



Sunday 1 Oct		Grand Arsenal (Chania old port)
	17:30	Registration desk open
	18:00 - 20:00	Welcome reception

O = Oral presentation: 10 min talk + 4 min Q&A + 1 min buffer (Speaker change)
F = Flash Oral presentation: 4 min talk + 1 min buffer (Speaker change)

Monday 2 Oct		IMPERIAL MAIN HALL	IMPERIAL ROOM 1	IMPERIAL ROOM 2
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<p>Knowledge Transfer Event (lobby area)</p> <p>SEALIVE</p> <p>Strategies of Circular Economy and Advanced bio-based solutions to keep our Lands and seas ALIVE from plastic contamination</p> <p>ISOTECH Ltd AKTI Project & Research Center</p>	08:00 - 09:00	Registration (lobby area)			
	PLENARY SESSION I Chair: Alexandros Stefanakis				
	09:00 - 09:15	CONFERENCE OPENING AND WELCOME Alexandros Stefanakis, IEES President			
	09:15 - 09:30	WELCOME MESSAGES Professor Michalis Zervakis (TUC Rector) Ioannis Malandrakis (Mayor of Platani Municipality)			
	09:30 - 10:15	KEYNOTE: Nature-based Solutions for Wastewater Treatment and Application of Circular Economy strategies Fabio Masi (Iridra Srl, Italy)			
	10:15 - 10:45	Coffe break (lobby area)			
		Session A1: Circularity in the built environment Chair: Mateus Dina & Schubert Hendrik	Session A2: Social dimension of NBS Chair: Pagano Alessandro & Johannes Heeb	Session A3: Resource recovery from water Chair: Raffael Känzig + Gajewska Magdalena	
	10:45 - 11:00	(O-099) A spatial perspective on circular economy and the construction sector within Flanders (Belgium) Pisman Ann (Belgium)	(O-030) Methodological approach for assessing the effectiveness of co-creation processes of Nature-based solutions: The case-study application of CLEVER Cities project. Mahmoud Israa (Italy)	(O-040) Production and recovery of orthophosphate from phosphate-contaminated wastewater combining ozonation and ultraviolet advanced oxidation processes Ji Yuxian (Belgium)	
	11:00 - 11:15	(O-021) Valorisation of the stabilized organic fraction of mixed municipal waste as building materials within a circular economy Santos Michael M. (Portugal)	(O-112) Why there are not more Nature-Based Solutions implemented in European cities: A Stakeholder Analysis Pineda-Martos Rocío (Spain)	(O-119) Framework elaboration for the development of hybrid modelling for resource recovery from municipal wastewater and impact mitigation in Gotland/SE (R) Francisco Erika Cristina (Sweden)	
	11:15 - 11:30	(O-014) Formalising the temporal aspect of timber component reusability in a circular construction indicator Anastasiades Kostas (Belgium)	(O-087) The use of Participatory System Dynamics Modelling to support 'Nexus doing': preliminary results from the Koiliaris (Greece) case study Pagano Alessandro (Italy)	(O-044) Exploring the potential of cyanobacterial microbiomes for sustainable bioproducts Joan Garcia (Spain)	
	11:30 - 11:45	(O-135) Waste to construction: A novel Hempcrete product research Meir Isaac (Israel)	(O-152) Multi-criteria tool for Nature-based Solutions and Bioeconomy practices selection towards WEF Nexus implementation: the case of Tinos island Tsatsou Alexandra (Greece)	(O-048) Electrocoagulation flotation treatment technology in perspective of resource recovery and reuse of municipal wastewater in different regions of the world Hassan Nazia (Belgium)	
	11:45 - 12:00	(O-096) Why edible cities? Regelsberger Martin (Austria)	(O-163) Tiganokini: social innovation through the collection and recycling of domestic used cooking oil in Cyprus Peta Demetra (Cyprus)	(O-134) Sidestream sulphide-driven denitrification as robust solution to enable resource recovery in a large-scale industrial WWTP Polizzi Cecilia (Italy)	
	12:00 - 12:05	(F-016) Plant-based biocides for the sustainable conservation of built heritage – Field experiments Mateus Dina (Portugal)	(O-009) Combining public participation, participatory design and AI to promote integrated planning approaches Dyer Mark (New Zealand)	(O-069) Recovery of resources and generation of valuable products from municipal wastewater – assessment of products quality Krzeminski Pawel (Norway)	
	12:05 - 12:10	(F-034) Advancing circular economy in the built environment: The CircularB Action Pineda-Martos Rocío (Spain)			
	12:10 - 12:15	(F-057) Biomimicry in architectural design in a holistic design process Nowak Anna (Poland)			
	12:15 - 13:45	Lunch time!			
