

**Sixth International Conference on Environmental Management,
Engineering, Planning and Economics (CEMEPE 2017)
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)
- Regional Association of Solid Waste Management Agencies of Central Macedonia (FODSA KM)
 - Thessaloniki Water Supply & Sewerage Co. S.A. (EYATH S.A.)

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 Technology, Alexander Technological Education Institute of Thessaloniki, Greece
 - Department of Environmental Engineering, University of Western Macedonia, Greece
 - German Research Center for Environmental Health, Germany

Under the aegis of

Department of Civil Engineering, Aristotle University of Thessaloniki
Greek Ministry of Environment and Energy
Public Power Corporation S.A. (PPC S.A.-Hellas)

June 25-30, 2017 | Thessaloniki, Greece

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Volunteering students

Chachami-Chalioi S.E., (AUTH)
Giannakis I., (AUTH)
Lithourgidis A., (AUTH)
Themeli S., (AUTH)
Tsami E., (AUTH)

Editors' Preface

The 6th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) covers the latest issues in environmental science, engineering and management and is taking place, similar to the previous ones, together with the special conference of the International Society of Ecotoxicology and Environmental Safety (SECOTOX), providing a special forum to ecotoxicology.

The 6th CEMEPE Conference deals with environmental engineering and management, incorporating subject areas related to planning and economics aiming at creating a potential for osmosis between environmentalists and other scientists such as economists, engineers, planners, policy makers etc. The conference is designed to encourage the exchange of ideas and knowledge between diverse groups of the scientific community concerned by current issues in environmental science, engineering, management, planning and economics. The 1st and 3rd CEMEPE conferences were successfully completed in the picturesque Skiathos island in June 2007 and 2011 respectively; the 2nd, 4th and 5th were held in the famous island of Mykonos in June 2009, 2013 and 2015. The current 6th CEMEPE takes place in the city of Thessaloniki, an international gateway to the northern and central part of the Greek mainland, characterized by rich cultural heritage which spans within Roman, Byzantine, Ottoman and modern times.

A total of 333 manuscripts are included in the book of abstracts. Participants from more than 35 countries contributed their work to the conference. A book of abstracts including the participations was edited and published as e-proceedings in a CD-ROM complete with ISBN number. The same was done for the submitted full papers that accompanied the abstracts. Participations have been classified in the following topics:

Pollution Control Technologies (24)

Ecotoxicology (18)

Cyanotoxins, Biosensors & Small Monitoring Systems (5)

Green Chemistry (3)

Water Pollution (29)

Natural Wastewater Treatment Systems (5)

Sustainable Water and Wastewater Management and Planning (7)

Sustainable Energy Processes (11)

Protection and Management of the Environmental Matrices: Advanced Solutions (9)

Water Resources Engineering and Management (17)

Natural Resources Management (2)

Industrial Waste (13)

Waste Monitoring and Management (10)

Air Quality (21)

Urban Aerosols and Health Effects (1)

Visual Impact and Noise Pollution (1)

Fate and Transport of Pollutants (11)

Environmental Impact Assessment and Risk Analysis (26)
Energy and Environment (14)
Renewable Energy Sources (11)
Sustainable Production and Consumption (6)
Global Climate Change (5)
Environmental Economics (12)
GIS and Remote Sensing (8)
Spatial and Urban Planning (14)
The Use of Indicators in Environmental Management,
Sustainable Development and Planning (8)
Environmental Education (4)
Environmental Legislation and Policy (8)
Ecosystems Analysis and Protection (8)
Environmental Restoration (8)
Tourism and Environment (5)
Coastal Planning and Policy (3)
Cultural Heritage and Architectural Issues (6)

The editors would like to thank and acknowledge the aid of the following:

- The SECOTOX Society for being eager to organize a joint event with CEMEPE;
- The participating authors for their scientific contribution;
- The reviewers of the participating submissions for their invaluable help; besides the members of the scientific committee the following scientists are also acknowledged: K. Abeliotis (Harokopio University), E. Beriatos (UTH), E. Economou (AUTH), Y. Frangopoulos (AUTH), I. Gitas (AUTH), F. Kehagia (AUTH), A. Kelessis (Municipality of Thessaloniki), E. Loukogeorgaki (AUTH), M. Petala (AUTH), S. Sakellariou (UTH), D. Stathakis (UTH), E. Thoidou (AUTH), V. Tsiridis (AUTH), N. Tsiropoulos (UTH), M. Vafeiadis (AUTH), D. Voutsas (AUTH).
- The sponsors of the 6th CEMEPE Conference for their financial support, which has enabled keeping the fees at a reasonable cost;
- All participants for their involvement in the exchange of knowledge, know-how and ideas, which is the essence of this conference;
- Grafima Publications for their collaboration as well as for their contribution to the editing of both the book of abstracts and the e-proceedings.

Athanassios Kungolos
Chrysi Laspidou
Konstantinos Aravossis
Petros Samaras
Karl-Werner Schramm
Georgios Marnellos

18:00-21:30 **Registration (Grand Hotel Palace)**

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

Chairs: A. Kungolos, C. Laspidou, P. Samaras, K-W. Schramm, G. Marnellos

Opening remarks by officials

Invited lectures

Professor G. Tchobanoglous

“Planned potable reuse: The last frontier”

Professor H. Frank

“Environmental protection, a matter of science, technology and ethics”

Professor Y. Mylopoulos

“Metro engineering projects as sustainable development projects”

21:30 **Welcoming reception at the Grand Hotel Palace**

ROOM A		ROOM B	
	<p>Ecotoxicology I <i>Chairs: P. Ziegler, W. Jiraukkoorskul</i></p>	<p>Air quality I <i>Chairs: F. Kehagia, D. Sarigiannis</i></p>	
09:00-09:15	<p>Pollution biomonitoring based on biomonitors and biomarkers, efficiency and limits. <i>A. Hamza-Chaffai</i></p>	<p>Polybrominated diphenyl ethers (PBDEs), polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and nitro-PAHs in household dust in Greece: implications for human exposure. <i>A. Besis, E. Botsaropoulou, D. Balla, D. Voutsas, C. Samara</i></p>	
09:15-09:30	<p>Cu accumulation in charophyte cell compartments after its exposure to nCuO and CuSO₄: reevaluation following improved isolation procedure. <i>B. Gyllyté, S. Jurkonienė, K. Sadauskas, R. Vitkus and L. Manusadižianas</i></p>	<p>Aggressive driving and its environmental impacts: a literature review. <i>A. Poulidou, F. Kehagia, M. Pitsiava-Latinopoulou</i></p>	
09:30-09:45	<p>Duckweed biomarkers for identifying toxic agents in aqueous samples? <i>P. Ziegler, K.-J. Appenroth</i></p>	<p>Evaluation of the effectiveness of air pollution control measures in Hong Kong. <i>H. Guo, I. Simpson, F. Murray, S. Saunders, S. Lam, D. Blake</i></p>	
09:45-10:00	<p>ZnO nanoparticles affect growth, development, and thyroid histopathology in African clawed frog tadpoles. <i>C. Theodorakis, V. Garlapally, D. Jennings</i></p>	<p>Application of luminol luminescent reaction for testing the oxidizing capacity of air particulate matter. <i>E. Morganti, M. Amorim, L. Bolelli, E. N. Ferri, L. Tositti, E. Brattich, S. Girotti</i></p>	
10:00-10:15	<p>Consequences of mercury (Hg) at an “environmentally safe” concentration on the Hepato-Nephrotic System (HSN) in <i>Bombus morio</i> (Hymenoptera: Bombini) workers. <i>F.L.A. Nogueira, F.C. Abdalla, P.J. Bálamo, M.J. Costa</i></p>	<p>Sources of oxidative stress induced by ambient air PMX. <i>D. Sarigiannis, S. Karakitsios, M. Kermeidou</i></p>	
10:15-10:30	<p>Ecotoxicity assessment of multicomponent mixtures of different origin (landfill leachate & biomass of harmful algae bloom) using aquatic species. <i>D. Montvydienė, T. Makaras, N. Kazlauskienė, S. Šulčius</i></p>	<p>Silvicultural research into the ability of street trees to capture heavy metals in urban environment. <i>M. Vordoglou, T. Tsitsoni, T. Samara</i></p>	
10:30-10.45	<p>Toxicity of titanium nanoparticle via <i>Artemia salina</i> histology analysis. <i>S. Kachenton, N. Kangwanrangsang, T. Tansatit, W. Jiraukkoorskul</i></p>	<p>Estimation of secondary organic carbon formation at two different Stations during winter and summer in Ankara (Turkey). <i>P. Faramarzi, S.Y. Aslanoglu, F. Ozturk, C. Saydam, G. Gullu</i></p>	
10:45-11.00	<p>Evaluation of some nano-metal oxide toxicities (nano-SiO₂, nano-HfO₂, nano-CeO₂, nano-Ta₂O₅): Comparative investigations with Microtox bioassay, algae growth inhibition and <i>Daphnia magna</i> toxicity and their bioaccumulations. <i>N. Erdiñçmer, D. T. Sponza</i></p>		
11:00-11:45	C O F F E E		B R E A K

