

**Tenth International Conference on Environmental Management,
Engineering, Planning and Economics (CEMEPE 2023)
and SECOTOX Conference**



CONFERENCE PROGRAM

Organized by:

- Division of Hydraulics and Environmental Engineering,
Department of Civil Engineering, Aristotle University of Thessaloniki
- Society of Ecotoxicology and Environmental Safety (SECOTOX)

In collaboration with:

- Sector of Industrial Management and Operations Research,
School of Mechanical Engineering, National Technical University of Athens, Greece
- Department of Civil Engineering, University of Thessaly, Greece
- Department of Food Science and Technology, International Hellenic University, Greece
- Department of Mechanical Engineering, University of Western Macedonia, Greece
- Department of Environmental Engineering, Democritus University of Thrace, Greece
- Department of Environmental Studies, University of Thessaly, Greece

June 5-9, 2023 • Skiathos Island, Greece

18:00-19:00 **Registration** (Kanapitsa Mare Hotel)

19:30-21:00 **CEMEPE/SECOTOX Conference opening session**

Chairs: **A. Kungolos, C. Laspidou, P. Melidis, G. Papapolymerou,
and A. Zafeirakou**

Opening remarks by officials

Invited lectures

Professor H. Frank

What do environmental scientists produce?

Professor Y. Avnimelech

**Economic and geopolitical effects of climate change
in the Near East Region. Situation and potential actions**

Professor F. De Paola

F. De Paola, G. Ascione, F. Pugliese, G. Speranza, M. Giugni

**A jazz-based approach to optimize location and setting of PRVs
in Water Distribution Networks**

Professor J. W. Dobrowolski and Dr. T. Żaba

**Innovative concept of bioeconomy-driven sustainable development,
adopted to climate change, focused on laser biotechnology
and renewable sources of energy**

21:00 **Welcoming reception** at Kanapitsa Mare Hotel

ROOM A		ROOM B	
Energy and Environment I <i>Chairs: Melidis P., Ntougias S.</i>		Waste Utilization and Management <i>Chairs: Lybæk R., Poullos K.</i>	
09:00-09:15	Sustainable Solutions for Urban Transport: Micromobility. P.G. Saranti, Y.J. Stephanedes	09:00-09:15	Agricultural waste as a promising resource for valorization routes: Exploring their energy potential contribution in the Region of Central Macedonia. S. Skoutida, A. Malamakis, D. Gerololios, L. Melas, M. Batsioulas, C. Karkanias, G. Banias
09:15-09:30	Anaerobic digestion of corn stover with rumen fluid to enhance the biogas production. A. Makri, S. Ntougias, P. Melidis	09:15-09:30	Sustainability of the plastic recycling business. Plasmix: present hurdles and future opportunities. L. Mestroni, L. Orsi, J. Bacenetti, F. Zilia
09:30-09:45	Assessment on the local climate effects of solar parks. M. Makaronidou, N. Kettridge, N. Ostle, A. Armstrong	09:30-09:45	Adaptation of the Extended Producer Responsible scheme within the Danish plastic industry-Circular Economy potentials for enhancing the re-cycling of plastic packaging wastes. R. Lybæk, T. Kjær, B. Kjærgård
09:45-10:00	Application of Circular economy in lignite power station desulfurization systems by innovative activation of the calcium enhanced fly ash. G. Dimitriadis, O. Ioannidou, A. Kastanaki	09:45-10:00	Heavy metal ions removal from wastewater sludge using natural bentonites constituents in the context of sustainable development. S. Jajarmi, G. Badalians Ghollikandi, M. Tizghadam
10:00-10:15	Optimization of energy consumption in a Wastewater Treatment Plant. N. Tsalias, G. Katsouras, S. Samios, V. Polychniatou, K. Peroulis, S. Golfopoulos, G. Sachinis	10:00-10:15	Properties of Alkali Activated Materials produced from Metallurgical Slag and other Additives. K. Komnitsas, V. Karmali, S. Tampouris, E. Petrakis, A. Kritikaki, O. Pantelaki, S. Mavrigiannakis
10:15-10:30	Critical comparison of selected open LCA databases/tools for anaerobic digestion and biogas utilization from the organic fraction of municipal wastes. K. Kalkanis, C. Chroni, C. Emmanouil, I. Chronis, C.S. Psomopoulos	10:15-10:30	A Decision Support System for small household appliances' waste management in Turkey. A. Kemal Konyalioglu, I. Bereketli
10:30-10:45	Estimation of success of energy efficiency support programs for SMEs with data mining. H. Demiroglu	10:30-10:45	SWOT Analysis for municipal solid waste management: A case study for Sotira Municipality. P. Loizia, I. Voukkali, I. Papamichael, F. Economou, A.A. Zorpas
10:45-11:00	Solar photovoltaic parks impact on local climate effects and potential ecosystem services implications. M. Makaronidou, N. Kettridge, N. Ostle, A. Armstrong	10:45-11:00	Factors influencing willingness to compost among households in Greece: An exploratory study. P. G. Saranti, Y. J. Stephanedes, D. Chondrogianni