		Session A4: Novel designs of Constructed Wetlands Chair: Uggetti Enrica & Jan Vymazal	Session A5: The impact of urban NBS on public health and well-being Chair: Kolokotsa Dionysia & Mahmoud Israa	Session A6: Circular design for increased resilience I Chair: Filippos K. Zisopoulos & Goonetilleke Ashantha	
	13:45 - 14:00	(O-104) The integrated constructed wetland design approach: A review Harrington Rory (Ireland)	(O-008) On the integration of nature-based solutions for health and wellbeing in two European Cities: The case studies of Dundalk and Skelleftea Kolokotsa Dionysia (Greece)	(O-083) Bioregional approach for circular design: case study in Roma via Guido Reni (Italy) Francesca Dora (Italy)	
	14:00 - 14:15	(O-095) Efficiency removal of specific substances in multistage treatment wetland for urban drainage water Gajewska Magdalena (Poland)	(O-110) Measuring the impact of Nature-Based Solutions on citizens' health and well-being: risks and challenges of using wearable devices Biesaga Mikotaj (Poland)	(O-085) El Remanso experimental center in Choachi-Colombia, A laboratory Eco-Village to learn and co-build Rojas Hector (Mexico)	
	14:15 - 14:30	(O-100) Removal performance of different types of bioelectrochemical constructed wetlands for dairy wastewater treatment Kotsia Dimitra (Greece)	(O-088) Greenness visibility in urban living environments as pathway to promote health and well-being: mapping spatial differentiation in Flanders (Belgium) based on viewshed analysis Vervoort Peter (Belgium)	(O-185) Advancing sustainability in industrial supply chains by embracing circular approaches and digital transformation Maria Aryblia (Greece)	
14:30 - 14:45	(O-171) Performance of pilot-scale constructed wetlands with different designs and substrates treating olive mill wastewater Dimitra Moschogianni (Greece)	(O-151) Urban greenery's effects on public health and wellbeing of citizens and how to assess it – preliminary euPOLIS findings Randelovic Anja (Serbia)	(O-162) Eco-traditional buildings in Makkah: Al-Byaddiah Palace as a case study Faredah Almurahhem (Saudi Arabia)		
14:45 - 14:50	(F-052) Floating constructed wetlands based on recycled polymers to restore aquatic ecosystems López Daniela (Chile)	(O-155) Innovative urban solutions to enhance public spaces and promote good public health and wellbeing - the case studies of euPOLIS and VARCITIES Randelovic Anja (Serbia)	(O-184) Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations – Experience from AquaSPICE project Arampatzis Goerge (Greece)		
14:50 - 14:55	(F-009) Selecting innovative substrates materials: characterization and potential application for enhancing CWs sustainability Ventura Delia (Italy)				
14:55 - 15:00	(F-017) Smart monitoring of waste-filled constructed wetlands for the removal of nutrients from wastewater with low carbon content Pinho Henrique (Portugal)				
15:00 - 16:00	Coffe break (lobby area) & Poster session				
	Session A7: Sludge management Chair: Alexandros Stefanakis & López Daniela	Session A8: Sustainable Drainage Systems Chair: Frank van Dien & Tsatsou Alexandra	Session A9: Circular water economy Chair: Simos Malamis & Tjasa Griessler Bulc		
16:00 - 16:15	(O-032) A pilot study of domestic sewage sludge dewatering using Sludge Treatment Reed Beds in Oman Al-Rashdi Tahra (Oman)	(O-076) Blue-green infrastructure in highly urbanized areas - practical design examples Rous Vit (Czech Republic)	(O-159) Water companies and circular economy: Challenges and opportunities Kotsifaki Christina (Greece)		
16:15 - 16:30	(O-133) Sludge Treatment Constructed Wetland: a solution for treating sewage sludge for agricultural reuse Uggetti Enrica (Spain)	(O-150) Sustainable drainage systems (SuDS) for rainwater harvesting and stormwater management in temporary humanitarian settlements Tota-Maharaj Kiran (United Kingdom)	(O-114) Water recovery in swimming pools in accordance with the assumptions of the circular economy Kudlek Edyta (Poland)		
16:30 - 16:45	(O-173) DIALKOP project: design and operation optimization of Sludge Treatment Reed Beds in Greece Ioannis Asimakoulas (Greece)	(O-149) Experimental study and modelling of granular filter media used within SuDS for stormwater purification Tota-Maharaj Kiran (United Kingdom)	(O-153) Water quality monitoring of recycled water using effect-based bioassays – a tool for the circular economy Schoenborn Andreas (Switzerland)		
16:45 - 17:00	(O-067) Fate of pit latrine sludge buried in entrenchments Bakare Babatunde Femi (South Africa)	(O-023) Assessment of the potential for microplastic retention in mature SuDS Calzadilla Cabrera Dario (Spain)	(O-136) Greywater treatment and reuse in a residential building in Zurich, Switzerland: Evaluation of the treatment performance and user acceptance Vischer Tabea (Switzerland)		
	PLENARY SESSION II Chairs: Alexandros Stefanakis & Raffael Känzig				
17:00 - 17:45	30 years of IEES (all participants invited!)				