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

Monday, 26 June 2017 | Day 2

ROOM A	
11:45-12:10	Plenary Session Overview and analysis of rapid toxicity screening tests G. Persoone
ROOM A	
Ecotoxicology II Chairs: P. Persoone, P. Karanis	
12:15-12:30	Cardiac function as a sensible biomarker of the exposure to Roundup Transorb® (glyphosate). R. Z. Rissoli, S. E. Dal-Médico, F. U. Camero, R. F. Salla, F. C. Abdalla, E. C. M. Silva-Zacarin, C. S. Carvalho, M. J. Costa
12:30-12:45	Larvicidal and histopathological studies of <i>Tinospora crispa</i> stem extract against <i>Culex quinquefasciatus</i> mosquito larva. W. Jiraungkoorskul
12:45-13:00	Evaluation of natural toxicological and geochemical risks in Pollino massif (Southern Italy). P. Boccia, S. Margiotta, C. Meconi, A. Palma, P. Ragone, E. Sturchio, V. Summa, M. Zanellato
13:00-13:15	Metals and pesticide for toxicity and natural attenuation potential assessments in soils: Bioremediation of agroecosystems and environmental preservation areas in Brazil. M. S. Vianna, J.R.Thomaz, F. Marques, P. Gismonti, A.J.S. Neto, J.P.M. Torres
13:15-13:30	Response of spring barley (<i>Hordeum vulgare</i> L.) to heavy metals mixtures exposure. J. Žaltauskaitė, G. Sujetovienė, I. Januškaitienė, A. Dikšaitytė, R. Dagliūtė
13:30-13:45	Composition of innovative adsorbents to remove mercury from waste waters. E. Karagianni, N.Papasiopi, Y. Hidenori
13:45-14:00	COD removal from metal plating wastewater by electro-oxidation process. H. Cuce, H. Dulkadiroglu
14:00-16:30	L U N C H B R E A K (lunch is offered to conference participants)
ROOM B	
Wastewater Treatment and Management Chairs: P. Gikas, C. Constantin	
12:15-12:30	Decentralized wastewater engineering in metropolitan areas. P. Gikas, H. Leveren, G. Tchobanoglous
12:30-12:45	Minimization of membrane fouling in membrane bioreactors by the control of filamentous bacteria population. D. C. Banti, P. Samaras, P. D. Karayannakidis, M. Mitrakas
12:45-13:00	Carmine (E120) removal from aqueous systems. C. Constantin, L. Stoica, C. Munteanu, A. G. Bors
13:00-13:15	Use of microsieves for primary wastewater treatment. Industrial scale application at the municipal wastewater treatment plant of Rethymnon, Greece. N.-I. Batistatos, P. Gikas
13:15-13:30	Treatment of fish processing wastewater by the active clay sediments process. P. Gikas, S. Argyropoulos
13:30-13:45	Composition of innovative adsorbents to remove mercury from waste waters. E. Karagianni, N.Papasiopi, Y. Hidenori
13:45-14:00	COD removal from metal plating wastewater by electro-oxidation process. H. Cuce, H. Dulkadiroglu

ROOM A	ROOM B
Special session: “Protection and management of the environmental matrices: advances solutions” <i>Chairs: A. Di Nardo, D. Musmarra</i>	Special session: “Sustainable water and wastewater management and planning” <i>Chairs: A. Zafirakou, V. Tsihrintzis</i>
16:30-16:45 A fuzzy optimal protection system to reduce the odorous emission from an urban waste landfill A. Di Nardo, I. Bortone, S. Chianese, M. Di Natale, A. Erto, D. Musmarra, G. F. Santonastaso	The water framework Directive and its implementation in Greece Keynote speaker: A. Kallia-Antoniou
16:45-17:00 Treatment of TMAH solutions from microelectronic industry: a combined process scheme M. Prisciandaro, V. Innocenzi, I. De Michellis, F. Tortora, G. Mazzioti di Celso, F. Veglio	Singapore’s water model: Potential application in the Aegean islands. A. Mandiliotis, A. Zafirakou
17:00-17:15 A smart optimization methodology of the pumping phase of a pump and treat system for groundwater remediation G.F. Santonastaso, I. Bortone, S. Chianese, M. Di Natale, A. Di Nardo, A. Erto, D. Musmarra	Desalination plans using renewable water resources: a sustainable solution for the water problem in Cyprus. E. Kolokytha, E. Evdokimou, Th. Porfiriadis
17:15-17:30 Capping techniques for PCBs contaminated sediment treatment in superficial water I. Bortone, M. Di Natale, G. Falcone and D. Musmarra	The impact of the economic crisis on water demand: the example of Xanthi-Greece. M. Gratzlou, E. Strataki
17:30-17:45 Optimal design of Adsorptive Barrier (PAB-D) for the groundwater remediation in multiple aromatic hydrocarbon contamination. I. Bortone, S. Chianese, A. Di Nardo, A. Erto, D. Musmarra, V. Ottobriano, D. Karatza, G.F. Santonastaso	The benefits of re-using grey water. A preliminary study for the port of Thessaloniki. A. Gatzlioura, F. Tasios, A. Vantsiotis, A. Zafirakou
17:45-18:00 Polyether sulfone microfiltration membranes produced with DMSO EVOL™ as novel solvent. T. Marino, S. Simone, A. Figoli	Upgrading a conventional wastewater treatment plant to a membrane bioreactor. Case study: WWTP of Nikiti-Chalkidiki. A. S. Bagliouk, S. M. Bagliouk, E. N. Darakas
18:00-18:15 Molecular structure of humic acids: environmental applications. V. Leone, S. Capasso, C. Esposito, S. Chianese, D. Musmarra, P. Iovino	Microbial colonization of anaerobic biofilms: a mathematical model. B. D’Acunto, G. Esposito, L. Frunzo, V. Luongo, M.R. Mattei, F. Pirozzi
18:15-18:30 Effect of reactive core mat on in-situ remediation of contaminated marine sediment. F. Todaro, M. Romanelli, V. Sorrenti, S. De Gisi, M. Notarnicola	Nanotechnology enhanced membrane desalination-new advancements. S. Papatzani, A. Zafirakou

	ROOM C	ROOM D
	<p>Fate and transport of pollutants <i>Chairs: B. Škrbić, I. Twardowska</i></p>	<p>Renewable energy sources <i>Chairs: K. Katsifarakis, N. Theodossiou</i></p>
09:00-09:15	<p>Effect of airborne element emission from the steel plant on soil pollution and metal enrichment in herbal cover in the vicinity area. <i>I. Twardowska, E.Miszczak, A. Łukasik, S. Stefaniak</i></p>	<p>Scaling up the stagnant small-scale hydropower capacities in EU. <i>I Kougias, T Patsialis, N Kazakis, P Droege, S Szabó, N Theodossiou</i></p>
09:15-09:30	<p>A New multi-objective routing optimization model for evaluating CO₂ emission and cost: A case study in Turkey. <i>M. Kayaci Çodur, M. Yilmaz, M. Y. Çodur</i></p>	<p>The Green island solution for Aegean Archipelago. The case of TILOS Project. <i>J.K. Kaldellis, D. Zafirakis, E. Kondili</i></p>
09:30-09:45	<p>Telling the story of a sediment particle: its source and pathway. <i>T. Papanicolaou</i></p>	<p>On the Use of a Laboratory-Scale Screw Wheel for Pico Hydropower Generation in Renewable Energy M.Sc. Education <i>A. Stergiopoulou, D. Stamatelou, V. Stergiopoulos, K. Tsigarida, G. Klironomos, S. Stavrakidis, M. Theodoridou, K. Mpavellis, G. Pallas, S. Chasioti, D. Nikas, D. Demetriadis, G. Abdel-Taouamb, E. Petrou, M. Syrganis, K. Panagopoulou, K. Rapti, G. Kanakidis, V. Georgopoulou, P. Gourdomichalis</i></p>
09:45-10:00	<p>Heavy elements in flooded soil: Levels and risk assessment. <i>B. Škrbić, J. Živančev, N. Đurišić-Mladenović, I. Antić, J. Cvejanov</i></p>	<p>Criteria and methodologies for onshore and offshore windfarm site selection: A literature review research. <i>A. Billy, D. Vagiona</i></p>
10:00-10:15	<p>Measuring and modeling the transport and fate of hydrocarbons in the Gulf of Mexico. <i>V.H. Kourafalou, Y.S. Androurlidakis, M. Le Hénaff, H. Kang, O. Garcia, C. Hu, C. Wettre, L. Hole</i></p>	<p>Demonstration of Good Practices to minimize impacts of Wind farms on Biodiversity in Greece- Presentation of the project LIFE12BIO/GR/000554. <i>E. Tzen, K. Rossisa, J. Fricb, V. Goritsas, M. Tzali, A. Dimalaxis</i></p>
10:15-10:30	<p>An aggregated indicator of air-pollution impacts involved by transports. <i>Tshiabende Tshibwabwa, Ngalula Kabamba Nathalie, Luse Ngandu Marielle, Bintu Muana Jeanne</i></p>	<p>Solar photovoltaic water pumping system for the development of rural areas: Applications in Tunisia. <i>J. Chakchak, N. Sabit Cetin</i></p>
10:30-10:45	<p>Agroforestry systems for the protection of soil and groundwater from agrochemical pollution. <i>G. Pavlidis, V.A. Tshrintzis, H. Karasali</i></p>	<p>Energy self-efficiency on Greek islands: the case of Andros, Tinos, Mikonos. <i>Th. Klothaki, D. Vagiona</i></p>
10:45-11:00	<p>Effects of biochar on sandy soil health under arid and semiarid conditions. <i>M.M. Abed El-Azeim, S. A. Haddad</i></p>	<p>Effect of MgO And SiO₂ Nanoparticle Additives on Performance and Exhaust Emissions of Diesel Fuelled Compression Ignition Engine. <i>T. Özgür, E. Tosun, C. Özgür, G. Tüccar, K. Aydın</i></p>
11:00-11:15		<p>Investigation of Availability of Mustard Oil Biodiesel as an Alternative Fuel in Compression Ignition Engines <i>G. Tüccar, E. Uludamar, T. Özgür C. Özgür, E. Tosun</i></p>
11:00-11:45	C O F F E E	B R E A K

