

**8th INTERNATIONAL CONFERENCE
ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY**

DRAFT PROGRAM

<p>MONDAY 8 SEPTEMBER 2003 MORNING</p>	<p>OPENING SESSION 1 - PLENARY SOLID WASTE MANAGEMENT ROOM A (09:00 - 11:40)</p>		
	<p>SESSION 2 WATER RESOURCES MANAGEMENT (1) ROOM A (12:20 - 14:00)</p>	<p>SESSION 3 POLLUTION CONTROL TECHNOLOGIES (1) ROOM B (12:20 - 14:00)</p>	<p>SESSION 4 SOLID WASTE MANAGEMENT (1) ROOM C (12:20 - 14:00)</p>
<p>MONDAY 8 SEPTEMBER 2003 AFTERNOON</p>	<p>SESSION 5 - PLENARY POLLUTION CONTROL AND MANAGEMENT ROOM A (16:30 - 18:10)</p>		
	<p>SESSION 6 WATER RESOURCES MANAGEMENT (2) ROOM A (18:40 - 20:20)</p>	<p>SESSION 7 POLLUTION CONTROL TECHNOLOGIES (2) ROOM B (18:40 - 20:20)</p>	<p>SESSION 8 SOLID WASTE MANAGEMENT (2) ROOM C (18:40 - 20:20)</p>
<p>TUESDAY 9 SEPTEMBER 2003 MORNING</p>	<p>SESSION 9 - PLENARY WATER RESOURCES MANAGEMENT ROOM A (09:00 - 10:50)</p>		
	<p>SESSION 10 WATER RESOURCES MANAGEMENT (3) ROOM A (11:30 - 13:30)</p>	<p>SESSION 11 POLLUTION CONTROL TECHNOLOGIES (3) ROOM B (11:30 - 13:30)</p>	<p>SESSION 12 SOLID WASTE MANAGEMENT (3) ROOM C (11:30 - 13:30)</p>
<p>TUESDAY 9 SEPTEMBER 2003 AFTERNOON</p>	<p>SESSION 13 - PLENARY WASTE WATER MANAGEMENT - ECOSYSTEMS ROOM A (16:00 - 17:50)</p>		
	<p>SESSION 14 WASTE WATER MANAGEMENT (1) ROOM A (18:30 - 20:10)</p>	<p>SESSION 15 GLOBAL CHANGE ROOM B (18:30 - 20:10)</p>	<p>SESSION 16 ECOSYSTEMS (1) ROOM C (18:30 - 20:10)</p>
<p>WEDNESDAY 10 SEPTEMBER 2003 MORNING</p>	<p>SESSION 17 - PLENARY GLOBAL CHANGE - AIR POLLUTION ROOM A (09:00 - 10:50)</p>		
	<p>SESSION 18 WASTE WATER MANAGEMENT (2) ROOM A (11:30 - 13:30)</p>	<p>SESSION 19 AIR POLLUTION ROOM B (11:30 - 13:30)</p>	<p>SESSION 20 ECOSYSTEMS (2) ROOM C (11:30 - 13:30)</p>
<p>WEDNESDAY 10 SEPTEMBER 2003 AFTERNOON</p>	<p>SESSION 21 ENVIRONMENTAL PERFORMANCE ROOM A (16:00 - 17:40)</p>	<p>SESSION 22 BUILT ENVIRONMENT ISSUES ROOM B (16:00 - 17:40)</p>	<p>SESSION 23 VARIOUS TOPICS ROOM C (16:00 - 17:40)</p>
	<p>SESSION 24 - PLENARY CLOSURE ROOM A (18:00 - 19:30)</p>		

ORAL PRESENTATIONS

MONDAY 8 SEPTEMBER 2003 - MORNING

Opening

Session 1- PLENARY - SOLID WASTE MANAGEMENT – ROOM A

- 09:00 – 10:10 Opening
- 10:10 – 10:30 **B. Bilitewski**
Waste and sustainability in Europe (*Keynote address*)
- 10:30 – 10:50 **C. Dodis, K. Kitis, D. Panagiotakopoulos and V. Aivaliotis**
The impact of source separation on the cost of municipal solid waste management systems
- 10:50 – 11:10 **T.C. Voice, S. Hashsham, M. Khire, S. Maher, R. Musleh and X. Zhao**
Full-scale evaluation of bioreactor landfill technology
- 11:10 – 11:30 **U. Imppola, A. Veijanen, K. Hanninen, M. Kyriacou, M. Kotsou, I. Protopapa, M. Kavoussanos, J. Nykanen, A. Halinen and K.E. Lasaridi**
Comparative evaluation of process performance of composting plants in Greece and Finland
- 11:30 – 11:40 Poster Introduction A (Solid Waste Management – Life Cycle Management)
- 11:40 – 12:20 *Coffee break and posters*

Session 2 – WATER RESOURCES MANAGEMENT (1) – ROOM A

- 12:20 – 12:40 **A. Nikolaou, G. Arhonditsis, V. Kolovoyiannis, S. Golfinopoulos and Th. Lekkas**
Determination, interpretation and modeling of chlorination by-products concentrations in surface waters
- 12:40 – 13:00 **P. Drillia, K. Stamatelatu and G. Lyberatos**
Mobility of pharmaceuticals in soil
- 13:00 – 13:20 **D.A. Lambropoulou, V.A. Sakkas and T.A. Albanis**
Validation of SPME method for the analysis of organophosphorus insecticides in natural waters
- 13:20 – 13:40 **A. Dimou, V. Sakkas and T.A. Albanis**
Trifluralin photolysis: comparative rates of humic and fulvic substances (isolated from Pamvotis Lake) and photoproducts analysis
- 13:40 – 14:00 **A. Goonetilleke, E. Thomas, S. Ginn and D. Gilbert**
Modelling insights into pollutant wash-off from urban catchments in Queensland, Australia

LUNCH BREAK

Session 3 – POLLUTION CONTROL TECHNOLOGIES (1) – ROOM B

- 12:20 – 12:40 **K. Komnitsas, G. Bartzas and I. Paspaliaris**
Clean up of acidic leachates using fly ash barriers. Laboratory column studies
- 12:40 – 13:00 **V. Tellou and I. V. Yentekakis**
Successful use of electropositive promoters in De-NO_x Pt-group metals catalytic chemistry
- 13:00 – 13:20 **A. Halog, M. Sagisaka and A. Inaba**
Assessment of electric vehicle battery technologies using fuzzy linguistic and AHP approaches
- 13:20 – 13:40 **E. Evgenidou, K. Fytianos and I. Poullos**
Semiconductor-sensitized photodegradation of dichlorvos in water