Tuesday 3 Oct		IMPERIAL MAIN HALL	IMPERIAL ROOM 1	IMPERIAL ROOM 2
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	08:30 - 09:00	Registration (lobby area)		
		Session B1: Resource recovery and reuse from waste Chair: Antonopoulou Georgia & Ashley Hall	Session B2: Green roofs and walls Chair: Michael Ruby & Pineda-Martos Rocío	Session B3: Sustainable management of waste biomass Chair: Asli Isci Yakan & Timo Steinbrecher
	09:00 - 09:15	(O-124) Development of a beach management technology solution to monitor and mitigate plastic marine littering Tzanetou Dimitra (Greece)	(O-144) If you build it, they will come: invertebrates on green roofs Michael Ruby (Australia)	(O-027) Deep eutectic solvent pre-treatment of residual biomass streams - effects on anaerobic degradability Schultz Jana (Germany)
	09:15 - 09:30	(O-066) Turning a nuisance into a resource: options and obstacles for sustainable use of beach wrack derived from case studies Schubert Hendrik (Germany)	(O-128) Proposing a holistic experimental setup for green roof flammability testing Chell Sylvie (Australia)	(O-053) Transforming biogenic waste through anaerobic digestion in achieving the circular economy Fan Chihhao (Taiwan)
	09:30 - 09:45	(O-138) Location-based resource analysis tool for waste management and makers: a case study of Pop-Machina Conserva Andrea (Spain)	(O-168) On the influence of plant morphology in the extensive green roof cover: a case study in Mediterranean area Sara di Lonardo (Italy)	(O-089) Deep eutectic solvent pretreatment of cork dust: effects on biomass composition, phenolic extraction and anaerobic degradability Bagder Elmaci Simel (Turkey)
	09:45 - 10:00	(O-157) 3D printed Mn-based monoliths for lithium recovery from oilfield brines Knapik Ewa (Poland)	(O-158) Novel computational tool for coupling water and heat transport models – application on green roofs Stanic Filip (Serbia)	(O-093) Potential applications of hazelnut industry waste based on material properties Aguado González Laura (Spain)
	10:00 - 10:05			(F-005) Wool of mountain sheep - maximizing resources utilisation Kobiela-Mendrek Katarzyna (Poland)
	10:05 - 10:10	(O-010) Reusing depleted hydrocarbon reservoirs: An ecological alternative? Bauer Johannes Fabain (Germany)	(O-078) Performance of three ornamental species for indoor living walls irrigated with greywater Pérez-Urrestarazu Luis (Spain)	(F-029) Wheat bran proteins – raw material for production of nutritional-valued food Slaviková Zuzana (Czech Republic)
	10:10 - 10:15			(F-004) Application of sheep wool as slowly released organic fertilizer in tomato and winter wheat cultivation Broda Jan (Poland)
	10:15 - 10:20	(F-046) Energy-efficient bipolar membrane electrodeionization for integrated water and chemical recoveries from wastewater of recycled polyethylene terephthalate processes Lin Yu-I (Taiwan)		(F-008) Integrated chemicals and waste management for reduction of adverse effects to environment Aleksandryan Anahit (Republic of Armenia)
	10:20 - 10:45	Coffe break (lobby area)		
		Session B4: Urban and regenerative agriculture Chair: Argüello Jazmin & Broda Jan	Session B5: Bioenergy, Renewable energy systems and energy efficiency Chair: Kolokotsa Dionysia & Stergios Vakalis	Session B6: Circular design for increased resilience II Chair: Nowak Anna & Ann Pisman
	10:45 - 11:00	(O-098) Urban agriculture in Latvia – is that a choice between business, community networking and individual traditions? Dobeles Madara (Latvia)	(O-130) Carbon neutrality of energy produced from woody biomass Jandl Robert (Austria)	(O-061) How circular design and integrated planning approaches may increase resiliency and biodiversity? Adam Avshalom M. (Israel)

11:00 - 11:15	(O-115) Linking nature, culture, and food as an urban farming nature-based solution Argüello Jazmin (France)	(O-071) An innovative approach towards energy conservation using single RGB camera technology for obtaining occupant location in buildings Jeoung Jaewon (South Korea)	(O-011) Regenerative economics for assessing and monitoring transitions towards a circular economy Zisopoulos Filippos Konstantinos (Netherlands)
11:15 - 11:30	(O-132) HABSIM – Unique R&D Infrastructure for closed-loop food production in space and on Earth Blomqvist Tor (Germany)	(O-072) Sustainable solutions under climate change towards water and energy independence using wind power and hydrogen storage Bertsiou Maria Margarita (Greece)	(O-052) Voluntary standards, as a way how the food industry and retailers control impact of their supply chains on ecosystem services provided by soil Frouzova Jaroslava (Czech Republic)
11:30 - 11:45	(O-146) Fighting poverty of West African fishermen through aquaponics training centre in Kokrobite, Ghana Kaenzig Raffael (Switzerland)	(O-118) Design and implementation of a solar thermal system as a contribution to resilience and sustainable development in paramo ecosystems Kafarov Viatcheslav (Colombia)	(O-097) Measurement scale validation for inner and outer circular economy loops: a proposal based on food and beverage circular packaging and wishcycling Vayona Anastasia (United Kingdom)
11:45 - 11:50	(O-103) Urban bioeconomy: mapping organic resource streams and the bio symbioses in cities through Geospatial and Material Flow Analysis Yang Nan-Hua Nadja (United Kingdom)	(F-013) Recovery of bioenergy and high added value bioproducts from confectionary industrial wastewaters Ntaikou Ioanna (Greece)	(O-183) It is a waste to waste waste: examples of circularity in Kenya and Mali (just listen to your grandfather) Kampf (Netherlands)
11:50 - 11:55		(F-018) Coupling retired electric vehicle batteries with PV systems for urban sustainability: the case study of Greece Kastanaki Eleni (Greece)	
11:55 - 12:00		(F-021) Renewable resources in the conditions of the Slovak Republic Daneshjo Nagib (Slovakia)	
12:00 - 12:05	(F-038) Analysis of the aquaponics system sustainability via system dynamics modelling – FEW nexus approach Francisco Erika Cristina (Sweden)	(F-020) Effect of environmental factors on dust accumulation and the efficiency of photovoltaic panels: A study case in an Andean City Sanchez Nazly (Colombia)	(F-003) Training a new generation of farmers and agricultural entrepreneurs to implement the concept of circular economy in agriculture – the TANGO-Circular Erasmus plus project George P. Spyrou (Greece)
12:05 - 12:10	(F-064) Analysis of selected factors determining the possibility of introduction and effective operation of rainwater sharing systems for hydroponics in existing multi-family buildings Bak Joanna (Poland)	(F-045) Forest conversion and GHG emission in screening and EIA procedures regarding PV systems in Croatia Kalicek Matea (Croatia)	(F-065) Towards sustainable food systems deploying Circularity Compass Strategy Papadopoulou Kyriaki Maria (Greece)
12:10 - 12:15	(F-056) Close cycle approach in a food farm in Reggio Emilia, Italy Romagnoli Floriana (Italy)	(F-048) Implementation of DSS to optimize the selection of marine energy sites on the Mexican coastline Rivera Camacho Graciela (Mexico)	(F-067) Development of a blockchain solution for food waste management Piakas George (Greece)
12:15 - 12:20	(F-022) Optimization of wheat nutrition for regenerative agriculture Sadovski Alexander (Bulgaria)	(F-049) Osmotic power generation-based System for self-consumption electricity Ortiz Salcedo Monserrat Karina (Mexico)	
12:20 - 14:00	Lunch time!		
