

Session III

Moderator: Pr. Theodore DJENI (UNA, Abidjan) / Pr. Ouafa CHERIFI (UCA, Marrakech)

09:30 - 10:00 Investigation of chloroform degradation mechanisms using multi-dimensional isotope fractionation analyses: Implications to a managed aquifer recharge (MAR) of desalinated water
(M.Sc. Berhane Abrha ASFWA TU, Darmstadt)

10:05 - 10:25 Challenges in GEMAPLAST effluent and a circular approaches to Wastewater Management in Plastic Recycling
(M.Sc. Sara MRHARI DERDAG, UCA, Marrakech)

10:30 - 10:50 Photodeposition Applied to Heavy Metal Removal in Wastewater: Case studies of the Fez Tannery
(Pr. Mounsef NEFFA, Mohammed First University, Oujda)

10:55 - 11:25 COFFEE BREAK & POSTER SESSION III

11:30 - 11:50 Chrome Tanning in Marrakech: Effluent characterization and treatment by adsorption and electrocoagulation
(Pr. Salihia ELABBAS, Private University Marrakech)

11:55 - 12:15 Photocatalytic Removal of Toxic Compounds via Photodegradation Using Hydrochar-Based Materials
(M.Sc. Ibtissam BOUSSAKSOU, UAE, Tétouan)

12:20 - 12:40 Sustainable Industrial Wastewater Management: Activated Sludge System at Equatorial Coca Cola Company (CBGS)
(Mr. Oussama Hasnaoui AMIRI, Mrs Samira NABIL, Mrs Khadija AGOUASSIF, Compagnie des Boissons Gazeuses du Sud)

12:45 - 13:05 Performance Assessment of a High-Rate Algal Pond for the Treatment of Industrial Wastewater (M. Sc. Chaima ZAHIR, UCA, Marrakech)

13:10 - 14:30 Lunch Break

Poster Session III

11. Detection and Analysis of Pharmaceutical Residues by LC-MS/MS in treated wastewater: case of Tunisia
(M.Sc. Hana MECHMECH, Tunis)

12. Life cycle assessment of membrane –based desalination technologies under Moroccan energy sources
(M.Sc. Yassine SOUMBATI, UMP6, Benguerir)

13. Modeling the Impact of Urban and Industrial Pollution on the Quality of Surface Water in Intermittent Rivers in a Semi-Arid Mediterranean Climate
(Dr. Abdellilah BOURIQI, UCA, Marrakech)

14. Artisanal Fishers as Environmental Sentinels: Linking Local Knowledge to Industrial Pollution Challenges
(M.Sc. Hafssa CHOUKRI, UCA, Safi)

15. Characterization, Identification, and Mitigation of Trihalomethanes in Drinking Water Using Graphene Oxide as an Advanced Adsorbent Material
(M.Sc. MarwaCHEDDAD, UCA, Marrakech)

Session IV

Moderator: Dr. Alessio CAMPITELLI (TU Darmstadt) / Pr. Mostafa STITOU (UAE, Tétouan)

14:35 - 14:55 Turning waste into value: Evaluating the microbial safety of biogas digestate for agricultural use in circular systems
(Pr. Theodore DJENI, UNA, Abidjan)

15:00 - 15:20 Circular Solutions for Leachate Management in Municipal Waste Collection : the Mecomar Experience
(Dr. Ghizlane HANNOUN, Mecomar company)

15:25 - 15:55 COFFE BREAK & POSTER SESSION IV

16:00 - 16:20 Impact of MCFA production by reverse beta oxidation on certain heavy metals in household leachates
(Dr. Frank Orlando YEBOUET, UNA, Abidjan)

16:25 - 16:45 Donor-Free Medium-Chain Fatty Acid Elongation via Co-Digestion of Municipal Landfill Leachate and Olive Pomace
(M.Sc. Haitam MADOUANI, UCA, Marrakech)

16:50 - 17:10 Cassava processing effluent as an alternative electron donor for chain elongation process using fresh leachate as substrate
(M.Sc. Alex KOUASSI MONDESIR KREKUM, UNA, Abidjan)

