

CEST2025 programme

Wednesday, 3 September 2025

Session 1 Opening Ceremony	
Room:	
17.00-17.15	Welcome speeches
17.15-17.30	CEST2025 information
17.30-18.00	Recognizing Innovation, Dr David Solomon Jalajel, Prince Sultan Bin Abdulaziz International Prize for Water (PSIPW)
18:00 - 18:30	Barcelo D.
	[369] Climate Change, Water Scarcity, Emerging Contaminants and Microplastics: Global Vision and Local Solutions in the Mediterranean region: The Need for Advanced Water Treatment and Management
18:30 - 19:00	Lopez-Gunn E.
	[466] Resilience by design through water and nature: levers for change in the current policy landscape

Thursday, 4 September 2025

Session 2 Wastewater treatment (1)	
Room: A	
09:00 - 09:15	Ballesteros F., Lechago H., Eusebio D., Taguba M.
	[139] AI Applications in Wastewater Quality Monitoring for a full-scale Sequencing

	Batch Reactor Plant
09:15 - 09:25	Shafiq S.
	[252] Nanobiotechnology for the removal of heavy metals from industrial wastewater
09:25 - 09:35	Sousa S., Machado C., Salgado E., Esteves A., Dias J., Vilaça J., Pires J.
	[38] PhotoBioValue project: Linking N:P Ratios and Nitrogen Sources to Microalgae-Based Wastewater Bioremediation and Biomass Valorisation
09:35 - 09:45	Zajac O., Zubrowska-Sudol M.
	[42] Pure vs. hybrid moving bed technology: How aeration strategies affect nitrification kinetics and Comammox bacteria?
09:45 - 09:55	Salgado E., Ribeirinho-Soares S., Sousa S., Gonçalves A., Ratola N., Pires J.
	[105] PhotoBioValue project: Microalgae-bacteria consortium for the bioremediation of urban wastewater in pilot-scale photobioreactors
09:55 - 10:05	Borowska W., Zając O., Żubrowska-Sudoł M., Dąkocz N.
	[77] Aeration Matters: Optimizing Wastewater Treatment While Minimizing N₂O Emissions
10:05 - 10:15	Lingating R., Rollon A.
	[161] Application of Cell Immobilization in the Batch Activated Sludge Treatment of Domestic and Poultry Wastewater Using Carbonized Coconut Shell and Carbonized Rice Hull
10:15 - 10:20	Boguniewicz-Zablocka J., Naddeo V., Zagrobelna D.
	[310] Benchmarking Sustainability in Tissue Manufacturing: Evaluating Bleaching

	and Effluent Treatment Practices
Session 3 Solid waste management Room: B	
09:00 - 09:15	Zorpas A., Voukkali I., Stylianou M., Nisiotou C., Sospiro P., Liscio M., Loizia P.
	[336] The Evolution of End of Life Clothing in the Waste Management Sector considering Circular Economy
09:15 - 09:30	Ferreri M., Pedullà A., Pangallo D., Calabrò P.
	[32] Impact of biodegradable bioplastics on anaerobic co-digestion of household organic waste and wastewater sludge
09:30 - 09:40	Bush J., Mavroulidou M., Sopeoglou E.
	[75] Impact of Straw Substrate Particle Size on the Mechanical Properties of Mycelium Based Composite Materials
09:40 - 09:50	SENEKANE M.
	[21] Indigenous systems of solid waste management: A Perspective of the African continent rural areas
09:50 - 10:00	D'Amato M., Buonerba A., Oliva G., Zarra T., Naddeo V., Belgiorno V.
	[109] Recovery of aged plastics from waste stored in bales
10:00 - 10:10	Lourmpas N., Kyriakakis E., Efthimiadou E., Papanikos P., Filippidis A., Lekkas D., Alexopoulos N.
	[358] Valorisation of Marine Polypropylene Waste: Integrity Assessment and Recycling Performance
10:10 - 10:20	Akyıldız S., Bellopede R., Marini P., Hajidela S.

	[58] Circular Economy in Textiles: Evaluating Mechanical Separation Techniques for Recycling Poly-cotton Blends
10:20 - 10:25	Batinić B., Živančev M., Berežni I., Marinković T.
	[237] A model for calculating required equipment for introduction of waste source separation system at municipal level – Case Study of Serbia
10:25 - 10:30	Hassan N., Jacksi D.
	[450] Assessing Public Awareness and Environmental Impact of Solid Waste Disposal in Duhok Governorate, Kurdistan Region of Iraq
Session 4 Air pollution Room: C	
09:00 - 09:10	Opwis K.
	[3] Detox NH3 Textiles - Clean Air for Pig, Man & Environment
09:15 - 09:25	Tsiampartas A., Christodoulou M., Vasiliades M., Agapiou A., Stylianou M.
	[72] Mitigating VOCs and Odor with Activated Biochar from Woody Waste
09:25 - 09:35	cernuschi S., Lonati G., Puricelli S., Tardivo R., Ozgen S., Signorini S.
	[141] Multiyear monitoring of ultrafine particulate matter emissions from a modern full scale WtE plant at real operating conditions.
09:35 - 09:45	Diamanti V., Gkaras S., Triantafyllou A.
	[212] Exploring the patterns of particle-bound PAHs in ambient air of an urban agglomeration (first results)
09:45 - 09:55	Kotrikla A., Salaveri S., Maroulis C.

	[176] Factors Influencing Particulate Matter Variability in an Urban Street in Chios
09:55 - 10:05	Raso L., Della Rocca M., Bettini M., Oliva G., Belgiorno V., Naddeo V., Zarra T.
	[184] Low-cost smart sensors for PM monitoring in ambient air: analysis and comparisons
10:00 - 10:10	Alzaabi M., Elsergany E.
	[345] Comparative Risk Assessment of Commuting Traffic Congestion in Dubai
10:10 - 10:15	Giaquinto P., Della Rocca M., Belgiorno V., Naddeo V., Zarra T.
	[185] Odour monitoring as an unconventional tool for sewage sludge management in wastewater treatment plants
Session 5 Climate change adaptation and resilience	
Room: D	
09:00 - 09:10	Osman H., Elsergany M., Nurelhuda N.
	[341] Climate Change in UAE: Evaluating Mitigation Effectiveness and Social Dimensions in Adaptation Strategies
09:10 - 09:20	Tzouvaras N.
	[102] Biomass-related issues and potential windfall profits in the European Union Emissions Trading System
09:20 - 09:30	Charatsari C., Lioutas E., Sergaki P., Nastis S., Michailidis A.
	[383] Steps to Promote Agrifood Twin Transitions: From Identifying Innovation Paths to Enhancing Future Competencies
09:30 - 09:40	Cicalese F., Grimaldi M., Fasolino I.

	[37] Urban settlements adaptation. Measures for neighbourhood plans
09:40 - 09:50	Boulogiorgou D., Kaldellis J.
	[201] EU Climate Law, Recovery and Resilience Policy: Outcomes for Greece First Energy Transition Steps.
09:50 - 10:00	Boulogiorgou D.
	[204] Innovative Energy Projects and Policies for the Energy Transition of Small Greek Islands
10:00 - 10:10	Pantera A., Papadopoulos A., Lubczyński M., Pisani B., Andreu A., Mendes M., Rolo V., Moreno G., Salbitano F., Mosquera-Losada R., Samper J.
	[273] Nature-based Solutions: evolution through time in the Mediterranean Basin
10:10 - 10:20	Grigoriadou E., Roussos O., Voudouri A., La Jeunesse I., Hatzilacou D., Papadopoulou L., Papadopoulou M.
	[342] From site-specific to the next day: transferring local knowledge to climate resilient management – NECCA paradigm
Session 6 Plenary session Room: A	
10:30 - 11:00	Papadopoulou M.
	[478] Climate change
Session 7 Wastewater treatment (2) Room: A	
11:30 - 11:45	Cairone S., Zarra T., Belgiorno V., Naddeo V.