VIRTUAL ROOM C	
Advances in Water and Wastewater Treatment I	
<i>Chairs: Dobrowolski J.W., Rögener F.</i>	
09:00-09:15	Investigating removal efficiency of heavy metals from biological excess sludge using natural and waste materials, and their modifications. <i>Z. Jarollahi, G.Badalians Gholikandi</i>
09:15-09:30	New challenges for water management due to the introduction of green steel. <i>F. Rögener, H. Diallo</i>
09:30-09:45	Reduction of electricity consumption and use of renewable energy sources in water and wastewater treatment technology. <i>T. Žaba, J.W. Dobrowolski</i>
09:45-10:00	Investigating the use of treated wastewater sludge as organic fertilizer to improve the growth of rain-fed wheat and soil characteristics. <i>L. Abou Jaoude, R. H. Mohtar, F. Kamaleddine, I. Keniar, S. Yanni</i>
Environmental Impact Assessment And Risk Analysis I	
<i>Chairs: Muhammetoglu A, Tolika K.</i>	
10:00-10:15	Investigation of the effect of oil type and subsea dispersant injection on oil spill behavior; the case of a hypothetical subsea blowout in the Gulf of Kyparissia. <i>P. E. Makatounis, P. J. Brandvik, I. Gatos, A. I. Stamou</i>
10:15-10:30	Evaluation of environmental risks of pesticides: Case Study of the Lower Aksu Stream Basin, Turkey. <i>S. Tuzun Dugan, A. Muhammetoglu</i>
10:30-10:45	Climate change impacts on Greek cultural heritage; Present and Future simulations. <i>E. Tringa, K.Tolika</i>
10:45-11:00	Numerical simulation of local scour around a cylindrical bridge pier in sandy soil using FLOW-3D HYDRO <i>P. I. Zairis and A. I. Stamou</i>
11:00-11:30	COFFEE BREAK
ROOM A	
11:30-11:45	Airborne transmission of parasites: A new perspective <i>P. Karanis</i>

ROOM A		ROOM B	
Environmental Impact Assessment and Risk Analysis II <i>Chairs: Axiak V., Psomopoulos C.</i>		Innovations in Urban Water Systems Management <i>Chairs: Di Nardo A., G.F. Santonastaso</i>	
11:45-12:00	First-hand 7-year experience of environmental management within a regulatory environmental authority in the Central Mediterranean. V.Axiak	A steady state methodology for sensor location in sewer systems. V. Guadagno, G. Del Giudice, C. Di Cristo, A. Leopardi, A. Simone	
12:00-12:15	European Ports insights in environmental issues. M. Puig, C. F. Wooldridge, V. Selén, M.P. Almajano, R.M. Darbra	Automatic algorithm for step-test design in SWANP software. G.F. Santonastaso, A. Di Nardo, E. Creaco, M. Iervolino	
12:15-12:30	X-band radar sensing of the wave field at a river estuary: a preliminary study. A. Baldoni, C. Lorenzoni, P. Penna, F. Serafino, M. Brocchini	Designing contamination warning systems for water utilities using water quality and pressure sensors. L. Palma, F. Hatam, M. Prévost, G. F. Santonastaso, A. Di Nardo	
12:30-12:45	Impact of offshore fish farming on the sediments of the bay of Monastir (Tunisia): evidence of trace metals and microplastics. A. Ghazel, S. Abidli, S. Barka	The impacts of water conservation strategies on water quality in networks and residences. F. Hatam, M. Blokker, M. Prevost	
Air Quality and Health <i>Chairs: Gini M., Mavrakis A.</i>		Air Quality and Health <i>Chairs: Gini M., Mavrakis A.</i>	
12:45-13:00	Mitigation of the environmental impact of pig rearing by inside air treatment using scrubbers. M. Costantini, J. Bacenetti, M. Zoli, M. Guarino	RNA sequencing technology as a new approach to investigate emerging issues: the SARS-CoV 2 case. M. Zanellato, S. Gioiosa, E. Sturchio, P. Boccia	
13:00-13:15	Report cards of water supply infrastructure based on its technical assessment. L. Tuhovčák	Local and distant sources affecting chemical composition of particles at the western Black Sea atmosphere. D. D. G. Tokgöz, G. Doğan, G. Tuncel	
13:15-13:30	Environmental concentration of selected risk elements in liver, kidney and muscle of domestic rabbits and wild brown hare. P. Massanyi, B. Dudejova, M. Capcarova, L. Harangozo, A. Kovacic, R. Stawarz	Investigating the temporal variability of PM mass concentrations, bacteria populations and meteorological variables at citrus orchards. M. Gini, P. Fetfatzis, D. Kontogiannatos, D. G. Georgakopoulos, G. Sarigiannidis, G. Charrier, N. Dusart, T. Loukopoulos, M. Karvelas, V. Karathanos, K. Eleftheriadis	
13:30-13:45	Multivariate statistics and the water quality index-a powerful tool for surface water quality assessment. I. Benkov, M. Varbanov, T. Venelinov, S. Tsakovski	Comparison of HYSPLIT Back Trajectories Simulated with Different Meteorological Inputs. F. Doğrusever, D. D. G. Tokgöz	
13:45-14:00	Development of techniques for evaluating the potential effects of environmental and occupational exposure to microplastics. P. Boccia, M. Zanellato, E. Sturchio	Particle size distribution of aerosols at remote sites in Turkey. G. Güllü, Z. Bozkurt, S. Y. Aslanoğlu	
14:00-14:15	Socio-economic sustainability assessment of wet and dry scrubber in pig barns. M. Zoli, M. Costantini, M. Guarino, J. Bacenetti	Preliminary results concerning the relation between daily mortality records and Air Quality Stress Index in the industrial city of Aspropyrgos, Attica-Greece. E. Verouti, E. Bakeas, L. Salvati, A. Mavrakis	

