick Burns
4:15	4:45	<b>Pilot Testing and Preliminary Design of an Ozone Biofiltration Facility</b> William Dowbiggin (CDM Smith); Brandon Flint; Bob Angelotti (UOSA)
4:45	5:15	<b>How Advanced Modeling (CFD) Can Enhance Ozone System Design</b> Achim Ried (Xylem); Joachim Anton

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### Session 8 – Advanced Oxidation Processes and Contaminants

Room: TBD Moderator: TBD

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Start	End	Title, Author(s), Affiliation(s)
1:30	2:00	<b>Ozone for the Removal of Arsenic and Manganese in Groundwater Source</b> Saad Jasim (City of White Rock)
2:00	2:30	<b>Fine Tuning an Ozone System Treating Hydrogen Sulfide</b> Ronald Joost (Carollo)
2:30	3:00	<b>Photo Chemical Ozone Generation with Xenon Excimer Lamps – A Paradigm Shift for Ozone Generation</b> Nicole Brueggemann (Xylem Services GmbH)
3:00	3:45	BREAK (45 Minutes)
3:45	4:15	<b>Ozonation Combined with Hydrodynamic Cavitation to Degrade Cyanide in Aqueous Solutions</b> Javier Paul Montalvo Andia (San Pablo Catholic University)
4:15	4:45	<b>Electrochemical Assisted Ozone/Advanced Oxidation Process for Organic Contaminants in Water</b> How Ghee Ang (National University of Singapore)
4:45	5:15	<b>Passing the Smell Test – With Ozone AOP</b> Salvador Dominguez (Xylem Inc.); Bob Kim; Ralph Franco

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