14:00 - 14:45	KEYNOTE: Nature-based solutions to optimize the Water-Ecosystem-Food Nexus at the basin scale Nikolaos Nikolaidis (Technical University of Crete, Greece)		
	Session B7: Stormwater management Chair: Polizzi Cecilia & Henrique Joaquim de Oliveira Pinho	Session B8: Constructed wetlands applications Chair: Giuseppe Cirelli & Ioannis Asimakoulas	Session B9: Ecological restoration Chair: Zhang Mingye & Schoeman Yolandi
14:45 - 15:00	(O-057) Nature-Based Solutions for flooding risk mitigation in an urban area: The case study of Catania (Sicily, Italy) Sciuto Liviana (Italy)	(O-013) Assessing the treatment capacity of an ecological engineered wetland receiving AMD over a period of nine years using water quality and periphyton as indicators Oberholster Paul Johan (South Africa)	(O-051) The role of natural processes in post mining land reclamation Frouz Jan (Czech Republic)
15:00 - 15:15	(O-165) Adoption of ecohydrology approaches for urban stormwater management and advancing the circular economy concept Goonetilleke Ashantha (Australia)	(O-172) Efficiency of pilot scale constructed wetlands with various substrates for landfill leachate treatment Ioannis Asimakoulas (Greece)	(O-073) Phytocap soil density specification for optimum plant water use and root growth Ruby Michael (Australia)
15:15 - 15:30	(O-019) Advancing Nature-Based Solutions for the management of water quality under the umbrella of the UNESCO IHP Ecohydrology Programme: case study of Pilica river catchment in Poland Jarosiewicz Pawel (Poland)	(O-074) Use of Vertical Flow Constructed Wetlands for domestic laundry wastewater treatment with ornamental plants Stefanatos Aimilia (Greece)	(O-033) Organic amendments-based technosols for the restoration of Mediterranean habitats and soil-carbon sequestration Carabassa Vicenc (Spain)
15:30 - 15:45	(O-101) Science behind STORMEE - STORMwater Environmental Efficiency toolkit: 1) infiltration basin Vasilic Zeljko (Serbia)	(O-043) Small constructed wetland in Norwegian agricultural catchment – 18 years monitoring and perspectives for the future Krzeminska Dominika (Norway)	(O-045) Ecological engineering enhances ecological restoration in Chinese desertified lands Xinrong Li (China)
15:45 - 15:50	(F-019) Sub-calibration of soil moisture sensor for stormwater management Perry Joseph (Finland)	(F-037) Life cycle assessment of Horizontal Subsurface Flow Constructed Wetlands: The importance of regional characteristics to enhance environmental protection Goulart Coelho Lineker Max (Denmark)	(F-023) Significance of soil type and applied fertilization on the content and uptake of macroelements with sunflower biomass Petkova Zdravka (Bulgaria)
15:50 - 16:30	Coffe break (lobby area) & Poster session		
	Session B10: NBS for climate change adaptation Chair: Nikolaos Nikolaidis & Dimitra Kotsia	Session B11: Water quality improvement for resource efficiency Chair: Darja Istenič & Pawel Krzeminski	Session B12: Ecological engineering for the protection of land and biodiversity Chair: Carabassa Vicenc & Joan Garcia
16:30 - 16:45	(O-169) CARDIMED - Climate Adaptation and Resilience Demonstrated in the Mediterranean region Simos Malamis (Greece)	(O-077) Degradation of organic micropollutants in a modified OECD 308 test: implications for the use of reactive amendments in nature-based systems Perdana Mayang Christy (Czech Republic)	(O-164) Integrating the scope of ecological engineering applications: A structured framework with case studies from Australia Dale Glenn (Australia)
16:45 - 17:00	(O-050) Development of a climate change adaptation plan for the Jordan Valley based on WEFE nexus analysis: The EcoFuture project Nikolaos Nikolaidis (Greece)	(O-020) Degradation of perfluoroalkyl and polyfluoroalkyl substances (PFAS) in secondary effluent by nonthermal plasma: role of reactive oxidative and reductive species Chen Changtao (Belgium)	(O-160) Field application of processed biosolids: Integrating municipal waste management and regenerative agriculture in Canada Grant Clark (Canada)
17:00 - 17:15	(O-143) A glimpse into the euPOLIS multi-dimensional indicator system for site screening & NBS assessment Baki Sotiria (Greece)	(O-179) Techno-Economic Feasibility Analysis (TEFA) of the Advanced Primary Filtration (APF) process as a retrofit system at the municipal Wastewater Treatment Plant (WWTP) of Marpissa, Paros, Greece Petros Gikas (Greece)	(O-113) Innovative bioinspired intervention to control the growth of a new spit and reduce the occlusion of the mouth of the Goro lagoon (Italy) Corbau Corinne (Italy)
17:15 - 17:30	(O-154) The water reuse potential of nature-based solutions in response to the increased water scarcity risks imposed by climate change Apostolaki Stella (Greece)	(O-080) Quantifying the effects of grazing beef cattle on microbial quality of surface water Gilboa Ben-David Yael (Israel)	(O-029) Modification of spent coffee grounds for their use as organic fertilizer Juglova Zuzana (Czech Republic)