	[468] Artificial Intelligence in Membrane-Based Wastewater Treatment: Advances in Control and Optimization
11:45 - 11:55	Lin Y., Yupo L., Po-Chih T., Shu-Yuan P.
	[285] Design and Evaluation of a Scalable Shock Wave Electrodialysis with Multi-Cell Stack for Efficient Desalination
11:55 - 12:05	Petsi P., Sioutopoulos D., Sarasidis V., Patsios S., Plakas K.
	[258] Exploitation of industrial wastewater streams through bipolar electrodialysis for NaOH and HCl production
12:05 - 12:15	Athanasiadi A., Sioutopoulos D., Sarasidis V., Lekkas M., Patsios S., Plakas K.
	[262] Anaerobic/Aerobic Membrane Bioreactors for Wastewater Treatment of Pulp And Paper Industry
12:15 - 12:20	Palangan V., Lu M., Ballesteros F.
	[277] Effect of Iron(II) on Nickel Removal via Fluidized-Bed Homogeneous Crystallization Technology
12:20 - 12:25	Ronca A., Galinha C., Crespo J.
	[315] Nanofiltration for the Treatment of Bleaching Effluents from the Pulp and Paper Industry: A Case Study
12:25 - 12:35	Panepinto D.
	[133] Analysis of the PFAS treatment, regulation and experimental investigation
12:35 - 12:45	Lu P., Glasgow G., Lay M.
	[333] Performance of Sequencing Batch Reactors For The Treatment of High Ammonium Concentration Landfill Leachate

Session 8 | Energy recovery from waste

Room: B

11:30 - 11:40	Koumpakis D., Vlachokostas C., Michailidou A., Savva C. [374] Turning Plastic Waste into Power: Pyrolysis for Sustainable Industrial Energy
11:40 - 11:50	Nayak J., Khan A., Ranade V., Collins M. [392] Optimized hydrodynamic cavitation-based Pretreatment Strategies to enhance residual Biogas Yield from Solid Digestate and Struvite Recovery from Liquid Fraction
11:50 - 12:00	Vakalis S., Liakos D., Papaioannou I., Stefanidis G. [431] Microwave plasma pyrolysis for the valorization of VFA extracts from HTC process water
12:00 - 12:10	Kostopoulou N., Pappa G., Voutsas K., Liakos D., Prinios N., Vakalis S., Voutsas E. [463] Modelling of Hydrogen Generation from Woody Biomass in a Novel Modular Downdraft Gasifier–WGS–PSA System
12:10 - 12:20	Kanellos G., Fragkos O., Flari D., Tremouli A., Lyberatos G. [98] The synergistic effect of H₂ injections and applied potential on biogas production during the treatment of industrial potato processing wastewater in a Microbial Electrolysis Cell-assisted Anaerobic Digestion system
12:20 - 12:30	Fragkos O., Kanellos G., Kotsikas E., Pournara E., Vlysidis A., Tremouli A., Lyberatos G. [96] A Microbial Electrolysis Cell-assisted Anaerobic Digestion process for enhanced treatment of industrial potato processing wastewater
12:30 - 12:40	Romano F., Oliva G., Belgiorno V., Naddeo V., Zarra T.

	[193] Biohydrogen production through dark fermentation of organic waste: evaluation of pretreatment methods
12:40 - 12:50	Adefeso I.
	[316] Characterisation of Date Seeds for Bioresources Application
12:50 - 13:00	Andronikou M., Vyrides I.
	[473] A Metal-Assisted Circular System for CO₂ Utilization and Methane Enhancement in Anaerobic Digestion.
Session 9 Environmental management and policy Room: C	
11:30 - 11:45	Vlachokostas C.
	[460] Bridging the gap between sustainability and engineering: Challenges and Perspectives
11:45 - 11:55	Tsangas M., Zorpas A., Panayi P.
	[41] The correlation of NEP scale score to energy consumption attitudes
11:55 - 12:05	Gabuco K., Clemente E.
	[158] Impacts of Quarry Blasting on Water Sustainability: Assessment of Social Acceptability in the Municipalities of Camalig and Guinobatan, Albay
12:05 - 12:15	Bari M., McCarthy E., Broderick E., Fenton O., Tuohy P.
	[123] Assessment and Mapping of the Drainage Status of Ireland's Peatlands
12:15 - 12:25	Kontos K., Gounaris N., Papalampros L., Ioannou A., Dimitriou D., Probonas M., Antaloudaki E., Baxevas P., Pylara A., Chantzistroutsou X., Spyropoulos A.

	[190] Restoration and protection actions of the Priority Habitat 9370* “Palm groves of Phoenix” in Crete - LIFE PHOENIX
12:25 - 12:35	Vagiona D.
	[265] Subjective and Objective Weights in Renewable Energy Sources Siting Problems
12:35 - 12:40	Elsergany D., Alam Z., Noor F.
	[353] Impact of environmental sustainability course on enhancing environmental knowledge among university students in UAE.
12:40 - 12:45	Gounaris N., Kontos K., Galatsidas S., Georgiadis C., Vlachaki D., Papalampros L.
	[191] Strategic Environmental Management in Mount Athos under Climate Change, LIFE STEMMA ATHOS
12:45 - 12:50	Alzamil W.
	[300] Transformation of Developmental Housing Towards SDGs in Saudi Arabia
12:50 - 12:55	Corpus R., Bayani M.
	[14] Decomposition analysis of ASEAN countries CO2 emissions from electricity generation
12:55 - 13:00	Bratani D., Vagiona D.
	[83] The use of indicators as a tool in environmental impact assessment studies of Renewable Energy Sources projects
Session 10 Climate change impacts, vulnerability and risks Room: D	

11:30 - 11:40	Miškelytė D., Zaltauskaite J., Manusadzianas L.
	[69] Elevated temperature impact on toxicological effects of pesticides, antimicrobials and their mixtures to duckweed Lemna minor
11:40 - 11:50	Kelesidi K., Tsouchlaraki A.
	[394] Geocoding of fire events in the mountainous region of Ymittos using GIS
11:50 - 12:00	Lougkovoios R., Gkotsis G., Parinos C., Hatzianestis I., Nika M., Pavlidou A., Thomaidis N.
	[177] Storm Daniel extreme flood event in Thessaly, Greece: Assessing the pollution status of the impacted coastal marine areas through extended screening of emerging contaminants using LC-TIMS-QTOF MS
12:00 - 12:10	Theodosiou K., Papageorgiou K.
	[251] Measuring climate data in school environment: Analysis of Climatic Trends on the island of Chios (2014–2025)
12:10 - 12:20	Ferreiro-Domínguez N., Santiago-Freijanes J., Rigueiro-Rodríguez A., Mosquera-Losada M.
	[59] Restoration of burned forest areas in Galicia (NW Spain)
12:20 - 12:30	Bilaro A., Gonzales A.
	[160] Geotechnical Parametric Estimation and Susceptibility Analysis of Bicol University East Campus, Legazpi City, Albay, Philippines
12:30 - 12:35	Kyprianou G.
	[118] Fast Fashion and Sustainability Challenges: A Critical Review with Insights from Cyprus

