

**Ninth International Conference on Environmental Management,
Engineering, Planning and Economics (CEMEPE 2022)
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, 2022 • Mykonos Island, Greece

18:30-21:00 **Registration** (Myconian Imperial Hotel)

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

Chairs: **A. Kungolos, K. Aravossis, C. Laspidou, G. Papapolymerou, A. Zafeirakou and C. Emmanouil**

Opening remarks by officials

Invited lectures

Professor Dr. Y.Avnimelech

Demonstration of circular economy in biofloc controlled aquaculture as a model toward sustainable aquaculture

Professor C. Laspidou

Climate resilient regions through systemic solutions and innovations: the ARSINOE project

Professor D. Sarigiannis

The climate exposome

21:00 **Welcoming reception** at Myconian Imperial Hotel

ROOM A		ROOM B	
	Energy and Environment <i>Chairs: M. Papadaki and G. Papapolymerou</i>	Environment and Health <i>Chairs: R. San Jose and D.A. Sarigiannis</i>	
09:00-09:15	Toy Town-Building an artificial case study to demonstrate Circular Economy in the context of water within a Serious Game B. Evans, M. Khoury, L. Vamvakieridou-Lyroudia, O. Chen, N. Mustafae, A.S. Chen, S. Djordjevic and D. Savic	Simulation of airflow and pollution dispersion around high-rise and tilted towers with the CFD-LES model PALM4U R. San Jose and J.L. Perez-Camanyo	
09:15- 09:30	The role of a system selection in contemporary energy challenges M.Papadaki and G. Mihalakakou	Toxicokinetic interactions of industrial chemical mixtures as internal exposure modifiers D.A. Sarigiannis, V. Kokkaraki and S. Karakitsios	
09:30-09:45	Analysis of cast seaweed harvester technology applied at the Bay of Køge, and consequences for an efficient local biogas production-applying the lens of circular bio-economy R. Lybaek and T. Kjerfve	Comparison between analytical methods for formaldehyde determination in occupational and environmental health studies L. Fappiano, I. Notardonato, F. Carriera and P. Avino	
09:45-10:00	FAME properties and productivity of the bio-oil of <i>Chlorella sorokiniana</i> grown with low and high initial nitrogen concentrations G. Papapolymerou, M. N. Metsoviti, N. Katsoulas, I. T. Karapanagiotidis, D. Kasiteropoulou, A. Mpesios and A. Papadopoulou	Highly energy efficient degradation of cephalosporins in water based on Nanosecond Pulsed Corona Discharge Plasma S. Meropoulis, S. Giannoulia and C.A. Aggelopoulos	
10:00-10:15	An approach to Life Cycle Assessment of energy strategic planning sustainability M. Tsangas and A. Zorpas	Refining PM exposure using low-cost portable sensor data and human respiratory tract deposition modelling D.A. Sarigiannis, M. Kermeidou and S. Karakitsios	
10:15-10:30	River plumes in microtidal settings: a preliminary study A. Baldoni, E. Perugini, P. Penna, L. Parlagraeco and M. Brocchini	Removal of microplastics in a constructed wetland G. Kalčikova, U. Rozman and B. Klun	
10:30-10:45	A window into the academic term control mechanism: A thorough presentation of processed terms in the process of completing an Environmental Science Dictionary S. Christidou	Soil remediation of herbicides combining nsp-DBD cold plasma with photocatalysts M. Hatzisymeon, D. Tataraki, M. Daletou, G. Rassias and C.A. Aggelopoulos	
10:45-11:00	Factors affecting waste recycling M. C. Samolada, S. Arvanitidou and A. Kungolos	Greenhouse gases at the urban environment of Athens, Greece A. Bougiatioti, F. Pierros, K. Dimitriou, P.-Y. Quehe, M. Delmotte, M. Ramonet and N. Mihalopoulos	
11:00-11:15	Food waste generation in the retail sector: oscillating between products' abundance and waste prevention C. Chroni, E. Sigala, K. Abeliotis and K. Lasaridi	A simulation approach for plastic gloves' waste management during COVID-19 pandemic: A Case of Turkey A. Kemal Konyalioğlu, İ. Bereketli	

VIRTUAL ROOM C	
Sustainable urban planning <i>Chairs: E.E. Golia and D. Vagiona</i>	
09:15-09:30	Tourism development based on carbon related scenarios: A case study of Lefkada island, Greece <i>N. Soldatou, P. Chatzianastasiadou and D. Vagiona</i>
09:30-09:45	Pollution by potentially toxic elements: a quagmire of urban sustainability? <i>P. S. C. Aslanidis, S. G. Papadimou and E. E. Golia</i>
09:45-10:00	Sustainable development of mixed-use resorts <i>D.Moutsakis, E.K. Oikonomou, D. Pefkou and A.Guitonas</i>
10:00-10:15	River plumes in microtidal settings: a preliminary study <i>A. Baldoni, E. Perugini, P. Penna, L. Parlagraeco and M. Brocchini</i>
10:15-10:30	An approach to Life Cycle Assessment of energy strategic planning sustainability <i>M. Tsangas and A. Zorpas</i>
Sustainable production and consumption	
10:30-10:45	Sustainability in furniture manufacturing industry: a path to develop indicators <i>E. Kucuk and H. Camgoz Akdag</i>
11:15-11:45	C O F F E E B R E A K