ROOM C		ROOM D	
Environmental economics <i>Chairs: A. A. Zorpas, D. Latinopoulos</i>		Energy and environment <i>Chairs: A. Bobat, N. Papanasiopi</i>	
12:15-12:30	Assessing the perceived value of air quality improvement in an industrial region: The case of Kozani, Greece. A. Saleptsis, Z. Mallios	Energy recovery from domestic food wastes via microbiological processes. I. Ntaikou, G., Antonopoulou, M. Alexandropoulou, G Lyberatos	
12:30-12:45	Evaluation of the implemented Environmental Management Systems (ISO 14001-EMAS) in Cyprus in the framework of BRAVER. L. Pantelitsa, I. Voukkali, A. A. Zorpas	A social survey (2016-2017) on how the economic crisis affects peoples' attitudes towards the environmental subjects. P. Kosmopoulos. A. Kantzioura, I. Kosmopoulos, K. Kleskas, A. M. Kosmopoulos	
12:45-13:00	The effect of using geoengineering technologies to stabilize global temperature on international climate agreements. S. Rallakis, E. S. Sartzetakis	An experiment on consumption of zebra mussels by freshwater crayfish, <i>Astacus leptodactylus</i>. A. Bobat	
13:00-13:15	Effects of energy and environmental policy on the renewable energy industry: A comparison of the developed countries and developing countries. J. Yoo, I. Han, K. Oh	Modelling soil temperatures in grassland ground mounted solar photovoltaic parks. M. Makaronidou, A. Armstrong, N. Kettridge	
13:15-13:30	Environmental technical efficiency and technological change in China. L. Zhang, Keun Yeob Oh	Development and monitoring of carbon dioxide emission inventories of municipalities-Challenges and opportunities. K. Angelakoglou, G. Gaidajis, I. Kakanis	
13:30-13:45	Economic rehabilitation of local population in the post - mining situation. A. Jamal, R. Kumar, R. Varshney, S. Shirin, S. Ratan, A. Kumar Yadav	Legal aspects of the installation of wind power stations in forests/forest areas A. Douka	
13:45-14:00	Sustainable supply chain network design with water footprint consideration: A strategic optimisation model. E. Aivazidou, D. Vlachos	Estimating transportation energy demand in Turkey using the Adaptive Neuro Fuzzy Inference System. M.Y. Çodur, A. Ünal, A. Atalay	
14:00-14:15	Willingness to undertake the environmental responsibility by the irrigators. D Lazaridou., A. Michailidis, P. Stefanidis and M. Trigkas		
14:00-16:30	L U N C H B R E A K (lunch is offered to conference participants)		

ROOM C		ROOM D	
	Industrial waste <i>Chairs: V. Karayannis, M. Y. Çodur</i>	Renewable energy sources <i>Chairs: N. Doğan-Sağlamtimur, E. Baltas</i>	
16:30-16:45	Solvent extraction of zinc, iron and chromium from chromium(III) passivation baths by Cyanex 272. <i>F.J.Aguacil, N. Dibanb, A.Urtiaga</i>	Production of geopolymer building materials with sodium silicate activator by using waste foundry sand: A reuse study. <i>N. Doğan-Sağlamtimur, A. Bilgil, Ş. Acar, E. Bilginol</i>	
16:45-17:00	Transformation of biomedical waste incineration ash into sustainable ceramics. <i>V. Karayannis, A. Baklavariadis, P. Samaras, A. Domopoulou, E. Papastergiadis</i>	A municipal solid waste management assessment guide for waste management plans and reporting. <i>A. Mitsikas, K. Aravossis</i>	
17:00-17:15	Potential CO₂ utilization in a symbiotic network: Case study in NE Greece. <i>I. Kakanis, G. Gaidajis, K. Angelakoglou</i>	Rainwater and leachate management at sanitary landfills. The case of the residue sanitary landfill of Alexandroupolis. <i>S. Sigourou, N. Theodossiou</i>	
17:15-17:30	The effect of color parameter in acute toxicity measurements through luminescence inhibition method. <i>V. Z. Sönmez, N. Sivri</i>	The impact of circular economy policy in insular communities and difficulties for implementation. <i>L. Pantelitsa, A. A. Zorpas, M. Jeguirim, L. Limousy, D. M. Pociovalisteanu, J. Navarro-Pedreño</i>	
17:30-17:45	Immobilization of heavy metals in waste phosphate coating sludge using kiln dust as Portland cement substitute. <i>G. Eker, V. Pinarlı</i>	Reuse of walnut, hazelnut and pistachio shells to produce dye. <i>T. Çivioğlu, R. Arabacıoğlu, N. Doğan-Sağlamtimur, E. Turaç</i>	
17:45-18:00	A case study on environmental management of denim factory for sustainable production in Turkey. <i>A. Pala, M. Saribudak</i>	A data-driven approach for waste management evaluation in Turkey. <i>I. Bereketi Zafeirakopoulos</i>	

ROOM A		ROOM B	
	Pollution control technologies <i>Chairs: P. Melidis, E. Darakas</i>		Environmental impact assessment and risk analysis I <i>Chairs: A. Muhammetoglu, S. Tugrul</i>
09:00-09:15	Biological and filtration process control in a Membrane Bioreactor. K. Azis, P. Melidis and S. Ntougias		Environmental assessment of conventional building materials combining life cycle analysis method and multi-criteria analysis models. K. Sentzas, L. Pekas, I. Youkkali, P. Loizia, A.A.Zorpas
09:15-09:30	Water softening plant residuals management. A. P. Mathews		Effectiveness evaluation of Environmental Impact Assessment process. M. Lampridi, G. Banias, K. Pediaditi, Ch. Achillas and E. Sartzetakis
09:30-09:45	Spectroscopic evaluation of modified biosolids. E. Giannakopoulos, E. Isari, S. Alexandropoulou, K. Bourikas, H. K. Karapanagioti, . Kalavrouziotis		Using Pinus halepensis trees as bioindicators of heavy metal pollution. N. Nanos, M Torrijos, M. Escuer, C. Gutierrez, J.A. Rodriguez Martín
09:45-10:00	Removal of polycyclic aromatic hydrocarbons (PAHs)-contaminated sediments by persulfate oxidation and their cytotoxicity based on human cell lines. C.-W. Chen, M.-L. Tsai, C.-D. Dong, C.-M. Hung		Artificial intelligence in atmospheric PM10 forecasting in public and environmental management. G.N. Kouziokas, K. Perakis, A. Chatzigeorgiou
10:00-10:15	Treatment of acrylic fiber manufacturing wastewater with UV Based AOPs. W. Szeto, D.Y.C. Leung, H.B. Huang, J.T Li		Long-term impacts of human-induced eutrophication on the distinct chemical properties of Black Sea oxic-suboxic waters. S. Tugrul
10:15-10:30	Particle size distribution: a tool to evaluate the effect of ultrasonication on biological treatability. H. Dulkadiroglu		Pesticides risk assessment for two karstic aquifers in Turkey and Morocco. R. Keyikoglu, Y. Azzi, A. Muhammetoglu, Ali Essahlaoui, A. El Hmaid, A. El Ouali, H. Muhammetoglu
10:30-10:45	Pollution control technologies in Turkey with the contribution of EMSA-CleanSeaNet service. T. Sahin, S. Can		Eutrophication assessment, classification and management in the Northeastern Mediterranean Sea. S. Tugrul, K. Ozhan, I. Akçay
10:45-11:00	Degradation of disperse red 167 dye by Fenton oxidation process. Ö. Gökkuş, F. Çiner		Assessing the impact of hazardous waste on children's health: the exposome paradigm. D. Sarigiannis
11:00- 11:15	Efficient removal of F- from water by mesoporous Ce-Fe bimetal oxide. U. Kumar Sahu, M. Kumar Sahu, R. Kishore Patel		Advanced modeling of adipose: blood partition coefficient for environmental chemicals. D. Sarigiannis, K. Papadaki, S. Karakitsios
11:15-11:30	In vitro evaluation of cytotoxicity induced by persulfate oxidation of BTEX and MTBE in zebrafish (Danio rerio) embryonic cells. C.-D. Dong, M.-L. Tsai, C.-W. Chen, C.-M. Hung		
11:00-11:45	C O F F E E		B R E A K