Session 12 | Wastewater treatment (3)

Room: A

15:30 - 15:40	Gajendra N., Török A., Avsar D., Pelkonen M., Dinis M., Vila M., Yilmaz D., Levei E., Ferrando-Climent L. [398] Optimizing biological consortia for mining wastewater treatment
15:40 - 15:50	Atega M., Detras M., Eusebio R., Borines M., Maalihan R., Bautista-Patacsil L. [403] Development of 3D-Printed Permeable Reactive Barrier Adsorbents Utilizing Zeolite Composites for Copper (II) Removal in Acid Mine Drainage
15:50 - 16:00	Rollon A., Lingating R., Pimentel J., Areo H., Ibias K., Mamugay R., Dela Cruz I. [135] Treatment of High-Strength Domestic Wastewater in Anaerobic, Aerobic and Anoxic Fed-Batch Process System
16:10 - 16:20	Milojković J., Wurzer C., Lopičić Z., Šoštarić T., Koprivica M., Vuković N., Masek O. [179] Biochar derived from the invasive aquatic plant <i>Myriophyllum spicatum</i>: Characterization via SEM–EDX and application in lead removal
16:20 - 16:30	Russo A., Oliva A., Cesaro A. [181] Unlocking biomethane and biohydrogen potential of lipid-rich wastewater using anaerobic granular sludge
16:30 - 16:35	Rosil S. [283] Evaluating the Degradation Potential of Alkaliphilic Bacterial Isolate into the Distillate-Derived Strong Alkaline Wastewater from PGME Processes using Batch Experiments
16:35 - 16:40	Ayedi K., Cecchini F., Innocenzi V., Ippolito N., Mazziotti di Celso G., Prisciandaro M.

	[326] Winemaking Wastewater Treatment: Hydrodynamic Cavitation and Coagulation-Flocculation
16:40 - 16:45	Amro H., Abu Sirria A., Ahmad O.
	[268] Simulation of Treatment Process of Greywater from Palestinian Households
16:00 - 16:10	Lee Y., Jeong S.
	[313] Application of Iron Oxide-Coated Membranes in Permeable Block Systems for Advanced Removal of Micro- and Nanoplastics
Session 13 Environmental Biotechnology and Bioenergy Room: B	
15:30 - 15:45	Skiadas I.
	[290] Syngas/CO2 fermentation as a sustainable way forward: the case study of biomethanation in trickle bed reactors
15:45 - 15:55	Ali R., Yde L., Ashraf M.
15:55 - 16:05	[302] Optimized Biomethanation of Hydrogen and Carbon Dioxide via Inoculum Selection and Pre-processing in a Thermophilic Trickle-Bed Reactor Papadopoulou K., Pavlopoulos C., Riglis C., Tsilifonis E., Markopoulou A., Fotopoulos D., Papathanasiou A., Lyberatos G.
16:05 - 16:15	[436] Biogas upgrade with green hydrogen in a semi-pilot trickle bed reactor Ramos A. [18] Assessing the Effect of Temperature and Biomass Composition for Hydrogen Production through Gasification

16:15 - 16:25	Mariniello A., Oliva G., Belgiorno V., Naddeo V., Zarra T.
	[225] Optimization of advanced bio-based carbon capture and utilization system through technological development and comparison
16:25 - 16:35	Karyofyllidou C., Spyridonidis A., Diamantis V., Galiatsatos I., Stathopoulou P., Tsiamis G., Stamatelatos K.
	[414] Biogas upgrade to biomethane in trickling bed reactors: Process optimization under mesophilic conditions
16:35 - 16:45	De Paola S., Cairone S., Oliva G., Cardona G., Zarra T., Belgiorno V., Naddeo V.
	[400] Simulation-based design of pressure swing adsorption for methane and nitrogen separation in biogas upgrading
16:45 - 16:55	Ali A., Ali R., Yde L., Ashraf M.
	[297] Biomethanation of Syngas with a Focus on CO Conversion Using Mixed Microbial Cultures in a Thermophilic Trickle bed Reactor
16:55 - 17:05	Theodosi Palimeri D., Emmanouilidis M., Mousouri F., Lyberatos G., Vlysidis A.
	[175] Optimization of Biogas Production and In-Situ Upgrading via Hydrogenotrophic Methanogenesis in a Lab-Scale UASB Reactor
Session 14 Hydrology and water resources Room: C	
15:30 - 15:45	Arampatzis G.
	[470] Achieving the twin transition in industrial water use: Challenges and breakthroughs
15:45 - 15:55	Sismanidi M., Kokkinaki L., Panagopoulos Y.

15:55 - 16:05	[230] Optimizing the allocation of bioenergy crops within a typical Greek cropping system to balance sustainable biomass production and nitrates water pollution mitigation. Kokkinaki L., Sismanidi M., Panagopoulos Y.
16:05 - 16:15	[231] Optimum selection and placement of agricultural best management practices in Pinios river basin for the mitigation of nitrates water pollution and water scarcity Farmaki P., Tranoulidis A.
16:15 - 16:25	[407] Reclaiming Water: Assessing the Water Resources Released by the Decommissioning of Lignite Facilities in Western Macedonia Avdullahi S.
	[362] Establishing a Groundwater Monitoring Network in the Drini i Bardhe River Basin, Kosovo: A Focus on Water Level and Temperature Monitoring
16:25 - 16:35	Leva L., Mariniello A., Giuliani S., Russo M., De Riso L., Aloia A., Romano G., Naddeo V., Zarra T.
16:35 - 16:45	[335] Advanced and integrated multiparametric tool for proactive and continuous environmental monitoring and control of surface water bodies in sensitive areas Susnik J., Haupt B., Kristensen D., Simpson G., Trabucco A., Roson R., Faizan M.
16:45 - 16:55	[34] System dynamics modelling to explore policy impact in the water-energy-food-ecocsystems nexus in the Inkomati-Usuthu Water Management Area, South Africa Riikonen J., Tiihonen T., Rahmani A., Nissinen T., Haluska O., Tamarov K., Pennanen T., Turhanen P., Vepsäläinen J., Lehto V. [461] On-site elemental analysis of environmental waters using portable XRF
16:55 - 17:00	Harutyunyan A., Singh A., Khachatryan H., Ghazaryan K.

	[198] Comparative hydrochemical assessment of groundwater quality from different aquifers for irrigation purposes: Study area Armavir Region in Armenia
17:00 - 17:05	Susnik J., Avellan T., Munaretto S., La Jeunesse I., Jewitt G.
	[35] The water-energy-food nexus, the relationship with ecosystems, and its role in supporting society
Session 15 Environmental exposures and human health Room: D	
15:30 - 15:45	Gago-Ferrero P., Gutierrez-Martin D., Nika M., Vidal-Sarro N., Bruna J., Majós C., Pons A.
	[27] Exposome, Ultrafine Particles, and Glioblastoma: A New Perspective
15:45 - 15:55	Chowdhury S.
	[234] N-nitrosodimethylamine (NDMA) in Drinking Water: A Probabilistic Health Risk Assessment in Asia
15:55 - 16:05	Soursou V., Andreu Perez V., Picó Y., La Nasa J., Modugno F., Giannarelli S., Campo J.
	[284] The pollution before the flood: Microplastics and PAHs in water, sediment and fish from Júcar River basin (E Spain)
16:05 - 16:15	Klosok-Bazan I.
	[334] Trihalomethanes in Swimming Pools: Modern Strategies for Surveillance and Risk Assessments
16:15 - 16:25	Pandey J., Naaz N.
	[281] Spatial Distribution of Polycyclic Aromatic Hydrocarbons in Ganga River (India) and Health Risk to Human Consumers Through an Edible Fish Labeo rohita