- 13:40 – 14:00 **M. Styliidi, D.I. Kondarides and X. E. Verykios**
Effect of incident photon energy on the kinetics and mechanism of photocatalytic degradation of Azo-dyes in aqueous TiO₂ suspensions

LUNCH BREAK

Session 4 – SOLID WASTE MANAGEMENT (1) – ROOM C

- 12:20 – 12:40 **E. Tagaris, R.E.P. Sotiropoulou, C. Pilinis and C.P. Halvadakis**
Methane production and dispersion around landfill sites
- 12:40 – 13:00 **S. Ntougias, C. Ehaliotis, G.I. Zervakis, P. Katsaris and K. Papadopoulou**
Monitoring the composting process of different agricultural wastes and evaluation of the effects of the final products on plants
- 13:00 – 13:20 **M. Chrysochoou, B. Bilitewski, N. Moussiopoulos and A. Karagiannidis**
Comparison of leaching tests for the characterization of waste
- 13:20 – 13:40 **A.K. Karamalidis, M. Maragou and E.A. Voudrias**
Leaching behavior of heavy metals and anions in stabilized/solidified ash from incineration of refinery oily sludge
- 13:40 – 14:00 **S. Papadopoulos, N. Moussiopoulos, C. Vatsaris, A. Karagiannidis and M. Chrysochoou**
Development of an integrated tool for contaminated site remediation implementing biological and physicochemical treatment methods

LUNCH BREAK

Session 5 – PLENARY - POLLUTION CONTROL AND MANAGEMENT – ROOM A

- 16:30 – 16:50 **A. Astrup Jensen**
Life cycle management, a bridge to more sustainable products (*Keynote address*)
- 16:50 – 17:10 **G. San Miguel, S.D. Lambert, N.J.D. Graham, D. Wilson and J. Banks**
Comparative study of different organic and inorganic adsorbents for the removal of metals, organic matter and colour from solution
- 17:10 – 17:30 **A. Andreadakis, D. Mamais, E. Gavalaki and V. Panagiotopoulou**
Evaluation of treatment schemes appropriate for wastewater reuse in Greece
- 17:30 – 17:50 **T.C. Voice, D. T. Long, Z. Padovanovic, J.L. Atkins, S.P. McElmurry, N. D. Niagolova, E. A. Petropoulos and V. S. Ganev**
Critical evaluation of environmental exposure agents implicated in the etiology of Balkan endemic nephropathy
- 17:50 – 18:10 Poster introduction B (Pollution Control Technologies – Waste Water Treatment)
- 18:10 – 18:40 *Coffee break and posters*

Session 6 – WATER RESOURCES MANAGEMENT (2) – ROOM A

- 18:40 – 19:00 **K. Haralambidou, V.A.Tsihrintzis and G.K. Sylaios**
Control of saline wedge intrusion in the estuary of Strymonas River using an air curtain
- 19:00 – 19:20 **C. Tzimopoulos and P. Ginidi**
Management of Aghia Varvara's aquifer, using linear programming
- 19:20 – 19:40 **I. Hatzianestis, A. Hantzi, E. Sklivagou and F. Rigas**
Distribution and origin of aliphatic and polycyclic aromatic hydrocarbons in Saronikos gulf sediments
- 19:40 – 20:00 **E. Sklivagou and I. Hatzianestis**
The "Eurobulker" oil spill in South Evoikos Gulf: distribution and fate of aliphatic and polycyclic aromatic hydrocarbons

- 20:00 – 20:20 **G. Kontopoulos, V.A. Catsiki and F. Rigas**
Heavy metal distribution in coastal areas of Saronic Gulf with the aid of the biological indicators *Patella sp.* and *Siphonaria sp.*

Session 7 – POLLUTION CONTROL TECHNOLOGIES (2) – ROOM B

- 18:40 – 19:00 **A. Oreopoulou and C. Philippopoulos**
Photocatalytic oxidation of agrochemical industry liquid wastewaters
- 19:00 – 19:20 **F. Rigas, V. Dritsa, J. Chatzidakis and R. Marchant**
Detoxification characteristics of selected *polyporus* species for bioremediation applications
- 19:20 – 19:40 **A. Moutsatsou, M. Gregou, M. Liokalou, D. Matsas and V. Protonotarios**
Mobilization of metals and metalloids from contaminated soil and readsorption on synthesized zeolites and zeolite-fly ash mixtures
- 19:40 – 20:00 **E. Dourdounis, G.N. Angelopoulos, E. Chaniotakis, E. Frogoudakis, D. Papanastasiou and D.C. Papamantellos**
Recycling of metallurgical waste (slag), low grade bauxite and overburden excavation limestones in the production of high quality alumina cement
- 20:00 – 20:20 **E. Katsivela, E.R.B. Moore and N. Kalogerakis**
Monitoring of the in-situ bioremediation of petroleum waste sludge in landfarming sites

Session 8 – SOLID WASTE MANAGEMENT (2) – ROOM C

- 18:40 – 19:00 **N. Tugrul, E.M. Derun, M. Piskin and S. Piskin**
Evaluation of pyrite ash wastes obtained by the sulphuric acid production industry
- 19:00 – 19:20 **J. Hetland, S. Lynum, and S. Santen**
Thermo-chemical multi-processing of solid waste featuring recovery of gas, heat, metals and minerals with complete volume reduction and residue stabilisation
- 19:20 – 19:40 **K. Moustakas, A. Papadopoulos, D. Fatta, K.J. Haralambous and M. Loizidou**
Design and construction of a demonstration plasma gasification / vitrification unit for waste treatment
- 19:40 – 20:00 **C.G. Petaloti, A. Kouras and T. Kouimtzis**
Heavy metals and other elements distribution in the soil of Eordea basin, W. Macedonia, Greece
- 20:00 – 20:20 **D. Dermatas, M. Dadachov, P. Dutko, N. Menounou, P. Arienti and G. Shen**
Weathering of lead in Fort Irwin range soils

