

## CEMEPE AND SECOTOX CONFERENCE 2019

**SUNDAY, MAY 19, 2019**

**18:00-21:00 Registration (Royal Myconian Hotel)**

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

**CHAIRS: A. Kungolos, K. Aravossis, C. Laspidou, P. Samaras, K.-W. Schramm, G. Marnellos, P. Melidis**

Opening remarks by officials

**Invited lectures**

**Professor Yiannis Mylopoulos**

School of Civil Engineering, Aristotle University of Thessaloniki, Former Rector of Aristotle University of Thessaloniki, Greece

**“Economic, Social and Environmental aspects of Metro and Tramway engineering projects. The Greek case study”**

**Professor Panagiotis Karanis**

University of Cologne, Medical Faculty, Cologne, Germany

**“Neglected pathogens and waterborne outbreaks – The Missing Opportunities for One Health Education and Research”**

**Professor Dimosthenis Sarigiannis**

School of Chemical Engineering, Aristotle University of Thessaloniki, Greece

**“Exposome science for public health protection and innovation”**

**21:00 Welcoming reception at the Royal Myconian Hotel**

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**ORAL PRESENTATIONS**

<b>MONDAY MAY 20, 2019</b>	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Industrial Waste</b> <b>CHAIRS:</b> <i>P. Melidis, S. Ntougias</i>	<b>Water Resources Engineering and Management</b> <b>CHAIRS:</b> <i>E. Kolokytha, S. Nir</i>
09:00- 09:15	Residues from the phosphate industry: reuse or disposal? <i>F. P. Carvalho</i>	“Green” energy in the framework of the sustainable development of the Mygdonia basin, Greece. <i>D. Malamataris, E. Kolokytha, A. Loukas and I. Mylopoulos</i>
09:15 – 09:30	Preparation of sludge-based recycled fertilizer. <i>S. Tuomikoski, J. Pesonen, T. Hu, H. Prokkola, S. Van der Aa and E. Sauvola</i>	Unmanned aerial vehicles in reference evapotranspiration and plant height estimation. <i>C. Papanikolaou and M. Sakellariou-Makrantonaki</i>
09:30 – 09:45	Co-valorization potential of fayalitic and FeNi slags for the production of alkali activated inorganic polymers. <i>K. Komnitsas, V. Karmali and E. Petrakis</i>	Assessment of hydrological modelling behaviour at basin scale on the number of delineated sub-basins. <i>G. Kanterakis, Ch. Skoulikaris and E. Dimitriou</i>
09:45 – 10:00	Isolation and molecular characterization of limonene-growing microbiota capable of valorizing orange juice processing waste. <i>N. Remmas, I. Zerva, and S. Ntougias</i>	Irrigated crops’ water needs in Magnesia region, Greece. <i>V. Giouvanis, D. Dimakas, V. Mpota, V. Antoniadis and M. Sakellariou-Makrantonaki</i>
10:00 – 10:15	Biodegradation potential of bacteria isolated from a fludioxonil – rich fruit processing waste. <i>I. Alexandropoulou, Z. Mavriou, P. Melidis, D.G. Karpouzias and S. Ntougias</i>	HYDROUSA - Demonstration of water loops with innovative regenerative business models for the Mediterranean Region. <i>E. Tsianou, J. Kisser and P. Karlsson</i>
10:15 – 10:30	An overview of sustainable waste-based geopolymer composites. <i>G. Kakali, V. Karayannis and D. Kioupis</i>	Water resources management in the framework of sustainable strategy. The case study of Sifnos Island Greece. <i>A. Karavi, S. Kadoglou, A. Zafirakou and A. Zorpas</i>
10:30 – 10:45	Treatment of metal working industrial wastewaters by using membrane processes. <i>M. Sarioglu Cebeci and B. Köker</i>	Portable solution for the electrochemical regeneration of activated carbon. <i>M.A. Ayllón, C. Martí and J. Mascarós</i>
10:45 – 11:00	Process development for recovery of rare earth elements from red mud. <i>A.D. Ali Dawood , T. Juzsakov and A. A. Thamer</i>	Removal of bacteria and cyanobacteria from water by combining filtration biocidal effects of free cations, coagulation, regeneration and modeling of filtration kinetics. <i>S. Nir, U. Shuali, Y. Viner-Mozzin and A. Sukenik</i>
11:00-11:15	Production of compost from textile industry cotton wastes. <i>N. Doğan-Sağlamtimur, G. Sandal, C. Ünal, M.K. Doğan and G. Yıldırım</i>	Bio-electro-Fenton (BEF) technology in wastewater treatment: Advancements, challenges and future perspectives <i>M. Nili Ardakani and G. Badalians Gholikandi</i>
11:15-11:30	Industrial effluents impact on world’s rivers: a case study of Onyi	Hybrid process of microbial fuel cell-membrane bioreactor (MFC-