16:25 - 16:35	Nguyen T., Záray G., Endrédi A., Streli C., Ingerle D., Radtke M., Guilherme Buzanich A., Fodor F., Dobosy P.
	[92] Iodine biofortification of red radish (<i>Raphanus sativus</i> L.) cultivating on hydroponic system
16:35 - 16:45	Oliva G., Della Rocca M., D'Amato M., Di Biase E., Zarra T., Naddeo V., Belgiorino V.
	[457] Human Health Risk Assessment and Action Plans for PM10 Pollution: a new integrated methodology for Campania Region (Italy)
16:45 - 16:55	D'Elia L., Roversi S., Pisani S., Montano L., Motta O., Naddeo V.
	[440] Environmental Pollution and the Mediterranean Diet: A Study on Health and Fertility

Friday, 5 September 2025

Session 16 | Advanced Oxidation Processes

Room: A

09:00 - 09:20	Theodorakopoulos G., Tsoukleris D., Athanasekou C., Romanos G., FALARAS P.
	[321] Nanotechnology advances in photocatalytic reactors for water treatment and wastewater reuse
09:20 - 09:35	Choi A., Choi C., Lee H., Han C.
	[462] Treatment of water contaminants of emerging concern with advanced oxidation processes
09:35 - 09:45	Clarizia L.

	[384] Hydrogen Generation from Wastewater-Derived Organics via Solar Photocatalysis Using Low-Cost Cu-TiO₂ Composites
09:45 - 09:55	Sioulas S., Lykos C., Konstantinou I., Albanis T.
	[239] Synthesis and application of Z-Scheme g-C₃N₄/g-C₃N₅ heterotype homojunction for aquatic pollutants degradation
09:55 - 10:05	Tsiarta N., Chatziathanasiou E., Hadjicosti A., Antoniou G. M.
	[157] Mitigating Cyanobacterial Blooms via Ozonation: Insights into Species Sensitivity and Treatment Efficacy
10:05 - 10:15	Roccaro P., Fazzino F., Gagliano E., Santoro D.
	[244] Coupling artificial neural network and fluorescence spectroscopy to control CEC removal during AOPs
10:15 - 10:20	Aboukhater A., Kumar M., Hasan S.
	[153] Novel Heterostructured Holey Graphene-NiTiO₃/TiO₂ Nanocomposite Enabled Photocatalytic Mixed Matrix Membranes for Effective Antibiotics Removal
Session 17 Circular economy and sustainable resources management Room: B	
09:00 - 09:15	Lin C., Mou J., Que Z., Sun Z., Wang X., Molly Meng-Hung L., Cheng S., Leu S., Xu C.
	[437] Zero-waste close-loop biorefinery system for food and yard waste valorization
09:15 - 09:30	Colledani M.
	[477] ReBoat: Circular Systemic Solution for Sustainable Tourism in European Islands by a Movable Plant on a Boat

09:30 - 09:40	Liscio M., Bregoli D., Narang G., Perugini F., Sospiro P.
	[64] Firm Size and Sustainability Certifications: Understanding Business Economic Drivers in Certification Adoption
09:40 - 09:50	Koumpakis D., Michailidou A., Savva C., Vlachokostas C., Barmpalexis P., Achillas C.
	[195] Innovating pharmaceuticals with sustainable 3D printing for personalized healthcare
09:50 - 10:00	Koumpakis D., Vlachokostas C., Savva C., Michailidou A., Barmpalexis P., Achillas C.
	[373] Customizable and Waste-Free Pharmaceuticals: PLA-Carbon Pills from Biomass Pyrolysis via FDM 3D Printing
10:00 - 10:10	Esteves A., Gonçalves A., Vilar V., Pires J.
	[39] Sustainable Optimisation of Microalgal Biomass Production: Insights from the PhotoBioValue Project
10:10 - 10:20	Avdullahi A., Ademi V.
	[363] From Necessity to Conscious Choice: Second-Hand Clothing and the Environmental Impact of the Fashion Industry
10:20 - 10:25	Corpus R., Bayani M., Cansino J.
	[12] Integrating ESG and Social Economy Principles into Philippine Curriculum: A Framework for Sustainable Development
Session 18 Environmental pollution Room: C	
09:00 - 09:10	Dobosy P., Orenibi E., Illés Á., Sandil S., Endrédi A., Szekeres J., Záray G.

	[65] Distribution of lithium and fluorine containing compounds in the Hungarian section of the Danube River
09:10 - 09:20	Tseliou E., Mystrioti C., Xenidis A., Papassiopi N.
	[228] Cynara cardunculus as a sustainable solution for phytoremediation of antimony contaminated areas.
09:20 - 09:30	Skylaki E., Zachariadou A., Genitsaris S., Parinos C., Proios K., Hatzianestis I., Velaoras D., Moustaka-Gouni M., Gogou A.
	[243] PAHs-contaminated water and sediment marine habitats shape microbial diversity and community structure in a eutrophic multi-stressed coastal system
09:30 - 09:40	Andreu V., Campo J.
	[292] The Anthropocene and the wetlands: Pharmaceuticals and trace elements interactions in a Mediterranean wetland (L'Albufera, Spain).
09:40 - 09:50	Puddu M., Beretta G., Saponaro S., Sezenna E.
	[314] Biosurfactants and bioemulsifiers: from contaminated soils to remediation via food-waste valorization.
09:50 - 10:00	Kashyap A., Sonkar V., Thatikonda S.
	[356] Does the Coexistence of Common Antibiotic and Metal Fuel Resistance Genes and Reshape Bacterial Community in Polluted Rivers?
10:00 - 10:10	Yang D., Paiste P., Konist A., Järvik O.
	[409] Multi-Analytical Investigation of Oil Shale and Its Ash Fractions: Trace Element Partitioning and Environmental Implications
10:10 - 10:15	Ivanov G., Dimov A.

	[189] First gravimetric detection of a PFAS contaminant in water
10:15 - 10:20	Wu H., Nikolaou A., Vagi M.
	[401] A preliminary approach for the detection of marine pollutants by UV spectroscopy – application to seawater samples from Mytilene, Greece
10:20 - 10:25	Margaryan G., Singh A., Khachatryan H., Ghazaryan K.
	[200] An Extensive Analysis of Salinity Tolerance of Portulaca oleracea L. for Sustainable Agriculture
Session 20 Wastewater treatment (4) Room: A	
11:30 - 11:40	Avsar D., Pelkonen M., Gajendra N., Angyus B., Dinis M., Vila M., Yilmaz D., Senila M., Ferrando-Climent L.
	[397] Investigation of waste-derived adsorbents for removal of NORM and non-regulated elements from mining wastewater
11:40 - 11:50	Ravina M., Marotta E., Zanetti M.
	[132] Testing adsorption properties of natural zeolites for nutrients in wastewater
11:50 - 12:00	Ciotola E., Esposito G., Pirozzi F., Cesaro A.
	[180] Ultrasound Treatment of Digested Sludge: a dual approach for Energy Recovery and Emerging Contaminant Reduction
12:00 - 12:10	Kharraz J., Hasan S.
	[206] Advancing Membrane Distillation: Multi-Channel Designs for Enhanced Energy Efficiency and Performance