	ROOM A	ROOM B
	<p>Sensors, biosensors, biomarkers and smart environmental monitoring Chairs: C. Laspidou, K.-W. Schramm</p>	<p>Environmental impact assessment and risk analysis II Chairs: K. Abeliotis, N. Vlachopoulos</p>
11:45-12:00	<p>Structure and stability of anatoxin-a, anatoxin-a(S), saxitoxin and cylindrospermopsin complexes with cyclodextrins. S.M. Strati, T. Papadimitriou, C.S. Laspidou, K.A. Kormas, Y.G. Lazarou</p>	<p>Environmental impacts of WEEE collection and reuse. K. Abeliotis, A. Potouridis, C. Chroni, K. Lasaridi</p>
12:00-12:15	<p>Development of a ready to use cryo-micro-EROD assay for the analysis of food and feed control samples. F. Mertes, A. Loq, L. Rink, P. Uciechowski, M. Maywald, W. Levy, K.-W. Schramm</p>	<p>Environmental monitoring and risk assessment of 65 small arms firing ranges in Canada. E.M. Skordaki, N. Vlachopoulos</p>
12:15-12:30	<p>Eco-friendly development of an early warning system in struggle of Varroa destructor. S. Sevin, S. Mutlu</p>	<p>Economic and environmental comparison of UF/MF versus conventional pretreatment for SWRO systems. P. Mudza</p>
12:30-12:45	<p>Enhancing urban sustainability through social innovation: citizen environmental sensing for air quality monitoring. M. Angelidou, A. Psaltoglou</p>	<p>Opening up of a Greek mountainous forest area for utilization of forest roads and forest fire protection. S.-A. G. Liampas, C. C. Stamatidou, V. C. Drosos</p>
12:45-13:00	<p>Exposure assessment of multiple chemicals starting from biomonitoring data. D.A. Sarigiannis, Handakas, A. Gotti, S. Karakitsios</p>	<p>Experience with the use of multispecies microbial assays for whole effluent assessment (WEA) as part of a risk based approach (RBA) to effluent management in the oil and gas industry. T. Dando, C. Phillips, C. Ross</p>
13:00-13:15	<p>Can Agent Based Modelling, coupled with sensors data, be used for personal exposure assessment? D. Chapizanis, S. Karakitsios, D. Sarigiannis</p>	<p>Assessment of public health risk from arsenic using biomarkers and toxicokinetic modeling D. Sarigiannis, S. Karakitsios, I. Furxhi</p>
13:15-13:30	<p>Development and testing of a low cost air quality microsensor device. Th. Sioumis, K. Karatzas</p>	<p>Risk-based solvent selection using pinch analysis in the presence of environmental constraints. V. Kazantzzi, M.K. Kazi, F. Eljack, M.M. El-Halwagi, N. Kazantzzi</p>
13:30-13:45		<p>Pathway analysis of prenatal combined exposure to heavy metals and phthalates related child motor development. D.A. Sarigiannis, K. Polanska, W. Hanke, A. Salifoglou, A. Gabriel, N. Papaioannou, E. Handakas, S. Karakitsios</p>
14:00-16:30	LUNCH BREAK (lunch is offered to conference participants)	
15:30-16:30	General Assembly OF SECOTOX Members	

ROOM A		ROOM b	
	GIS and remote sensing <i>Chairs: A. O. Dogru, Z. Mallios</i>		Spatial and urban planning <i>Chairs: G. Kollaros and P. Kosmopoulos</i>
16:30-16:45	Assessment of mesoscale model improvements using satellite data. T. Nitis, G. Tsegas, N. Moussiopoulos		Eco-choros: a prototype ecological and zero energy demand housing complex in northern Greece. P. Kosmopoulos, L. Chalatzidou, Ch. Chasan, Cr. Gouzeli, D. Kameni, G. Karkanias, K. Nikolaidou, K. Stefanopoulos, El. Titoni
16:45-17:00	Developing a GIS based open platform for spatial evaluation of renewable energy sources in Turkey. A.O. Dogru, D. Z. Seker, T. Sen, E.N. Ozkilic		A holistic approach in support of air quality for future green and resilient cities. D.A. Sarigiannis, A. Gotti, S. Karakitsios, E. Matiaki
17:00-17:15	Delineation of fertilizing management zones using remote sensing and GIS at field scale. A. Papadopoulos, D. Kalivas, S. Theocharopoulos		Spatial impacts of transportation infrastructure in urban environments. G. Kollaros, A. Athanasopoulou
17:15-17:30	Investigation of the optimal locations for sitting PV plants in the section of Halkidiki, by using GIS. D. Kanari, D. Latinopoulos		The protective and recreational role of peri-urban forest and its connection with the city. The case study of Thessaloniki. T. Tsitsoni, V. Stavrinou, M. Tsakalidimi
17:30-17:45	Development of a webGIS tool to assess the accuracy of spatial interpolators in oceanographic studies. D. Kitiou, G. Tsegas, T. Nitis, A. Patera		Sustainable mobility in cities with intense terrain case study of Kavala. K. I. Lantitsou, V. Profyllidis
17:45-18:00	Environmental change detection in northern Istanbul using remotely sensed data. R.M. David, C. Goksel, A.O. Dogru		Effect of surrounding landscape on driving behavior. M. Vaiou, F. Vlachou, F. Kehagia
18:00-18:15	Road corridor landslide susceptibility mapping in Bhutan using GIS S. Pasang, P. Kubiček		Major highway projects impacting biodiversity and water resources. G. Kollaros, A. Athanasopoulou
18:15-18:30	Usage of Geostatistics for air quality monitoring in megacities; Case study of Istanbul. A.O. Dogru, D. Z. Seker, E. Ergin, B. Bayram		

ROOM C		ROOM D	
Water pollution I <i>Chairs: M. Sarioglu, F.J. Alguacil</i>		Water resources engineering and management I <i>Chairs: P. Yannopoulos, E. Kolokytha</i>	
09:00-09:15	Treatment of ammonia in aqueous solution by photocatalytic process with applying bias potential. <i>Y. Ku, W. C. Chi and H. C. Wu</i>	09:00-09:15	Area-wide optimization program for water and sewage treatment plants across Canada. <i>N. Vlachopoulos, E. M. Skordaki</i>
09:15-09:30	Oxygen demand of waters associated with the use of sewage sludge compost and limestone outcrop as filtration system. <i>A. Pérez-Gimeno, J. Navarro-Pedreño, M.B. Almendro-Candel, I. Gómez, A.A. Zorpas</i>	09:15-09:30	Drinking water quality and safety assessment-a review. <i>S. Tsitsifli, V. Kanakoudis</i>
09:30-09:45	Treatment of automotive industry wastewater using nanofiltration membrane. <i>M. Sarioglu (Cebeci), T. Torun</i>	09:30-09:45	Extension of an integrated hydroeconomic model of Lake Karla basin, under management, climate and pricing scenario analysis. <i>A. Alamanos, C. Fafoutis, G. Papaioannou, N. Mylopoulos</i>
09:45-10:00	Investigation of oxidation and mineralization of Dimethoate Pesticide - an endocrine disruptor using response surface methodology and Fe⁺² process. <i>M. Yalili Kilic, S.K. Akal Solmaz, G.E. Üstün, S.H. Azak</i>	09:45-10:00	Correction technique of quick river discharge estimates based on water volume and mass pollutant balances: Nonlinear model. <i>E. Bekri, P. Economou, P. Yannopoulos</i>
10:00-10:15	Batch and continuous ion-exchange operation for the removal of toxic metals from aqueous wastes: the system arsenic(V)-Lewatit MP64 resin. <i>F.J. Alguacil, E. Escudero</i>	10:00-10:15	Integrated water resources management in small islands. The case study of Chios. <i>D. Kakoulas, S. Golfopoulos</i>
10:15-10:30	Synthesis, characterization and adsorption studies of ZnO nanoparticles for removing methyl orange and amaranth dyes from aqueous solution. <i>M.-N. Zafar, Q. Dar, F. Nawaz, U.-A. Rana</i>	10:15-10:30	A methodology for the estimation of the water balance in GIS environment. <i>A. Dailios, Z. Mallios</i>
10:30-10:45	Removal of hexavalent chromium from aqueous solution using alginate-wheat straw composite. <i>Ş. Parlalyici, T. Altun, E. Pehlivan</i>	10:30-10:45	Assessment of the impact of changes in climate and land use/land cover on ecosystem services of a river watershed in Peninsular India. <i>A. Sharma, M. Khan, M. Kumar Goyal</i>
10:45-11:00	Toxic metal enrichment and accumulation in lake sediment – Case study Sapanca Lake. <i>A.Ateş, H.Demirel</i>	10:45-11:00	Groundwater vulnerability to agricultural pollution for two karstic aquifers in Turkey and Morocco. <i>A. Cil, Y. Azzi, A. Amil, F. Yenilmez, A. Muhammetoglu, N. N. Ozyurt, A. Essahlaoui, A. El Hmaid, A. El Ouali, H. Muhammetoglu</i>
11:00-11:15	Carbon nanotubes and graphenes as adsorbents for adsorption of toxic metals from drinking water. <i>Y. M. Aydin, V. Uyak, Hacer Sule Gonul</i>	11:00-11:15	Spatial statistics and climate data modeling. <i>S. Sotiriadou, Z. Mallios</i>
11:00-11:45	C O F F E E	11:00-11:45	B R E A K