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	river in Nigeria. <i>A. R. Ipeaiyeda and G. M. Obaje</i>	MBR) as a sustainable method for decentralized wastewater management <i>M. Nili Ardakani and G. Badalians Gholikandi</i>
<b>11:30 – 12:00</b>	<b>COFFEE BREAK</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
12:00 – 12:15	<b>Invited Lecture</b> Waste compositional analysis in coastal areas in the framework of blue-economy development and area metabolism <i>I. Voukkali, P. Loizia, N. Tofalli, G. Chatziparaskeya, P. Samaras, J. N. Pedreno, M. Doula, V. Inglezakis and A. Zorpas</i>	
	<b>Air Quality I</b> <b>CHAIRS:</b> <i>N. Doğan-Sağlamtimur, F. Murena</i>	<b>Global Climate Change</b> <b>CHAIRS:</b> <i>R. Dagiliūtė, J. Žaltauskaitė</i>
12:15 – 12:30	Assessment of air quality and analysis of representativeness of fixed stations from data of a regional air quality network. <i>F. Murena, M.G.R. D'Ambrosio and D. Toscano</i>	Combined effect of climate change and O <sub>3</sub> pollution on weed-crop competition of important crop species. <i>G. Kacienė, D. Miškelytė, A. Dikšaitytė, J. Žaltauskaitė, G. Sujetovienė, I. Januškaitienė and R. Juknys</i>
12:30 – 12:45	An application of air quality dispersion model for Niğde (Turkey):SO <sub>2</sub> dispersion in aermod view. <i>M. Tel and N. Doğan-Sağlamtimur</i>	Different fertilizers effect on photosynthetic resistance to drought of barely (C3) and millet (C4) under two climate conditions. <i>I. Januškaitienė</i>
12:45 – 13:00	Environmental risk of heavy metals in finer than 63 μm road dust collected from a typical industrial city in northern China. <i>X. Lu and D. Shi</i>	Effect of nitrogen deprivation on physiological and metabolic changes in <i>Brassica napus</i> under a combination of heatwave and drought. <i>A. Dikšaitytė, A. Viršilė, D. Miškelytė, I. Januškaitienė and G. Juozapaitienė</i>
13:30 – 13:45	Variation in the ability of plant species to deposit particulate matter on leaf surfaces in an industrial city of southwest Iran. <i>B. Khalilimoghadam, A. Siadat, A. Yousefi and K. Negaresh</i>	
<b>14:00 – 15:30</b>	<b>Lunch break</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Ecotoxicology</b> <b>CHAIRS:</b> <i>M. Jones-Costa, C. Theodorakis</i>	<b>Environmental Legislation and Policies</b> <b>CHAIRS:</b> <i>T. Satır, T. Tsitsoni</i>
15:30 – 15:45	Behavioral responses of European perch ( <i>Perca fluviatilis</i> ) and rainbow trout ( <i>Oncorhynchus mykiss</i> ) to exposure of complex (Pb, Zn, Cu, Cd, Ni and Cr) metal mixture. <i>T. Makaras, D. Montvydienė and N. Kazlauskienė</i>	The Hellenic Cadastre's contribution towards the conservation, protection and management of Protected Areas. <i>A. Zikouli and T. Tsitsoni</i>
15:45 – 16:00	Sublethal exposure to Roundup Transorb® impairs the cardiac function of bullfrog tadpoles. <i>M. Jones-Costa, R.Z. Rissoli, S.E. Dal-Médico, R.F. Salla, L. Franco-Belussi, F.A.P. Vidal, E.C.M. Silva-Zacarin, C.S. Carvalho</i>	Smart and Green Technologies and their application to Turkish Ports. <i>T. Satır and N. Doğan-Sağlamtimur</i>

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	<i>and F.C. Abdalla</i>	
16:00 – 16:15	Mechanisms of the impact of quantum dots to fish in early development stages. <i>N. Kazlauskienė, Ž. Jurgelėnė and R. Rotomskis</i>	Search and rescue at offshore platforms in the Greek territory. <i>A.Liaropoulos, Z. Nivolianitou and K. Sapountzaki</i>
16:15 – 16:30	S.T.R.E.S.S. (Statistical Toxicological Risk Elaboration System in <i>Stenella coeruleoalba</i> ) from organochlorine compounds (OCs): white (no hazard) or red (emergency) code? <i>L. Marsili, F. Capanni and A. D'Agostino</i>	Systems thinking for delivering the Sustainable Development Goals: What can we learn from the implementation of the EU Water Framework Directive <i>N. Voulvoulis and T. Giakoumis</i>
16:30 – 16:45	Soil organisms' response to soil fertilization with sewage sludge. <i>J. Žaltauskaitė, I. Kniuiipytė, A. Dikšaitytė, M. Praspaliauskas and N. Striūgas</i>	State of the environment reporting in Malta, as an environmental management tool. <i>V. Axiak, C. Cordina Borg, M. Piccinino, N. Cardona and N. Suda Lanzon</i>
16:45 – 17:00	Contaminant-mediated selection affects gene flow and genetic diversity in Mediterranean mussels from the Strait of Istanbul. <i>C. Theodorakis, M Meyer, K-W. Schramm and O. Okay</i>	The contribution of forestry to climate change mitigation according to the Regulation 841/2018l. <i>A. Douka</i>
17:00 – 17:15	Study of the hepato-nephrotoxic in workers of <i>Bombus atratus</i> (Apidae, Bombini) under mercury exposure at field estimated concentration. <i>P. J. Bálsamo, F. L. A. Nogueira, R. F. Salla, M. J. Costa and F. C. Abdalla</i>	The "Nudging-gentle push" psycho-behavioral model applied to an educational research project. <i>E. Stuchio, M. Zanellato, P.Boccia and M.G. Berardinelli</i>
17:15 – 17:30	Sharks and organochlorine compounds: from Australia to South Africa passing by Mediterranean Sea. <i>G. Consales, D. Cagnazzi, P. Micarelli, E. Sperone, M. K. Broadhurst, S. Rizzuto, F. Schillaci, D. Coppola and L. Marsili</i>	A survey on public knowledge, awareness and attitude, for the sustainable management of Municipal Solid Waste. <i>A. Martinis, A. Kampiotti, A. Papageorgiou and Ch. Minotou</i>
17:30-17:45		Implementation of the seven translation variables in the field of solid waste management as a part of wastewater treatment: term investigation through the use of a psychometric questionnaire. <i>S. Christidou and S. Kamaroudis</i>
17:45-18:00		Strategic environmental noise mapping. Methodological issues concerning the implementation of the EU ENVIRONMENTAL NOISE Directive. Mapping environmental noise in the Thessaloniki agglomeration. <i>I. Panagopoulos, A.Karayannis and N.Karayannis</i>
18:00 – 18:15		The governance of transboundary rivers as a factor in preserving international peace and security, preventing international crimes and promoting human rights. <i>V. Balafouta</i>