17:30 - 17:35	(F-031) Development of an NBS evaluation framework in the nexus of Sustainability, Circularity and Justice Mavrigiannaki Angeliki (Greece)	(F-041) Occurrence of ESKAPE pathogens in wash waters of the agri-food industry in view of the implementation of a closed loop economy Kanarek Piotr (Poland)	(F-010) Nature-based solutions using ecological engineering and dedicated to combine the mitigation of natural risks linked to water with benefits for biodiversity: considering interdisciplinary and transdisciplinary approaches Rey Freddy (France)
17:35 - 17:40	(F-036) What do we know about the interactions between Nature-based solutions (NBS) and landscape? Sowińska-Świerkosz Barbara (Poland)	(F-053) Biological treatment of synthetic hypersaline wastewater: inoculum selection and start-up of a sequencing batch reactor Polizzi Cecilia (Italy)	(F-014) Short term results of different planting technologies applied in the restoration of European habitats Carabassa Vicenc (Spain)
17:40 - 17:45	(F-054) Integrating YamiTao traditional ecological knowledge into ecology education - an exemplification of Nature-Based Learning Lu Pei-Luen (Taiwan)	(F-002) Innovative hybrid dairy wastewater system assisted by an intelligent software tool for quality prediction of the processed product water to be used for crop irrigation in a greenhouse George P. Spyrou (Greece)	(F-042) Ecosystem services value dynamics under land use alterations in the upper Ganga riverine wetland Kansal Mitthan Lal (India)
19:30 - ...	Conference dinner @ Diogenis Restaurant		

Wednesday 4 Oct			
	IMPERIAL MAIN HALL	IMPERIAL ROOM 1	IMPERIAL ROOM 2
08:30 - 09:00	Registration (lobby area)		
	Session C1: Constructed wetlands technology I Chair: Michail Fountoulakis & Seintos Taxiarchis	Session C2: Bio-based materials I Chair: Glenn Dale & Johannes Fabian Bauer	Session C3: Ecosystem services provision and assessment Chair: Oberholster Paul Johan & Sowińska-Świerkosz Barbara
09:00 - 09:15	(O-170) Performance of pilot-scale vertical flow constructed wetlands with and without aeration for municipal wastewater treatment Panagiotis Regouzas (Greece)	(O-003) Plant growth under different bio-composts applications Al-Busaidi Ahmed (Oman)	(O-081) Assessing and mapping yearly ecosystem services supplies in areas affected by land degradation processes with the support of remote sensing indices: two case studies from the NewLife4Drylands Project Ungaro Fabrizio (Italy)
09:15 - 09:30	(O-117) Diffuse pollution treatment wetlands in cold climate: the importance of flood meadows Wahlroos Outi (Finland)	(O-064) Biomass waste-based material: Electrochemical performances and CO2 uptake capability Trinh Kieu Trang (Japan)	(O-046) Planting xerophytic shrubs significantly increased the carbon sequestration capacity and potential of sandy land Haotian Yang (China)
09:30 - 09:45	(O-016) Effects of arbuscular mycorrhizal fungi on the metabolism of ibuprofen in constructed wetland with different substrates Chen Zhongbing (Czech Republic)	(O-129) Kitchen waste from cooked food: source of contamination or a valuable source for organic composting serving circular economy perspectives? Use of waste vermicompost as a soil amendment for greenhouse vegetables (II) Kinigopoulou Vasiliki (Greece)	(O-055) Life-cycle environmental assessment of strategies for sewage treatment and reuse: a case study considering local conditions in south-central Chile Neumann Patricio (Chile)
09:45 - 10:00	(O-102) Long term performance of nature-based solutions as decentralized wastewater treatment: a case study of a retail store in southern Italy Marzo Alessia (Italy)	(O-167) Material flow analysis of the organic fraction of municipal solid waste in EU: monitoring current uses with emphasis on bio-based applications Stamatia Skoutida (Greece)	(O-034) The Ecological Engineering Nexus Accounting Framework: a tool for impact valuation of ecological engineering projects Schoeman Yolandi (South Africa)
10:00 - 10:15	(O-166) Investigating GHG emissions from vertical subsurface flow (VSSF) Constructed Wetlands treating the UASB effluent originating from Seintos Taxiarchis (Greece)	(O-108) Organic-mineral composite material for removal of chromium from natural water Economakou Antonia (Greece)	(O-137) Nature-based and solar energy building solutions in the water-energy-food nexus across diverse climatic zones in Europe Karamanis Dimitrios (Greece)
10:15 - 10:20			(F-070) The Application of GeoPlanner in Local Development Management Jan Kazak (Poland)
10:20 - 10:25	(O-186) Aerated wetlands for water reuse - Hydropolis Prague Rous Vit (Czech Republic)	(O-177) The awarded EU Teens4Green projects to TUC students: promoting nature-based solutions and circular economy Dionysis Tselentis (Greece)	(F-068) Assessment of carbon sequestration potential of targeted plants using remote sensing, GIS, and machine learning systems Aljabri Khalid (Oman)
10:25 - 10:30			(F-007) Remote sensing-based water quality inversion in Třeboň fishponds: a comparative analysis of machine learning algorithms Ge Ying (Czech Republic)
10:30 - 11:00	Coffe break (lobby area) & Poster session		
	Session C4: Constructed wetlands technology II Chair: Fabio Masi & Chen Zhongbing	Session C5: Bio-based materials II Chair: Grant Clark & Panagiotis Regouzas	Session C6: Aquatic vegetation systems Chair: Vlysidis Anestis & Daniela Andrea López Leyton
