

## TOPICS

### TECHNICAL WORKSHOP

#### 1. Drinking Water Treatment and Supply

101	Efficient water treatment
102	Off-grid water treatment. Technologies, implementation plans, business models...
103	Advance treatment (including nanotechnologies and membranes...)
104	Desalination for developing economies (including non seawater)
105	Process control in Drinking Water Treatment
106	Modelling of treatment processes
107	Drinking water quality for human health (policies, regulations...)
108	Off-grid solutions for water supply (including reuse)
109	Integrated water supply
110	Rain water harvesting as a water supply option
111	Groundwater management (including replenishment)
112	Non revenue water (including water losses)
113	Intermittent Water Supply towards 24/7
114	Water safety and security plans

#### 2. Fecal sludge and Wastewater treatment for resource recovery

201	Process control in Wastewater Treatment Plants
202	Emerging contaminants (incl. antibiotic resistance, micropollutants, microplastics...)
203	Co-treatment for resource recovery
204	cost-effective approaches for pathogens destruction
205	Industrial wastewater treatment and reuse. Industrial synergies and fit -for-purpose treatment solutions. (Inc. Mining)
206	Water reuse (including direct potable reuse)
207	Off-grid toilets and decentralized sanitation technologies
208	Fecal sludge management (including pathogen destruction and resource recovery)
209	Solids liquid separation for resource recovery
210	Urban drainage and sewerage management
211	OPEX/CAPEX and economic analysis fecal sludge and wastewater treatment, collection and transportation
212	Financial viability of fecal sludge and wastewater utility operation
213	Sanitation safety plans

<b>3. City water and fecal sludge utility management and services</b>	
301	Efficient services and performance assessment
302	Corporate governance and human resources management (e.g. capacity building, gender gap, youth, culture...)
303	Ensuring financially sustainable management of water utilities; short term vs long term decision making
304	Long term decision making coping with uncertainties
305	Energy and carbon efficiency
306	Smart systems for utility management (including monitoring and digital transformation)
307	Infrastructure asset management and planning (incl. finances, benchmarking, blue-green infrastructure)
308	Customer relationships and social engagement
309	Tariffs, equity, and affordability
310	Managing fast growing urban areas (e.g. slum upgrading programmes, centralized vs decentralized systems...)
311	Business, financial and investment opportunities in water services and water technologies (e.g. business plans in public utilities, new business models...)
312	Business models, financing mechanisms for Resource recovery and reuse as integral options for City-Wide Inclusive Sanitation service models (CWIS)
313	Institutional and regulatory frameworks, partnership constellations for sustainable sanitation management
314	Behaviour change for new product and services for water and sanitation services.

<b>4. Integrated Water Resource Management</b>	
401	Integrated solutions for resilience (e.g. stakeholder engagement, nature base solutions in watersheds, Urban resilience & emergency response...)
402	Floods prevention and management (including warning systems, stormwater tank, rain water harvesting)
403	Water scarcity and droughts management (including rainwater harvesting...)
404	Urban and peri-urban agriculture (including treatment technologies, fit for purpose treatment solutions, regulations, reuse...)
405	water-energy-food nexus
406	Footprinting and virtual water
407	Basins scale management (e.g. business models for ensuring quantity/quality upstream, ensuring water security for different users, water quality in receiving water bodies...)
408	Good governance and public participation
409	Water policies, regulation, and multi stakeholder collaboration (including community base management)
410	Climate change and responses from developing countries.

<b>5. Efforts toward SDG Goal 6</b>	
501	Major challenges to achieving SDG Goal 6
502	South-South cooperation: sharing of affordable experiences and technologies
503	SDG Goal 6: international cooperation and capacity building (including human resources needs, attracting and retaining talent to workforce, etc)
504	SDG Goal 6: success stories and business models
505	SDG Goal 6: innovative policies for inclusive sanitation services

**LEARNING SESSION**

601	Problem solving
602	Stakeholder engagement
603	Academic writing
604	Entrepreneurship
605	Communication
606	Leadership
607	Qualitative and quantitative data collection and analysis
608	Team building
609	Facilitation
610	Statistics for water professionals