ROOM A	
11:45-12:00	Sustainability and Resilience, through transformative innovation policy, at national and regional level <i>P. Koundouri, S.Schwaag Serger, H. Papageorgiou, Conrad Landis and A. Plataniotis</i>

ROOM B	
Sustainable production and consumption <i>Chairs: J. Jankauskienė and Y.Panagopoulos</i>	
12:15-12:30	A social research for the sustainability and resilience of Thessaloniki metropolitan area <i>P. Kosmopoulos, A. Kantzioura, I. Kosmopoulos, K. Kleskas and A. M. Kosmopoulos</i>
12:30-12:45	Visual and physical degradation of the black and white mosaic of a roman domus under Palazzo Valentini in Rome: a preliminary study <i>M.P. Sarmmartino, C. Colantonio, P. Baldassarri, P. Avino and G. Visco</i>
	Application of Green Chemistry and Circular Economy in an industrial installation using a hazardous waste as raw materials <i>Y. Panagopoulos, A. Karayannis, N. Grammatikos and N. Ntallianis</i>
	Microbial biostimulant counteracts herbicide Galera negative effects on rapeseed growth <i>J. Jankauskienė, S. Jurkonienė, V. Gavelienė, E. Jankovska-Bortkevič and R. Mockevičiūtė</i>

ROOM A		ROOM B	
12:45-13:00	Influence of rainfall infiltration on Permeable Adsorptive Barrier G.F. Santonastaso, A. Di Nardo, I. Bortone, S. Chianese and D. Musmarra		Towards the development of safe and sustainable by design chemicals, materials and products D.A. Sarigiannis, A. Gypakis and S. Karakitsios
13:00-13:15	Microplastic discharges from urban infrastructure D. Venghaus, J. Neupert, P. Lau, L. Reinhold and M. Barjenbruch		An in-depth analysis of the soil quality importance for achieving the Sustainable Development Goals and the EU Green Deal in rural areas C. A. Surlleanu, I. (Popescu) Boaja, D.-M. Boaja and A. G. Marcuța
13:15-13:30	Estimating the impact of urban planning methods in the air pollution of the open spaces' microclimate D. Chondrogianni and Y.J. Stephanedes		Innovative circular systems for brine management and resource recovery M. Loizidou
13:30-13:45	Wastewater management challenges in S. Aegean islands S. Apostolou and A. Zafeirakou		
13:45-14:00	Adsorption of Zinc and Lead in polluted urban soils O.D. Kantzou, E.E. Golia, M.A. Chartodiplomenou, S. Papadimou, N. Tsiropoulos and V. Antoniadis		
14:00-14:15	The science of the city challenge: The case study of Cyprus G. Chatziparaskeva, Fr. A. Isaak, A.M. Pavlou, A. Stylianou, A. Xenophontos, C. Xenophontos, D.M. Georgiou, E. Anastasiadi, E. Hadjigiorgi, E. Vakkou, F. Chatzianastasis, F. Orfanou, K. Costeas, L. Perikleous, L. Poumpouri, M. Christoforou, M. K. Pallari, M. Magklara, M. Pietari, M. Pittatzi, M. P. Chajimichael, N. Nikolaou, S. Hadjiconstantinou, S. Onisliou, T. Koki, T. Loizou, T. M. Papaloizou, I. Papamichael and A. A. Zorpas		
14:15-14:30	Municipal Solid Waste Logistics by Community Composting Route Analysis P. G. Saranti, A. I. Ganos and Y. J. Stephanedes		

VIRTUAL ROOM C

Advances in water and wastewater treatment I

Chairs: R. Lagoa and H Waldetoft

11:45-12:00	Fish response to removal of pharmaceuticals in municipal wastewater-a case study H. Waldetoft, B. Esfahani, T. Viktor, B. Björleinius and O.M. Karlsson
12:00-12:15	Humic acid inhibition of the laccase-catalyzed transformation of anthracene and methyl orange J. Lopes, D. Marques-da-Silva, J.R. Rodrigues and R. Lagoa
12:15-12:30	Removal of organic pollutants and copper by different alginate-based and PCL materials D. Marques-da-Silva, J. Lopes, J.R. Rodrigues, S.Monteiro and R.Lagoa

LUNCH BREAK (Light lunch is offered to conference participants)