VIRTUAL ROOM C	
Sustainable Urban Development I <i>Chairs: Latinopoulos D., Vagiona D.</i>	
11:45-12:00	Spatial equity of Urban Green Spaces for sustainable cities. M. Evdou, D. Latinopoulos
12:00-12:15	Evaluation of urban water consumption and non-revenue water for a coastal city facing urbanization and tourism pressure. A. Muhammetoglu, H. Muhammetoglu
12:15-12:30	Heavy metals exposures and risk assessment of different sizes of particulate matter in indoor and outdoor environments. A. K. Yadav, S. Shirin, A. Jamal
12:30-12:45	Concluding the journey of the seven roads: Evaluation outcomes of text corpora translations in the field of Environmental Engineering. S. Christidou
12:45-13:00	Against all odds; applied linguistics and foreign language teaching at university level. Teaching terminology to students of Midwifery Science Department at the post-Lockdown transitional period. S. Christidou
13:00-13:15	15 minutes city. The solution for urbanization I. Youkkali, I. Papamichael, P.Loizia, A.A Zorpas
13:15-13:30	The environmental impact of cultural events. K.-D. Pantella, K. Abellotis, G. Malindretos, E. Georgitsogianni
13:30-13:45	A study of physical and hydraulic properties of green roof substrates including waste materials. M. Mavroulidou, C. Gray
13:45-14:00	Urban regeneration VS residential property characteristics: Which is the most influential on property values? A. Xifilidou, N. Karanikolas, S. Spataias, V. Tsioukas
Natural Resources Management I <i>Chairs: Latinopoulos D., Vagiona D.</i>	
14:00-14:15	Biocementation mediated by native Carbonic Anhydrase-producing microbes. W. Mwandira, M. Mavroulidou, M.J. Gunn, C. Gray, J. Carelick, D. Purchase
14:15-16:00	LUNCH BREAK