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<b>TUESDAY MAY 21, 2019</b>	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Air Quality II</b> <b>CHAIRS:</b> <i>S. Girotti, S. Karakitsios</i>	<b>Environmental Impact Assessment and Risk Analysis</b> <b>CHAIRS:</b> <i>F. C. Abdalla, C. S. Psomopoulos</i>
09:00- 09:15	Aerosol particle number, size distribution and their role as cloud condensation nuclei (CCN) in the Eastern Mediterranean. <i>P. Kalkavouras, P. Zampas, A. Bougiatioti and N. Mihalopoulos</i>	<i>C. elegans</i> model system: a useful method to test biological effects of essential oils. <i>M. Zanellato, P. Boccia, M. G. Berardinelli and E. Sturchio</i>
09:15 – 09:30	Modelling the impact pathway approach in support to local air quality planning. <i>M. Ravina, D. Panepinto and M.C. Zanetti</i>	Pesticide effects on adult freshwater insects. <i>B. Strandberg, M. Bruus, C. Kjær, P. Wiberg-Larsen, J. Rasmussen, P.B. Sørensen, S.E. Larsen and M.T. Strandberg</i>
09:30 – 09:45	Persistent free radicals presence in air particulate matter evaluated by a chemiluminescent method and chemometric analysis. <i>L. Bolelli, E. N. Ferri, E. Brattich, S. Girotti, S. Sangiorgi, P. Morozzi, J. Mestres Sanna and L. Tositti</i>	Development of a new molecular database (BiTData) as useful tool for occupational exposure studies. <i>P.Boccia, M. G. Berardinelli, M. Zanellato and E.Sturchio</i>
09:45 – 10:00	Source apportionment of PM10 in Terni (Central Italy) and spatial mapping of atmospheric element concentrations using high spatial resolution chemical data. <i>L. Massimi, M. Ristorini, S. Valentini, A. M. Girelli, R. Vecchi and S. Canepari</i>	Environmental risk for major accident hazard sites: A method for assessing environmental risk. <i>I.Panagopoulos, A.Karayannis and G.Mouzakis</i>
10:00 – 10:15	Air quality biomonitoring in an urban and industrial hot-spot of Central Italy. <i>M. Ristorini, L. Massimi, G. Simonetti, M. Frezzini, S. Canepari, M. E. Conti and G. Mele</i>	A case study of an environmental risk assessment and project evaluation in a major industrial installation in the greater Asopos river area in Greece. <i>I. Panagopoulos, A. Karayannis, P. Karayannis and E. Caroukis</i>
10:15 – 10:30	Spatial variability of fine particles number concentration in an urban area. <i>F.Murena and M.V. Prati</i>	Phytoplankton dynamics influenced by geological (submarine Volcano) and anthropogenic activities in Methana, Saronicos Gulf, Greece. <i>P. Patoucheas, O. Koukousiour, S. Psarra, K. Aligizaki, M. D. Dimiza, E. Skampa, I. Michailidis, P. Nomikou and M. V. Triantaphyllou</i>
10:30 – 10:45	Air pollution exposure management at a city level – the ICARUS approach. <i>D. Chapizanis, S. Karakitsios and D. Sarigiannis</i>	Impact of the synthetic estrogen (17 a-ethinylestradiol) on Brazilian amphibians: from physiological effects to sexual reversion. <i>R. F. Salla, C. R. Oliveira, M. T. Oschvat, J. Prado, B. F. S. Souza; T. Carvalho, L. P. Ribeiro, F. C. Abdalla, M. Jones-Costa and L. F. Toledo</i>
10:45 – 11:00	Simulation of the diffusion of air pollutants and their source contribution to the city of Patras, Greece. <i>G. Ntalaperas and P. C. Yannopoulos</i>	Ecotoxicological assessment of land spreading of treated sludge in cornfields. <i>I. Giannakis, C. Emmanouil, A. Christodoulou, J. S. Lioumbas, E. Karabougiouki, K. Kotoulas, V. Manakou, M. Mitrakas and A.</i>

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		<i>Kungolos</i>
11:00- 11:15	Diurnal variation in air ion concentrations in chickpea vegetation area at rural station Khatav (16057'N, 740 31' E). <i>G.B.Patil, S.D. Pawar, S.S.Ranananvare and J.L.Bhosale</i>	A review on the environmental impact of mineral and vegetable based insulating oils used in high voltage equipment under the eco design framework. <i>I. Chronis, S. Kalogeropoulou and C. S. Psomopoulos</i>
11:15 – 11:30		Advancing chemical risk assessment through human physiology-based biochemical process modeling. <i>D. Sarigiannis, I. Petridis, C. Akritidis and S. Karakitsios</i>
	<b>ROOM C</b>	
	<b>Waste monitoring and management</b> CHAIRS: <i>D. Babunski, A. Tuneski</i>	
09:00- 09:15	Diagnosing and controlling microbial induced corrosion in concrete sewers <i>G. Fytianos, E. Papastergiadis and P. Samaras</i>	
09:15 – 09:30	Energy efficiency improvement through modification of active sludge treatment process with the small size wastewater treatment plants. <i>I. Jovanoski, Z. Markov, A. Tuneski and D. Babunski</i>	
09:30 – 09:45	A review of the environmental impacts following major recent catastrophic incidents in the energy industry. <i>C. S. Psomopoulos, K. Kalkanis, K. Kiskira, S. Metaxa, S. D. Kaminaris, G. Ioannidis and I. Chronis</i>	
09:45 – 10:00	Utilization of enzymatic pretreatment for improving efficiency in the bio-methanation of mixed substrates. <i>D. Sarigiannis, S. Karakitsios and I. Zarkadas</i>	
10:00 – 10:15	Quantitative and qualitative evaluation of food waste in Greek hotels <i>K. Lasaridi, T. Manios, K. Abeliotis, E. Terzis, C. Chroni, F. Galliou, V. Panteli</i>	
10:15 – 10:30	Food waste prevention: from concept to practice <i>K. Lasaridi, C. Chroni, Abeliotis K., I. Daliakopoulos, T. Manios</i>	
	<b>Coastal planning and policy</b> CHAIRS: <i>D. Vagiona, C. Skoulikaris</i>	
10:45-11:00	Development of alternative forms of tourism in the coastal area of the Regional Unit of Thesprotia. <i>A. Pappa and D. Vagiona</i>	