	ROOM A	ROOM B
	Advances in water and wastewater treatment I <i>Chairs: N. Tzoupanos and A. Xenidis</i>	The Arsinooe project about climate resilient regions <i>Chairs: C. Laspidou and B. Snider</i>
15:30-15:45		Climate Change Governance: The Greek National Climate Adaptation Hub A. Voudouri, D. Konsta, G. Panagopoulou, O. Roussos and M.P. Papadopoulou
15:45-16:00		Challenges and Opportunities in transboundary water bodies in Balkan region D. Likar, S. Kasovska Georgieva, M. Papadopoulou, A. Voudouri, O. Roussos and N. Lalaj
16:00-16:15		Improving durum wheat resilience in a Mediterranean environment under climate change conditions V. Mereu, G. Carboni, P. Mulè, G. Urracci and M. Dettori
16:15-16:30	Implementation of water recovery and reuse solutions in an off-grid eco-tourist facility of Tinos Island E. Nyktari, S. Kappa, N. Bedauz, M. Kalouli, N. Kouris, C. Noutsopoulos, D. Marmais and S. Malamis	Feasibility of permutation of infrastructure nodes for improved resilience of interconnected infrastructure networks M. Khoury, G.A. Chatzistefanou, L. S. Vamvakieridou-Lyroudia, A. S. Chen, S. Djordjevic and D.Savic
16:30-16:45	Employing novel natural materials and electrochemical processes for sustainable waste-activated sludge dewatering Y. Moazen, G. Badalians Ghollikandi and R. Alizadeh	Building dynamic Knowledge Graphs for tracking Complex Socio Environmental Systems A. Zafeiropoulos, E. Fotopoulou, I. Mandilara, C.M. Androna, I. Tzanettis and S. Papavassiliou
16:45-17:00	Investigations into the use of bio char generated from bagasse in wastewater treatment-A contribution to circular economy M. Kürten, D. B. Emmanuel and F. Rögner	Improving water distribution leak management through a three-stage model; detection, localization, and response B. Snider, G. Lewis, Chen, A. and L. Vamvakieridou-Lyroudia
17:00-17:15	Advancement in waste-activated sludge dewatering methods-challenges and chances A. Hatamijfar, G. Badalians, Ghollikandi and R. Alizadeh	Exploring the potential of Citizen Science to support the monitoring of Sustainable Development Goals and to trigger societal environmental awareness N. Mellios, G. Adamos, S. Mimis and C. Laspidou
17:15-17:30	Use of response surface methodology (RSM) in removal of remazol turquoise Blue-G from aqueous solutions N. Çanakçı Durmuş and A. Y. Dursun	Developing a System Dynamics Modeling based tool for engaging farmers towards the operationalization of the WEF Nexus in agriculture K. Ziliaskopoulos, G. Tsimelas, D. Kofinas, D. Papanastasiou and C. Laspidou
17:30-17:45	Chemometric analysis of the efficiency of Bulgarian wastewater treatment plants and their impact on the receiving surface water bodies S. Tsakovski, T. Venelinov, G. Yotova and I. Tsakovska	System Dynamics Modeling and Sensitivity Analysis of the Water-Energy -Food-Climate Nexus for the case study of Greece A.E. Ioannou and C. S. Laspidou

ROOM A		ROOM B	
17:45-18:00	Synthesis and evaluation of magnetite nanoparticles properties for Cr(VI) water treatment <i>C. Mystrioti, N. Pappasiopi, E. Vasilonikolou and A. Xenidis</i>	Application of digital technologies to promote smart integration of buildings in sustainable energy sector <i>D. Likar</i>	Simple and efficient placement of wireless sensors in data-deficient water distribution networks <i>D.K. Gautam, S. Subbiah and P. Kotecha</i>
18:00-18:15	Present trends in advanced methods for the industrial wastewater treatment efficiency evaluation <i>A. Szarka and S. Hrouzková</i>	A methodology for linking the energy-related policies of the European Green Deal to the 17 SDGs using machine learning <i>P. Koundouri, N. Theodossiou, C. Stavridis, S. Devves, A. Plataniotis</i>	
18:15-18:30	Investigation of constructed wetlands' performance with the mangrove species <i>Avicennia marina</i> and <i>Rizophoramucronata</i> for the treatment of domestic wastewater <i>N. Tzoupanos, M. Saleh, R. Richter and M. Barjenbruch</i>		