12:10 - 12:20	Abuhatab F., Hasan S.
	[207] Sustainable Desalination Through Eco-Friendly Membrane Technology: Enhancing Performance with Biodegradable Polymers and Green Solvents
12:20 - 12:30	Jimenez N., Cruz M.
	[210] Recovery of Fluoride using Fluidized-Bed Homogeneous Crystallization Process with Aluminum Sulfate as Precipitant; Validation with Industrial Wastewater
12:30 - 12:40	Vallesteros N., Bukuhan G., Caballes J., Ballesteros F.
	[155] Use of wastewater-based epidemiology data in an artificial neural network to estimate type 2 diabetes mellitus prevalence
12:40 - 12:50	Tolentino J.
	[159] Potential Phytoremediation of Municipal Slaughterhouse Wastewater using Native Tanobong Grass (Arundo Naya J. Koeneg ex Steudel)
12:50 - 12:55	Sawalha H., Rjoub I., Yassin M.
	[266] Treatment of Greywater from households in Palestine
12:55 - 13:00	Jabari M., Al-Zaghari A., AL-White Y.
	[267] Greywater Characterization and Treatment Option in Palestine
13:00 - 13:05	Maceda M.
	[259] Sustainable Nature-Based Solution Centralized Sewage Treatment Plant & Septage Collection Project for a First Class Municipality in the Philippines
Session 21 Plastics in the environment	

Room: B

11:30 - 11:40 Záray G., Tserendorj D., Petrics M., Sandil S., Károly Á., Dobosy P.

[63] Microfibers in the Riverine Environment

11:40 - 11:50 Bellopede R., Balestra V., Bortun G.

[68] Microplastics and microfibres in marine environments: characteristics and concentrations in submerged sediments

11:50 - 12:00 Astel A., Piskula P.

[82] Can the Fulton and hepatosomatic indexes be a good indicators of charity of the baltic fish according to microplastics pollution?

12:00 - 12:10 Legan M., Žgajnar Gotvajn A.

[87] Leachates from Recycled PET Plastic Concrete: Phytotoxicity and Characterization

12:10 - 12:20 Apostolidou S., Galinou - Mitsoudi S., Savvidis Y., Papadimitriou C.

[415] Microplastics in the Estuarine Area of the Pineios River: Seasonal Trends and Variability

12:20 - 12:30 Campo J., Alvarez-Ruiz R., Andreu V.

[304] Influence of microplastics in the bioconcentration and depuration of organic pollutants in European eels

12:30 - 12:40 Kontos A., Campanos D., Kouvara K., Geraga M., Xirotagarou P., Papatheodorou G.

[329] Shallow coastal litter in South Aegean Sea islands: abundance and sourcing

12:40 - 12:50	Kouvara K., Xirotagarou P., Christodoulou D., Dimas X., Ioakeimidis C., Geraga M., Papatheodorou G.
	[371] Benthic Marine Litter in Three Greek Gulfs: Are Mean Density Estimates Truly Representative?
12:50 - 12:55	Kamali H., El Khatib A., Nikolaou A., Tzoraki O., Kitsiou D.
	[410] Detection/evaluation tools for plastic pollution: application for coastal areas and streams of Mytilene, Greece
Session 22 Advancing Climate Resilience through Engagement of Citizens: Insights from the CLIMAS Project Room: C	
11:30 - 11:40	Kotrikla A., Fameli K., Polydoropoulou A., Ebrahimi Pour H., Veeckman C., Mpontozis D., Priniotaki G., Mačiulienė M., Gulevičiūtė G., Rahman A., Di Ciommo F., Kovaitė K., Skaržauskienė A.
	[454] Citizen-Collaborative Future Scenario Building Methodology
11:40 - 11:50	Priniotaki G., Fameli K., Kotrikla A., Polydoropoulou A., Mpontozis D., Di Ciommo F., Rahman A., Skaržauskienė A., Mačiulienė M., Gulevičiūtė G.
	[442] Empowering Participatory Climate Governance: The CLIMAS Toolbox for Citizen-Driven Adaptation Strategies in Europe
11:50 - 12:00	Fameli K., Kotrikla A., Polydoropoulou A., Priniotaki G., Mpontozis D., Di Ciommo F., Skaržauskienė A., Mačiulienė M., Gulevičiūtė G.
	[443] Evaluation Approach & Impact of Climate Assemblies
12:00 - 12:10	Fameli K., Kotrikla A., Polydoropoulou A., Priniotaki G., Mpontozis D., Mačiulienė M., Gulevičiūtė G., Hoffman J., Schaefer C., Apine A., Strazdiņa I., Di Ciommo F.
	[218] Measuring the Impact of Climate Assemblies Through Participant Surveys

12:20 - 12:30	Orfanou A., Alexopoulos C., Karelis C., Klontza E., Lekkas D., Charalalabidis Y.
	[451] Estimation of Carbon Footprint using citizen science: Insights from COMPAIR project
12:20 - 12:30	Orfanou A.
	[452] The “waste management generation” factor: A critical parameter for assessing the carbon footprint of the hospitality industry
Session 24 Life Cycle Analysis (LCA) Room: A	
16:00 - 16:10	Ahmed S., Liscio M., Sospiro P., Voukkali I., Zorpas A.
	[48] Advancing Organisational Life Cycle Assessment in the Fashion Industry: Strategies for Sustainable Corporate Practices
16:10 - 16:20	Karolinczak B., Żubrowska-Sudoł M.
	[137] LCA of methods increasing energy self-sufficiency of small wastewater treatment plants
16:20 - 16:30	Maccanti M., Spinelli D., Ciolpan E.
	[138] Development of industrial bio-based systems: BIORADAR Project
16:30 - 16:40	Savva C., Vlachokostas C., Mertzanakis C., Michailidou A., Toufexis C., Koumpakis D., Koidis C., Kalaitzidis A., Makavou K., Aidonis D., Achillas C.
	[222] Enhancing Agricultural Sustainability and Certification through Real-Time LCA: A Case Study on Circular Economy in Wheat Production
16:40 - 16:50	Roussis P., Vasileiou E., Lazaridou I., Karanika A., Skarvelis P., Vourdas N., Alexopoulos N.

	[331] Economic analysis and environmental impact of anti-corrosive protection systems in a full-scale aeronautical fuselage part from aluminium – copper – lithium alloy
16:50 - 17:00	Savva C., Michailidou A., Vlachokostas C., Koumpakis D., Toufexis C., Kandylakis C.
	[376] From Biogas to Propulsion and Power: A Life Cycle Perspective on Fuel Synthesis and CHP Integration
17:00 - 17:10	Gievers F., Walz M., Loewe K.
	[216] Environmental impacts of cereal straw pellets in biogas systems: A comparative life cycle assessment
17:10 - 17:15	Eker S., Çokay E.
	[114] Environmental and Economic Evaluation of Biohydrogen Production from Various Feedstocks
Session 26 Environmental data analysis and modelling Room: C	
16:00 - 16:15	Berti-Equille L., Nwachukwu P.
	[53] Forest Resilience, Precipitation, and Ecosystem Service Value: A Correlation and Trend Analysis
16:15 - 16:25	Alexakis K., Benekis V., Kokkinakos P., Askounis D.
	[309] Towards Optimal Building Retrofits: A Multi-Objective Optimisation Framework Using Genetic Algorithms and EnergyPlus
16:25 - 16:35	Aristovnik A., Ravšelj D., Babšek M.
	[382] Artificial Intelligence in Public Administration for Environmental Sustainability: An Integrative Review of Research and Practice