	ROOM A	ROOM B
	<p>Advances in Water and Wastewater Treatment II <i>Chairs: Kyzas G., Xenidis A.</i></p>	<p>GIS and Remote Sensing <i>Chairs: Vamvakeridou-Lyroudia L., Aslanoglu S.</i></p>
16:00-16:15	<p>Chemical reduction of nitrates using nZVI supported on resin. C. Mystrioti, N. Papassiopi and A. Xenidis</p>	<p>Thermal history of a Greek city using Google Earth Engine Imagery. N. Gkitsakis</p>
16:15-16:30	<p>A pilot-scale unit for on-site hospital wastewater treatment. A. Kaliakatsos, I. Gounaki, E. Karagiannis, S. Dokianakis, A. S. Stasinakis, N. Katsarakis, D. Venieri</p>	<p>Developing synthetic data for FIWARE-enabled Digital Twins in the water sector. G. Lewis, B. Evans, L. Vamvakeridou-Lyroudia, A. S. Chen, S. Djordjević, D. A. Savić</p>
16:30-16:45	<p>Activated agricultural residues biochars as adsorbents of strontium from aqueous solutions. D. Vamvuka, D. Pentari, V. Stathopoulou, E. Loupasis, K. Stergiou, C. Loulashi</p>	<p>Classification of aerosols via sunphotometer observations for Mersin-Erdemli. G. Akgül, S. Y. Aslanoglu, A. Meral, G. Güllü</p>
16:45-17:00	<p>Assessment of physiochemical and biological water quality parameters in schools in Central Hebron Directorate: a case study. H. Sawalha, M. Al-Jabari, S. Sultan, M. Nassar, Y. Essa, M. Abu-Thurei'a, H. Qimari</p>	<p>Land Use/Land Cover classification of a semirural area of Greece using Google Earth Engine platform and machine learning methods. N. Gkitsakis</p>
17:00-17:15	<p>Impact of metabolic uncoupler dicoumarol on excess sludge production. I. Stavarakakis, N. Remmas, P. Melidis, S. Ntougias</p>	<p>Evaluating UX design approaches for developing user-facing applications in Water Research Projects. G. Lewis, D. Kofinas, K. Baker, L. Vamvakeridou-Lyroudia, A. S. Chen, S. Djordjević, D. A. Savić</p>
17:15-17:30	<p>Degradation of trimethoprim antibiotic combining underwater plasma bubbles and photocatalysts. D. Tsokanas, C. A. Aggelopoulos</p>	<p>Developing an international digital twin for the LOTUS project. G. Lewis, D. Kumar, L. Vamvakeridou-Lyroudia, A. S. Chen, S. Djordjević, D. A. Savić, S. Subbiah</p>
17:30-17:45	<p>Upgrade of overloaded municipal wastewater treatment plants by advanced primary filtration systems. K. Tsamoutsoglou, P. Gikas</p>	<p>Global spatiotemporal variations of NO₂ via long term satellite observations. S. Y. Aslanoglu, G. Güllü</p>
17:45-18:00	<p>Assessment of drinking water quality from roof-top plastic storage tanks in Palestine. M. Al-Jabari, H. Sawalha, S. Hasani, M. Dababseh</p>	<p>Creating FIWARE-compliant diagnostic brokers for digital twins in water research projects. G. Lewis, L. Vamvakeridou-Lyroudia, A. S. Chen, S. Djordjević, D. A. Savić</p>
18:00-18:15	<p>Effect of Pressure Reducing Valves on the vulnerability of Water Distribution Networks due to pipe failure. M. Gymnopoulos, G. Mitsopoulos, G. Tzanes, A. I. Stamou</p>	<p>aquas3: Developing visualisation, early warning, and decision support components for a multi-partner WDN-focused digital twin service using FIWARE. G. Lewis, B. Snider, L. Vamvakeridou-Lyroudia, A. S. Chen, S. Djordjević, D. A. Savić</p>

ROOM A		ROOM B	
Sustainable Urban Development II <i>Chairs: Karanis P., Pappas V.</i>		Industrial Symbiosis and Sustainable Production <i>Chairs: Papamichael, Spiliotis X.</i>	
09:00-09:15	Water situation of Cyprus, water supply systems and their impacts on the general S. Alexandrou, O. Tzoraki, P. Karanis	09:00-09:15	Monitoring a smooth shift to a circular economy using tools for measuring circularity. I. Papamichael, I. Voukkali, P. Loizia, F. Economou, A.-A. Zorpas
09:15-09:30	Sustainability aspects of a 3-D printed house. A. Chortis, A. Iliadi-Manou, K. Katakalos	09:15-09:30	Analysis of enablers and barriers to industrial symbiosis in the chemical industry in Turkey by using multi-criteria decision-making approaches. S. N. Çiftçi, İ. Bereketli
09:30-09:45	Seismic assessment of cultural heritage masonry structures. S. E. Dritsos, E. Apostolidi	09:30-09:45	End-of-Life Creosote-Treated Poles sawdust in red ceramics. S. Karastergiou, S. Lalas, V. Athanasiadis, G. Papapolymerou, X. Spiliotis
09:45-10:00	Settlements, Population and N2K areas in Greece. V. Pappas, B. Kotzamanis	09:45-10:00	Potential future of traditional and ecological agriculture in Palestine. K. Sawalha
10:00-10:15	Installation, Operation and Technical Specifications of the public bicycle-sharing system in the Municipality of Volos. E. Bakogianni	10:00-10:15	Sea urchin waste valorization in egg production in a circular economy perspective. M. Zoli, M. Costantini, V. Ferrante, F. Zilia, L. Orsi, J. Bacenetti
Fate and Transport of Pollutants <i>Chairs: Tsakiroglou C., Twardowska I.</i>		Fate and Transport of Pollutants <i>Chairs: Tsakiroglou C., Twardowska I.</i>	
10:15-10:30	Microplastics pollution from the urban rivers: sampling, isolation, characterization and identification. S. Cheorghé, C. Stoica, A. M. Harabagiu, E. D.I Mighiu, C. Bumbac, D. G. Neidoni	10:15-10:30	Uptake of Potentially Toxic Elements by different cultivars of spring malting barley from soil polluted from atmospheric deposition. E. Miszczak, S. Stefaniak, I. Twardowska
10:30-10:45	River management in Greece at a municipal level: A questionnaire based survey. E. Papadopoulou, A. Zafeirakou, C. Papalexiou, Y. Chinis, G. Yaples, A. Katsoulea	10:30-10:45	A deep learning model, interpreted with an explainable artificial intelligence technique to simulate and optimize the remediation of oil-drilling cuttings in bubble flow reactors. K. Kalari, K.F. Christodoulis, N. Bali, M. Theodoropoulou, C.D. Tsakiroglou
10:45-11:00	Do resource Nexus interrelationships offer a pathway for decision-making in industry-ecosystems sustainability? An empirical study on textile wastewater management. K. Gomes, T. W. Guenther, J. Morris, E. Guenther, J. Miggelbrink, S. Caucci	10:45-11:00	Synthesis of smart fluids for the efficient removal of residual oil from subsurface. Ch. Ntente, A. Strekla, M. Theodoropoulou, C.D. Tsakiroglou
11:00-11:15	Integrating multicriteria analysis and GIS for water airport siting on lakes in Greece. I. Tsananas and D. Vagiona	11:00-11:15	Assessment of crude oil biodegradation rate in a bioengineering system simulating marine environment. P. Keramea, D. Matziri, P. Melidis, S. Ntougias, G. Sylaios
11:15-11:30	Food waste generation in hospitality and food services sector in Greece C. Chroni, I. Vardopoulos, K. Abelliotis and K. Lasaridi	11:15-11:30	