TUESDAY 9 SEPTEMBER 2003

Session 9 – PLENARY - WATER RESOURCES MANAGEMENT – ROOM A

- 09:00 – 09:20 **H.S. Wheeler and P.W. Daldorph**
Decision support modeling for water quality management: a pre-pilot case study for the EU Water Framework Directive (*Keynote address*)
- 09:20 – 09:40 **Th. Lekkas, M. Kostopoulou, G. Kolokythas, N. Thomaidis, S. Golfinopoulos, A. Kotrikla, G. Pavlogeorgatos, A. Stasinakis, A. Nikolaou, G. Gatidou, A. Petsas, M. Vagi, D. Babos, D. Lekkas and C. Makri**
Optimization of analytical methods for the determination of trace concentrations of toxic pollutants in drinking and surface waters
- 09:40 – 10:00 **P. Latinopoulos, E. Antonopoulou and V. Tziakas**
Derivation of the irrigation water demand function: A Greek experience

- 10:00 – 10:20 **C. Tsoutsi and T.A. Albanis**
Optimization of headspace solid-phase microextraction conditions for the determination of various insecticides in tomatoes and cucumber pulp
- 10:20 – 10:40 **A. Gerasidi, P. Katsiardi, N. Papaefstathiou, E. Manoli and D. Assimacopoulos**
Cost-effectiveness analysis for water management in the island of Paros, Greece
- 10:40 – 10:50 **I. Tsiros** Poster introduction C (Water Resources Management)
- 10:50 – 11:30 *Coffee break and posters*

Session 10 – WATER RESOURCES MANAGEMENT (3) – ROOM A

- 11:30 – 11:50 **A. Andreadakis, C. Noutsopoulos and E. Gavalaki**
Assessment of the water quality of Lake Plastira through mathematical modelling for alternative management scenarios
- 11:50 – 12:10 **M. Pikounis, E. Varanou, E. Baltas, A. Dassaklis and M. Mimikou**
Application of the SWAT model in the Pinios river basin under different land-use scenarios
- 12:10 – 12:30 **D. Panagoulia and N. Maratos**
Artificial neural network modeling of the rainfall-runoff extreme events
- 12:30 – 12:50 **R.T. Maxey, D.F. Lekkas and H.S. Wheeler**
Intercomparison of forecasting methods for flood warning in the River Cam catchment
- 12:50 – 13:10 **D. Latinopoulos**
Economic valuation of irrigation water: implications from a meta-analysis
- 13:10 – 13:30 **A. Michailidis, G. Arabatzis, M. Hadio and M. Tsakiri**
Socioeconomic and environmental valuation of some outputs of Petrenia irrigation dam, East Halkidiki

LUNCH BREAK

Session 11 – POLLUTION CONTROL TECHNOLOGIES (3) – ROOM B

- 11:30 – 11:50 **O.G. Tsapekis, C.E. Salmas and G.P. Androutsopoulos**
Hydrogen sulfide separation from gas streams: selective oxidation into elemental sulfur in aqueous solutions of iron chelates
- 11:50 – 12:10 **P. Baltrenas and R. Vaiskunaite**
Volatile organic compounds elimination in an activated pine-bark charge of a biofilter using cultivated associations of natural microorganisms
- 12:10 – 12:30 **G. Skodras, I. Diamantopoulou, P. Natas, T. Orfanoudaki, P.S. Amarantos, G. G. Stavropoulos and G.P. Sakellaropoulos**
Mercury and PCBs adsorption on activated carbons: experimentation and modelling
- 12:30 – 12:50 **D. Dermatas and X. Meng**
Removal of heavy metals by adsorptive filtration
- 12:50 – 13:10 **K.G. Babi, K.M. Koumenides, A.D. Nikolaou, N.S. Mihopoulos, F.K. Tzoumerkas, C. Makri and T.D. Lekkas**
Pilot-plant experiments for the removal of THMs, HAAs and DOC from drinking water by GAC adsorption – Galatsi Water Treatment Plant, Athens
- 13:10 – 13:30 **C. Sikalidis and V. Zaspalis**
Utilization of Mn-Fe solid wastes from electrolytic MnO₂ production, in the manufacture of ceramic building products

LUNCH BREAK

Session 12 – SOLID WASTE MANAGEMENT (3) – ROOM C

- 11:30 – 11:50 **A. Karagiannidis, A. Xirogiannopoulou and N. Moussiopoulos**
Municipal charges in Greece as a tool for waste charging: a statistical analysis of possible correlations with the population and the number of households in municipalities
- 11:50 – 12:10 **E. Szpadt, J. Den Boer and J. Jager**
Life cycle assessment based tools for the development of integrated waste management strategies for cities and regions with rapid growing economies
- 12:10 – 12:30 **J. Villeneuve, Ph. Wavrer and P. Michel**
Tomorrow's city and its waste. European research provides tools for a better global management of municipal waste
- 12:30 – 12:50 **J. Reichenbach and B. Bilitewski**
Variable pricing schemes in urban waste management - a way to enhance the reduction of waste for final disposal and polluter responsibility. First experiences from the EU co-financed international research co-operation "PAYT"
- 12:50 – 13:10 **G. Schiller**
The urban structure unit approach – A suitable frame for environmental and spatial urban investigations
- 13:10 – 13:30 **C. Koroneos, A. Dompros, N. Dourala and N. Moussiopoulos**
IN-SUSTAIN: Optimising "production-use-consumption" interactions

LUNCH BREAK

Session 13 – PLENARY - WASTE WATER MANAGEMENT – ECOSYSTEMS – ROOM A

- 16:00 – 16:20 **C. Jefferies**
Current trends in the improvement of discharge quality in Scotland (*Keynote address*)
- 16:20 – 16:40 **P.D. Jenssen, P.H. Heyerdahl, W.S. Warner and J.M. Greatorex**
Local recycling of wastewater and wet organic waste - a step towards the zero emission community
- 16:40 – 17:00 **M. Kaasik, T. Plompuu, T. Alliksaar and J. Ivask**
Alkalisiation and nutrient influx from the air as damaging factors for sub-boreal ecosystem
- 17:00 – 17:20 **M. Karydis and F. Chatzichristofas**
Coastal eutrophication in the Mediterranean marine environment: a short review
- 17:20 – 17:40 **E. Zakyntinos and K. Hadjibiros**
Assessment of two different approaches to conservation of biodiversity
- 17:40 – 17:50 **M. Karandinos** Poster introduction D – (Ecosystems - Environmental Law and Policy)
- 17:50 – 18:30 *Coffee break and posters*