16:35 - 16:45	Relvas H., Martins V., Lopes D., Cirne P., Miranda A.
	[317] A Spatial Platform for Predicting Health Impacts of Air Pollution
16:45 - 16:55	Cairone S., Zarra T., Belgiorno V., Yip N., Naddeo V.
	[359] Advancing Temperature Swing Solvent Extraction Desalination with Machine Learning
16:55 - 17:00	Elhag M.
	[241] Quantification of Land Subsidence/Uplifting Using SBAS-InSAR in Arid Environments: Showcase Industrial Area of Dhahran, Saudi Arabia

Saturday, 6 September 2025

Session 27 | Water and wastewater reuse

Room: A

09:00 - 09:15	Antoniou M., Nikoletta T., Chatziathanasio1 E., Hadjicosti A., Yan Y., Fotidis I., Neofytou G., Chrysargyris A., Tzortzakis N., Konkel R., Mazur Marzec H.
	[156] CYANOTECH Project: Sustainable management of toxic cyanobacteria in surface waters
09:15 - 09:30	Choi J., Mun J., Park H., Mamede N., Kim J., Corpuz M., Naddeo V., Choo K.
	[224] Electroactive nanowire membranes for enhanced membrane fouling control and phosphorus removal in membrane bioreactors
09:30 - 09:40	Vullo S., Bonanno G., Vagliasindi F., Roccaro P.
	[183] Development of a multi-factorial model to assess the sustainability of

	irrigation wastewater reuse: application to case studies in Sicily
09:40 - 09:50	Sarasidis V., Plakas K., Petsi P., Sioutopoulos D., Patsios S.
	[260] Hollow fiber nanofiltration for water and solute recovery from industrial effluents
09:50 - 10:00	Merlet G., Guarda D., Garrido M., Romero J., Quijada-Maldonado E.
	[352] Development of asymmetric membranes modified with ionic liquids for the recovery of aromas and fragrances from model agricultural residues to be used in pervaporation processes
10:00 - 10:10	Kallikazarou N., Yan Y., Nisiforou O., Shang Q., Fu D., Fotidis I., Antoniou M.
	[418] Holistic Assessment of Struvite Production from Real Wastewater: Bridging Laboratory Research and Market Implementation
10:10 - 10:20	Umiejewska K., Malarski M., Miszta-Kruk K., Żubrowska-Sudoł M.
	[84] Rainwater quality and reuse for small subcatchment - case study
Session 28 Energy technologies and renewable energy sources Room: B	
09:00 - 09:10	Dutournie P., Scuiller E., Guicheney G.
	[23] Thermochemical Heat Storage: heat and mass transfer modelling in the reactor
09:10 - 09:20	Panagiotakis I., Astara Z., Shala B., Gjinolli P., ALEXOPOULOS I., Bejraktari E., Elshani A.
	[422] Using the EU Environmental Permitting Framework to Promote the Energy Transition in the Western Balkans – The Case of Kosovo
09:20 - 09:30	Liobikiene G.

	[174] Whether the electricity consumption and related behaviour influence the choice of green electricity considering the context of military conflict in Ukraine and environmental concern
09:30 - 09:40	Pelda J.
	[197] sim4dhs - Algorithm for the thermohydraulic simulation of district heating systems: Identification of optimal locations for additional heat sources
09:40 - 09:50	Pajdak A., Gajda A., Jodlowski P., Kudasik M., Koziel K., Aniol Ł., Kurowski G., Hyjek K.
	[286] Metal organic frameworks MOF (Cu, Co, Ni) integrated with a heat exchanger as low-energy adsorption systems
09:50 - 10:00	Kudasik M., Koziel K.
	[289] CO₂/CH₄ exchange studies on shales to assess the potential for CO₂-Enhanced Shale Gas Recovery
10:00 - 10:05	Porzig M., Schulte S., Clemens W., Wern B., Ichwan M., Widodo M.
	[261] EnaTex - Energy Efficiency in Textile Production in Indonesia
10:05 - 10:10	Corpus R., Bayani M., Galang J.
	[11] Time Series Analysis for Renewable Energy Forecasting in the Philippines: Enhancing the Reliability and Efficiency of Intermittent Energy Sources
10:10 - 10:15	Kondili E., Kaldellis J.
	[254] Land: A critical resource in the energy transition. Perspectives and limitations.
Session 29 Agroforestry, Forest and Agricultural Sustainability Room: C	

09:00 - 09:10	El Ouardighi F., Gnecco G., Khmel'nitsky E., Sanguinetti M.
09:10 - 09:20	[318] Equilibrium strategies for forest restoration via an approach based on dynamic games Vázquez-Miramontes D., Santiago-Freijanes J., Ferreiro-Domínguez N., Rigueiro-Rodríguez A., Mosquera-Losada M.
09:20 - 09:30	[95] COMPAS: Pyric herbivory and precision livestock farming as a tool for landscape management Vázquez-Miramontes D., Santiago-Freijanes J., Ferreiro-Domínguez N., Rigueiro-Rodríguez A., Mosquera-Losada M.
09:30 - 09:40	[97] Silvopastoralism as a tool for enhancing forest resilience: LIFE SILFORE demonstrations in Galicia Papadopoulos A., Pantera A., Palaiologou P., Zografakis S.
09:40 - 09:50	[293] History of Forest fires and resin tapping as a tool in the management of the Varibobi forest Mosquera-Losada M., Rodríguez-Rigueiro F., Couso-Viana A., Cavoski I., Ferrari A., Rotllan-Puig X., Soto-Embodas I., Pantera A., Saia S., Tataridas A., Freitas H., Hosseini A., Zander P., Fountas S., Seremetis I., Rodríguez-Aubo N., Ferreiro-Domínguez N.
09:50 - 10:00	[99] SUS-SOIL: Revitalizing Subsoil Health for Sustainable Agriculture and Ecosystem Resilience in the EU Couso-Viana A., Rodríguez-Rigueiro F., Ferreiro-Domínguez N., Hosseini A., Valiño E., Fournarakos A., Fountas S., Pantera A., PAPADOPOULOS A., Casey J., Zander P., Ciolfi M., Paris P., Aldrey-Vázquez J., Taboada-Iglesias M., Rigueiro-Rodríguez A., Fernández-Lorenzo J., González-Hernández M., Romero-Franco R., Mosquera-Losada M. [78] AF4EU Buzz: Unveiling Beekeeping Value Chain and Sustainable Agroforestry Practices in the EU

10:00 - 10:10	Mosquera-Losada M., Couso-Viana A., Rodríguez-Rigueiro F., Vlontzos G., Avila J., Soto-Embodas I., Kleftodimos G., Hosseini A., Zander P., Fountas S., Rodríguez-Aubo N., Duan Z., Xinxin Z., Guo L., Min L., Ferreira-Domínguez N. [81] Fostering Rural Innovation and Sustainability with GREENCOOP
10:10 - 10:20	Couso-Viana A., Ferreira-Domínguez N., Santiago-Freijanes J., Zarina D., Girardi J., Dragičević V., Simic M., Brankov M., Sanna F., Sulas L., Travlos I., Antonopoulos N., Osuna M., Tataridas A., Freitas H., Mosquera-Losada M. [93] GOOD for Weeds: Building an Agroecological Weed Management Network
10:20 - 10:30	Rodríguez-Rigueiro F., Ferreira-Domínguez N., Santiago-Freijanes J., Rigueiro-Rodríguez A., Couso-Viana A., Vázquez-Miramontes D., Mosquera-Losada M. [94] Unlocking the Potential of Operational Groups in Sustainable Weed Management: The Oper8 Project
Session 30 Recycling of materials to new products Room: D	
09:00 - 09:10	Elsebaei M., Mavroulidou M., Michael A., Centeno M., Shamass R., Rispoli O. [149] Use of waste dealuminated metakaolin in alkali-activated cement mixes
09:10 - 09:20	Sanna A., Armas C., Serici M., Artizzu F., Marchiò L., Serpe A. [86] Towards a Sustainable Future: Circular Strategies for Critical Raw Materials Recovery from End-of-Life Magnets
09:20 - 09:30	Dagiliūtė R., Žaltauskaitė J., Sujetovienė G. [127] From waste to treasure: boosting upcycling of critical raw materials from hard disk drives
09:30 - 09:40	Sirot R., Diaz L., Baccay M.