11:00 - 11:15	(O-086) A natural coagulant for colour removal from raw and treated tequila vinasses (with constructed wetlands) Zurita Martinez Florentina (Mexico)	(O-012) Optimization of biochar filter for handwashing wastewater treatment and recycling at the point of use Bautista Quispe Jhonny Ismael (United Kingdom)	(O-026) A semi-self-sustaining microalgal-bacterial granular sludge process could reduce the cadmium-effect on wastewater treatment efficiency Li Yanyao (Belgium)
11:15 - 11:30	(O-063) Treatment performance of constructed wetlands with subsurface horizontal flow after thirty years of operation Vymazal Jan (Czech Republic)	(O-047) Removal of Heavy Metals and Antibiotics from Water Using Biochar: From Lab to Real-World Use Ahmed Mushatq (Oman)	(O-059) Assessing Contaminants of Emerging Concern, Heavy Metals, and Pathogens in Wastewater-Grown Microalgae for Agricultural Applications Uggetti Enrica (Spain)
11:30 - 11:45	(O-180) Transforming polluted urban waters into liveable urban space with the help of NBS taking the Flussbad Berlin as an example Heribert Rustige (Germany)	(O-176) Production and characterization of Carbon Nanotubes and Graphene Oxide biochar nanocomposites from rice husks and sewage sludge and adsorption tests of six Emerging Contaminants from wastewater Panagiotis Regouzas (Greece)	(O-091) Algal technologies for green products – preliminary microbiological examination Istenič Darja (Slovenia)
11:45 - 12:00	(O-079) Septage treatment using the First Stage of French Vertical Flow Constructed Wetlands: From the commissioning to the closure of the system	(O-161) Coffee-oil: production of biocrude oil from spent coffee grounds via hydrothermal liquefaction	(O-145) Tertiary wastewater treatment of anaerobic digestion effluents using a phytoremediation bioreactor

		Arévalo Durazno María Belén (Ecuador)	Yakalis Stergios (Greece)	Vlysidis Anestis (Greece)
12:00 - 12:05			(F-030) Production and characterization of biochar produced from different type of bran Pořizka Jaromír (Czech Republic)	(F-055) Nitrogen fixation rate measurement by nitrogen fixing bacteria in a Lemna minor aquatic system Vlysidis Anestis (Greece)
12:05 - 12:10	(O-175) Large-scale constructed wetlands from Brazil to the Middle East: scaling up NBS Stefanakis (Greece)	Alexandros	(F-051) Activation of persulfate with hydrochar for catalytic degradation of bisphenol A in view of water treatment Zhang Xian (Belgium)	(F-069) Assessing Heavy Metal Pollution with Common Weeds: Unveiling their Bioindicator Potential Cakaj Arlinda (Poland)
12:10 - 12:15			(F-035) Acute toxicological evaluation of green biocides for outdoor cultural heritage, using Lactuca sativa seeds Rosa Manuel (Portugal)	(F-032) Study on algae composition of a river entering Taihu Lake and effect of constructed wetland Du Yingming (China)
12:15 - 14:00	Lunch time! 			
PLENARY SESSION III Chair: Alexandros Stefanakis				
14:00 - 14:45	Discussion panel The future of Ecological Engineering: integrating nature in problem-solving for a circular society		Session C8: Water reuse and sustainability Chair: Jan Kazak & Marzo Alessia	
	Session C7: Sustainability in practice Chair: Alexandros Stefanakis			
14:45 - 15:00			(O-041) Utilizing treated wastewater for pasture irrigation: effects on productivity, plant community structure and soil properties Dovrat Guy (Israel)	
15:00 - 15:15	(O-182) Sponsored speech: Novel equipment of wetlands maintenance Rudd Kampf (Netherlands)		(O-092) Native vegetation for the reuse of treated municipal wastewater: Implications for greenhouse gas emissions Meister Alexandra (New Zealand)	
15:15 - 15:20	(F-071) The SunAir Fountain panel: solar-powered drinking water production from the air humidity Alexandros Stefanakis (Greece)		(F-047) Over 80% water recovery from urban greywater using nanofilter membranes – A Swedish case study Hall Ashley (Sweden)	
15:20 - 15:25			(F-027) Integrating academic knowledge on "Sustainability of Agricultural Water Management" Dahal Bishal (Finland)	
15:20 - 16:00	Coffe break (lobby area) 			
PLENARY SESSION IV Chair: Alexandros Stefanakis & Andreas Schönborn				
16:00 - 16:45	KEYNOTE: Design of green infrastructure for a circular economy: case studies from different social and economic contexts Emmanuel Stefanakis (Sustainable Strategies International, USA)			
16:45 - 17:15	CLOSING SESSION & AWARDS IEES2023			

Thursday 5 Oct	Tours & Fieldtrips
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LIST OF POSTER PRESENTATIONS		
NAME	COUNTRY	POSTER TITLE
Pástor Michal	Slovakia	(P-002) Survival rate of selected newly planted urban trees in the city of Nitra (Slovakia) in the context of circular economy
Bauer Johannes Fabain	Germany	(P-005) Reclamation of land from fluid hydrocarbon extraction: State of the art and current challenges
Sirakov Ivaylo	Bulgaria	(P-006) Influence of different exposure times of treatment with a microelement in an aquaponic system on hydrochemical indicators and productivity of pepper (Capsicum annuum) cultivated integrated with common carp (Cyprinus carpio)