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11:00 – 11:15	Sustainable tourism development and alternative forms of tourism in the island of Paros and Antiparos. <i>S. Manoglou, D.Prokopiou and B.Tselentis</i>	
11:15 – 11:30	Assessment of coastal erosion due to wave storms in Rhodes Island, Greece. <i>M. Chatzinaki, F.-K. Gad, D. Vandarakis, C. Kyriakidou and V. Kapsimalis</i>	
11:30 – 11:45	Vulnerability of water-food-environment nexus at coastal areas under climate change. <i>C. Skoulikaris, C. Makris, V. Mpaltikas, M. Katirtzidou and Y. Krestenitis</i>	
11:30 – 12:00	<b>COFFEE BREAK</b>	
12:00 – 12:15	<b>Invited lecture</b> Ethics in environmental-chemical science: towards a transcultural society <i>H. Frank</i>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Natural Resources Management</b> <b>CHAIRS:</b> <i>V. Karayannis, C. Tzimopoulos</i>	<b>Tourism and Environment</b> <b>CHAIRS:</b> <i>G. Sandal Erzurumlu</i>
12:15 – 12:30	Fuzzy analytical solutions of one-dimension advection-dispersion equation. <i>C. Tzimopoulos, K. Papadopoulos, C. Evangelides and B. Papadopoulos</i>	Analysis of Nigde's rural area and its future development. <i>G. Sandal Erzurumlu, G. Çetinkale Demirkan and D. Agbaba</i>
12:30 – 12:45	The response of growth and metabolites concentration of summer rape ( <i>Brassica napus</i> ) under wild mustard ( <i>Sinapis arvensis</i> ) competition and elevated CO <sub>2</sub> and temperature. <i>D. Miškelytė and A. Dikšaitytė</i>	Determination of recreational potential of Niğde Atatürk City Forest in Turkey. <i>G. Çetinkale Demirkan and G. Sandal Erzurumlu</i>
12:45-13:00	Multi-criteria evaluation of small off-grid hydro power projects in mountainous central Asia: the case-study of Rasht valley, Tajikistan. <i>H. Polatidis and S. Xenarios</i>	Environmental issues and tourism. Implications of the Greek tourism industry. <i>N. J. Pentsas</i>
13:00 – 13:15	Small area estimation in forest inventories. <i>A. Georgakis</i>	Activation of tourism at natural heritage sites in Palestine. <i>K. Sawalha</i>
13:15 – 13:30	Water consumers' profile classification via soft computing, in the framework of sustainable development. <i>V. Karayannis, K. Kokkinos, P. Samaras, E. Lakioti and G. Charalampides</i>	Urban and tourist planning for a small city in southern Brazil. <i>L.T. Dalla Libera, E.F.R.Q. Melo, A. Giglioli, T.M. Rossetto and R.H.R.Q. Melo</i>
13:30 – 13:45	Circular Economy as a development tool for Greece within the scope of Sustainable Development Goals- SDGs. <i>S.Panagopoulos and V. Tryfona</i>	Morphological analysis and space decharacterization by urban transformation in Passo Fundo, Rio Grande do Sul, Brazil. <i>L.T. Dalla Libera, E.F.R.Q. Melo, A. Giglioli, T.M. Rossetto and</i>

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		<i>R.H.R.Q. Melo</i>
13:45 – 14:00	Ecological modelling impact in view of civil engineering <i>L. Yilmaz</i>	
	<b>ROOM C</b>	
	<b>Special session:</b> Sustainable urban water management—The Water4Cities project <b>CHAIRS:</b> <i>C. Laspidou, S. Rizou</i>	
12:15-12:30	Two case studies of interactive data visualization for water resource management. <i>S. Mansoor, I. Slessor and P. Ritsos</i>	
12:30-12:45	A system dynamics model and serious gaming for the water-energy-food-land use-climate nexus: the case study of Greece <i>C. S. Laspidou, N. K. Mellios, D. T. Kofinas, A. E. Spyropoulou and A. Ioannou</i>	
12:45-13:00	Contribution of remote sensing in urban planning, regarding flood prone areas. A case study in Ljubljana, Slovenia. <i>M. Spiliotopoulos, K. Klemen, P. Pergar and C. Laspidou</i>	
13:00-13:15	Water4Cities data collection, analysis and visualization tools supporting smart water management scenarios <i>S. Rizou, K. Kenda, M. Senozetnik, P. D. Ritsos, S. Mansoor, D. Kofinas, E. Datsika, C. Papadopoulou, P. Pergar and N. Mellios</i>	
13:15-13:30	Investigation of mercury presence in the coastal area of Skiathos Island, Greece. <i>A Spyropoulou, K. Kormas and C. Laspidou</i>	
13:30-13:45	Usage of incremental learning in the dynamic water systems. <i>K. Kenda, J. Peternelj, D. Kofinas, N. Mellios and M. Senozetnik</i>	
<b>14:00– 15:30</b>	<b>Lunch break</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Water Pollution and Water Treatment</b> <b>CHAIRS:</b> <i>A. Zafeirakou, M. Sarioglu Cebeci</i>	<b>Energy and Environment I</b> <b>CHAIRS:</b> <i>T.A. Kotsopoulos, M. Papadaki</i>
15:30 – 15:45	The fate of microplastics in the aquatic environment: The case of Thermaic Gulf. <i>M. Kermenidou, I. Moschoula, D. Kousis, S. Karakitsios and D. Sarigiannis</i>	Effect of olive kernel thermal treatment on the physicochemical characteristics and gasification reactivity of as-prepared biochars. <i>N. Kaklidis, E. Papista, A. Lampropoulos, G. Varvoutis, M. Konsolakis and G.E. Marnellos</i>
15:45 – 16:00	Hydrocarbons removal from water using MWCNTs as promising	Green valorization of olive-tree waste biomass.