VIRTUAL ROOM C	
Energy and environment <i>Chairs: P. Melidis and Z. Romanowska-Duda</i>	
16:00-16:15	Assessing circularity of multi-sectoral systems under the Water-Energy-Food-Ecosystems (WEFE) nexus <i>C.E. Nika and E. Katsou</i>
16:15-16:30	Use of rumen fluid to enhance biogas production during two-stage anaerobic digestion of corn straw <i>A. Makri, S. Ntougias and P. Melidis</i>
16:30-16:45	Simulation of temperature distribution in Thissavros reservoir (River Nestos, Greece): Investigating the importance of wind and draft tube mixer operation in thermal stratification development <i>N. Kamidis, S. Triantafyllidis, M. Koutrakis and G. Sylaios</i>
16:45-17:00	Influence of salinity on the growth and development of <i>Spirodelapolyrrhiza</i> biomass and the possibility of using it for the production of bioethanol <i>Z. Romanowska-Duda, K. Piotrowski, M. Sklodowska, M. Naliwajski and A. Kungolos</i>
Environment and health	
17:00-17:15	Waste elimination case study of breast cancer diagnosis <i>T. Beldek, H. Camgöz-Akdağ and A. K. Konyalioğlu</i>
17:15-17:30	Investigation of potential Sahara dust transport event indicators by means of aerosol trace metal concentration ratios in the Eastern Mediterranean for the years 2012-2021 <i>V. Vasilatou, E. Diapouli, M. Gini, S. Papagiannis, M. Manousakas and K. Eleftheriadis</i>

	ROOM A	ROOM B
	Ecotoxicology and environmental toxicology I <i>Chairs: L.M.F. Alves and C. Minier</i>	Data science in resource management and sustainability <i>Chairs: F.A. Aravanopoulos and G. Lewis</i>
09:00-09:15	Neuroendocrine and behavioural effects of 17α-ethynylestradiol in developing sea bass larvae (<i>Dicentrarchus labrax</i>) S. Soloperto, C. Minier, S. Olivier, A. Poret, M.-P. Halm-Lemeille, C. Jozet-Alves and S. Aroua	Web-based GIS for simulation, and visualisation: EPANET and data-rich shapefile formats G. Lewis, B. Snider, L. Vamvakieridou-Lyroudia, A. S. Chen, S. Djordjević and D. A. Savić
09:15-09:30	When invasive species meet: the effects of <i>Asparagopsis armata</i> exudates on <i>Ruditapes philippinarum</i> D. Crespo, S. Leston, L.D. Rato, A. Moutinho, F. Martinho, S.C. Novais, M.A. Pardal and M.F.L. Lemos	Developing water monitoring solutions with fiware: defining, creating, populating, and extending digital twins G. Lewis, B. Snider, L. Vamvakieridou-Lyroudia, A. S. Chen, S. Djordjević and D. A. Savić
09:30-09:45	Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems M. Kazlauskas, Ž. Jurgelėnė, R. Butrimienė, N. Kazlauskienė, D. Montvydienė	Online Multi-target Regression on Water Consumption Data Streams K.Kenda
		Ecosystem analysis and protection
09:45-10:00	Accumulation of chemical elements in blue sharks from the Northeast Atlantic: composition, sources and risks for human consumption L.M.F. Alves, M.F.L. Lemos, F. Ceia, H. Cabral, A. Moutinho and S.C. Novais	Biocementation through the carbonic anhydrase (CA) activity of microorganisms - A review W. Mwandira, M. Mavroulidou, M.J. Gunn, H. Garelick, D. Purchase, A. Esnault-Filet and J. Garelick
10:00-10:15	Effects of marine pollutants' accumulation in the lipid and fatty acid profile of blue sharks (<i>Prionace glauca</i>) A. Fernandes, T. Simões, H.R Monteiro, L.M.F. Alves, M.F.L. Lemos and S.C. Novais	Conservation genetics of the only honeysuckle azalea (<i>Rhododendron luteum</i>) population present in Greece F.A. Aravanopoulos, N. Tourvas, A. Antoniadis, S. Fotsinos and C. Michailidou
10:15-10:30	Assessment of gradients of PCBs in sediments and fish from two hot-spot areas in the Stockholm region, Sweden J. Hållén and O.M. Karlsson	Green Public Procurement framework for restoration of land-sea ecosystems O. Angeli, P. G. Saranti, Y. J. Stephanedes
10:30-10:45	Can the invasive <i>Asparagopsis armata</i> outcompete the resident <i>Ulva lactuca</i>? S. Leston, M.F.L. Lemos, S.C. Novais, A. Moutinho, D. Crespo, M. Pardal, F. Ramos, J. Carreiras, E. Feijão, R. Cruz de Carvalho, V.F. Fonseca and B. Duarte	
10:45-11:00	Relationships between metal pollution in female green sea turtles (<i>Chelonia mydas</i>) and their egg composition and fatty acid profile I. F.C. Morão, T. Simões, M.F.L. Lemos, S. Vieira and S.C. Novais	

