



UNIVERSITÀ
DI TORINO

Provider Università degli Studi di Torino (ID 173)

International School on water reuse (ISWR) – 5th Edition

26 - Sicurezza e igiene ambientali (aria, acqua e suolo) e/o patologie correlate;

Aula Magna del Dipartimento di Scienze della Vita e Biologia dei Sistemi

Via Accademia Albertina 13, Torino

14.09.2026

8.30-19.30	Titolo/argomento	Relatori
8.30-9.00	Registration	
9.00-9.30	Institutional Greetings	C. BAROLO
9.30-10.10	Climate change and water scarcity: quantitative evaluation of the water sources and future perspectives	M. LASAGNA M. MINELLA
10.10-10.30	Coffee Break	
10.30-11.20	Composition of natural and treated water. Chemical and microbiological pollutants	L. CARENA A. DI CESARE Chair: M. MINELLA
11.20-11.55	Secondary urban wastewater treatments: established technologies and innovative approaches	M. BRUZZONITI Chair: M. MINELLA
11.55-12.30	Wastewater treatment in the EU legislation framework: tertiary/quaternary treatment vs. energy neutrality	L. RIZZO Chair: M. MINELLA
12.30-13.00	From Waste Water Treatment Plant to Water Resource Recovery Plants: challenges and opportunities	D. NOVARINO Chair: M. MINELLA
13.00-14.00	Lunch	
14.00-14.50	Analytical control and data quality in wastewater treatment processes: the increasing role of AI	V. MAURINO E. ALLADIO Chair: M. BRUZZONITI
14.50-15.30	Disinfection of wastewater: fundamentals and process control	K. MANOLI Chair: M. BRUZZONITI
15.30-16.10	Nature-based solutions in the wastewater treatment chain: secondary or quaternary treatments?	M. DEL BUBBA Chair: M. M. BRUZZONITI
16.10-16.30	Coffee Break	
16.30-17.00	Iron-based processes as quaternary treatment; challenges and perspectives	A. ARQUES Chair: M. DEL BUBBA
17.00-17.30	Membrane processes as a quaternary treatment; challenges and perspectives	A. TIRAFERRI Chair: M. DEL BUBBA
17.30-18.00	Wastewater reuse in a nutshell: reuse types, fit-for-purpose approach and symbiotic loops	A. BIANCO PREVOT Chair: M. DEL BUBBA
18.00-19.30	Poster Session and Welcome Cocktail	

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9.00-17.30	Titolo/argomento	Relatori
9.00-9.30	Antibiotic resistant genes (ARGs) and antibiotic resistant bacteria (ARB): are they threatening the water reuse deployment?	I. BERRUTI Chair: S. MURTAS
9.30-10.00	Managing Microbiological Risks in Water Reuse: Beyond Indicator Bacteria	L. KRIEM Chair: S. MURTAS
10.00-10.30	The monitoring and removal of "forever chemicals" in the EU legislation context: state of the art and perspectives	I. SCISCENKO Chair: S. MURTAS
10.30-10.50	Coffee Break	
10.50-11.15	Understanding the connections between basic, applied and innovative science in polluted water treatment	S. MALATO
11.15-11.45	Economic aspects and management models around the concept of water resources and wastewater reuse	P. DE BERNARDI
11.45-12.15	Drivers and dynamics of water pricing in Europe	E. VALLINO
12.15-12.55	Institutional arrangements for water reuse and stakeholder attitudes: opportunities and challenges for the transition to water circularity	T. FIDELIS
13.00-14.00	Lunch	
14.00-14.30	Water reuse in the EU: regulatory framework, current status, and risk management approaches	R. MAFFETTONE Chair: T. FIDELIS
14.30-15.00	The risk management plans in the context of water reuse; the Southern Italy Acquedotto Pugliese case-study	D. PALMIOTTA Chair: T. FIDELIS
15.00-15.30	Implementing EU water reuse rules in Spain: risk management tools and the multi-barrier approach	I. LEON MARTIN Chair: T. FIDELIS
15.30-16.10	Promoting equitable access to water and sanitation: an integrated and resilient approach through water reuse and complementary measures	S. MURTAS Chair: T. FIDELIS
16.10-16.40	The water reuse deployment from the perspective of innovative technology provider; the Northern Italy IRIS case study	G. MOLINARI Chair: T. FIDELIS
16.40-17.30	Coffee Break, Poster Session and Best Poster Award	

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9.00-17.30	Titolo/argomento	Relatori
9.00-9.50	Water reuse in agriculture: resilience to water scarcity, nutrient availability, agronomic challenges	F. FERRERO E. PADOAN Chair: A. BIANCO PREVOT
9.50-10.15	Water reuse in soilless cultivation: opportunities and constraints for plant health	M. PUGLIESE Chair: A. BIANCO PREVOT
10.15-10.40	Aquaponics: a case of integrated aquaculture with total water reuse	B. SICURO Chair: A. BIANCO PREVOT
10.40-11.00	Coffee Break	
11.00-11.30	Industrial water reuse: governance strategies and economics	C. CUSENZA Chair: V. MAURINO

11.30-12.00	Case studies on industrial water reuse	G. FARABEGOLI Chair: V. MAURINO
12.00-12.30	Landscape and recreational activities irrigation: the Portuguese experience	A. REBELO Chair: V. MAURINO
12.30-13.00	Water reuse vs new EU Directive on WWTP: technological innovation and energy neutrality. The Milano case-study	F. PIZZA Chair: V. MAURINO
13.00-14.00	Lunch	
14.00-16.00	Round Table: Next generation water and related resources: technologies and policies	A. QUAZZO I. LEON MARTIN S. MURTAS L. RIZZO S. MALATO Chair: A. TIRAFERRI
16.00-16.30	Closing remarks and future perspective	A. BIANCO PREVOT
16.30-16.50	Coffee Break	
16.50-17.30	VERIFICA ECM*	

*Il tempo dedicato alla verifica NON è compreso nelle ore totali del corso

TOTALE ORE DELL'INIZIATIVA FORMATIVA	19 ore
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RAZIONALE (descrizione del corso)

La scuola avrà un carattere multidisciplinare ed i partecipanti acquisiranno competenze in molteplici ambiti, dalle tecnologie di trattamento delle acque agli assetti istituzionali, dalla sostenibilità ambientale ed economica agli aspetti legislativi, dalle implicazioni per il riuso in agricoltura all'accettazione sociale, dall'analisi e gestione del rischio alla sostenibilità energetica. Verranno discussi casi studio reali per favorire l'acquisizione delle suddette competenze

La Scuola promuove la condivisione di conoscenze e idee, ed i partecipanti potranno portare il proprio contributo e arricchire la loro rete di contatti a livello nazionale ed internazionale.

RESPONSABILI SCIENTIFICI:

- **Prof.ssa Alessandra Bianco Prevot**