Session 14 – WASTE WATER MANAGEMENT (1) – ROOM A

- 18:30 – 18:50 **V.J. Inglezakis, M.D. Loizidou and H.P. Grigoropoulou**
Pb²⁺ removal from liquid phase using chelating resin: the effect of operating variables and application of the shrinking core model
- 18:50 – 19:10 **D.A. Georgantas and H.P. Grigoropoulou**
Phosphorus removal from synthetic wastewater using spent alum sludge
- 19:10 – 19:30 **V. Kaimakamidou and T. Yiannakopoulou**
Microbial community structure in the activated sludge process
- 19:30 – 19:50 **K. Stamatelatou, S.N. Dokianakis, M. Fountoulakis, C. Frouda, M.E. Kornaros and G. Lyberatos**
The effects of a common antibacterial pharmaceutical (Triclosan) on biological wastewater treatment processes

- 19:50 – 20:10 **D. Georgiou, J. Dinske, C. Metallinou and A. Aivasidis**
Decolorization of azo-reactive dyes and cotton-textile wastewater using anaerobic digestion and acetate-consuming bacteria

Session 15 – GLOBAL POLLUTION – ROOM B

- 18:30 – 18:50 **A. Bartzokas, H.D. Kambezidis, S. Darula and R. Kittler**
Sky luminance distribution in Central Europe and the Mediterranean during summer period
- 18:50 – 19:10 **A.D.Vassilev**
Basin's contribution to atmospheric fossil methane (case study: Black Sea)
- 19:10 – 19:30 **E. Doukakis**
The potential consequences of climate change on Kotychi Lagoon
- 19:30 – 19:50 **A. Spyridaki and M. Lazaridis**
Modelling study of fine aerosol and photooxidants during winter at the Mediterranean

Session 16 – ECOSYSTEMS (I) – ROOM C

- 18:30 – 18:50 **A. Kungolos, S. Hadjispirou, M. Petala, V. Tsiridis, P. Samaras and G.P. Sakellaropoulos**
Toxic properties of cyanide, chromium and organotin compounds and their interactions on *Daphnia Magna*
- 18:50 – 19:10 **Y. Mouzakitis, S. Goutsos, E. Adamides and T. Mentzos**
Greening an industrial estate: towards a methodological transformation
- 19:10 – 19:30 **H. Drinia, N. Tsaparas, A. Antonarakou and G. Goumas**
Benthic foraminiferal biofacies associated with Middle to Early Late Miocene oxygen deficient conditions in the Eastern Mediterranean
- 19:30 – 19:50 **Th. Kargas and K. Hadjibiros**
Landscape ecology and wildfire prevention in the Mediterranean. An application in Spain and some perspectives in Greece
- 19:50 – 20:10 **V.P. Apostolidou and C.M. Sophoulis**
Multi-stakeholder processes in ecosystem management: A critical approach

WEDNESDAY 10 SEPTEMBER 2003

Session 17 – PLENARY - GLOBAL CHANGE – AIR POLLUTION – ROOM A

- 09:00 – 09:20 **N. Moussiopoulos**
Recent advances in urban air pollution research (*Keynote address*)
- 09:20 – 09:40 **T.J. Herbert**
Global warming and the relationship of plant canopy structure to latitude
- 09:40 – 10:00 **H.A. Flocas, V.D. Assimakopoulos and C.G. Helmis**
On the distribution of aerosol over the greater Athens area
- 10:00 – 10:20 **J. Mantis, C. Samara, Th. Kouimtzis, G. Grivas, V. Kanouta, A. Karamberi, V. Protonotarios, N. Manalis, A. Moutsatsou, A. Chaloulakou and N. Spyrellis**
Chemical composition of PM₁₀ in the atmosphere of Athens, Greece
- 10:20 – 10:40 **T. Glytsos and M. Lazaridis**
Modeling indoor particulate matter using a comprehensive mathematical model
- 10:40 – 10:50 Poster introduction E (Global Change, Air Pollution, Env. Pollution and Health, Env. Economics, Env. Performance)
- 10:50 – 11:30 *Coffee break and posters*

Session 18 – WASTE WATER TREATMENT (2) – ROOM A

- 11:30 – 11:50 **E. Efstathiou, P. Tridimas, S. Tsourtis and D. Mamais**
Mathematical modelling of primary sludge anaerobic hydrolysis
- 11:50 – 12:10 **E.M.P. Barampouti, S. Mai, and A.G. Vlyssides**
A mathematical model for the estimation of anaerobic sludge activity
- 12:10 – 12:30 **E. Gavalaki and A. Andreadakis**
Fate of the sewage organic load in a sewerage system
- 12:30 – 12:50 **A. Katsoyiannis and C. Samara**
Ecotoxicological evaluation of wastewater and sludge samples from the wastewater treatment plant of Thessaloniki, Greece
- 12:50 – 13:10 **V. Diamantis, A. Parisi and A. Aivazidis**
Anaerobic / aerobic treatment of peach canning wastewater
- 13:10 – 13:30 **J. Fillos, K. Ramalingam, L. Carrio, and K. Gopalakrishnan**
Process performance evaluation of the primary settling tanks in New York City WPCPs

LUNCH BREAK

Session 19 – AIR POLLUTION – ROOM B

- 11:30 – 11:50 **N. Moussiopoulos, E.-A. Kalognomou, T. Arvanitis and P.-M. Turlou**
A comprehensive tool for the prediction and management of air quality in Thessaloniki
- 11:50 – 12:10 **S. Basbas, K. Nikolaou, C. Taxiliaris and I. Maniatis**
Public awareness and behaviour related to environmental and traffic management measures
- 12:10 – 12:30 **E. Terzi and C. Samara**
Gas to particle partitioning of polycyclic aromatic hydrocarbons (PAHs) in two remote sites of Western Greece
- 12:30 – 12:50 **J. A. Michopoulos, C.G. Helmis, Q. Wang, J. Kalogiros, Z. Gao and D.N. Asimakopoulos**
An experimental study of the vertical structure of the marine atmospheric boundary layer
- 12:50 – 13:10 **S. Andronopoulos, A. Sfetsos, J.G. Bartzis and N. Gounaris**
Application of the model ADREA-I to the ESCOMPTE pre-campaign case
- 13:10 – 13:30 **A.B. Prosmitis, E. Diapouli, A. Haloulakou and A. Spyrellis**
Organic and elemental carbon particulate continuous field measurement in Athens urban area