	[144] Determination of Highly-Circular Upcycled Plastic Products in the Philippines Through Product Circularity Assessment
09:40 - 09:50	Roccaro P., Vagliasindi F.
	[245] Volcanic ash recovery and valorization
09:50 - 10:00	Alexopoulos N., Vasileiou E., Lazaridou I., Metaxa Z., Prokopiou V., Filippidis A., Zeimpekis V.
	[354] Environmental and economic assessment of the reuse of expanded polystyrene (EPS) waste as an aggregate substitute in cement mortar
10:00 - 10:10	Mavroulidou M., Gunn M., Joshi S., Sanam I., Murad M., Garelick J.
	[150] Feasibility of peat soil stabilisation with solid waste material inclusions and biocementation treatments
10:10 - 10:20	da Silva C., Batista S., Fonseca P., Gomes A.
	[456] Designing for Disassembly and Reuse: A Modular Repair Model Proposed in the Manual of Good Practices for the Production and Recycling of Waste from Electrical and Electronic Equipment
Session 32 Water treatment Room: A	
11:30 - 11:40	Saporsantos N., Dela Cruz I., Perez J.
	[10] Kinetics and Isotherm Studies of Methyl Orange Adsorption using Metal Organic Framework-based Composite Beads Functionalized with Polyethyleneimine
11:40 - 11:50	Chowdhury S.
	[235] Machine Learning (ML) Applications in Water Treatment: Possibilities and Advantages

11:50 - 12:00	Roccaro P., Marino L.
	[246] Development of fluorescence sensors for DBPs control in drinking water
12:00 - 12:10	Zhang H., Zalaria J., Georgi A.
12:10 - 12:20	[355] The Smart Hydrogels for the Controllable Adsorption and Desorption of PFAS Meropoulis S., Aggelopoulos C.
12:20 - 12:30	[360] Optimizing Plasma Bubbles at Pilot Scale for Organic Pollutant Degradation in Water Pacala A., Neidoni D., Negrea S., Tenea A., Dinu C., Stefanescu M.
12:30 - 12:40	[389] Performance Of Preoxidation And Coagulation In Arsenic Removal From Groundwater For Human Consumption In A Small Rural Community In Western Romania Baccini L., Vagliasindi F., Korshin G., Roccaro P.
12:40 - 12:45	[404] Exploring the applicability of differential absorbance to simultaneously quantify and control microbial inactivation and DBPs formation Pereira A., Gomes I., Simões M.
	[19] The role of methylparaben as an environmental contaminant in enhancing the pathogenicity of drinking water bacteria
Session 33 Circular economy in agriculture and food systems (1) Room: B	
11:30 - 11:45	Pedullà A., Ferreri M., Pangallo D., Calabrò P.
	[33] Sustainable production of Omega-3-rich fish oil from Tuna by-products using

	green extraction process
11:45 - 11:55	Arhin S., Esposito G., Cesaro A.
	[203] Fish waste valorization route: production of biohydrogen and volatile fatty acids under different process conditions
11:55 - 12:05	Marra S., Silvestri B., Cesaro A., Matassa S., Luciani G., Virginia V., Maraviglia C.
	[211] Electrospun microbial protein and cellulose acetate nanocomposite fibers for heavy metals-contaminated water remediation
12:05 - 12:15	Savva C., Michailidou A., Mertzanakis C., Vlachokostas C., Toufexis C., Koumpakis D., Koidis C., Kalaitzidis A., Makavou K., Aidonis D., Achillas C.
	[365] A Circular Approach to Wheat Residue Management: Lab-Scale Production of Biofuels
12:15 - 12:25	Economou F., Voukkali I., Phinikettou V., Zorpas A.
	[417] Assessing Methodologies for Measuring Food Loss in Tomato Cultivation: A Field Study in Cyprus
12:25 - 12:35	Christodoulou M., Vasiliades M., Tsiampartas A., Stylianou M., Agapiou A.
	[71] Optimizing Biochar from Palm Tree Waste for VOC Mitigation in Cattle Farms
12:35 - 12:45	Pedullà A., Calabrò P.
	[465] Impact of Carbon-Based Materials on the Anaerobic Digestion of Citrus Processing By-product
12:45 - 12:55	Paraschou M., Sergaki P., Kalogeras N., Nastis S., Charatsari C., Michailidis A., Mattas K.
	[379] Sustainability and Accountability in Agricultural Cooperatives: The Case of

	ZAGORIN through the GRI Lens
Session 34 Environmental Impact of Maritime Transport – NAVGreen Room: C	
11:30 - 11:40	Bautista-Chamizo E., Cabrera-Bayarri M., Nebot E., Moreno-Andrés J.
	[445] Study of the Ecotoxicological Effects of Metals from Scrubber Washwaters on Aquatic Biota
11:40 - 11:50	Klontza E., Lekkas D., Zervakis V., Polydoropoulou A.
	[453] Monitoring ship-generated waste in Greek ports using ECOMARPOL platform
11:50 - 12:00	Kolovoyiannis V., Mazioti A., Potiris M., Mamoutos I., Krasakopoulou E., Tragou E., Zervakis V., Majamäki ., Hänninen R., Sofiev M., Fridell E., Kukkonen J., Jalkanen J., Poupkou A., Liora N., Skylaki E., Parinos C., Gogou A., Mihalopoulos N., Zerefos C.
	[458] Maritime transport impact on pollution in Saronikos Gulf: modelling, insight and perspectives from two research projects.
12:00 - 12:10	Kotrikla A., Remoundos G., Lekakou M., Polydoropoulou A., Papaioannou G., Katsounis G., Fameli K., Assimakopoulos V., Grivas G., Mihalopoulos N., Liora N., Poupkou A., Progiou A., Zerefos C., Grigoriadis A., Tsebas G., Fragkou E., Ntziachristos L.
	[250] Ship electrification as a pathway to decarbonize shipping: The case of Perama-Salamina line
12:10 - 12:20	Carnimeo D., Stamatopoulou E., Mohr A., Gagić R., Nikolic D., Metalla O., Stefanucci A., Ventikos N.
	[361] Assessing Knowledge Gaps about Shipping Emissions: Designing Educational Programs for Sustainable Maritime Logistics for Future Professionals in Albania & Montenegro

12:20 - 12:30	Katsos P., Angeliki S., Ventikos N., Themelis N., Apostolakos G., Toliopoulos T., Skalidi I., Gounaris A.
	[472] From Weather to Waypoints: Predicting Fuel Consumption and Optimizing Maritime Routes with ML and Graph Search
12:30 - 12:40	Polydoropoulou A., Papaioannou G.
	[474] Towards market-oriented measures for reducing the emissions of maritime passenger transport: Assessing potential business models
Session 35 Reuse and resources recovery Room: D	
11:30 - 11:45	Mannina G., Mineo A.
	[306] Direct PHA production from sewage sludge: a scalable strategy for wastewater resource recovery
11:45 - 11:55	Bellopede R., Mori de Oliveira C., Giardino M., Marini P.
	[107] Optimization of copper recovery from Printed Circuit Boards
11:55 - 12:05	Bruno M., Francia C., Baldo C., Fiore S.
	[134] Lithium recovery from lithium-ion batteries: technical and environmental analysis
12:05 - 12:15	Maia C., Loureiro J., Soares O., Pereira M., Pires J.
	[110] A Magnetic Approach to Sustainable Chlorella vulgaris Harvesting: Methods and Applications
12:15 - 12:25	xu c., Alao P., Adamopoulos S.