COFFEE BREAK	
ROOM A	ROOM B
Special Session: ARSINOE-Climate-resilient regions through systemic solutions and innovations <i>Chairs: Laspidou C., Adamos G.</i>	
Ecotoxicology and Environmental Toxicology <i>Chairs: Emmanouil C., Papapolymerou G.</i>	Greening the Athens metropolitan area: presentation of the Case Study of Athens in the H2020 project ARSINOE. C. Laspidou, G. Adamos, A. Ioannou, B. Ergunol, D. Kofinas, N. Mellios, S. Mimis, A. Spyropoulou, K. Ziliaskopoulos
11:30-12:00 The effects of graphene-based nanomaterials on salmonids behaviour at their early stages of development. T. Makaras, Ž. Jurgelėnė, S. Semčuk, M. Jakubowska-Lehrmann	Nature based solutions for greening, cooling, and cleaning the Athens Metropolitan Area. N. Votsi, E. Athanasopoulou, A. Karali, G. Papangelis, P. Sismanidis, K. Varotsos, C. Giannakopoulos, I. Keramitsoglou, E. Gerasopoulos
12:00-12:15 Cytogenetic effects of tire fire effluents on early stages of <i>Salmo trutta</i> . R. Valskienė, M. Stankevičiūtė	Temporal and spatial data integration in the SustainGraph. C.M. Androna, I. Mandilara, E. Fotopoulou, A. Zafeiropoulos, S. Papavassiliou
12:15-12:30 The story behind the Liquid Gold yield: the environmental impacts of Olive mill wastewaters upon freshwater ecosystems. S. Teixeira Costa, F. Miranda, F. Teixeira, A. Zidouh, C. Fernandes, L. Dias, Z. Hernandez, A. Teixeira	A participative innovation driven approach for climate change adaptation. A. Guittard, E. Akinsete, I. La Jeunesse, P. Koundouri, C. Moujan
12:30-12:45 Effects of Elevated Temperature on the Triclosan Toxicity to Rapeseed Oil (<i>Brassica napus</i> L.). D. Miškelytė, J. Žaltauskaitė	ESG-SDG quantification and acceleration. P. Koundouri, C. Landis, A. Plataniotis
12:45-13:00 Toxicity of a mixture of NPs and MPs in <i>Ruditapes decussatus</i> : are mixtures less toxic than individual NPs and MPs contamination? E. Ventura, J.M. Gonçalves, M.J. Bebianno, F. Regolib	System Dynamics for visualizing the threats to biodiversity at a regional scale. K. Ziliaskopoulos, C. Laspidou
13:00-13:15 Effects of oomycete pathogens in salmonid fish: exposure and recovery study. G. Sauliūtė, S. Markovskaja, A. Markuckas, M. Stankevičiūtė	Citizen Science as a tool to enhance co-creation activities and support policy making processes. A. Spyropoulou, G. Adamos, C. Laspidou
13:15-13:30 Effect of graphene oxide and metal mixture on test organisms of different trophic levels: toxicity and bioaccumulation of metals. M. Kazlauskas, D. Montvydienė, Ž. Jurgelėnė, S. Šemčuk, D. Lenkauskaitė, G. Slučkaitė, N. Kazlauskienė	
13:30-13:45 Characterization of genotoxicity and cytotoxicity of fungal-like organisms on rainbow trout larvae. M. Stankevičiūtė, Ž. Jurgelėnė, R. Valskienė, S. Markovskaja	