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	adsorbent material. <i>T. A. Abdullah, T. Juzsakova and A. D. Salman</i>	<i>M. Papadaki, V. Casson Moreno, A. Tugnoli and V. Cozzani</i>
16:00 – 16:15	The challenges of Blue Economy: Marine pollution, Port and Shipping sustainability. <i>A.Pournara, C.Emmanouil and A. Kungolos</i>	Energy and economic comparative analysis of solar desalination for various regions in Mediterranean Sea Countries. <i>V.Firfiris, A. Martzopoulou, M. Partalidou, M-L. Christou, S.Kalamaras, V. Fragos and T.A. Kotsopoulos</i>
16:15 – 16:30	Diseases resulting from water pollution in India. <i>P R. Rakhecha</i>	The effect of direct exposure at high ammonia levels of non-acclimated microorganisms on the methane potential. <i>M-L. Christou, G. Vitoulis, S. Kalamaras, A. Totsidis and T.A. Kotsopoulos</i>
16:30 – 16:45	Effects of different parameters on dye removal efficiency by photocatalytic process. <i>M. Sarioglu Cebeci and S. F. Selcuk</i>	Mathematical modeling of Mixed Culture Photofermentation for H <sub>2</sub> and PHB production. <i>V. Luongo, L. Frunzo, M. Fabbicino and F. Pirozzi</i>
16:45 – 17:00	Microplastics in drinking water supply networks: Identification techniques, reported measurements and health concerns. <i>G.A. Chatzistefanou, K. Krachtopoulos and A. Zafeirakou</i>	Energy crops potential in Greece: Estimation based on land availability and annual crops economics. <i>I.Dimou, G. Kabongo-Booto and C. Athanasiou</i>
17:00 – 17:15	Identification of norfloxacin chlorination byproducts through high-resolution mass spectrometry and assessment of antimicrobial activity and acute toxicity. <i>R.V. Médice, R. J. de Cássia Franco Afonso, M. L. Braga Almeida, S. F. de Aquino and M. Libânio</i>	Assessment of heavy metal and macronutrient in <i>Hyperiodrilus africanus</i> (earthworm) and <i>Scolopendra cingulata</i> (centipede) at coal mine sites in Enugu state, Nigeria. <i>P. C. Ogbonna, E. C. Nzegbule and P. E. Okorie</i>
17:15 – 17:30		Energy analyses and heat recovery from a rotary kiln dryer in a Triple Super Phosphate plant: A case study. <i>S. Chemki and F. Zagrouba</i>
17:30 - 17:45		The methane production in a full-scale biogas plant - a survey in two-time periods under different ammonia levels. <i>S. Kalamaras, M-L. Christou, Th. Sfetsas and T.A. Kotsopoulos</i>
<b>18:00- 19:00</b>	<b>General Assembly of SECOTOX Members</b>	

<b>WEDNESDAY MAY 22, 2019</b>
Optional field trip to Delos and Renia islands
21:00 BANQUET

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<b>THURSDAY MAY 23, 2019</b>	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Special Session: Innovative Methodologies in Water Safety Plans for Water Distribution Networks</b> <b>CHAIRS:</b> <i>E. Creaco, A. Di Nardo, D. Musmarra</i>	<b>Special Session: Exposomics</b> <b>CHAIRS:</b> <i>D. Sarigiannis, K.-W. Schramm</i>
09:00- 09:15	Assessing Cost, Water Quality, and Resilience Differences in Basic Water Network Topologies. <i>J. Gibson, Y. Guo and B. Karney</i>	Exposomics towards molecular placental exposome. <i>K.-W. Schramm</i>
09:15 – 09:30	Scaling laws of potentially contaminated nodes in water distribution systems: a complex network approach. <i>M. Nicolini</i>	Early life co-exposure to plasticizers and metals dysregulates urea cycle and choline metabolism with adverse effects on neurodevelopment: a high dimension biological analysis paradigm. <i>D. Sarigiannis, N. Papaioannou and S. Karakitsios</i>
09:30 – 09:45	Extension of hazard identification methodology during the course of Water Safety Plan creation. <i>M. Ivetic and A. Sotic</i>	Advancing chemical risk assessment through human physiology-based biochemical process modeling. <i>D. Sarigiannis and S. Karakitsios</i>
09:45 – 10:00	Pipe failure analysis in a real water distribution network. <i>C. Di Cristo and A. Leopardi</i>	Addressing complexity of health impact assessment in industrially contaminated sites via the exposome paradigm. <i>D. Sarigiannis and S. Karakitsios</i>
		<b>Fate and Transport of Pollutants</b> <b>CHAIRS:</b> <i>F. P. Carvalho, I. Twardowska</i>
10:00 – 10:15	Identifying significant risks from contamination from intrusion and regrowth in drinking water: what can utilities do? <i>M. Prévost, E. Bédard and F. Hatam</i>	Radioactive substances in municipal waste and prevention of environmental contamination risks. <i>F. P. Carvalho, J. M. Oliveira and M. Malta</i>
10:15 – 10:30	WDS rehabilitation in compliance with the tariff framework. <i>S. Santopietro, M. Righetti and R. Gargano</i>	A novel approach to peat cores as archives of soil pollution from dry and wet deposition of airborne metals. <i>E. Miszczak, S. Stefaniak, E. Steinnes and I. Twardowska</i>
10:30 – 10:45	Water safety plan for water distribution network. <i>G.F. Santonastaso, A. Di Nardo, E. Creaco, D. Musmarra and R. Greco</i>	Arsenic and lead in peat and pore waters of ombrotrophic peat bog <i>E. Miszczak and I. Twardowska</i>
10:45 – 11:00	Planning flushes to guarantee chlorine residuals and public health safeguard in water distribution networks. <i>S. Avvedimento, S. Todeschini, C. Giudicianni, A. Di Nardo, T. Walski and E. Creaco</i>	Adsorption using chitosan and zerovalent iron nanoparticle composite material for sustainable water treatment. <i>S.R. Sowmya, G M Madhu, S. Yerragolla, M. Hashir and S. Puneeth</i>
11:00-11:15	Risk assessment of public water supply systems.	

