

INTERNATIONAL SCHOOL ON WATER REUSE (ISWR) – 3RD EDITION
Room Keplero, Molecular Biotechnology Center, University of Torino
Via Nizza 52 Torino, Italy

9-11th, SEPTEMBER 2024

DAY 1

8.30-9.00 REGISTRATION

9.00-9.30 INSTITUTIONAL GREETINGS and SCHOOL OPENING

9.30-10.30 Climate change and water scarcity: a quantitative evaluation of the water sources (S. Stevenazzi, University Federico II of Napoli)

10.30-10.50 COFFEE BREAK

10.50-12.00 Composition of natural and treated water. Chemical and microbiological pollutants (M. Minella, University of Torino; A. Di Cesare, CNR-IRSA Verbania)

12.00-13.00 Limits and perspectives of established technologies for urban wastewater treatment (M. Bruzzoniti, University of Torino; M. Del Bubba, University of Firenze)

13.00-14.00 LUNCH

14.00-14.50 Disinfection of wastewater: fundamentals and process control (K. Manoli, Lambton College, Canada)

14.50-16.00 Advanced wastewater treatments for micropollutant removal: trends and challenges (V. Maurino, University of Torino; L.Santos-Juanes, Universidad Politecnica de Valencia)

16.00-16.20 COFFEE BREAK

16.20-17.10 Consolidated vs. innovative tertiary and quaternary urban wastewater treatments. Issues and challenges in light of the new European regulatory framework (L. Rizzo, University of Salerno)

17.10-18.00 Solar-based technologies and scale-up of innovative wastewater treatments for water reuse (S. Malato, Plataforma Solar de Almeria)

18.00- 18.30 QUESTION TIME WITH THE SPEAKERS

18.30-19.30 Welcome cocktail and Poster Session

DAY 2

9.00-10.20 WATER REUSE IN AGRICULTURE: water use efficiency indicators and management practices, effects on soil hydro-ecological functioning and on plant health, nutrients recovery and technologies for fertigation (F. Ferrero, M. Pugliese, University of Torino)

10.20-10.40 COFFEE BREAK

10.40-11.20 Aquaponics: a case of integrated aquaculture with total water reuse (B. Sicuro, University of Torino)

11.20-12.10 Unconventional water sources: rainwater harvesting, storage and reuse (I. Butera, Polytechnic of Torino)

12.10-13.00 Reuse and recycle of industrial wastewater (V. Boffa, Aalborg University)

13.00-14.00 LUNCH

14.00-15.10 An update on water reuse practices in Europe: a focus on legislation framework and risk management (R. Maffettone, JRC, Ispra)

15.10-16.00 Water reuse deployment: the case study on risk management for the Park of Lisbon (A. Franco, Portuguese Environment Office)

16.00-16.20 COFFEE BREAK

16.20-17.10 Institutional arrangements for water reuse and stakeholder attitudes: opportunities and challenges for the transition to water circularity (T. Fidelis, University of Aveiro)

17.10-18.00 Economic aspects around the concept of wastewater reuse: a methodological framework for cost-benefit analyses (E. Vallino, University of Torino)

18.00- 18.30 QUESTION TIME WITH THE SPEAKERS

20.00 Social Dinner

DAY 3

9.00-9.45 Multimodular water reuse: CASE STUDY 1_ Madrid (M. Casanova Sanjuan)

9.45-10.30 Multimodular water reuse: CASE STUDY 2_ to be defined

10.30-12.00 Round Table. Water reuse in the frame of sustainability: a multidisciplinary challenge

(ISWR Speakers, IRIS, Hydroaid, UniToGO, SMAT, ProjectHub,...)

12.00-12.30 Closing remarks and future perspective (University of Torino)

12.30-14.00 LUNCH and Poster Session

14.00-17.00 Visit to the local Po river potabilization plants and Water Research Center (SMAT S.P.A., Torino)