17:15 - 17:30 Wrap up and closing ceremony

Poster Session IV

16. Enhancing Medium-Chain Fatty Acid Production via Co-fermentation of Landfill Leachate and Liquid Sewage Sludge with Targeted Electron Donors
(M.Sc. Soufia OUMENA, UAE, Tétouan)

17. Project: Green Waste and Water Management for a Sustainable Africa (W24Africa)
(Dr. Alessio CAMPITELLI, TU Darmstadt, Germany)

18. Utilization of Diatoms for Industrial Wastewater Treatment
(M.Sc. Sara EL HAMJI, UCA, Marrakech)

19. Industrial Wastewater Treatment using Microalgae and Biomass Valorization
(M.Sc. Hiba ZEGROUD, CNEREE, Marrakech)

20. Organic Matter Degradation via Co-digestion of Municipal Landfill Leachate and Brewery Waste Water under controlled parameters
(Ms. Salma MNISSEUR, Ms. Imene SNIBA, UCA, Marrakech)

21. Co-Digesting Gracilaria sp. with Cattle Slurry in a 20 m³ Dome Digester: Turning Marine Biomass and Liquid Effluents into Low-Carbon Energy
(M.Sc. Abdessadek ESSADEK, UMP, Oujda)

International workshop on advanced and sustainable technologies in water and wastewater management:

Bridging innovation between academia, industry and policy makers

11th to 13th November 2025

Venue: Seminar Room, Faculty of Sciences Semlalia
UNIVERSITY CADI AYYAD, MARRAKECH, MOROCCO



Policy, governance, and public-private partnerships



Circular economy and resource recovery in water and wastewater systems



Innovative solutions for water scarcity



Deutscher Akademischer Austauschdienst
German Academic Exchange Service

11th November 2025

09:00 – 09:30 Check-in

09:30 – 10:00 Opening Ceremony

Pr. EL Hassan EL MOUDEN (Dean of Faculty of Sciences Semelalia, UCA, Marrakech)

Dr. Alessio CAMPITELLI (Technical University Darmstadt)

Pr. Theodore N'DEDE DJENI (University Nangui Abrogoua, Abidjan)

Pr. Mostafa STITOU (University Abdelmalek Essaadi, Tétouan)

Pr. Naaila OUAZZANI (Chair, Faculty of Sciences Semlalia, UCA, Marrakech)

Session I

Moderator: Pr. Brahim OUDRA (UCA, Marrakech) \ Pr. Faissal AZIZ (UCA, Marrakech)

10:00 – 10:30 Key Note speaker

Water resources : Quality and problem

(Mr.Mohamed RAHDOU, Mr Abderrahim LACHGUER, Tensift Hydraulic Basin Agency)

10:30 – 10:50 Urban Wastewater Treatment and Reuse for Irrigation: SRM

Marrakech-Safi's Integrated Approach

(Mr. Mouhcine BENCHEIKH, SRM Marrakech-Safi)

10:55 – 11:25 COFFEE BREAK & POSTER SESSION I

11:30 – 11:50 Integrated Strategies for Microplastic Prevention and Remediation in the Environment

(Pr. Loubna EL FELS, UCA, Marrakech)

11:55 – 12:15 Magnetic nanotechnology, a future technology for water desalination

(Mr. Slim CHERNI, Maya Life innovate, Casablanca)

12:20 – 12:40 Advanced Water reuse : Integrating AI and Fourth-stage Treatment for sustainable wastewater management

(M.Sc. Soufia OUMENA, PWT, Casablanca)

12:45 – 13:05 Toward Low-Carbon Wastewater Treatment: Life Cycle Assessment of Hydrogen production via WWTP

(M.Sc. Nouhaila EL AFIFI, ENSA, EL Hoceima)

13:10 – 14:30 Lunch Break

Poster Session I

1. Eco-Efficient irrigation systems: Synergistic effects of treated wastewater and biochar on tomato growth and soil health

(M.Sc. Houria RYAH, UCA, Marrakech)

2. Assessment of Secondary Treated Wastewater as an Alternative Nutrient Source for the Growth and Physiological Responses of Rocket (*Eruca sativa*) in a Low-Cost Hydroponic System