L U N C H B R E A K

14:00-16:00

ROOM A		ROOM B	
Natural Resources Management II <i>Chairs: Lindblom J., Stergiadou A.</i>		Special Session: NEXUSNET COST Action: Network on Water-Energy-Food Nexus for a Low-Carbon Economy in Europe and Beyond <i>Chairs: Vasovic D., Maletskiy Z.</i>	
16:00-16:15	Integrated modeling of Vertical-Slot fish-passes. G. Mitsopoulos and A. I. Stamou	16:00-16:15	Comparative analysis of environmental indicators within circular economy in EU countries. Z. Vranjancic, D. Vasovic, T. Radjenovic, S. Zivkovic
16:15-16:30	Forest Roads Ecological Footprint based on the construction materials. A. Stergiadou, M. Makaronidou, G. Rallis, D. Moutsopoulos	16:15-16:30	WEF Nexus practical impacts as a “driver of change” in the field of environmental science transformation, innovation, and adaptation. D. Vasovic, T. Radjenovic, Z. Vranjancic, S. Zivkovic
16:30-16:45	Experimental and theoretical studies on Condensation Irrigation. J. Lindblom, B. Yousefi, B. Nordell	16:30-16:45	Degradation of per- and polyfluoroalkyl substances in wastewater by electrocatalytic oxidation and ozonation. F. Meng, P. Lein, A. Cuprys, H. Ratnaweera, Z. Maletskiy
16:45-17:00	Audit method of forest road pavement. A. Stergiadou, T. Psilovikos, M. Makaronidou, G. Kolkos, D. Moutsopoulos, M. Chatzigeorgiou, N. Prosiniklis	16:45-17:00	EJWP and NEXUSNET - towards an impactful NEXUS project. D. Kofinas, N. Mellios, A. Cuprys, V. Gulin Beljak, H. KleinJan, A. Kulić Mandić, T. Moreels, M. Sertić Perić, N. Timmer
17:00-17:15	Detection of bacterial microbial biota in Laspia torrent, Xanthi, Greece, via the use of high throughput molecular techniques. A. Gropali, I. Stavtrakakis, N. Remmas, I. Zerva, D. Matziri, I. Vasileiadou, C. Dolgira, D. Latinopoulos, P. Melidis, C. Akkratos, I. Kagkalou, S. Ntougias	17:00-17:15	Incorporating Ecosystems in the Water-Energy-Food Nexus: Current Perspective and Future Directions. E. Lucca, T. Avellán, D. Kofinas, G. F.M. Baganz, A. Baubekova, M. Blicharska, C. Calheiros, G. Castelli, T. Dašić, D. Đorđević, J. el Jeitany, M. Fader, R. Hassan, J. Kleeman, H.-Y. Liu, S. Masia, M. Merheb, S. Milliken, C. E. Mooren, S. Oinonen, H. V. Oral, A. Pagano, R. Pineda-Martos, A. Psomas, T. Radjenović, S. S Das, B. Sambo, A. Sperotto, A. Spyropoulou, A. Stefanakis, M. Suškevičs, J. Sušnik, T. Bamgboye Taiwo, C. Teutschbein, V. Vasilic, S. Munaretto, F. Brouwer, C. Laspidou
17:15-17:30	Assessing reliable wood volume estimation of forest stand, through the application of the big-BAF sampling methodology. M.J. Diamantopoulou, A. Georgaklis	17:15-17:30	Reorganization of Higher Education Institutions as an effect of the pandemic period A. Spyropoulou, N.Mellios, C. Laspidou

C O N F E R E N C E P R O G R A M

Wednesday, June 7, 2023 | Day 3

ROOM A	
17:30-17:45	Evaluating alternatives in modeling the taper of tree bole through the form-height factor estimation. <i>M.J. Diamantopoulou</i>
17:45-18:00	How seawater and wind potential can solve water scarcity and electric power system stability of small islands and reduce CO₂ emissions <i>M. Bertsiou, D. Karpouzos and E. Baltas</i>
	Environmental Education <i>Chairs: Lindblom J., Stergiadou A.</i>
18:00-18:15	Teachers' perception of natural hazards: First results from a questionnaire across Greek schools. <i>G. Makrygiannis, G. Karabelias, A. F. Mavrakis</i>