	[296] Properties of Thermo-Mechanically and Steam-Treated Recycled Wood Fibers from Post-Consumer Waste and Processing Residues
12:25 - 12:35	Lithourgidis A., Tzenos C., Tsitsimpikou M., Pitsikoglou D., Fotidis I., Kotsopoulos T.
	[366] Enhancing industrial symbiosis in the value chain of anaerobic digestion
12:35 - 12:45	Butvilas T., Kovaitė K., Šūmakaris P.
	[380] Integrating Citizens' Engagement Model into The Circular Economy: A Multidimensional Approach to The Recycled Construction Materials Usage
12:45 - 12:55	Ramalingam K., Fillos J., Halim D., Tam T., Hoffman J.
	[223] Valorization of organic biosolids at New York City Water Resource Recovery Facilities
Session 37 Micropollutant Removal and Circular Water Reuse: Challenges and Opportunities under the Revised Urban Wastewater Treatment Directive Room: A	
16:05 - 16:15	Ubiña L., Guía R., Aquino C., Somera L., Balela M., Beltran A., Cornista J., Bautista-Patacsil L.
	[395] Adsorption of Ciprofloxacin by Sugarcane Bagasse Activated Biochar in Aqueous Solution
15:30 - 15:45	Verlicchi P., Grillini V., Galletti A.
	[17] Quaternary treatments in the upgrading of wastewater treatment plants: micropollutant removal and operation reliability
15:45 - 15:55	Roccaro P., Gagliano E., Falciglia P., Zaker Y., Karanfil T.
	[393] Microwave regeneration of granular activated carbon can destroy PFAS

15:55 - 16:05	Subirats J., Brown L., Marizzi A.
	[112] Metagenomic analysis of urban wastewater resistome and mobilome: Implications for Reclaimed Water Safety in Agriculture.
16:15 - 16:25	Marino L., Gagliano E., Santoro D., Rocco P.
	[390] Removal of organic micropollutants by quaternary treatments controlled by optical sensors
16:25 - 16:35	Corpuz M., Gianattasio A., Buonerba A., Sannino F., Vigliotta G., Choo K., Belgiorno V., Naddeo V.
	[439] Sustainable removal of contaminants of emerging concern from wastewater by the living membrane bioreactor: effect of the co-occurrence of microplastics and antibiotics
16:35 - 16:40	Pino-Soto L.
	[164] Revalorized Reverse Osmosis Membranes: A Sustainable Solution for Gray Water Treatment
16:40 - 16:45	Mariam O., Shadi H.
	[264] Performance of Electrified MXene Membranes in Real Wastewater Applications
Session 38 Circular economy in agriculture and food systems (2) Room: B	
15:30 - 15:40	Moldes A., Lvova K., González-Fernández N., López-Prieto A., Vecino X., Pérez-Cid B., Cruz J.
	[60] Evaluation of Aneurinibacillus aneurinilyticus isolated from corn steep liquor as source of Biosurfactants, Gramicidin S and Polyhydroxyalkanoates

15:40 - 15:50	Ferreiro-Domínguez N., Álvarez-López V., Lado-Liñares M., Santiago-Freijanes J., Mosquera-Losada M.
	[62] Sustainable crop management through the use of biochar and manure based biofertilizers
15:50 - 16:00	Satya S., Kaushik G.
	[111] Exploring the Role of Soil Microbes in Integrated Nutrient Solubilization and Pesticide Biodegradation for Advancing Sustainable Agriculture
16:00 - 16:10	Mnatsakanyan M., Hovhannisyan S.
	[173] Utilization of Komagataeibacter xylinus for Bacterial Cellulose Production from Food Waste: A Sustainable Approach for Reducing Agricultural Pesticide Use
16:10 - 16:20	Tlustos P., Lestan D., Mercl F., Taisheva A.
	[232] Combined sludge treatment can improve their field application.
16:20 - 16:30	Xu F., Lyons Ceron A., Neshumajev D., Konist A.
	[405] Bio-oil production from biomass pyrolysis via a hybrid mathematical and machine learning approach
Session 39 Transportation and the environment Room: C	
15:30 - 15:40	Ahmed S., Sospiro P., Vangi D., Gulino M., Laschi M.
	[49] Navigating Urban Spaces: The Enablers and Barriers of Micromobility
15:40 - 15:50	Ahmed S., Sospiro P., Gulino M., Laschi M., Vangi D.
	[51] Advancing Electric Vehicle Technology: Evaluating Supercapacitors Versus

	Batteries
15:50 - 16:00	Del Rosario B., Ballesteros F.
	[146] Development of a Standardized Greenhouse Gas Quantification Template for the Philippine aviation industry
16:10 - 16:20	Corpus R., Bayani M.
	[7] Development and Validation of a Representative Driving Cycle for Metro Manila: A Data-Driven Approach to Assess Vehicle Emissions and Inform Emission Reduction Strategies
16:20 - 16:30	Corpus R., Bayani M., Israel A.
	[13] Optimization of Drive Cycle Generation for Green Route Planning in the Philippines: A Data-Driven Approach to Mitigating Urban Vehicle Emissions
Session 40 Heavy metals in the environment Room: D	
15:30 - 15:40	Almalvez J., Chang H., Zhao Y., Wu L., Ballesteros F., Wu S.
	[80] Effect of different metals on the chromate reductase activity of Magnetospirillum gryphiswaldense MSR-1
15:40 - 15:50	Almalvez J., Chang H., Zhao Y., Wu L., Ballesteros F., Wu S.
	[91] Salinity on growth and chromium reduction abilities of Magnetospirillum gryphiswaldense MSR-1
15:50 - 16:00	Lanzerstorfer C.
	[120] Concentration ratio of copper to antimony in dust - an indicator for brake dust?

16:00 - 16:10	Pamintuan Jr. G., Ballesteros F.
	[124] Mining-Influenced Waters at the Carmen Copper Mine in Toledo City, Cebu Province, Philippines
16:10 - 16:20	Pamintuan Jr. G., Urquico J., Mendoza A., David J., Loayon R., Sapera-Blanco R.
	[125] A Review of the State of Mining-Influenced Waters in an Old Philippine Copper-Gold Mine After Ten Years of Mining
16:20 - 16:30	Gkaragkouni A., Dimas X., Chrostodoulou D., Sergiou S., Geraga M., Papatheodorou G.
	[320] A 50-Year Meta-analysis review of metal pollution in sediments of the N. Saronikos Gulf, Salamina Straits.

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