(M.Sc. Firouze OUKHEY, UCA, Marrakech)

3. Assessment of the treatment efficiency of a prototype activated sludge process applied to secondary processing wastewater

(M.Sc. Ilham ZEHOUANI, UCA, Marrakech)

4. Tertiary treatment of secondary municipal effluent using iron-carbon microelectrolysis-integrated constructed wetlands

(M.Sc. Sara MRHARI DERDAG, UCA, Marrakech)

5. Reuse of treated domestic wastewater by hybrid MSL technology for Crop Irrigation

(Dr. khadija ZIDAN, UIZ, Agadir)

11th November 2025

Session II

Moderator: Pr. Majdouline BELAQZIZ (UCA, Marrakech)/ Dr. Adbessamad HEJJAJ (CNEREE, Marrakech)

14:35 – 14:55 Managing Industrial Effluents in Table Olive Processing : A Case Study of the cartier Saâda Canning Industry
(Mrs. Zhor Lahliou ALAOUI, Cartier Saâda Canning Industry)

15:00 – 15:20 Treatment of Table Olive Processing Wastewater Using MBR and Activated Sludge Systems: Operational Challenges and Strategic Solutions
(Dr. Asma LAZRAK, UCA, Marrakech)

15:25 – 15:55 COFFE BREAK & POSTER SESSION II

16:00 – 16:20 Advanced technologies for the treatment of industrial effluents: A case study on olive mill wastewater
(Pr. Mounia ACHAK, University Chouaib Doukkali, El Jadida)

16:25 – 16:45 OMWW treatment by nano-biosorbent
(Dr. Imane HAYDARI, UCA, Marrakech)

16:50 – 17:10 Valorization of by products from wastewater treatment plants
(Pr. Youssef AOULAD EL HADJ ALI, UAE, Tétouan)

17:15 – 17:30 Wrap up: Pr. Laila MANDI (UCA, Marrakech)

Poster Session II

6. Hybrid SAPs Based on CMC and Alginate for Efficient Water Use in Agriculture
(M.Sc. Achraf BERRADI, CNEREE, Marrakech)

7. Water decontamination through the degradation of organic pollutants using phosphate-based glass-ceramics
(M.Sc. Chaïma ASSAMADI, UCA, Marrakech)

8. Valorization of Olive Mill Wastewater through Batch Anaerobic Digestion and Continuous Resin Adsorption: Kinetic Modeling of Methane Production
(M.Sc. Abdessadek ESSADEK, UMP, Oujda)

9. Eco-friendly phosphorylation of cellulose and starch for synergistic remediation of dye and metal contaminated water
(M.Sc. Abdelkarim BELASRI, UM6P, Benguerir)

10. The effect of alternating Fresh water to treated wastewater irrigation on the physiological and biochemical response of koroneiki olive trees (*Olea europaea L.*)
(Dr. Abdelali AHMALI, UCA, Marrakech)

13th November 2025

08:00 – 08:30 Check-in for the Excursions

10:45 – 12:30 Start of the Excursion to the Desalination Plant in Safi

13:00 – 14:30 Lunch break

14:45 – 16:00 Excursion to the Wastewater Treatment Plant of Safi

18:30 End of the 3rd Day

Organization Committee

Pr. Naaila OUAZZANI, Cadi Ayyad University, Marrakech, (Morocco)

Pr. Holger LUTZE , Technical University of Darmstadt, (Germany)

Pr. Mostafa STITOU, University Abdelmalek Essaadi, Tétouan (Morocco)

Pr. Theodore DJENI, University Nangui Abrogoua, Abidjan (Ivory Coast)

Dr. Alessio CAMPITELLI, Technical University of Darmstadt (Germany)

Dr. Lamia SAADOUN, Cadi Ayyad University, Marrakech, (Morocco)

M.Sc. Haitam MADOUANI, Cadi Ayyad University, Marrakech, (Morocco)

M.Sc. Sara MRHARI DERDAG, Cadi Ayyad University, Marrakech, (Morocco)

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M.Sc. Firouze OUKHEY, Cadi Ayyad University, Marrakech, (Morocco)

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