LUNCH BREAK

Session 20 – ECOSYSTEMS (2) – ROOM C

- 11:30 – 11:50 **G. Karaberou and S.P. Varnavas**
Biogeochemical processes in a mountain forest environment
- 11:50 – 12:10 **M.V. Triantaphyllou, T. Tsourou, M.D. Dermitzakis and O. Koukousioura**
Epiphytal ostracode and benthic foraminiferal assemblages: investigating their role as environmental health proxies in the marine ecosystems of SE Andros island (Middle Aegean Sea, Greece)
- 12:10 – 12:30 **T. Tsitsoni, D. Karamanolis, G. Stamatellos and P. Ganatsas**
Spatial pattern and connection of tree diameter classes in *Pinus halepensis* m. stands after wildfire
- 12:30 – 12:50 **M. Stadler, R. M. Bekker, I.C. Knevel, D. Kunzmann, and J. Schlegelmilch**
A common data standard for life-history traits of the Northwest European Flora

12:50 – 13:10 **I.K. Konstantinou, T.A. Albanis, V. Goutner and K. Frigis**
Organochlorine contaminants in eggs of the yellow-legged gull (*Larus cachinnans michahellis*) in the North Eastern Mediterranean: is this gull a suitable biomonitor for the region?

13:10 – 13:30 **F. Christoforidou, F. Vlatsiotou, G. Tsirtsis, M. Karydis and N. Korovesis**
Spatial and temporal variability of the ecological system of a seasonal solar saltworks (Kalloni in Lesvos island): implications for salt production

LUNCH BREAK

Session 21 – ENVIRONMENTAL PERFORMANCE – ROOM A

16:00 – 16:20 **P. Kokkinos, T. Kizos and C.M. Sophoulis**
Economic and environmental evaluation of farm integrated management: the case of kiwi production farms in Pieria, Greece

16:20 – 16:40 **C. Koroneos, G. Drosos, G. Roumbas, and N. Moussiopoulos**
Life cycle environmental impact assessment of a solar heater

16:40 – 17:00 **G. Tsilingiridis, G. Martinopoulos, M. Ekhrawat and D. Tsipas**
Influence of location on the environmental impact of a domestic solar thermosiphonic system during its life cycle

17:00 – 17:20 **M. Mandaraka, K. Makrinou and D. Assimacopoulos**
Self-evaluating and benchmarking environmental performance of businesses: a web-based approach

17:20 – 17:40 **P. Karamanos, C.N. Kavouras and I. Kokkiniotou**
The organizational structure of the Environmental Department of Athens International Airport “Eleftherios Venizelos” and its role as a regulator

17:40 – 18:00 *Coffee break*

SESSION 22 – BUILT ENVIRONMENT ISSUES – ROOM B

16:00 – 16:20 **A. Avgelis and A.M. Papadopoulos**
The effect of ventilation on the indoor environment quality in a natural ventilated office building, a case study

16:20 – 16:40 **C.H. Halios, C.G. Helmis, V.D. Assimakopoulos, H.A. Flocas and M. Petrakis**
Studying indoor air quality in a typical residential apartment in Athens, Greece

16:40 – 17:00 **I. Katsiris, A. Stamou, and G. Christodoulou**
Thermal comfort evaluation in office spaces using a CFD model

17:00 – 17:20 **E. Andreadaki-Chronaki, K. Manolides and M. Chronaki**
Sustainability of urban areas. The case of Saint John’s social housing settlement

17:20 – 17:40 **K.J. Kontoleon and D. K. Bikas**
The impact of temperature variances on thermal inertia factors of opaque elements of the building envelope

17:40 – 18:00 *Coffee break*

Session 23 – VARIOUS TOPICS – ROOM C

16:00 – 16:20 **D.T. Long, T.C. Voice, N.D. Niagolova, S.P. Mc Elmurry, E.A. Petropoulos, V.S. Ganey, I. Havezov, and K. Chou**
Aqueous geochemistry of groundwater in a region affected by Balkan endemic nephropathy

16:20 – 16:40 **M. Gazouli, J. Ikonopoulos, P. Zacharatos, I. Pavlik, M. Bartos, P. Svastova, N. Cook and V. Gorgoulis**
Incidence of *Mycobacterium avium* subsp. *paratuberculosis* in soft cheese in Greece

- 16:40 – 17:00 **K. Perdikeya, E. Psillakis and N. Kalogerakis**
Solid-phase microextraction to determine the migration of phthalates from plastic ware to drinking water
- 17:00 – 17:20 **M. Zakikhani, D.W. Harrelson, J.C. Pennington, J.M. Brannon, M.K. Corcoran, J. Clark and W.A. Sniffen**
Study of environmental impact and natural attenuation of explosives
- 17:20 – 17:40 **V.A. Sakkas and T.A. Albanis**
Simulated solar degradation of dichlofluanid using TiO₂ suspensions
- 17:40 – 18:00 *Coffee break*

Session 24 – PLENARY - CLOSURE – ROOM A

- 18:00 – 18:20 **D. B. Kittelson**
On-road nanoparticle measurements (*Keynote address*)
- 18:20 – 18:40 **Z. Samaras and E. Vouitsis**
An experimental and theoretical investigation of parameters affecting nanoparticle formation in diesel exhaust sampling
- 18:40 – 19:00 **D. Diakoulaki and G. Mavrotas**
Classification of EU countries with respect to multiple environmental indicators
- 19:00 – 19:30 Chairman's conclusions - Closure