Water pollution II <i>Chairs: D. Voutsas, Y. Uysal</i>		Special Session: “Sustainable energy processes: Anaerobic processes” <i>Chairs: P. Samaras, G. Marnellos</i>
11:45-12:00	Interacting heated buoyant jets in a calm and uniform environment. <i>M. Stefanidou, A. Dimas, P. Yannopoulos</i>	Anaerobic fluidized bed membrane bioreactor treatment of domestic wastewater for the recovery of water, nutrients, and energy. <i>C. Shin, E. Lee, J. Bae</i>
12:00-12:15	Investigation of industrial wastewater treatment using ultrafiltration membrane. <i>M. Sarioglu (Cebeci), E. N. Urlu</i>	Mesophilic anaerobic co-digestion process of swine manure and olive mill waste with cheese whey. <i>T. Kasampalis, T. Kotsopoulos, G. Perkoulidis, S. Kalamaras, N. Moussiopoulos, G. Martzopoulos</i>
12:15-12:30	Determination of perfluorinated chemicals (PFOA/PFOS) in surface water samples in Kahramanmaraş, Turkey. <i>Y. Uysal, Y. Uras</i>	Effect of lipolytic enzymatic pretreatment in the anaerobic digestion of fat, oil and grease (FOG). <i>D. Sarigiannis, F. Kaldis, P. Katapodis, M. Lioti, R. Fried, I. Zarkadas</i>
12:30-12:45	Iodinated trihalomethanes: a new class of emerging DBPs. <i>I. Pantelaki, D. Voutsas</i>	Ex-situ biogas upgrading and enhancement in upflow reactors via hydrogen assisted methanogenesis. <i>P.G. Kougias, L. Treu, I. Bassani, I. Angelidaki</i>
12:45-13:00	Removal of Pb³⁺ from aqueous solution using citric acid modified hazelnut shell and commercial cellulose. <i>T. Altun, Ş. Parlalyici, E. Pehlivan</i>	Installation and operation process of a biogas production unit, in Kolchiko, Lagkadas, Greece. <i>V. Mouratidis, T. Sfetsas, A. Martzopoulou, G. Ntinis, T. Kotsopoulos</i>
		Special Session: “Sustainable energy processes: Fuel Cells” <i>Chairs: M. Sievers, C.S. Psomopoulos</i>
13:00-13:15	Status of Gomati River water in Lucknow City (India), with special reference to water quality and heavy metal pollution indices. <i>Pooja Goel, Abhishek Saxena, Dhruv Sen Singh</i>	Direct conversion of biomass to electricity in a Co-CeO₂ YSZ Ag solid oxide fuel cell. <i>N. Kaklidis, M. Neophytou, G.E. Marnellos and M. Konsolakis</i>
13:15-13:30	Developing a modified trophic state index for shallow lakes. <i>A. Alkis, S. Tunay, R. Koklu</i>	Evaluation of microbial fuel cells with graphite plus Co3O4 paints as oxygen reduction cathode catalyst by using different forms of TiO₂. <i>B. Jiang, T. Muddemann, U. Kunz, D. Haupt, M. Niedermeiser, H. Bormann, O. Schläfer, M. Sievers</i>
13:30-13:45	Removal of As(III) from water by activated CO₂-neutralized red mud. <i>M. Kumar Sahu, R. Patel</i>	Advances in microbial fuel cell development for wastewater treatment application. <i>M. Sievers, B. Jiang, D. Haupt, T. Muddemann, H. Bormann, M. Niedermeiser, O. Schläfer, U. Kunz, R. Henkel, T. Hickmann</i>

		Special Session: “Sustainable energy processes: Energy efficiency” <i>Chairs: M. Sievers, C.S. Psomopoulos</i>
13:45-14:00	Bottled water and the human right to water. D. Koumparou	Evaluation of energy recovery perspectives from residual forest biomass in Grevena prefecture. N. Chatziapostolou, G. Perkoulidis, N. Moussiopoulos
14:00- 14:15		MSW to energy in Dhaka landfill: A method of sustainable solid waste management. K. Asad, N. Khandaker
14:15-14:30		Current state of the Waste-to-Energy industry globally. K. Patsiouras, C.S. Psomopoulos, N. J. Themelis
14:00-16:30	L U N C H B R E A K (lunch is offered to conference participants)	
	Water resources engineering and management II <i>Chairs: C. Tzimopoulos, A. Psilovikos</i>	Cultural heritage and architectural issues <i>Chairs: I. Frangopoulos, E. Pehlivan</i>
16:30-16:45	Fuzzy regression in hydrological case. C. Tzimopoulos, K. Papadopoulos, B. Papadopoulos	Energy upgrade of houses by using autodesk revit software case study: Macedonian building in northern Greece. K. I. Lantitsou, S. M. Bagiouk, S. S. Bagiouk, G. D. Panagiotakis
16:45-17:00	The interaction between the water level and the diversification of land uses in the Vegoritida’s lake catchment. L. Karamoutsou, A. Psilovikos	Fountain culture and the role of historical fountains in Turkey: Vitalizing the city of Bursa. E. Pehlivan, F. Pehlivan
17:00-17:15	Software development of water balance parameters estimation at a river basin level. D. Papadopoulou, Z. Mallios, K. Voudouris, N. Grigoriadis	Bicycle role and enhancement in cultural heritage of Thessaloniki. S. M. Bagiouk, S. S. Bagiouk, A. E. Agiou
17:15-17:30	Water infrastructure projects sustainability and environmental footprint: current status and prospects E. M. Kondili, C. Papapostolou, J. K. Kaldellis	Data reduction for indoor modelling of historical building by using terrestrial laser scanning technique. B. Bayram, D. Z. Seker, T. Bakirman, O. Selbesoglu, H. Catal Reis, D. Eskiçirak, Z. Duran, A.O. Dogru
17:30-17:45	Comparison and economic appraisal of various methods used for the delineation of wellhead protection zones I. Siarkos, E. Terzanidou, S. Sevastas, D. Latinopoulos	Cultural heritage and creative cities: An example of sustainable urban regeneration from Northern Greece. S. M. Bagiouk, E. Sofianou

CONFERENCE PROGRAM

Tuesday, 27 June 2017 | Day 3

Environmental education	
Chairs: C. Skanavis, S. Kamaroudis	
17:45-18:00	<p>Synthesis, characterization and assessment of groundwater defluoridation potential of trimetal Mg/Ce/Mn oxide-modified diatomaceous earth. W.-M. Gitari, A.-A. Izugie</p> <p>The influence of humic acids extracted from Chaouia soil on the behavior of transition metal ions and pesticides. S. Bougarrani, S. Akel, A. Bouziani, L. Latrach, Z. Baicha, M. El Azzouzi</p> <p>Comparison of the eutrophication status of two shallow lakes: The case studies of the Lakes Kastoria and Kerkii. T. Minou, M. Georgiadou, I. Karamoutsou, A. Psilovikos</p>
18:00-18:15	<p>Community wind as a key to increasing public's acceptance of wind farm installations in Aegean Islands: The case of Skyros Island. C. Skanavis, A. Kounani, K. Antonopoulos</p>
18:15-18:30	<p>A project exploring the reasons linked to consumer-related food waste, involving three Italian school. E. Sturchio, M. Zanellato, P. Boccia, C. Meconi L. Cellai, V. Macino, U. Mazzanti</p>
18:30-18:45	<p>The Art of compiling and sorting out the Language of Environmental Engineering: Creating a bilingual scientific dictionary. Theoretical aspects of Lexicography and their practical implementation in the field of Environmental Engineering. S. Christidou, A. Kungolos, S. Kamaroudis</p>

Wednesday, 28 June 2017 | Day 4

Optional field trip to Chalkidiki or Vergina and Mountain Olympus

BANQUET

21.00

ROOM A		ROOM B	
	Air quality II <i>Chairs: N. Moussiopoulos, C. Samara</i>		
09:00-09:15	Concentrations of Perfluorinated Chemicals in central air-conditioner filter dust in Greece. <i>A. Besis, E. Botsaropoulou, A. Katsoyiannis, L. G. Hanssen, C. Samara</i>		
09:15-09:30	Is airborne transmission of <i>Toxoplasma gondii</i> possible? <i>A. Lassa, B. Szostakowska, K. Korzeniewskic, P. Karanis</i>		
09:30-09:45	Assessment of indoor and outdoor particulate matter concentrations for households in Ankara (Turkey). <i>B. Karakas, S.Y. Aslanoglu, G. Gullu</i>		
09:45-10:00	Revealing relationships between environmental data with the aid of computational intelligence methods: the Thessaloniki air quality case. <i>N. Katsifarakis, K. Konstantinidis, K. Karatzas</i>		
10:00-10:15	Cancer risk associated to combined chemical and radiological indoor exposure in Greece and Bulgaria. <i>D. Sarigiannis, S. Karakitsios</i>		
		Workshop organized by A. Stergiadou Illegal logging, wood heating and air pollution I	
10:15-10:30	Suspended particulate matter and management system on air pollution in mines. <i>A. Kumar Yadav, S. Shirin, A. Jamal</i>		Illegal Logging is an one way ticket to deforestation at crisis times <i>A. Stergiadou</i>
10:30-10:45	Air quality management and the development of a carbon footprint model for highways: the case of Egnatia Odos S.A. in Greece. <i>Th. Valkouma</i>		Illegal logging in Slovenia, information and prevention system <i>J. Krč</i>
10:45-11:00	Use of secondary fuels in the cement industry as a Best Available Technique, in the implementation of Circular Economy goals as a lever for sustainable development in Greece. <i>S. Panagopoulos, V. Tryfona, A. Kungolos</i>		
11:00-11:30		COFFEE	BREAK