C O N F E R E N C E P R O G R A M

Thursday, June 8, 2023 | Day 4

	Optional field trip
21:00	BANQUET

ROOM A	
Environmental Policies and Legislation <i>Chairs: Avnimelech Y., Tryfona-Panagopoulou V.</i>	
09:00-09:15	Zero waste to landfill, as a challenge for sustainable development, in the context of the circular economy (case study: steel plant). <i>V. Tryfona-Panagopoulou, S. Koutroumpelis, A. Kungolos</i>
09:15- 09:30	Working in (slow) progress: Socio-environmental and economic dynamics in Forest Sectors and the contribution to Sustainable Development in a Mediterranean Context. <i>L. Salvati</i>
09:30-09:45	The principles of the circular economy and the role of digital tools through education, in connection to the ESG indicators. <i>C. Panagopoulou, E. Panagopoulou, V. Tryfona, S. Panagopoulos, A. Kungolos</i>
09:45-10:00	The Dead sea: Where, properties, water balance. Will the Dead sea die? <i>Y. Avnimelech</i>
Energy and Environment II <i>Chairs: Konyalioglu A., Marmanis D.</i>	
10:00-10:15	Electrochemical hydrogen production using iron electrodes: effect of current density and water salinity on process efficiency and hydrogen production costs. <i>A. Tzouras, K. Gioulounda, D. Marmanis, V. Diamantis</i>
10:15-10:30	A solar powerplant investment optimization model for a national super market chain in Turkey. <i>S. Avşar, İ. Bereketli</i>
10:30-10:45	From kW to MW-Wind Energy for water and wastewater treatment. <i>E. Tzen</i>
10:45-11:00	Deep Learning Based Models for the CO₂ emission forecasting in Turkey <i>T. Ozcan, A. Kemal Konyalioglu, T. Beldek</i>
11:00-11:15	Surveillance and inspection of dams in Greece; key points of national strategy and further considerations <i>S. Papatzani, G. Hloupis, A. Zafeirakou</i>

A01	Literature review for tunnel kilns optimization and energy saving. K. Tzikas, X. Spiliotis, D. Kasiteropoulou	A10	Improved quality of reclaimed water after treatment by advanced oxidation processes-based prototype devices. B. Esposito, M. Capobianco, S. Gianpaolo, R. Guzzinati, F. Riminucci, M. L. Navacchia, L. Bolelli, E.N. Ferri
A02	Using waste in cement composites as a way to sustainable production of building materials. A. Estokova, M. Holosova	A11	Ecodesign of a biodegradable bio-based plug support in a circular economy perspective. C. Latella, M. Zoli, M. Costantini, J. Bacenetti
A03	Comparison of carbon footprint of individual structures in a family house. M. Fabianová, A. Ešťoková	A12	Utilization of biosolids from Municipal Wastewater Treatment Plants as soil conditioners and plant protective agents. I. Giannakis, P. Ntailiani, C. Emmanouil, A. Kungolos
A04	Utilization of waste from the dairy industry in the breeding media of Lemnaceae plants. Economic analysis. Z. Romanowska-Duda, J. Łoniewska, S. Szufa, M. Krzywonos, K. Piotrowski, C. Emmanouil, A. Kungolos	A13	Simulation of the impact of Silver Nanoparticles in groundwater and rivers from soil spills using Monte Carlo methods. R. Rosember, V. Martić, R.M. Darbra
A05	Circular waste management in the Mediterranean Agriculture sector. P. Loizia, I. Papamichael, S. Zorpa, M. Tsangas, F. Economou, J. Navaro-Pedreno, T. Rodriguez-Espinosa, M.B Almindro Candel	A14	Occurrence of microplastics in freshwater systems: visual identification methods. C. Stoica, D.G.Neidoni, C.Bumbac, S. Gheorghe
A06	Wastewater Quality Monitoring in Cyprus. K. Poulli, M. Christofidou, E. Rossidou, S. Kozakou, N. Michael, R. Kokkinofra	A15	Using Geographic Information Systems (GIS) to develop residential settlements evacuation maps during a wildfire. N. Polakis, A. Tsouchlaraki
A07	Dynamic and Utilization of Lamiaceae Plants in a Mountainous Forest Ecosystem of Greece. A.D. Solomou, G. Karetos	A16	Seasonal changes of soil erosion and its spatial distribution in river catchments in Northern Greece. D. Kitsiou, Z. Pataki, T. Nitis, A. Patera, C. Kontopoulos, B. Charalambopoulou, A. Tzepkenlis, N. Grammalidis
A08	The effects of low temperature stress on biomass production, proximate composition and fatty acid profiles of the marine thraustochytrid Schizochytrium limacinum: implications for aquafeeds. I.T. Karapanagiotidis, S. Bouras, N. Katsoulas, G. Kountrias, P. Psafakis, E.Z. Gkalogianni, A. Asimaki, D. Antoniadis, M.N. Metsoviti, G. Papapolymerou	A17	Environment, health and safety, issues and regulations affecting biotechnological research: The Italian National Project. E.Sturchio, M.Zanellato, P. Tardioli, P.Boccia
A09	Strategy for the climate in the Urban Environment and Green Infrastructures (The case of the Municipality of Thessaloniki). D. Papagiannopoulou, T. Tsitsoni	A18	eDNA-a novel approach for monitoring the aquatic macroinvertebrates diversity C. Stoica, L.D. Ionica, S. Gheorghe, A. R. Banciu, D.M. Radulescu, L. Novac, F.V. Ciobotaru, A.-M. Harabagiu, A.-M. Fulgheci, D. Rudaru, E.D. Mighiu, I.E. Lucaciu and M. Nita-Lazar