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	<i>L. Tuhovčák, J. Ručka and T. Kučera</i>	
<b>11:30 – 12:00</b>	<b>COFFEE BREAK</b>	
	<b>Energy and Environment II</b> <b>CHAIRS:</b> <i>K. Aravossis, D. Zafirakis</i>	<b>Spatial and Urban Planning</b> <b>CHAIRS:</b> <i>E. Baltas, D. Koumparou</i>
12:00 – 12:15	Investigating the energy saving in paper and plastic industries from the use of recycled paper and plastic. <i>E. Kyriakis and C. Psomopoulos</i>	Hydrological simulation on the Kouris Dam under changing climatic conditions. <i>M. Panagiotou, E. Feloni and E. Baltas</i>
12:15 – 12:30	Economic Evaluation of small-scale LNG terminals: The case of Greece. <i>E. Strantzali, S. Papathomopoulos and K. Aravossis</i>	Community-Led Local Development (CLLD) as a tool for inclusive planning and development at the local level: the case of Greece. <i>D. Koumparou, S. Goufopoulos and E. Zervas</i>
12:30 – 12:45	Multi-criteria selection of wind turbine's support structure. <i>S. Marmeloudis, and E. Loukogeorgaki</i>	Impact of flood waters on buildings: laboratory and numerical experiments. <i>M. Brocchini, G. Zitti, E. Giordano, M. Postacchini, F. Clementi and S. Lenci</i>
12:45 – 13:00	Bio-ethanol adsorption on bone-char. <i>A. Bonilla-Petriciolet, D. I. Mendoza-Castillo, H.E. Reynel-Ávila, S. Georgopoulos and M. Papadaki</i>	Road traffic noise in school complexes in the region of Municipality of Thessaloniki and evaluation of its impacts on learning process. <i>C. Antoniadis, P. Tsimenidou, M. Patsi, N. Kolettis, A. Kelessis and P. Tzoumaka</i>
13:00-13:15	Hybrid model: Distributed Generation and Biogas Commercialization for Entre Rios do Oeste. <i>M. Stilpen, B. Pinheiro, P. Belini, L.T. Lúcio, E. Trindade and J.R. da Silva</i>	Unit of corporate social responsibility for municipalities and regions. <i>A. Psomiadi, N.J. Pentsas and K. Aravossis</i>
13:15-13:30	Development of bidding strategies for wind-storage configurations with the support of advanced forecasting techniques. <i>D. Zafirakis, G. Tzanes, and J.K. Kaldellis</i>	The Social Impacts of Bikeways Evaluated with GIS. <i>R.H.R.Q. Melo, E.F.R.Q. Melo, L.T. Dalla Libera, R.H.R.Q. Melo and A. Giglioli</i>
<b>14:00 – 15:30</b>	<b>Break</b>	
	<b>ROOM A</b>	<b>ROOM B</b>
	<b>Pollution Control Technologies</b> <b>CHAIRS:</b> <i>M. Grosso, A.A. Zorpas</i>	<b>Sustainable Production and Consumption</b> <b>CHAIRS:</b> <i>V. Hulea, J. Shao</i>
15:30 – 15:45	A pH control strategy for optimizing ammonia oxidation in an alternating aerobic/anoxic system. <i>K. Azis, K. Mantzios, S. Ntougias and P. Melidis</i>	Life cycle analysis in the framework of agricultural strategic development planning in the Balkan region. <i>M. Tsangas, I. Gavriel, M. Doula, F. Xenii and A. Zorpas</i>
15:45 – 16:00	Synthesis of biosourced silica-Ag nanocomposites and hyperstoichiometric amalgamation reaction with mercury in aqueous solutions. <i>S. Azat, V.J. Inglezakis, M. Tsangas, P. Loizia and A.A. Zorpas</i>	Propylene and butenes from bio-based ethylene: heterogeneous catalysis and process. <i>R. Beucher, C. Cammarano and V. Hulea</i>

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16:00 – 16:15	Evaluation of a wheat-poplar agroforestry system in excess nutrient and pesticide reduction in soils. <i>G. Pavlidis, H. Karasali and V.A. Tsihrintzis</i>	Generating viable business model for Chinese automobile remanufacturing industry: barriers and opportunities. <i>J. Shao, S. Huang, E. Unal and I. Lemusc</i>
16:15 – 16:30	Degradation of bisphenol A by peroxy monosulfate activated with CuMnO <sub>2</sub> nanoparticles: efficiency and mechanism. <i>B. Deng and H. Zhang</i>	Comparison of kerosene and cotton oils for concentration of Eski Celtek coal by flotation. <i>S. Simsek and Y. Cebeci</i>
16:30 – 16:45	Mineralization of Reactive Black 5 by heterogeneous photo-Fenton process. <i>W. Tan, J. Ai, Y. Fan, Y. Huang and H. Zhang</i>	Prevention and reduction of food waste: the example of the AUTH University Student Camp. <i>O. Tzanni, A. Geitonas and E. Oikonomou</i>
16:45 – 17:00	Heterogeneous activation of peroxy monosulfate by La <sub>2</sub> CuO <sub>4</sub> for efficient degradation of bisphenol A. <i>H. Chen, Y. Xu, X. Tang and H. Zhang</i>	Transforming Waste to Wealth, the key approach for achieving circular economy. <i>C. S. Psomopoulos, K. Kalkanis, S. Kyriakis, S. D. Kaminaris, G. Ch. Ioannidis and N. J. Themelis</i>
17:00 – 17:15	Organochlorine pesticides (OCPs) forecasting from heavy metals determinations. <i>M.G. Bonelli and A. Manni</i>	Quality of raw milk and dairy products. A case study: Montenegro. <i>D. Jacimovic, D. Šukovic, V. Maras, V. Knezevic and Ž. Jacimovic</i>
17:15 – 17:30	Assessing the performances of paper vs. bioplastic bags for food waste delivered to anaerobic digestion. <i>M. Grosso, G. Dolci, A. Catenacci, F. Malpei and R. Fancello</i>	Sustainable practices for carbon-, waste- and water footprint reduction of agribusinesses in Balkan region-The example of a Greek winery. <i>M. K. Doula, S. Kavasilis, A.A. Zorpas, G. Stavropoulos, S. Kosmidis, Y. Troyanos, E. Roukounaki, P. Kostopoulos and A. Matiatos</i>
17:30-17:45	A MCDM (Multi Criteria Decision Making) approach to evaluate packaging waste management in Turkey. <i>A. K. Konyalıoğlu and İ. Bereketli Zafeirakopoulos</i>	