ROOM A		ROOM B	
	Tourism and environment/Coastal planning and policy <i>Chairs: V. C. Drosos, W. Sulisz</i>		Workshop organized by A. Stergiadou Illegal logging, wood heating and air pollution II
11:30-11:45	Development of a policy framework for forest tourist destinations with an application of SWOT-AHP hybrid method. <i>C. C. Stamatiou, S.-A. G. Liampas, V. C. Drosos</i>		The Implementation of EU Regulation 995/2010 in Greece <i>E. Alexiou</i>
11:45-12:00	Sustainable tourism in protected areas: The case of Mandria Park in the complex of Venaria Reale, Italy. <i>E. Gkrimpa, M. Tratsela</i>		Economic crisis and wood heating <i>K. Papaspyropoulos</i>
12:00-12:15	City branding-the city of Thessaloniki. <i>K. I. Lantitsou, A. Anastasiadis, E. Anastasiou</i>		Air pollution rise by wood heating in Athens <i>Representatives of Greek Ministry of Environment and Energy</i>
12:15-12:30	Vulnerability to erosion of the Bellsund coast. <i>W. Sulisz, D. Majewski, L. Suszka, M. Paprota, D. Veic</i>		Round Table
12:30-12:45	Numerical modeling of water waves impact on a horizontal deck. <i>D. Majewski, W. Sulisz</i>		Discussion and potential solution of the current situation
14:00-16:30	B R E A K		
	Special Session “The use of indicators in environmental management, sustainable development and planning” <i>Chairs: D. Vagiona, E. Thoidou</i>		
16:30-16:45	Methodological framework for the development of a sustainable urban management model against impacts caused by transient populations. <i>E. Feleki, C. Vlachokostas, A.V. Michailidou, N.Moussiopoulos</i>		
16:45-17:00	The role of spatial planning in the mitigation of natural disasters effects: a systemic review of resilient indicators. <i>A. Papageorgiou, G. Gemenetzi</i>		
17:00-17:15	Evaluation of the sustainability level of the municipality of Thessaloniki through the creation of a unified system of indicators. <i>P. Ntailiani, D. Vagiona</i>		
17:15-17:30	Common characteristics of Mediterranean cities reinforcing the establishment of an urban sustainability assessment model. <i>E. Feleki, C. Vlachokostas, N. Moussiopoulos</i>		

ROOM A		ROOM B	
17:30-17:45	Designing a system of Local Indicators for Sustainable Development: an application to the municipalities of Kalamaria and Kordelio-Evosmos. <i>N. Kazolea, V. Chrysostomou</i>		
17:45-18:00	Spatial planning and land-related indicators: land take and evidence from Greece. <i>E. Thoidou</i>		
18:00-18:15	Coastal Vulnerability Index (CVI): Modifications and applications. <i>M. Tzoufi, D. Vagiona</i>		
18:15-18:30	Measuring the sustainability of tourism development in Palio Kavala-Greece through an indicator based approach. <i>M. Makrydaki, A. Misiou, D. Vagiona</i>		

ROOM C		ROOM D	
	Ecosystems analysis and protection <i>Chairs: S. A Haddad, T. Tsitsoni</i>		Environmental legislation and policy <i>Chairs: L. Manusadžianas, V. Tryfona</i>
09:00-09:15	Qualitative and quantitative analysis of the Greek transboundary surface water bodies' characteristics. <i>A. Kotoudi, V. Liapis, Ch. Skoulikaris, A. Zafirakou</i>	09:00-09:15	Two-level test-battery approach for routine effluent control in Lithuania. <i>L. Manusadžianas, K. Sadauskas, R. Vitkus, B. Gylytė, R. Karitonas, A. Krevš, A. Kučinskienė, N. Kazlauskienė, J. Žaltauskaitė</i>
09:15-09:30	How roadside vegetation affects biodiversity. <i>A. Stergiadou, M.-P. Alepopoulou</i>	09:15-09:30	Polar Code and its effects on marine environmental protection. <i>T. Satir, N. Doğan-Sağlamtimur</i>
09:30-09:45	Plant growth, microbial and enzymes activity of soils ecosystem contaminated with heavy metals. <i>S. A. Haddad, M. MR. M. Ahmed, M. M. Abd El-Azeim</i>	09:30-09:45	How forest cadaster affect land use. <i>A. Stoka, A. Stergiadou</i>
09:45-10:00	Impact of erosion on soil physical properties in some selected sites in Imo state, Nigeria. <i>S. O. Ihuoma, A. A. Amori, P. N Egbuikwem</i>	09:45-10:00	Potentially contaminated sites pose a hazard for development of Moravian Silesian region. <i>B. Vojvodíková, J. Tylčer, M. Vojvodík</i>
10:00-10:15		10:00-10:15	European policy on climate change: A comparative analysis between two member states: Greece and Cyprus. <i>K. Liparou and S. K. Golfinopoulos</i>

ROOM C		ROOM D	
	Global Climate Change <i>Chairs: M.Y. Çodur and H. Guo</i>		
10:00-10:15	The contribution of open green spaces in the adaptation of cities in climate change. The case study of Thessaloniki. <i>T. Tsitsoni, D. Papagiannopoulou, A. Kontogianni</i>		
10:15-10:30	Trend analysis of air temperature data for climate change in Istanbul. <i>D. Odabasi Cingj, D.E. Akyuz</i>		
11:00-11:30		COFFEE	BREAK
	Environmental restoration <i>Chairs: A. Xenidis, Y. Tao</i>		Sustainable production and consumption <i>Chairs: M. Gratzlou, A. Zabaniotou</i>
11:30-11:45	Sustaining Recreational Parks through Energy Renovation. The Case of the "Antonis Tritsis" Park in Attica, Greece. <i>G. Tzanes, Sp. Tassoulis, E. Kondili, J.K. Kaldellis</i>		Re-planning and reconstruction by bioclimatic design principles and natural building: The case study of Flamourio nursery. <i>K. Savvanidis, M. Gratzlou, K. Lantitsou</i>
11:45-12:00	Forest Road Construction Site and how to choose machinery friendly to the natural environment. <i>A. Stergiadou, E. Flamouri</i>		The impact of irrigation and green manure on corn biomass and grain production in Central Greece. <i>A. Karyoti, D. Bartzialis, M. Sakellariou-Makrantonaki, and N.G. Danalatos</i>
12:00-12:15	Removal of phenanthrene and Cu from soil with combined Tween80 /EDTA extracting agents. <i>Y. Tao, H. Zhang</i>		The carbon footprint analysis of the Pinglin Tea-making community. <i>L. Li</i>
12:15-12:30	A pilot scale investigation of green nanoiron mobility and efficiency for Cr(VI) removal from contaminated aquifers. <i>C. Mystrioti, A. Toli, N. Papasiopi, D. Dermatas, A. Xenidis</i>		Interior/External factors affecting time management in aviation and an application on the reasons of delay. <i>S. S. Ateş, M. Çeliktaş</i>
12:30-12:45	Selective adsorption of phenanthrene from Tween 80 solution using biochars from walnut shell. <i>X. Zheng, H. Lin, Y. Tao, H. Zhang</i>		Recyclable materials and other quarrymen by-products as building materials in forest roads. <i>A. Stergiadou, Ch. Karapanagiotidis, Ch. Stergiadis</i>
12:45-13:00			Sustainable use of terrestrial and marine biomass resources: biomaterials and biochar production in the context of circular bio-economy. <i>P. Kamaterou, A. Zabaniotou</i>
13:00-13:15			Rational management of soil nutrients in greenhouses of Crete island, Greece. <i>E. Hatzigiannakis, A. Panagopoulos, A. Ilias, P. Dalambakis, I. Vrouhakis, K. Karyoti, G. Arampatzis, T. Karyotis</i>

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

Friday, 30 June 2017 | Day 6

ROOM A	
10:30-12:00	Round table: Wrapping up the conference and concluding remarks <i>Chairs: G. Persoone, K. Aravossis, A. Zafirakou, S. Girotti, N. Zafar</i>

Monday, July 26, 2017

Morning session (11:00-14:00)