Zou Yuanchun	China	(P-008) Wetland-based solution for sustainable water management in a semiarid irrigation area subject to water use conflict
Aleksandryan Anahit	Republic of Armenia	(P-009) Tailings management facilities: risk reduction
Yang Mingyue	China	(P-010) Efficient removal and electrochemical detection of heavy metals by utilizing heavy-metal-tolerant bacteria from sludge
Lyu Xianguo	China	(P-011) Effect of reclamation on the vertical distribution of SOC and retention of DOC in the wetland landscapes in the Sanjiang Plain, Northeast China
Da Costa Maria	Portugal	(P-014) Physics of sound and SDGs: Raising awareness for the dangers of noise pollution
Çam Miyase Deniz	Türkiye	(P-015) Deep eutectic solvent pretreatment of olive tree biomass
Janczukowicz Wojciech	Poland	(P-016) The effect of external carbon source type and dose on nitrogen and phosphorus removal in Sequencing Biofilm Batch Reactor (SBBR)
Rodziewicz Joanna	Poland	(P-017) The influence of the method of organic substrate dosing on the efficiency of Sequencing Biofilm Batch Reactor (SBBR)
Jang Jeonghwan	Republic of Korea	(P-018) Aerobic DNRA-performing neobacillus sp. strain isolated from rice paddy field soil, Republic of Korea
Petkova Zdravka	Bulgaria	(P-019) Significance of soil type and applied fertilization on the content and uptake of macroelements with sunflower biomass in pot experiments
Barati Bahram	Belgium	(P-020) Enhancing biomass and phycoerythrin productivity of spirulina sp. cultivated in anaerobically digested brewery effluent
Mielcarek Artur	Poland	(P-021) Biofilm - Supporting denitrification and dephosphatation with citric acid
Borodinecs Anatolijs	Latvia	(P-022) Dynamic electricity price: challenge for selection of cost-optimal PV Systems for households
Aljabri Khalid	Oman	(P-023) Remote sensing analysis for vegetation assessment of a large-scale constructed wetland treating produced water polluted with Oil hydrocarbons
Lin Chiao-Wen	Taiwan	(P-024) Greenhouse gas emissions from Lumitzera racemosa mangroves
Lin Chiao-Wen	Taiwan	(P-025) Establishment of carbon sink coefficients of seagrasses in tropical islands
Isci Asli	Turkey	(P-026) Bioethanol production from microwave-assisted deep eutectic solvent pretreated wheat straw
Aslanhan Dicle Delal	Türkiye	(P-028) Deep eutectic solvent pretreatment of olive pomace
Kováts Nora	Hungary	(P-029) Can landraces better cope with environmental stress?
Schubert Hendrik	Germany	(P-030) Nature-based coastal protection measures in a circular society
Nabelek Jakub	Czech Republic	(P-031) Effect of wheat bran pre-treatment on isolation of ferulic acid
Steinbrecher Timo	Germany	(P-032) Production of biogenic aromatics from lignocellulosic agricultural residues
Sarabi Shahryar	Netherlands	(P-033) Promoting environmental justice in urban transitions: an embedded view
Lin Wei-Jen	Taiwan	(P-034) Mangrove carbon budgets suggest the estimation of net production and carbon burial by quantifying litterfall
Ghosh Sayanti	India	(P-035) Biochar supported Ag-TiO2: A green catalyst for degradation of pharmaceutically active compounds and disinfection in wastewater
Truu Jaak	Estonia	(P-036) Microbial fuel cells as a sustainable pathway to remediate oil-contaminated sediments and soils
Kimura Keiichi	Japan	(P-037) Cyanobacterial biocrust development on biomineralized sandy soil: new dryland restoration method
Tejada Manuel	Spain	(P-038) Green pepper (Capsicum annuum) fruit quality. Effects of the application of biostimulants obtained from slaughterhouse sludge
Tejada Manuel	Spain	(P-039) Application of a biostimulant obtained by enzymatic hydrolysis from slaughterhouse sludge in the bioremediation of soils polluted by the imazamox herbicide
Montero Pau	Spain	(P-041) Drone monitoring of extractive activities in Catalonia: a collaborative system for improving the sustainable management of the mining sector
Parrado Juan	Spain	(P-042) Design of a chemical/biological biphasic process for circular economy for the conversion of polyurethane into agronomic biostimulants
Kulbat Eliza	Poland	(P-043) Effect of sewage sludge mono- and co-digestion on nutrients removal from reject water
Parrado Rubio Juan	Spain	(P-044) Bioprocess of Keratin wastes conversion into agronomic biostimulants and biofertilizer
Wilinska-Lisowska Anna	Poland	(P-045) Possibilities of nutrients recovery from the liquid fraction of digestate from agricultural biogas plants in Poland
Montero Pau	Spain	(P-046) Remote sensing indicators for the study of drylands in Mediterranean climate
Ponis Stavros	Greece	(P-047) Be Well and Green When Digital - Lessons Learnt from the BeWEEN project
Truu Marika	Estonia	(P-048) Enhancing methane mitigation in landfills: insights from biocover composition and microbial parameters
Goulart Coelho Lineker Max	Denmark	(P-049) Proposal of a multicriteria decision making method to support the selection of nature-based solutions addressing rainwater management
Krzysztof Józwiakowski	Poland	(P-051) New generation Christmas tree shape hybrid treatment wetland for wastewater treatment in Roztocze National Park, Poland