POSTER PRESENTATIONS

A: Solid Waste and Life Cycle Management

- A1 **R. Alvarez, C. Clemente, D. Gomez-Limon, M.A. Diaz-Bautista, A.M. Mastral, M.S. Callen, R. Murillo, T. Garcia and J.M. Lopez** **SWM¹**
Non-fossil fuels in energy generation
- A2 **J. Balios** **SWM**
Nutritional value of fish by-products, and their utilization as fish silage in the nutrition of poultry
- A3 **E.M. Derun, I. Y. Elbeyli, N. Tugrul and S. Piskin** **SWM**
Utilization of boric acid wastes as an additive in lightweight concrete
- A4 **I. Fountoulis, D. Mariolakos, E. Spyridonos and E. Andreadakis** **SWM**
Geological criteria and methodology for landfill sites selection
- A5 **J. Gąsiorzek and R. Kozłowski** **SWM**
Removal of heavy metals from solid waste and the application of the latter to agriculture
- A6 **A.H. Grigoriou** **SWM**
Potential for recycling waste paper in wood composites using isocyanate binder
- A7 **A. Karagiannidis, N. Moussiopoulos, G. Diamandopoulos, K. Kaggelidis and G. Perkoulidis** **SWM**
Simulation modelling software for integrated solid waste management at Prefectural level
- A8 **A. Karagiannidis, A. Papadopoulos, N. Moussiopoulos, G. Perkoulidis, Th. Tsatsarelis and A. Michalopoulos** **SWM**
Characteristics of wastes from electric and electronic equipment in Greece: results of a field survey
- A9 **G.P. Karayannidis, D.S. Achilias, I. Sideridou and D.N. Bikiaris** **SWM**
Chemical recycling of PET by glycolysis. Alkyl resins derived from the glycolised PET
- A10 **P. Konstantinidis, A. Giarikis and J.K. Kaldellis** **SWM**
Evaluation of domestic – waste collection system of Nikaia municipality. Improvements proposals
- A11 **U. Meekum and R. Kenharaj** **SWM**
Effect of photo accelerators on the degradation of polystyrene foam
- A12 **C. Plöchl, G. Dobson and U. Buell** **SWM**
Factors influencing municipal waste arising and composition
- A13 **H. Skilodimou, G. Bathrellos and A.Kelepertzis** **SWM**
The occurrence of slags and wastes of the past mining and metallurgical activities within beachrocks of the Southwestern Lavreotiki Peninsula; the environmental impact
- A14 **Chr. Tsompanidis, G. Lolos, K. Paschali-Manou and Th. Lolos** **SWM**
Solid waste management in the Northern Aegean Region – Current situation and prospects
- A15 **Th. Tzeveleku, I.E. Alexopoulou, F. Hofer, G. Rentizelas, I. Gaitanos and D.C. Papamantellos** **SWM**
New Process environmental friendly concept for the recycling of R/K E-filter dust in the ferronickel production

¹ SWM – Solid Waste Management

- A16 **M. Valakostas, S. Traganitis, K. Aravossis and A. Kungolos** **SWM**
Innovative technical and environmental aspects in planning, constructing and operating the sanitary landfill of Larissa
- A17 **E.V. Voulgaridis, C.N. Passialis and J.L. Philippou** **SWM**
Experimental results of reclaimed polystyrene utilisation in wood products
- A18 **C. Koroneos, G. Theodosiou and N. Moussiopoulos** **LCM²**
Classification and analysis of software support tools for environmentally friendly product design
- A19 **M. Meo, T. Hughes and J. Laguros** **LCM**
Hydrogen production from the wind: prospects for Oklahoma
- A20 **A. Nikolaou and D. Diakoulaki** **LCM**
Life cycle assessment of a bio-electricity system in Greece
- A21 **T.E.Poirazis and V.A. Tsihrintzis** **LCM**
Office building refurbishment based on assessment of energy and natural resource conservation
- A22 **I. Tsikos and D. Mariolakos** **LCM**
The use of LCA for the application of ISO 14000 in cotton processing industry
- A23 **G.T. Tsoulfas and C.P. Pappis** **LCM**
Analysis of environmental parameters in closed-loop supply chains design

B: Waste Water Management and Pollution Control Technology

- B1 **M.O. Angelidis, M. Aloupi and A.M. Gavriil** **WWM³**
Trace metal distribution in urban effluents of Mytilene: results from a five years monitoring program
- B2 **G. Hatziconstantinou and H. Efstathiou** **WWM**
Direct activated sludge centrifuge dewatering
- B3 **V.J. Inglezakis, M.D. Loizidou and H.P. Grigoropoulou** **WWM**
Short-cut design of ion exchange and adsorption fixed bed operations for wastewater treatment
- B4 **S. Lympieropoulos, P.A. Paraskevas and T.D. Lekkas** **WWM**
Evaluation of the efficiency of Sparta's upgraded and expanded sewage treatment plant
- B5 **R. Machunda** **WWM**
Decontamination of fish waste and water hyacinth mixture: batch studies
- B6 **C. Marazioti, M. Kornaros and G. Lyberatos** **WWM**
Impact of the feed fraction of an SBR-System in the nitrification-denitrification process
- B7 **V.M. Matsis and H.P. Grigoropoulou** **WWM**
Removal of odorous compounds in wastewater with a stripping process
- B8 **M. Sakellariou-Makrantonaki, I. Tentas, A. Koliou, D. Kalfountzos and P. Vyrlas** **WWM**
Irrigation of ornamental shrubs with treated municipal wastewater

² LCM – Life Cycle Management

³ WWM – Waste Water Management

- B9 **E. Vaiopoulou, P. Melidis and A. Aivasidis** **WWM**
Continuous BOD monitoring in the effluent of an activated sludge treatment plant
- B10 **A. Vallejo, J.A. Diez, L.M. Lopez-Valdivia, A. Arce and S. Lopez-Fernandez** **WWM**
Nitrous oxide and denitrification N-losses from an irrigated sandy loam soil fertilised with organic N fertilisers in Central Spain
- B11 **S. Antonaraki, D. Dimotikaki, A. Hiskia and E. Papaconstantinou** **PCT⁴**
Photocatalytic decomposition of aqueous solution of Lindane in the presence of $PW_{12}O_{40}^{3-}$
- B12 **J.A. Diez, M.L. Munoz, A. de la Torre, A. Vallejo and P. Hernaiz** **PCT**
Effect of the application of pig slurry on soil pollution in a Mediterranean climate
- B 13 **A. Esmaili, S. Nasser, A.H. Mahvi and R. Atash-Dehghan** **PCT**
Adsorption of lead and zinc ions from aqueous solutions by volcanic ash soil (VAS)
- B14 **J.C. Garcia-Gil, C. Plaza and A. Polo** **PCT**
Utilization of biological parameters as early indicators of soil restoration in a long-term field experiment with municipal waste compost
- B15 **N. Karagiannidis, K. Tsakelidou and D. Almaliotis** **PCT**
Incorporation of a solid industrial manganese waste into the soil improves yield of crops
- B16 **S. Karamutsos, I.E. Alexopoulou, V. Stivanakis, P. Fotias, and D. C. Papamantellos** **PCT**
Investigation of the safe disposal of sintered oil fired power station solid residues
- B17 **E. Kokkalis, Th. Kouimtzis, C. Samara and A. Anastopoulos** **PCT**
Removal of PCBs from polluted and spiked soils and sediments using surfactants
- B18 **A. Kotsifa, D. Kontarides and X. Verykios** **PCT**
Selective catalytic reduction of NO by C_3H_6 over bimetallic Rh-Ag/ Al_2O_3 and Rh-Ru/ Al_2O_3 catalysts
- B19 **D.K. Liguras and X.E. Verykios** **PCT**
A Novel, highly efficient and environmentally friendly process for combined heat and power production from biomass
- B20 **A. Mastral, T. Garcia, M.S. Callen, R. Murillo, J.M. Lopez, and M.V. Navarro** **PCT**
PAH pollution control technology
- B21 **A. Mountouris, E. Voutsas, K. Magoulas, M. Vardavoulias and D. Tassios** **PCT**
Plasma waste treatment: process design and energy optimization
- B22 **A. Moutsatsou, A. Vlyssides and A. Korkolis** **PCT**
Treatment of acidic industrial wastewaters and simultaneous production of an exploitable solid product
- B23 **V.E. Stivanakis, D.K. Papamantellos and E. Galanoulis** **PCT**
Properties on the utilization of lignite combustion residues from the Thermal Power Plant of Megalopolis, in Greece