<b>FRIDAY, MAY 24 2019</b>	<b>ROOM A</b>
<b>10:30- 12:00</b>	<b>Round table: Wrapping up the conference and concluding remarks CHAIRS: K. Aravossis, A. Zafirakou, S. Girotti, A. Di Nardo</b>

**POSTER PRESENTATIONS**

MONDAY MAY 20, 2019			
Morning session (11:00 – 14:00)			
A01	Improving bricks (kaolin) performance by adding incinerator bottom ash and adjusting kiln calcination temperatures. <i>D.F. Lin, H.L. Luo, W.Z. Wang and J.W. Chen</i>	A10	Normal and bootstrap confidence intervals in Bitterlich sampling. <i>G. Stamatellos and A. Georgakis</i>
A02	Study of the thermal behavior of asphalt concrete mixed with basic oxygen furnace slags. <i>H. L. Luo, L. S. Huang, D. F. Lin, and Y. H. Liu</i>	A11	Assessing the impact of feed-in-tariff phase-out on the future integration of wind energy in the Greek electricity market. <i>D. Zafirakis, G. Tzanes, and J.K. Kaldellis</i>
A03	Comparative impacts of treated municipal wastewaters and sewage overflows to caged freshwater mussels. <i>C. André, S. Sauvé and F. Gagné</i>	A12	Preliminary results on levels of perfluoroalkylated substances (PFASs) in fish from the eastern Mediterranean Sea. <i>E. Zafeiraki and E. Dassenakis</i>
A04	Plastics and its waste: survey of attitudes. <i>R. Dagiliūtė and K. Pilžis</i>	A13	Residential retrofit assessment platform and demonstrations for near zero energy and CO <sub>2</sub> emissions with optimum cost, health, comfort and environmental quality.  <i>F. Menconi, J. Kissler and H. Gattringer</i>
A05	Environmental hazard assessment of coal tar polluted soils through a multidisciplinary approach combining chemistry, ecotoxicology and microscopy. <i>C. Lors, J.-F. Ponge and D. Damidot</i>	A14	Estimating the impact of interactions between dolphins and artisanal fisheries in the Mediterranean. <i>L. Marsili and E. Franchi</i>
A06	Equivalence testing of light-scattering device for measurement of PM10 concentration in West Macedonia. <i>V. Evagelopoulos, A. Kelessis, P. Kassomenos, D. Sotiropoulos, S. Zoras, A. Iordanidis and A. Vasileiadou</i>	A15	Geo-and biodiversity in the Parnassos National Park: Ecotourism promotion and nature trails management and enhancement. <i>T. Lanara, Ar. Mertzanis, N. Tsaprounis, As. Mertzani, V. Ferioli, G. Varvarigos, E. Koukou, V. Margaritopoulou and T. Tsitoni</i>
A07	Compost as an energy source in lignite co-combustion.	A16	Man-made eco-environmental impact on the fragile aquatic

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	<i>A. Vasileiadou, S. Zoras, A. Dimoudi, A. Iordanidis and V. Evagelopoulos</i>		ecosystems and water resources in Euboea Island (Greece). <i>A. Mertzanis, G. Efthimiou, As. Mertzani and F. Marabini</i>
A08	Effects of TiO <sub>2</sub> nanoparticles on oxidative stress status in tissues of prussian carp ( <i>Carassius gibelio</i> ) and zebrafish ( <i>Danio rerio</i> ).  <i>D.C. Bobori, P. Tsoumaki Tsouroufli, S. Karasiali, A. Dimitriadi, G. Koumoundouros and M. Kaloyianni</i>	A17	Software for shielding and organ dose calculations in X-ray diagnostics. <i>C. Zicari, G. Felicioni and C. Andenna</i>
A09	Monitoring air quality in Cyprus. <i>M.Christofidou, E. Rossidou, K. Poulli, S. Kozakou, N. Michael, E. Demetriou and, M. Aletrari</i>	A18	

<b>TUESDAY, MAY 21, 2019</b>			
<b>Morning session (11:00 – 14:00)</b>			
B01	Forty years of monitoring seawater quality in a variable bay. <i>V. Chrysopolitou, M. Seferlis, P. Tsimenidou, A. Tsaknia, A. Kelessis, P. Tzoumaka and K. Aligizaki</i>	B10	Information needs assessment of the Greek Forest Community for the management of the forests in the Natura 2000 network in Greece <i>P. Kakouros, M. Katsakiori, V. Chrysopolitou, L. Hatziordanou and S. Topalidou</i>
B02	Potential effects of pharmaceutical products to aquatic organisms. <i>M. Balode and Z. Gribanova</i>	B11	Study of the toxicity of plant protection products to cell cultures applying metabolomics. <i>E. Fotopoulou, M. Lykogianni, E. Papadimitriou, D. Thomaidou, S. Kintzios, S. Mavrikou and K. A. Aliferis</i>
B03	Comparison of analytical methods for the quantification of perfluoroalkylated substances (PFASs) in fish by using LC-MS/MS. <i>E. Zafeiraki, S. Van Leeuwen and E. Dassenakis</i>	B12	Effects of pesticides and electromagnetic fields on honeybees: a field study using biomarkers. <i>D. Lupi, P. Tremolada, M. Colombo, R. Giacchini, R. Benocci, P. Parenti, M. Parolini, G. Zambon and M. Vighi</i>
B04	Value and utilization of plants for metal phytoremediation: A promising tool of environment for sustainable development. <i>A.D. Solomou, E. Skoufogianni, D. Bartzialis, E. Golia, G. Charvalas and N.G. Danalatos</i>	B13	<i>Passiflora incarnata</i> : Extraction and characterization of valuable compounds. <i>G. Santzouk, S. Santzouk, I. Gerodimou, M.Papadaki, C. Pastore and L. di Bitonto</i>
B05	Dynamics and environmental determinants of herbaceous plants in organic cultivation of an aromatic and medicinal plant in the Mediterranean climate. <i>A.D. Solomou, E. Skoufogianni, D. Bartzialis, G. Charvalas and N.G. Danalatos</i>	B14	Towards supercritical extraction of valuable compounds from waste: Phase equilibrium measurements of CO <sub>2</sub> with diethyl succinate. <i>E. Grilla , C. A. Capeletto, M. L. Corazza, M. Papadaki and D. Mantzavinou</i>
B06	PM2.5 and gaseous pollution at one urban site in Rome. <i>C. Fanizza, A. Risuglia , F. Ietto, P. Boccia, M. Inglessis, M.</i>	B15	An analytical comparison of pump-and-treat well configurations for the remediation of contaminated groundwater.