B01	The role of LULUCF sector for climate mitigation goals in Lithuania till 2050. R. Dagliūtė, V. Kazanavičiūtė, D. Miškelytė	B11	Alteration of cellular stress parameters on fish tissues, after aged and virgin microplastics ingestion. K. Michaelidou, C. Palisidou, K. Spritinoudi, K. Feidantsis, D. Bobori, A. Dimitriadi, G. Kastrinaki, D. Bikiaris and M. Kaloyianni
B02	Synthesis of carbon dots from Posidonia oceanica leaves. S. Katsantonis, N. Evgenidis, K. Passadis, K. Kordatos*	B12	Effects of oral exposure of CdSe/ZnS-COOH quantum dots on gut microbiota and bioaccumulation in tissues of <i>Salmo trutta fario</i> L. R. Butrimienė, V. Skrodenytė-Arbačiauskienė, N. Matviienko, N. Kazlauskienė, Ž. Jurgelėnė
B03	Evidence of polystyrene nanoplastic contamination and potential impacts in <i>Mya arenaria</i> clams in the Saint-Lawrence estuary (Canada). F. Gagné, C. André, S Turgeon, N Ménard	B13	Study of the protective potential of different groups bioactive substances to juvenile carp. N. Matviienko, V. Skrodenytė Arbačiauskienė, N. Rybalchenko
B04	Acute toxicity assessment and metabolism of synthetic pyrovalerone cathinones in <i>Danio rerio</i> embryo. P. García Atienza, E. Sancho, M. D. Ferrando, S. Armenta	B14	Urban green areas reduce the impact of climate change: preliminary data. A. Pataris, P. Ganatsas
B05	Early detection biomarkers of pyriproxyfen contamination in <i>Daphnia magna</i>. B. Salesa, J. Torres-Gavilá, M.D. Ferrando-Rodrigo, E. Sancho	B15	A preliminary effort to evaluate the effectiveness of the National Marine Protected Area of Alonissos Northern Sporades linked with MSFD provisions under Articles 8, 9 & 10. D. Politikos, V. Vassilopoulou
B06	Estimation of changes in future irrigation needs in Thessaly plain, Greece D.K. Papanastasiou, S. Keppas, D. Melas and N. Katsoulas	B16	Anthropogenic microplastics in sea-surface microlayer at Osaka Bay, Japan M. Zhou, H. Yanai, Y. Horie, C. K. Yap, C. Emmanouil and H. Okamura
B07	Critical comparison of selected open LCA databases/tools for compost from organic fraction of municipal wastes C. Chroni, C. Emmanouil, K. Kalkanis, I. Chronis, and C.S. Psomopoulos	B17	Preliminary environmental assessment of food waste in Greek household K. Synani, E. Sigala, C. Chroni, K. Abeliotis, K. Lasaridi
B08	Fixed-bed column studies of heavy metal and ammonium removal by using geopolymer from industrial waste as adsorbent. E. Sundhararasu, H. Runtti, S. Tuomikoski, T. Kangas, U. Lassi	B18	Assessment of the potential risk areas for marine pollution caused by shipping activity. A. Stefanakou, T. Nitis, N. Nikitakos, D. Kitsiou
B09	Preliminary assessment of macro and trace elements in marine fish from Greece. E. Zafeiraki, K.M. Kasiotis, D. Kouretas, F. Tekos, Z. Skaperda, N. Dourmpas, K. Macherá	B19	Quantitative Retention-Activity Relationships based on biopartitioning micellar chromatography for the prediction of ecotoxicity of emerging contaminants to aquatic organisms. C. Stergiopoulos, M. Ochsenkühn-Petropoulou, F. Tsopelas, K. Valko
B10	Seasonal changes of soil erosion and its spatial distribution in river catchments in Northern Greece. D. Kitsiou, Z. Pataki, T. Nitis, A. Patera, C. Kontopoulos, B. Charalambopoulou, A. Tzepkenlis, N. Grammalidis	B20	Removal of reactive dye from synthetic wastewaters by using nanobubbles technology. A. Varoutoglou, R.I. Kosheleva, D.A. Lambropoulou, A.C. Mitropoulos, G.Z. Kyzas

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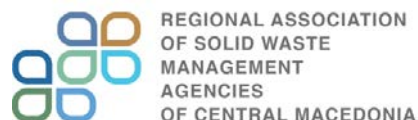


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