Dong Pengyu	Belgium	(P-053) Optimized removal of silica during manure treatment by electrocoagulation-flotation (EC-F) in view of fouling prevention of reverse osmosis membranes
Gerashimova Iliyana	Bulgaria	(P-055) Fertilization and uptake of macroelements with maize biomass (a pot experiment with pelic vertisol)
Okuro Toshiya	Japan	(P-056) Effects of mixed seeding of several plants with different growth forms on mitigating sand drifting in desertified grassland in the Northeast Asia
Rusyn Iryna	Ukraine	(P-057) Green electricity: a renewable resources biotechnology and ecological engineering tool
Marijuan Raquel	Spain	(P-058) Evaluating the Impact of Nature-based Solutions on the provision of water-related and water-dependant Ecosystem Services
López Leyton Daniela	Chile	(P-059) Hybrid constructed wetlands for enhance quality of urban aquatic ecosystems
Olaniran Ademola	South Africa	(P-060) Enhanced bioremediation of polycyclic aromatic hydrocarbons by laccases from two indigenous fungal isolates via the ABTS Mediator Systems
Wąs Adam	Poland	(P-061) Modelling policy options for GHG mitigation in Polish agriculture
Karamanis Dimitrios	Greece	(P-062) Climate-neutral EU Regions: Expanding the mission of 100 EU carbon-neutral cities to 30 European carbon-neutral regions through S3 platform until 2030
Perez Rubi Maria	Germany	(P-063) Scaling-up Nature-Based Solutions for decentralized greywater treatment retrofitted in urban areas of Costa Rica
Szymańska Magdalena	Poland	(P-064) A Bio-refinery concept for N and P recovery - a chance for biogas plant development
Sosulski Tomasz	Poland	(P-065) Reduced tillage, fertilizer placement, and soil afforestation as methods of CO2 soil emissions mitigation
Dafnos Ioannis	Greece	(P-067) Exploring the hydrological dynamics of Kifissos basin in Greece - an integrated analysis of water and groundwater resources
Gómez Silvia	Spain	(P-068) Agroecological solutions for resilient farming in West Africa: Identification of farmers' and communities' needs
Antonopoulou Georgia	Greece	(P-069) Biohydrogen production from household food waste through dark fermentation: the possibility of water minimization during dilution
Gómez Garrido Melisa	Spain	(P-070) Sustainable Environmental Management of pig production with an Integral Manure Management System with Constructed Wetlands
Rontogianni Anatoli	Greece	(P-071) High and low technological implementation of bio based energy sources in Europe: Comparisons and contrasts
El Bied Oumaima	Spain	(P-072) Decision Support System (DSS) for Controlled Pig Slurry Application and Sustainable Resource Management
Terrero Turbí Angélica	Spain	(P-073) Use of techniques to mitigate Greenhouse Gas emissions and ammonia from pig slurry storage
Dobele Aina	Latvia	(P-074) Aspects of urban agriculture in the sustainable development - the case of Latvia
Ho Chuan-Wen	Taiwan	(P-075) Enhancing carbon sinks through mangrove afforestation in a coastal constructed wetland park
Bauwe Andreas	Germany	(P-076) Performance of a denitrifying bioreactor for the treatment of nitrate-laden agricultural drainage water in northeastern Germany
Rubio-Clemente Ainhoa	Colombia	(P-077) Elimination of Crystal Violet in water by Pinus patula biochar: process optimization and validation
Rubio-Clemente Ainhoa	Colombia	(P-078) Life cycle assessment in the production of raw and Fe-modified biochars
Daphne Argyropoulou	Greece	(P-079) Greywater treatment with green walls for the washing of reusable cups and bottles
Fountoulakis Michail	Greece	(P-080) Integrate management of residues generated from olive cultivation and olive oil production process for soil resource recovery: the "Elaionas" project
Bak Joanna	Poland	(P-081) Introduction of aquaponic farms partly supplied by rainwater into the urban tissue - possibilities, barriers, limitations and challenges
Seintos Taxiarchis	Greece	(P-083) BIODAPH2O – Investigating a novel system for tertiary wastewater purification
Klontza Eleftheria	Greece	(P-084) Arthrospira (Spirulina) platensis growth and biofixation of CO2 using cheese whey in the context of circular economy
Zabaniotou Anastasia	Greece	(P-085) Closed loops and the circular economy of polypropylene waste: Design, engineering and feasibility of pyrolysis
Tong Shouzheng	China	(P-086) The driving mechanisms for community expansion in a restored Carex tussock wetland
Zhang Mingye	China	(P-087) Effects of melatonin priming on Suaeda corniculata seed germination, antioxidant defense, and reserve mobilization: Implications for salinized wetland restoration
Lin Wei-Jen	Taiwan	(P-088) The carbon budget in aquaculture systems with the Asian clam (Corbicula fluminea) in eastern Taiwan
K. Lasaridis	Greece	(P-089) Comparative analysis of composting source-separated biowaste and the organic fraction of the Chania MBT plant
Maria Frantzeskou	Greece	(P-090) Short term effects of non-tillage on soil health restoration in Mediterranean environments
Athanasios Tsilimigras	Greece	(P-091) Drivers of Change: Analyzing the Historical Shifts and Future Pathways for Biophysical and Socioeconomic Influences on Land Degradation in the Mediterranean