VIRTUAL ROOM C	
Global climate change <i>Chairs: C. Cartalis and A. Konyalioğlu</i>	
09:30-09:45	A climatology of heatwaves in the Mediterranean using in-situ observations and remote sensing data- The CLIMPACT project <i>I. Agathangelidis, C. Cartalis, T. Mavroukou and A. Polydoros</i>
09:45-10:00	A fuzzy cognitive mapping approach for carbon emission factors prioritization during Covid-19 period <i>B. Kayi, A.K. Konyalioğlu and F. Çebi</i>
10:00-10:15	Assessing the risks of climate change for cultural heritage –The CLIMASCAPE project <i>C. Cartalis, A. Polydoros, T. Mavroukou, K. Philippopoulos, P. Pantazis, V. Asprogerakas, A. Samarina, S. Zoumpaki and M. Karambinis</i>
Water pollution and water management	
10:15-10:30	Hydrological and Sediment Transport analysis of the “lanos” storm event occurred on the 18-20th of September 2020, in the Mouzaki basin, Greece <i>E. Fotopoulos, A. Bournas and E. Baltas</i>
10:30-10:45	Adaptation to climate change for the case of oil refineries in Greece <i>T. Katopodis, A. Sfetsos, E. D. Adamides and A. Mountouris</i>

11:00-11:30

COFFEE BREAK

ROOM A	
Global climate change <i>Chairs: S. Malamis and I. Twardowska</i>	
11:30-11:45	Thermochemical processes for the valorization of biomass: A conceptual framework <i>K. Ulusoy, E. Bilginol, P. M.Sekuła, A.Sternik and N.Doğan-Sağlamtimur</i>
11:45-12:00	Effect of drought on the growth and accumulation of Potentially Toxic Elements in spring malting barley <i>I. Twardowska, E. Miszczak and S. Stefaniak</i>
12:00-12:15	Using Life Cycle Analysis to measure greenhouses emission from Lidar devises in agriculture sector <i>I. Youkkali, A.-A. Zorpas, P. Loizia, I. Papamichael, S. Zorpa and A. Zorpas</i>
12:15-12:30	Development and operation of a novel rainwater harvesting solution <i>I. Vasilakos, A. Eleftheriou, K. Eleftheriou, E. Nyktari, S.Kappa, N. Kouris and S.Malamis</i>

ROOM B

Ecosystems protection and restoration

Chairs: A. Zafeirakou and M. Prévost

Modeling the mercury speciation in coastal aquifer
A.E. Spyropoulou, Y. G. Lazarou and C. Laspidou

Confirmation and clearance of contamination due to sustained pressure drops in distribution networks
F. Hatam, M.-C. Besner, G. Ebacher and M. Prévost

New perspectives of an ancient aqueduct: action plan on demand for water in Athens
G. Katsouras, Th. Gkion, N. Tsalias, I. Daphnos, S. Samios, Efth. Lytras, G. Sachinis, P. Defteraios and N. Mamassis

Water resources management in the framework of sustainable strategy for touristic areas. The case study of Sifnos Island in Greece
A. Karavi, A. Zafeirakou and P. Arora

CONFERENCE PROGRAM

Tuesday, June 7, 2022 | Day 3

ROOM A		ROOM B
12:30-12:45	Climate change and NOM increase in Northern European source waters: prediction of disinfection by-products <i>Z. Maletskyi</i>	
12:45-13:00	Climate and air quality implications of ship emissions: Evaluation of rising CH₄ (methane) emissions <i>U. Y. Çalıskan, T. Satır, E. Demir and N. Doğan-Sağlamtimur</i>	
13:00-13:15	Valorizing non-conventional water sources in Mediterranean islands: the experiences and challenges of HYDROUSA project <i>S. Malamis, C. Noutsopoulos, D. Mamais, S. Kappa, N. Kouris and E. Nyktari</i>	

VIRTUAL ROOM C	
Ecotoxicology and environmental toxicology I <i>Chairs: D. Kitsiou and L. Melas</i>	
11:45-12:00	Ecotoxicology and water management for protection of aquatic ecosystems and biodiversity <i>B. Ribas, J. W. Dobrowolski and T. Žaba</i>
12:00-12:15	Protecting biodiversity: Are wild plant species more sensible to antibiotics than crop plant species? Effects on plant germination <i>L. Guasch, A. de la Torre, I. Martín, S. Sánchez, A. Garcés and M. Guerrero</i>
12:15-12:30	Evaluation of the ecotoxicological status of honey bees (<i>Apis mellifera</i>) from environments with different anthropogenic impact, using a multibiomarker approach <i>A. Di Noi, S. Casini, T. Campani, M. Romi, G. Cai and I. Caliani</i>
Risk analysis and environmental impact assessment	
12:30-12:45	Environmental assessment on traceability and authenticity tools: A methodological approach to assess the environmental performance of Mediterranean food products throughout their life cycle <i>L. Melas, A. Malamakis, M. Batsioulas, D. Geroliotos and G. Banias</i>
12:45-13:00	Hydrological-hydraulic analysis in Agios Charalambos river basin in Zakynthos Island <i>I. Sofios, A.P. Theochari and E. Baltas</i>
13:00-13:15	Visualization of soil erosion in the Aliakmonas and Axios river catchments via a webGIS application <i>A. Patera, Z. Patakı, E. Karantanellis, D. Kitsiou, T. Nitis, C. Kontopoulos, B. Charalambopoulou, A. Tzepkenlis and N. Grammalidis</i>
13:15-13:30	High resolution mapping of marine heatwaves in the Aegean Sea <i>T. Nitis, D. Kitsiou, D. Koračin and A. Patera</i>
14:30-15:30	LUNCH BREAK (Light lunch is offered to conference participants)