A01	Determinations of estrogens in water by using a novel reverse osmosis pre-concentration method with subsequent in vitro analysis. C. Wangmo, E. Rozmánková, A. Otoupalíková and M. Bittner	A11	Spatial variations in geochemical properties of surface sediments along the Northeastern Mediterranean coastal regions. I. Akçay, S. Tuğrul and K. Özhan
A02	Response of oxidative stress biomarkers in fish for evaluating water pollution. I. Nteli, A. Patsia, D. Bobori and M. Kaloyianni	A12	Cost-benefit analysis for a Hybrid renewable energy system in Fournoi island. M. Bertsiou, E. Feloni and E. Baltas
A03	Effect of kaolinite on adsorption of cadmium by carbon nanotubes and the change of acute toxicity to <i>Daphnia magna</i> . S.Y. Lee, M.H Jang, Y.S. Hwang, Y.T. Kim, K.W. Kim and S.D. Kim	A13	Methodological framework for the optimization of the hydrometeorological and hydrometric stations network in the district of Evia, Greece. T. Kemeridis, E. Feloni and E. Baltas
A04	Morphological and histochemical analysis of the action of cadmium on the liver of bullfrog tadpoles (<i>Lithobates catesbeianus</i>). A.C. Batista, E.C.M. Silva-Zacarin, F.C. Abdalla and M.J. Costa	A14	Hydrological and geomorphological analysis in the Municipality of Florina. A. Bournas, E. Feloni and E. Baltas
A05	The levels of suspended particles in different areas of Western Macedonia. V. Evagelopoulos, A. Kelessis, F. Litou, P. Kassomenos, S. Zoras, D. Sotiropoulos and M.J. Petrakakis	A15	Adverse effects of household/expired drugs on non-target marine species: an integrated approach with the use of a battery of biomarkers in hemocytes of mussels. N. Politakis, A. Chatzipantazis, A. Belavgeni, I. Efthimiou and S. Dailianis
A06	Photochemical pollution over a ten years period in the two largest Greek cities. A. Kelessis, V. Kosteá, P. Kassomenos, E. Remoundaki, V. Evagelopoulos, M.J. Petrakakis	A16	Quarries Environmental Footprint in the framework of Sustainable Development. The case study of Milos Island. G. T. Goudouva, I. Youkkali, P. Loizia and A.A. Zorpas
A07	Forest fire events and air quality load During 2005-2014 in Greece. J. Agiannidis, P. Kassomenos, A. Kelessis, A. Paschalidou, V. Evagelopoulos	A17	Development of a GIS toolbox for automated estimation of soil erosion. S. Stefanidis, C. Chatzichristaki and P. Stefanidis
A08	Assessment of SOx exposure to the inhabitants at the outskirts of highways by using <i>Eucalyptus</i> and <i>Azadirachta indica</i> as bioindicators. H. Aslam, M. A. Iqbal, H. N. Bhatti, K. Ali	A18	CO ₂ valorization for bio-products from microalgae: supercritical fluid extraction optimization. A. Molino, P. Casella, G. Di Sanzo, V. Larocca, D. Karatza, E. Hristoforou, S. Chianese and D. Musmarra
A09	Geochemical mobility of heavy elements in arable soil from flooded area. B. Škrbić, I. Antić, J. Živančev, N. Đurišić-Mladenović and J. Cvejanov	A19	The main gaseous pollutant levels and PM _{2.5} physico-chemical characterization in Rome urban area: preliminary results. C. Fanizza, F. Incoronato, F. Ietto, E Sturchio, M. Inglessis, M. Ferdinandi, M. E. Soggiu, B. De Berardis
A10	Biodegradation of olive mill wastewater phenolic compounds in thermophilic anaerobic digestion and their toxicity in digested effluent. C. Genethliou, S. Dailianis, M. Kornaros		

Monday, July 26, 2017		Afternoon session (16:30-18:30)	
A21	<p>Lettuce irrigation with pistachio wastewater: Quality of leachates and risk for groundwater reservoirs. P. Kostopoulos, Y. Trogiannos, A. Papadopoulos, M. Psychogiou, E. Dipliarou, M.K. Doula</p>	A30	<p>Neighborhood, the human scale in environmental urban planning. K. I. Lantitsou</p>
A22	<p>Monitoring system design for illicit drugs utilizing GIS in Istanbul. S. Mercan, A.O. Dogru, A. Safran, U. Kartal, Z. Turkmen, M. Kuloglu, M. Acikkol, F. Asicioglu</p>	A31	<p>Eco-development opportunities and environmental planning of space in Pomakochoria villages of prefecture of Xanthi. K. I. Lantitsou</p>
A23	<p>Physicochemical and microbial characterization of olive mill wastewater (OMWW) from three different regions in Algeria. A. Saiba, A. Badis, S. Kourdali</p>	A32	<p>Assessing mountainous riparian areas of North Greece adjacent to forested and rural areas with the use of GIS, SVAP and QBR. I.-K. Kasapidis, G. Giatas, G. Pagonis, P. Kiourtziadis, V. Iakovoglou and G.-N. Zaimes</p>
A24	<p>Environmental research on factors of comfort conditions and microclimate in urban open spaces. P. Kosmopoulos, K. Michalopoulos</p>	A33	<p>Linking habitat degradation to human activities and pressures; map inventories and outputs from the EU MERCES project. N. Papadopoulou, T. Dailianis, V. Gerovasileiou, K. Sevastou, C. J. Smith, T. Amaro, T. Bekby, M. Bilan, C. Boström, E. Cebrían, C. Cerrano, R. Danovaro, D. Fiorentino, S. Frascetti, K. Gagnon, C. Gambi, A. Grehan, B. Hereu, S. Kipson, J. Kotta, C. Linares, M. Milanese, T. Morato, H. Ojaveer, H. Orav-Kotta, A. Sarà, R. Scrimgeour, E. G. Turnka-Eronat</p>
A25	<p>The integration of an urban seaborne transport system to the city's socio-economic environment through the enhancement of multimodal interoperability. E. Verani, A. Sdoukopoulos, N. Gavanas, A. Tsakalidis, S. Vougiás, M. Pitsiava-Latinopoulou</p>	A34	<p>Effects of phenol and chlorophenols on the performance of a continuous flow activated sludge bioreactor. V. Inglezakis, D. Doskaliyev, A. Rizuan, A. Tabyldiyev, B. Kuspangaliyeva, B. Abylkhani, D. Tarassov, A. Jetybayeva, Y. Myngtay, D. Zhalmuratova, P. Loizia, A.A. Zorpas</p>
A26	<p>Evaluation of the quality of bicycle infrastructure in the city of Larissa, Greece: Technical specifications versus user perception. A. Sdoukopoulos, E. Verani, N. Gavanas, A. Nikolaidou, A. Tsakalidis, M. Pitsiava-Latinopoulou</p>	A35	<p>Evaluation of environmental sustainability for a water treatment plant via life cycle approach. A.Saad, N. Elginöz, F. Germirli Babuna, G. Iskender</p>
A27	<p>Urban waste management, landfills and N.I.M.B.Y.: Socio-spatial dimensions through the European, national experience and practice. The case of the landfills in the Region of Pella. Y. Frangopoulos, E. Kolovou, D. Kourkouridis</p>	A36	<p>The effect of wastewater reuse on product quality for an oven manufacturing plant. G. Insel, E. Gumuslu, E. Ubay Cokgor, T. Olmez-Hanci, D. Okutman Tas, F. G. Babuna, D. F. Ertem, O. Yildirim, O. Erturan, N. Dizge</p>
A28	<p>Research regarding the microclimatic conditions at an urban center. A. Kantzioura, P. Kosmopoulos</p>	A37	<p>An experimental study of rheological properties of xanthan gum. K. Benyounes, A.Mellak, A. Benmounah</p>
A29	<p>A methodological approach for the assessment of sustainable urban mobility indicators using social media data. A. Sdoukopoulos, A. Nikolaidou, M. Pitsiava-Latinopoulou, P. Papaioannou</p>	A38	<p>Sustainable urban mobility indicators: Review and metrics of the state of the art. A. Sdoukopoulos, M. Pitsiava-Latinopoulou</p>

Tuesday, July 27, 2017		Morning session (11:00-14:00)	
B01	Long- and mid-term shoreline displacement along the Chania Bay, Greece. V. Loukaidi, G.-A. Hatiris, P. Drakopoulou, M. Kouvari, T. Christodoulou, I. Panagiotopoulos, D. Vandarakis, A. Sioulas, C. Anagnostou, V. Kapsimalis	B10	Study of the hydrocarbon distribution in the sediments of three areas of Italian coasts by means of GC chromatography supported by two-dimensional correlation analysis. M. Mecozzi, M. Pietroletti
B02	Poly(2-acrylamido-2-methyl-1-propanesulfonic acid) gel for competitive removal of Cu(II), Ni(II) and Zn(II) ions from aqueous solutions. S. Çavuş, I. Vergili, Y. Kaya, G. Gürdağ, Z.B. Gönder	B11	Differentiation between food and non food packaging for the estimation of the plastic debris sources in the marine environment. M. Mecozzi, L. Nisini, F. Peleggi
B03	Investigation of clofibric acid removal from water by a magnetic ion exchange resin. R. Altunterim, I. Vergili	B12	Comparing hydrological models built upon open access and/or measured data in a GIS environment. S. Sevastas, I. Siarkos, N. Theodossiou, I. Ifadis and K. Kaffas
B04	New desulfurization technology for SOx reduction with positive net environmental impact based on MgO reagents. P. Vayionas, P. Papegeorgiou, T. Efsthathiadis, A. Kalfas, H. Yiannoulakis, T. Zampetakis	B13	Marine reverse osmosis desalination plant operation-a case study. Chen Jin-Zeng
B05	Utilisation of bean hull (<i>Phaseolus vulgaris</i>) for biosorption of Cypermethrin from surface water of agricultural farm settlement. Ayodele Rotimi Ipeaiyeda, Oluwole Kehinde Osho	B14	Technical study and construction of the Propylon of Monastery of Virgin Archangeliotissa in Xanthi and formulation of the surrounding space. K. I. Lantitsou
B06	Preliminary research of VOCs decomposition using dielectric barrier discharge in pilot scale. Nguyen Hoang Phuong, Mijeong Park, Youngmin Jo	B15	Valorization of industrial powdery by-products in the advanced oxidation of wastewaters. A. Domopoulou, K. Tsiptsias, N. Koukouzas, P. Samaras, V. Karayannis
B07	Preparation of fibrous CO₂ adsorbent by electrospinning method. Dongwon Jeong, Mijeong Park, Yeonsoo Park, Youngmin Jo	B16	Microbial stability of alternative diesel fuels. C.E.Tsesmeli, G.S.Dodos, F. Zannikos
B08	Waste compositional analysis during flights. N. Ttofali, I. Voukkali P. Loizia, A. A. Zorpas	B17	Decision support system based on indicators and artificial intelligence in public and environmental management. G.N. Kouziokas
B09	Determination of Environmental Foot print of typical houses (from reinforced concrete) under subtropical climate changes using GaBi - LCA model: A case studies from Cyprus. L. Pekas, K. Sentzas, I. Voukkali, P. Loizia, A. A. Zorpas		

