TORINO, 13-15 SEPTEMBER 2023

INTERNATIONAL SCHOOL ON WATER REUSE

Chemistry Department
Via Pietro Giuria, 7 - Room “Avogadro”

PROGRAM

internationalschoolwaterreuse.eu

Spoke 2
Green Technologies
and sustainable industry
13th September

8:30  Registration

9:00  Institutional greetings

9.20 Presentation of NODES Project and Spoke2
School opening

Session I  Chair: D. Palma (University of Torino, Italy)

9:40  Water as a non-infinite resource: human appropriation, water footprint, water scarcity (V. Maurino, University of Torino, Italy)

10:05 Composition of natural and treated water and its chemical and microbiological pollutants (M. Minella, University of Torino, Italy, P. Roslev, Aalborg University, Denmark, R. Binetti, SMAT, Torino, Italy)

10:50 COFFEE BREAK

Session II  Chair: M. Minella (University of Torino, Italy)

11:15 The “water good” in the international regulatory framework (A. Fusco, University of Torino, Italy)

11:35 The management of water resources and EU legislation for its reuse (Regulation 2020/741) (M. Ricciardo Calderaro, Universtiy of Torino, Italy)

11:55 Water reuse practices in Europe: a focus on risk assessment and management (R. Maffettone, EC, JRC, Ispra, Italy)

12:25 Institutional arrangements for water reuse: assessing challenges for the transition to water circularity (T. Fidelis, University of Aveiro, Portugal)

12:50 LIGHT LUNCH

14:00 ROUND TABLE: Water reuse “tips and issues”. Hydrogeologic, agricultural, infrastructural perspectives.

Speakers: M. Lasagna (University of Torino, Italy), F. Ferrero (University of Torino, Italy), P. Simon (ESAMUR, Murcia, Spain), A. Battilani (Irrigants d’Europe), A. Quazzo (SMAT, Torino, Italy)

Chair: L. Rizzo (University of Salerno, Italy)
Session III  Chair: T. Fidelis (University of Aveiro, Portugal)

15:30  A few remarks for an informed debate on the acceptance of water reuse: attitudes, practices and behaviors (S. Gattino, M. Martini, D. Acquadro Maran, A. Sciullo, University of Torino, Italy, P. Albulescu, University of Timisoara, Romania)

17:00  Water as a New Asset Class for Paradigm Shift for Climate–Water Resilience (A. Elmahdi, Green Climate Fund, GCF)

17:40  GET TOGETHER COCKTAIL&POSTER SESSION

14th September

8:45  MEETING AT TORINO ESPOSIZIONI (VIALE BOIARDO) TO TAKE THE PRIVATE BUS

9:00  Visit to the local waste water treatment plants (SMAT S.P.A., Torino)

12:50  LIGHT LUNCH

14:00  ROUND TABLE. Water reuse: EU Regulation and technological challenges.

Speakers: L. Rizzo (University of Salerno, Italy), I. Oller (Plataforma Solar de Almeria, CIEMAT, Spain), C. Varese, (University of Torino, Italy), G. Cravotto (University of Torino, Italy), A. Tiraferri (Polytechnic of Torino, Italy), V. Boffa (University of Aalborg, Denmark)

Chair: A. Arques (Polytechnic University of Valencia, Spain)

15:50  Analytical challenges in the water reuse scenario (A. Bianco Prevot, University of Torino, Italy)

16:10  COFFEE BREAK

Session IV  Chair: I. Oller (Plataforma Solar de Almeria, CIEMAT, Spain)

16:30  From wastewater treatment plant to a “water-based factory”; Experience of LIFE GREEN SEWER (X. Yang, CETIM, Spain)

17:00  LCA applied to water treatments technologies for water reuse (G. Maniakova, Istituto Mario Negri, Milano Italy)

17:30  Business models for small and local loops of water reuse; Project Ô experience (M. Lai, IRIS, Italy)

20:30  SOCIAL DINNER
15th September

Session V  Chair: R. Maffettone (EC, JRC, Ispra, Italy)

9:00    Water reuse in Spain: drivers and barriers in Murcia and Almeria region (I. Oller, Plataforma Solar de Almeria, CIEMAT, Spain and P. Simon, ESAMUR, Murcia, Spain)

9:50    The long experience of Israel in wastewater treatment and reuse: regulation policy, quantitative and qualitative aspects (E.N. Zalcman, Israel National Water Authority)

10:20   COFFEE BREAK

Session VI  Chair: V. Maurino (University of Turin, Italy)

10:40   WATER REUSE IN AGRICULTURE: effects on soil hydro-ecological functioning (F. Ferrero, University of Turin, Italy), nutrients recovery (L. Celi, University of Turin, Italy), and technologies for fertigation (E. Dinuccio, University of Turin, Italy).

11:40   Aquaponics: a case of integrated aquaculture with total water reuse (B. Sicuro, University of Turin, Italy)

12:00   An update on Water reuse in Europe (F. Pizza, Eureau, MM Spa, Milano, Italy)

12:25   Water-Energy-Food-Climate Nexus in an integrated peri-urban wastewater treatment and reuse system (F. Fatone, Marche Polytechnic University, Italy)

12:45   Closing remarks (A. Bianco Prevot, V. Maurino, University of Turin, Italy)

Info & contacts

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REGISTRATION BY 30/06/2023