CONFERENCE PROGRAM

Tuesday, June 7, 2022 | Day 3

ROOM A		ROOM B	
Ecotoxicology and environmental toxicology II		Risk analysis and environmental impact assessment	
<i>Chairs: T. Burgeot and G. Carboni</i>		<i>Chairs: P. Arsenos and K. Poullos</i>	
16:00-16:15	Integrated monitoring of chemicals and their effects on four sentinel species, <i>Limanda limanda</i> , <i>Platichthys flesus</i> , <i>Nucella lapillus</i> and <i>Mytilus</i> sp, in Seine Bay: a key step towards applying biological effects to monitoring <i>T. Burgeot, F. Akcha, A Mauffret, V. Roubeix and K. Hylland</i>	16:15-16:30	Analysis of honeybees and their products employing miniaturized sample preparation techniques as a bioindication of environmental contamination <i>S. Hrouzková, I. Blažková, J. Hrouzek and A. Szarka</i>
16:30-16:45	An in vitro assay to assess the antibacterial efficacy of Cd-based, Cd-free quantum dots and Cd ²⁺ on gut bacteria from wild <i>Salmo trutta</i> fry <i>R. Butrimienė, V. Skrodenytė-Arbačiauskienė, A. Kalnaitytė, E. Januškaitė, S. Bagdonas, Ž. Jurgelėnė, D. Butkauskas, T. Virbickas, D. Montvydienė and N. Kazlauskienė</i>	16:30-16:45	Possible reductions in cost and environmental impact of construction projects with the implementation of a project document management system improving cost and communication <i>P. Arsenos and G. Giannadakis</i>
16:45-17:00	Ionic liquids-a potential threat to marine environment? <i>K. Pazdro, L. Sharma, G.Siedlewicz, J. Maculewicz, J. Dołzonek and P. Stepnowski</i>	16:45-17:00	Risk management in Czech water supply sector <i>L. Tuřovčák, J. Ručka and T. Kučera</i>
17:00-17:15	Pharmaceutical and lanthanide mixture toxicity effects over three generations of <i>Ceriodaphnia dubia</i> <i>B. Gyltė, G. Baronaitė and L. Manušađžianas</i>	17:00-17:15	Interaction of ionic liquids with human serum albumin in the view of bioconcentration <i>J. Dołzonek, D. Kowalska, D. Wyrzykowski and P. Stepnowski</i>
17:15-17:30	Insights on the toxicity of selected rare earth elements in rainbow trout hepatocytes <i>H. Hanana, J. Kowalczyk, C. André and F. Gagné</i>	17:15-17:30	Fate and colloidal transport of heavy metals in benthic lake sediments <i>S.S. Şengör and K. Ünlü</i>
17:30-17:45	The Green Fund: an entity focusing on financing programs which aim to the protection, upgrade and restoration of the environment & the LIFE Programme: the EU's funding instrument for the environment and climate action <i>G. Protopapas</i>	17:30-17:45	

CONFERENCE PROGRAM

Wednesday, June 8, 2022 | Day 4

Optional field trip to Delos and Rheneia

BANQUET

Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX Conference

June 5-9, 2022 • Mykonos Island, Greece

ROOM A	
Environmental policies	
<i>Chairs: F. Kehagia and I. Panagopoulos</i>	
09:00-09:15	Development of an e-tool to evaluate the effectiveness of European funding for the environment - European government program evaluation (EUGOPEV) <i>C. Fountzoula and K. Aravossis</i>
09:15-09:30	Introducing the Concept of “Project Burnout”: Defining burnout in the context of project management supporting sustainable project economies <i>A. Selamoglu and H. CamgözAkdag</i>
09:30-09:45	An initial assessment of Enablers and Barriers of the Climate Law implementation in Greece <i>I. Panagopoulos, A. Karayannis, K. Theophilaktos and S. Psimmenos</i>
09:45-10:00	Potential future of traditional and ecological agriculture in Palestine <i>K. Sawalha and M. Diebes</i>
10:00-10:15	The gravity of social behavior and attitude monitoring in the framework of waste management strategies <i>I. Papamichael, G. Chatziparaskeva, I. Voukkali, P. Loizia, G. Pappas and A. A. Zorpas</i>
10:15-10:30	Dynamic Approach of Circular Fashion Concerning Consumer Behavior <i>G. Chatziparaskeva, I. Papamichael, P. Loizia, I. Voukkali and A. A. Zorpas</i>
10:30-10:45	The transition to a clean, smart, safe highway infrastructure <i>F. Kehagia</i>
10:45-11:00	45 years Japanese-Polish cooperation on waterborn disease (Minamata disease of civilization) <i>J.W. Dobrowolski and T. Zaba</i>
11:00-11:15	Sustainable Development Goals - SDGs (United Nations Foundation) in relation to Circular Economy principles, as an Industry tool for Environmental, Social, and Governance (ESG) Performance <i>V. Tryfona, S. Panagopoulos and C. Panagopoulou</i>
11:15-11:45	C O F F E E B R E A K