Tuesday, July 27, 2017		Afternoon session (16:30-18:30)
B18	Accumulation of heavy metals to activated sludge, dependent on process parameters. <i>E. Lember, K. Pachel, E. Loigu</i>	B26
		Determination of jewelry-related Nickel as a reason of allergic contact dermatitis. <i>S. Mercan, S. Semen, M. Yayla, H. Ertem Vehid, Z. Turkmen, U. Celik, B. Engin, M. Acikkol</i>
B19	Comparison of river water quality indexes at Lower Sakarya River- a case study. <i>A. Alkis, S. Tunay, R. Koklu</i>	B27
		Setting-up a materials science laboratory. <i>G.Z. Kyzas, R. Kosheleva, K. Kiourtzidis, E. Bibaj, K. Lysigaki, A. Rodana, A.C. Mitropoulos</i>
B20	Electrochemical removal of copper from wastewater by electro sorption/electrodesorption process. <i>K. Dermentzis, D. Stergiopoulos, P. Giannakoudakis</i>	B28
		Climate change as sociogenic process. <i>D. Koumparou</i>
B21	Mineralization of Procion red reactive dye by electrooxidation at boron doped diamond electrodes. <i>D. Stergiopoulos, K. Dermentzis, P. Giannakoudakis</i>	B29
		Interspecific stress changes photosynthetic parameters of barley and barnyard grass at different climate conditions. <i>I. Januškaitienė, A. Dikšaitytė, J. Žalitauskaitė, G. Sujetovienė, D. Miškelytė, G. Kacienė, R. Juknys, R. Dagiliūtė, S. Sakalauskienė, J. Miliauskienė</i>
B22	Treatment of carwash wastewater by electrocoagulation using Ti electrode: Optimization of the operating parameters. <i>Z. B. Gönder, G. Balcioglu, Y. Kaya, I. Vergili</i>	B30
		Integrating GIS, Multi Criteria Decision Analysis and Remote Sensing to monitoring anthropogenic pressures over forest reserves. <i>P. C.Kuchler, O. R. Vergara, A. C.Passos</i>
B23	Bioplastics from winemaking industry wastes. <i>S. Beglaryan, C. Samori, R. Conti, L. Vogli, S. Righi, M. Gyalai-Korpos, P. Galletti, E. Tagliavini</i>	B31
		Activated carbon adsorption of selected pharmaceuticals: Carbamazepine, Diclofenac, Paracetamol, Sulfamethoxazole. <i>Y. Kaya, G. Yalimai, Z.B. Gönder, I. Vergili, G. Yilmaz</i>
B24	Rehabilitation and development of cultural heritage of listed building “KIRTISI KHAN” in historical center of Thessaloniki. <i>S. M. Bagjouk, S. Chatzigeorgiou, A. S. Bagjouk</i>	B32
		Applications of remote sensing and GIS systems in solid waste management case study developing area in the west bank. <i>S. M. Bagjouk, M. N. Albayyouk, A. S. Bagjouk, S. S. Bagjouk</i>
B25	Heavy metals in the surface sediments of river estuaries located on Kaohsiung coast, Taiwan. <i>Y. C. Lim, C.D. Dong, C.F. Chen, Y.R. Ju, C.W. Chen</i>	B33
		Distribution and potential biological effects of di(2 ethylhexyl)phthalate (DEHP) in sediments of Love River, Taiwan. <i>C.F. Chen, C.W. Chen, Y. C. Lim, Y.R. Ju, C.D. Dong</i>
B34		B34
		The evolution of the legislation on thermal springs in Greece. <i>S. E. Chachami-Chalioti, Ch. Zavraklis, C. Emmanouil, A. Kungolos</i>

Thursday, July 29, 2017		Morning session (11:00-14:00)
C01	Treatment and valorization of avocado oil for the development of the green economy in Morocco. A.Slita, N. Filali, M. El Azzouzi, M.Alaoui El Belghiti	C12 Analyses of water resources monitoring for the implementation of Nitrates Directive (91/676/EEC) in Turkey. A. Panagopoulos, A. Karyoti, T. Karyotis and A. Kasaci
C02	Preparation of avocado oil from its waste: Expired and agriculture products. N.Filali, A.Slita, A. Bouziani, M.Azzouzi, A.Ezrineh, S.Kitane, M.A. Elbelghiti	C13 Ecotourism and environmental spatial planning in mountainous traditional villages of the Thassos island. K. I. Lantitsou
C03	Comparative corrosion inhibition study of carbon steel in 1M HCl anthranilamide and complex Cu(anthra)₂Cl₂. N. Gharda, H. Benassaroui, M. Allali, L. Saqalli, N. Habbadi, A. Souizi, N. Hajjaji, R. Ghailane and Y. Peres-lucchese	C14 Do we trust in ecolabels? Perceptions and awareness of students on eco-labelling. R. Dagiliūtė, G. Klakauskaitė, J. Žaltauskaitė, G. Sujetovienė, I. Januškaitienė
C04	Water quality assessment of surface- and ground-water bodies of Evros river basin: inorganic contaminants. A. Tsaboula, EN. Papadakis, A. Kotopoulou, K. Kintzikoglou, Z. Vryzas, E. Papadopoulou-Mourkidou	C15 Pre-treatment of manure from cows and pigs as medium for enhanced algae growth. O. Schläfer, M. Niedermeiser, M. Sievers
C05	Color removal from textile wastewater by using fish scales as natural adsorbent. Y. Uysal, A. Cambakış, E. Atıcı, A. Dizle and Y. Arıkan.	C16 Vertical distribution of nutrients and trace elements in cultivated alluvial soils of Central Greece. A. Karyoti, D. Bartzialis, K. Giannoulis, N. Danalatos
C06	The contribution of microscopy to chemical and ecotoxicological approaches in the environmental risk assessment of coal tar polluted soils. C. Lofs, J.-F. Ponge, D. Damidot	C17 Transport of heavy metals through silica spongolite and activated carbon treatment zones. J. Fronczyk, K. Pawluk
C07	Rural renaissance through synergies of land and sea communities. T. Panagopoulos, M.D.C. Antunes, P. Karanikola, L. Lakoova	C18 A laccase biosensor for organochlorine bioremediation monitoring at the Ocoy Indigenous Reserve, Brazil. M. S. Vianna, F. Marques, P. Gismonti, E.A Machado; A.J.S. Neto, J.P.M. Torres
C08	Removal of methylene blue from wastewater using iron oxide nanoparticles, eggshell powder and their composite. I. Aslam, M. Amjad, N. Ahmed, M.-N. Zafar	C19 Fluorimetric biosensor for the study of competitive adsorption of glyphosate: An indicator in risk assessment. M. S. Vianna, F. Marques, P. Gismonti, A.J.S. Neto, J.P.M. Torres
C09	Aided phytostabilisation of copper contaminated soil using halloysite. M. Radziemska, Z. Mazur, M. D. Vaverkova	C20 Product output that can be carbon-rich soil conditioner via pyrolysis. A.Ongen, V.Z. Sonmez, E. Elmaslar Ozbas, D. Bayat, B. Elonu, N. Sivri
C10	Climate Change trends and adaptation governance among mountain communities across western Carpathians and Central Himalayas. Tek Jung Mahat, Ludek Blaha	C21 Concentrations and origin of aliphatic hydrocarbons, PAHs, PCBs and DDTs in sediments of Butrint Lagoon, SW Albania. V. Kapsimalis, L. Moisiu, C. Durrmish, I. Hatzianestis, I.P. Panagiotopoulos, G. Hatiris
C11	Source apportionment of heavy metals in Sapanca Lake Basin. H.Demirel, A.Ateş, R.Kökü, Ş. Dođruparmak,H. Altundađ, and B.Şengörür	C22 The loss of children-nature interactions. C. Panagopoulou, E.-A. Panagopoulou, K. Mitsis

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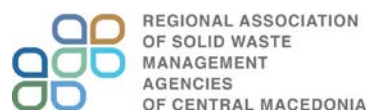


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