C: Water Resources Management, Water Quality, Groundwater and Marine Pollution

- C1 **P. Anastasiadis** **WRM⁵**
Vulnerability of groundwater to agricultural activities pollution
- C2 **N. Chrysoulakis, M. Diamandakis and P. Prastacos** **WRM**
GIS Integration of ASTER stereo imagery for the support of watershed management

⁴ PCT – Pollution Control Technologies

⁵ WRM – Water Resources Management

- C3 **K. Fytianos and A. Lourantou** **WRM**
Chemical speciation of elements in sediment samples collected at lakes Volvi and Koronia, N. Greece
- C4 **R. Gonzalez-Ponce, C. Plaza, J.C. Garcia Gil and A. Polo** **WRM**
Nitrogen transformations in pig slurry amended soils under aerobic incubation
- C5 **A. Karakos, X. Skoulikaris, J.M. Monget and H. Jerrentrup** **WRM**
The broadcasting on Internet of water DPSIR indicators. Experiment on the Nestos delta, Greece
- C6 **A. Loukas, L. Vasiliades, and N.R. Dalezios** **WRM**
Intercomparison of meteorological drought indices for drought assessment and monitoring in Greece
- C7 **A. Loukas, L. Vasiliades, and N. Mpastrogiannis** **WRM**
Water balance modeling for the evaluation of surface water resources
- C8 **O.G. Manoliadis and K.I. Vatalis** **WRM**
An environmental impact assessment decision analysis system for irrigation systems
- C9 **I. Mariolakos, I. Fountoulis, E. Spyridonos, E. Capourani and E. Andreadakis** **WRM**
Sustainable water resources management in Neotectonic basin systems
- C10 **S. McElmurry, I. Aslam, A.U. Syed, T.C. Voice, D.T. Long, M.S. Phanikumar, D.P. Lusch and W.J. Northcott** **WRM**
Determining the effects of various land uses within Michigan State University's watershed on water quality in the Red Cedar river
- C11 **S. Naoum and I.K. Tsanis** **WRM**
Estimating rainfall at ungauged locations using topographical and geographical features by means of multiple linear regression
- C12 **V. Ovezikoglou, M. Ladakis, M. Dassenakis and M. Scoullas** **WRM**
The fluctuation of nutrients and organic carbon in the waters of some rivers in the western Greece
- C13 **E. Pagourtzi, K. Nikolopoulos and V. Assimakopoulos** **WRM**
GFIS (Geographic Forecasting Information System): a case study in water resources management
- C14 **E. Papadopoulou, E. Varanou, E. Baltas, A. Dassaklis and M. Mimikou** **WRM**
Estimating potential evapotranspiration and its spatial distribution in Greece using empirical methods
- C15 **G. Zobanakis, E. Baltas, A. Dassaklis and M. Mimikou** **WRM**
Quantifying surface runoff in the water district of Western Macedonia using multiple regression analysis and G.I.S.
- C16 **N. Giannoulis, V. Maipa, I. Konstantinou and I. Dimoliatis** **WQ**
Microbiological risk assessment of Agios Georgios source supplies in Northwestern Greece based on *faecal coliforms* determination and sanitary inspection survey
- C17 **B.S. Jayasinghe, M.I.F.P. Jayawardene and K.A.S. Pathiratne** **WQ⁶**
Quantification of total chromium and hexavalent chromium in water by electrothermal atomic absorption spectrometry
- C18 **N. Karagiannidis, S. Bladenopoulou, P. Psoma and N. Stavropoulos** **WQ**
Water quality of irrigation wells in eastern Thessaloniki region

⁶ WQ – Water Quality

- C19 **M. Mitrakas, J. Bougiouklis, J. Georgiou and R. Tzimou-Tsitouridou** **WQ**
Difference in the treatment for particulates removal from surface and ground waters - the cases of Sidirokastro and Velvendo
- C20 **M. Dimopoulos, M. Chalkiadaki, M. Dassenakis and M. Skoullas** **GW**⁷
Quality of groundwater in western Thessaly. The problem of nitrate pollution
- C21 **J.D. Demetriou** **MP**⁸
Polluted water effluent in the sea
- C22 **M. Eleftheriadou and M. Skoullas** **MP**
Nutrient and trace metal distribution in Astakos Bay, Aetoloakarnania, Greece