ROOM A	
Advances in water and wastewater treatment II	
<i>Chairs: G. Kalčikova and S. Ntougias</i>	
11:45-12:00	Removal of microplastics in a constructed wetland <i>G. Kalčikova, U. Rozman and B. Klun</i>
12:00-12:15	Methylene blue adsorption from aqueous solutions with activated carbon from olive industry solid waste <i>D. Angin and S. Güneş</i>
12:15-12:30	Effect of 3,3',4',5'-tetrachlorosalicylanilide addition on the performance of an activated sludge system <i>I. Stavarakakis, N. Remmas, D. Matziri, P. Melidis and S. Ntougias</i>

A01	Exploitation of demolition wood through thermochemical conversion processes <i>D. Vamvuka and K. Zacheila</i>	A12	The application of circular economy principles at wine industry by-products, as a level of wine tourism development: the example of Agrovision <i>A.T Zamanis and E. Naziri</i>
A02	Mixotrophic cultivation of <i>Chlorella sorokiniana</i> using glycerol: comparison with heterotrophic and autotrophic cultivation <i>D. Kasiteropoulou, M. N. Metsoviti, A. Mpesios, A. Papadopoulou and G. Papapolymerou</i>	A13	Chromium recovery from wet-blue shavings and its application in leather tanning and retanning <i>T. Freitas, T. Filipe, A. Crispim, J. Gaião and J. Oliveira</i>
A03	LNG, an environmentally friendlier marine fuel <i>Z.Nivolianitou, O.Aneziris and I. Koromila</i>	A14	Footwear leather waste treatment - energetic alternative ways against landfill disposal <i>C. Alves, D. Marques and A. Crispim</i>
A04	The contribution of black locust plantations to the retention of PM10 particles <i>Ch.G. Sachanidis, M.N. Fotelli, N. Markos, N.M. Fyllas and K. Radoglou</i>	A15	Wet-blue retanning process optimization for reducing water and energy consumption, and environmental impact <i>T. Filipe, C. Alves, T. Freitas, A. Crispim and S. Dias</i>
A05	Identification of chemical ingredients in PCPs according to EU regulations that enter the sewerage system <i>Z. Karakatsani, C. Emmanouil, A. Zafeirakou and A. Kungolos</i>	A16	Removal of pharmaceutical residues from wastewater effluent by solar heterogeneous photocatalysis <i>G. Pérez-Lucas, A. El Aatik, M. Aliste, G. Navarro, J. Fenoll and S. Navarro</i>
A06	Exploring the adsorption mechanisms of cephalaxin onto clay minerals of bauxite and palygorskite <i>S. Giannoulia, A. Tekerekopoulou and C.A. Aggelopoulos</i>	A17	Photocatalytic abatement of triazine and phenylurea herbicides in wastewater effluents using TiO₂/Na₂S₂O₈ and LED lamps as UV-A light source <i>M. Aliste, G. Pérez-Lucas, A. El Aatik, G. Navarro, J. Fenoll and S. Navarro</i>
A07	Environmental Pollution impact on the brain functions. A review <i>S.A. Dedegkika, C. Emmanouil and C.S. Psomopoulos</i>	A18	Evaluation of removal herbicide from aqueous solutions by using activated carbon produced from wine industry pressing waste <i>D. Angin and S. Güneş</i>
A08	Environmental Pollution impacts mental health. A multi-evidence proof. <i>S.A. Dedegkika, C. Emmanouil and C.S. Psomopoulos</i>	A19	Description of electrocoagulation process powered by a photovoltaic system for municipal wastewater pretreatment in Northern Greece <i>D. Marmaris, C. Emmanouil and V. Diamantis</i>
A09	The principles of the industrial buildings of Thessaloniki, as parameters for the design of the model of production units, for the future cities <i>D. Karakontinos</i>	A20	A comparison between carbon footprint of water production facilities in the Canary Islands: Groundwater resources vs. Seawater desalination <i>N. Cruz-Pérez, J. C. Santamarta, J. Rodríguez-Martín and A. García-Gil</i>
A10	Management of volcanic minerals scraps: valorization into construction materials <i>F. Altimari, I. Lancellotti, F. Andreola, H. Elsayed, E. Bernardo, B. Maggi and L. Barbieri</i>	A21	Crop sustainable management in Mediterranean conditions focused on changes in the soil component. A 3-year study in Southern Sardinia <i>G. Carboni, M. Dettori, V. Mereu, P. Mulè and G. Urracci</i>
A11	Investigation of the genotoxic, cytotoxic and antigenotoxic potential of different extracts from <i>Equisetum arvense</i>, using the Cytokinesis-Block Micronucleus (CBMN) assay in human lymphocytes <i>M. Dormousoglou, D. Vlastos, S. Dailianis and M. Antonopoulou</i>	A22	Effect of pH and potassium concentration on the autotrophic cultivation of <i>Microchloropsis gaditana</i> <i>M. N. Metsoviti, I. T. Karapanagiotidis, N. Katsoulas and G. Papapolymerou</i>