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	<i>Ferdinandi, M. E. Soggiu and F. Incoronato</i>		<i>I. Bortone, A. Erto, G. Santonastaso, A. Di Nardo, S. Chianese, D. Musmarra</i>
B07	Enantioselective phytotoxic disturbance of dichlorprop in <i>Arabidopsis thaliana</i> : effect of cytochromes P450. <i>Yuezhong Wen, Zunwei Chen and Siyu Chen</i>	B16	Reactive cap modelling in shallow waters. <i>I. Bortone, D. Musmarra and M. Di Natale</i>
B08	Industrial scale pilot scheme for different technologies based on ultrafiltration membranes for drinking water. <i>C. Martí, M. Añó, M.A. Ayllón and H. Sancho</i>	B17	Environmental and health risk assessment of geothermal energy plants. <i>I. Bortone and P. Longhurst</i>

<b>THURSDAY, MAY 23, 2019</b>			
<b>Morning session (11:00 – 13:00)</b>			
C01	Bioaccumulation of lead and biomarkers response in edible marine bivalves: tissue specific, time and dose dependence. <i>O. Chalkiadaki, G. Spetsieris, G. Pavlidis and M. Dassenakis</i>	C11	Livestock waste management in Central Macedonia, Greece. Case Study: regional prefecture of Serres. <i>A. S. Dounavis A. Pournara and A. Kungolos</i>
C02	A theoretical framework for a comprehensive fire management analysis. Perspectives of implementation in a Greek study area. <i>S. Sakellariou, A. Sfougaris and O. Christopoulou</i>	C12	Sustainable practices for the management and reuse of olive mill waste. <i>A.S. Dounavis, A. Kungolos and K. Sahinidis</i>
C03	Preliminary results of a forest fire probability project in Chalkidiki, Greece . <i>S. Sakellariou, A. Sfougaris, O. Christopoulou, S. Tampekis and F. Samara</i>	C13	Long-term toxicity of lanthanides to <i>Daphnia magna</i> . <i>I. Blinova, A. Lukjanova, H. Vija and A. Kahru</i>
C04	Environmental benefits and recycling potential in pesticides waste management: The case study of triple rinsing in empty pesticides containers from Thrace, Greece region. <i>H. Karasali1 G. Pavlidis, and A. Marousopoulou.</i>	C14	Software for shielding and organ dose calculations in X-ray diagnostics. <i>C. Zicari, G. Felicioni and C. Andenna</i>
C05	Integrated water and energy modelling and optimisation: a sustainable design approach for island communities. <i>C. M. Papapostolou and E.M. Kondili</i>	C15	Monetizing Burdock into value-added products: A multi-objective optimization and systems integration approach towards circular economy <i>D. Sengupta, M. El-Halwagi, R. P. Stateva, S. Santzouk and M. Papadaki</i>
C06	Water-energy nexus modeling and optimisation: practical lessons learnt from the framework implementation in small island communities. <i>C. M. Papapostolou and E.M. Kondili</i>	C16	Investigation of public buildings' energy upgrade towards the sustainable city: The case of the Municipality of Komotini. <i>S.M. Bagiouk, E. Sofianou</i>
C07	Built heritage regeneration towards sustainable development:	C17	Equilibrium and kinetics study of Ni (II) and Cd (II) sorption

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	A case study from Thessaloniki, Northern Greece. <i>S.M. Bagiouk, E. Sofianou, A.S. Bagiouk and S.S. Bagiouk</i>		from aqueous solutions onto granular activated carbon. <i>S. Chegrouche, A. Mellah, M. Barkat and A.Aknoun</i>
C08	Removal of silica from brackish underground water by Fenton process coupled with $\gamma$ -irradiation. <i>F. Djouider and M. S. Aljohani</i>	C18	Distribution, sources and risks of polycyclic aromatic hydrocarbons in street dusts from Nigerian megacity, Lagos. <i>O. I. Eguavoen, M. J. Ehigbor, C. M.A. Iwegbue, K.O. Ize-Iyamu, G.O. Tesi and B.S. Martincigh</i>
C09	Atmospheric profile of some receptor locations in Lagos, Nigeria. <i>R. Alani, O. Ayejuyo, O. Akinrinade, G. Badmus, B. Ogunnaike, C. Festus and B. Alo</i>	C19	Polycyclic aromatic hydrocarbons in soils from some functional areas of Nigerian mega city, Lagos: occurrence, sources, ecological and human health risks. <i>O.I. Eguavoen, M. J. Ehigbor, C.M.A. Iwegbue, K.O. Ize-Iyamu, G. O. Tesi and B. S. Martincigh</i>
C10	Arsenic distribution and metabolism genes abundance in paddy soils from Pakistan. <i>M. Zaffar Hashmi, A. Kanwal, M. Taqui, X. Su and S. Pongpiachan</i>		