B01	Assessing the effects of polystyrene microplastics in zebrafish tissues by the use of biomarkers <i>G. Malioufá, D. Bobori, A. Dimitriadi, K. Feidantsis and M. Kaloyianni</i>	B09	Climate Crisis impacts mental health. A multi-evidence analysis and projection <i>S.A. Dedegkika, C. Emmanouil, A. Kungolos and C.S. Psomopoulos</i>
B02	Development of toxicity test using a brown alga <i>Undaria pinnatifida</i> <i>M. Nomura, H. Okamura, Y. Horie, C.K. Yap, C. Emmanouil, S. Uwai and H. Kawai</i>	B10	Tetraglyme-mediated cytotoxic and genotoxic effects on human lymphocytes: the role of pH-dependent derivatives <i>N. Charalambous, M. Dormousoglou, Ch. T. Chasapis, D. Vlastos and S. Dailianis</i>
B03	Effect of temperature and Glyphosate on lipids and fatty acid composition in the mussel <i>Mytilus galloprovincialis</i>. <i>F. Biandolino, I. Parlapiano and E. Prato</i>	B11	Cytotoxicity assessment of pharmaceutical compound paroxetine on human cells. <i>A. Spyrou, A. Skourti, M. Dormousoglou, D. Vlastos and M. Antonopoulou</i>
B04	Toxicity of antidepressants in the presence of microplastics towards freshwater ciliated protozoan <i>Spirostomum ambiguum</i> <i>J. Chojnacka, A. Drobniowska, W. Lengá, J. Misztal and G. Nalecz-Jawecki</i>	B12	Treatment of hospital wastewater: control of antibiotic resistant bacteria, resistance genes and ecotoxicity <i>A. Kaliakatsos, T. Manios, S. Dokianakis, A. S. Stasinakis, M.S. Fountoulakis, I. Gounaki and D. Venieri</i>
B05	Phytotoxicity of sulfamethazine and oxytetracycline antibiotics to crop and wild plant species. <i>I. Sacristán, C. Sacristán, A. Rodríguez, M. Carballo, M. Guerrero, L. Guash and A. de la Torre</i>	B13	Chromium determination and speciation in surface waters assisted by new Cr(III)-imprinted poly(vinyl alcohol)/sodium alginate/Au NPs hybrid membranes <i>I. Dakova, P. Vasileva and I. Karadjova</i>
B06	The impact of climate change on the phenological stages of forestry species • Preliminary data <i>D. Papagiannopoulou and T. Tsitsoni</i>	B14	Uranium content in traditional Bulgarian food and beverages determined by ICP-OES - matrix interferences, calibration procedure, concentration levels <i>V. Georgiev, I. Dakova, I. Karadjova and M. Karadjov</i>
B07	Reliable simultaneous speciation of Cr(III), Cr(VI) and Mn(II), Mn(VII) in water samples using adsorption on hybrid membranes and electrothermal atomic absorption spectrometry <i>P. Vasileva, L. Djerahov and I. Karadjova</i>	B15	Recovery infiltration rates in dry galleries after storm events <i>A. García-Gill, M. A. Marazuela, J.C. Santamarta, N. Cruz-Pérez, J. Rodríguez-Martín and C. Baquedano</i>
B08	Effect of microbial biostimulants on growth, antioxidant activity and productivity of fruits and vegetables <i>R. Mockevičiūtė, S. Jurkonienė, V. Gavellienė, E. Jankovska-Bortkevič and J. Jankauskienė</i>		



ΠΡΑΣΙΝΟ ΤΑΜΕΙΟ

Έργο: Ένατο διεθνές συνέδριο στη Διαχείριση, τη Μηχανική, το Σχεδιασμό και την Οικονομική του Περιβάλλοντος
Χρηματοδότηση Πράσινο Ταμείο
Χρηματοδοτικό πρόγραμμα: Φυσικό περιβάλλον και καινοτόμες δράσεις 2022
Άξονας Προτεραιότητας: ΑΠ.2 'Δράσεις Διατήρησης Βιοποικιλότητας, Καινοτόμες δράσεις - Έξυπνες Πόλεις - Λοιπές δράσεις'
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