D: Environmental Law and Policy – Ecosystems

- D1 **A. Sepetis, G. Halkos and C. Sophoulis** **EL-EP**⁹
The impact of the environmental policy and management planning on the shareholder value: evidence from the Greek market
- D2 **M. Skourtos and A. Kontogianni** **EL-EP**
Shared waters - shared responsibility. Application of the principles of burden sharing in the Mediterranean
- D3 **G. Valaoras and T. Tziouvaras** **EL-EP**
Wildlife trade in Greece: how to improve the implementation of the European Union CITES regulations
- D4 **Z. Andreopoulou and L.S. Iliadis** **ECO**¹⁰
The E-organization of human resources' data and its potential in regional forest administration in Greece
- D5 **A. Antonarakou and H. Drinia** **ECO**
Climatic variations during Sapropel deposition in Gavdos island, eastern Mediterranean Sea: a key for understanding formation processes
- D6 **G. Arapis, C. Saitanis and G. Salakou** **ECO**
Caesium-137 distribution in the soil in a semi-natural ecosystem in Greece
- D7 **E. Beriatos** **ECO**
Nature protection policy and protected areas: the case of National Parks
- D8 **M. Christou, M. Mardikis, E. Alexopoulou, S.L. Cosentino, V. Copani and E. Sanzone** **ECO**
Environmental studies on Arundo Donax
- D9 **P. Delimani and G.S. Xeidakis** **ECO**
Environmental problems in Lake Vistonis Thrace region, Northern Greece
- D10 **C.S. Doukas, J. Dimitriou and A. Antonarakou** **ECO**
Paleoecological restrictions and applications in micropaleontology
- D11 **P.Ch. Eskioglou** **ECO**
Forest engineering and environment protection

⁷ GW – Ground water

⁸ MP – Marine pollution

⁹ EL-EP – Environmental Law – Environmental Policy

¹⁰ ECO - Ecosystems

- D12 **P. Ganatsas and M. Tsakaldimi** ECO
Root system modification of *pinus brutia ten.* Species under adverse ecological conditions
- D13 **G. Gatidou, A. Kotrikla, V. Rontogianni, N.S. Thomaidis and Th. Lekkas** ECO
Toxic effects of the antifouling biocide Irgarol 1051 and its principal metabolite on the green alga *dunaliella tertiolecta*
- D14 **I. Gatsis, Is. Parcharidis and A. Pavlopoulos** ECO
The use of fused satellite data (ERS-2 & SPOT-2XS) for mapping of environmentally sensitive areas in erosion: the case study in Korinthos area (NE Peloponnese, S. Greece)
- D15 **A. Gkaraveli, J. Latham, J.H. Williams and A. Sfougaris** ECO
Forest restoration in an National Park: modelling suitability of native woodland using GIS and spatial data
- D16 **F. Giannakopoulou, C. Haidouti, V. Skarlou and I. Massas** ECO
The effect of irrigation level and the previously cultivated plant species on ¹³⁴Cs uptake by the vegetative part of sunflower plants
- D17 **K. Hadjibiros, A. Tsouni and K. Vreda** ECO
Implementation of ecological engineering plans in Greek wetlands
- D18 **G.E. Pavlikakis and V.A. Tsihrintzis** ECO
Evaluation of three multi-criteria decision-making methods in ecosystem management
- D19 **A.N. Riga-Karandinos and C. Saitanis** ECO
First report on the concentrations of PGE (Pt, Pd) biomonitored in Athens
- D20 **E. Shamrikova, T.A. Sokolova and I.V. Zaboeva** ECO
Effects of acid precipitation and alfisols in the East European Russian Taiga
- D21 **H. Vakoufaris, I. Nikolaou, C. Sophoulis and I. Spilanis** ECO
Rural niche products from less favoured areas: a viable policy or transient emergency solution?
- D22 **D. Zafiropoulos and L. Merlini** ECO
A comparative ecological study of bottlenose dolphins (*Tursiops truncatus*) in South and North Evoikos gulfs

**E: Global Change, Air Pollution, Environmental Pollution and Human Health,
Environmental Economics, Environmental Performance**

- E1 **K. Papagiannaki, S. Mirasgedis, E. Georogopoulou, Y. Sarafidis and D.P. Lalas** GC¹¹
Estimate of emissions scenarios effects on climate parameters in the Balkan Region
- E2 **K. Topouzelis** GC
Wind-scatterometer observation over Amazon rainforest
- E3 **A. Georgakopoulos** AP¹²
Chemistry and morphology of fly ash samples from the main lignite power stations of Northern Greece
- E4 **J.K. Kaldellis, K. Chalvatzis, G. Spiropoulos and A. Paliatsos** AP
Estimating the energy related air pollutants production in Greece, for the next decade

¹¹ GC – Global Change

¹² AP – Air Pollution

- E5 **S. Kalligeros, F. Zannikos, S. Stournas, E. Lois, G. Anastopoulos, Ch. Teas and D. Karonis** AP
Impact of gasoline quality on engine performance and emissions
- E6 **A. Kelepertsis, D.E. Alexakis, P.T. Nastos and E.A. Kanellopoulou** AP
The presence of volcanic ash in western Greece and its association with the eruption of the Aetna volcano, Italy. Consequences on the environment.
- E7 **A.M. Kosmas and Ev. Drougas** AP
The CH₃O₂+Ocl atmospheric reaction: Theoretical description and role in stratospheric ozone budget
- E8 **A. Mastral, M.S. Callen, J.M. Lopez, R Murillo, T Garcia and M.V. Navarro** AP
Atmospheric pollution in the Zaragoza urban area
- E9 **M. Lazaridis, E. Dahlin, J. E. Hansen, J. Smolik, N. Schmidbauer, P. Moravek, V. Zdimal, O. Hermansen, T. Glytsos, T. Svendby, C. Dye** AP
Characterization of indoor/outdoor particulate matter physico-chemical characteristics in two residential houses in Oslo, Norway
- E10 **I.K. Panagopoulos, A.N. Karagiannis, P.A. Kassomenos, N. Pavlopoulos and E. Xanthoudakis** AP
Selection of an optimum sites to construct and develop an airport in the North Aegean using multi criteria analysis
- E11 **A. Platakos, V. Karathanasi and D. Rokos** AP
An algorithm for DEM Conversion to wrapped interferometric phase
- E12 **R.E.P. Sotiropoulou, E. Tagaris, C. Pilinis, S. Andronopoulos, N. Gounaris, A. Sfetsos and J.G. Bartzis** AP
Estimation of particulate matter concentrations in the greater Athens area by means of the UAM-AERO model
- E13 **A.G. Triantafyllou, M. Voutsinas and N. Kiratzis** AP
Analysis of suspended particulate levels in an industrial area of Greece over a multi-year period
- E14 **T. Trivellas and V. Hrissanthou** AP
Study of time series of air pollution in the city of Kavala, Greece
- E15 **L.I. Tsikritzis, S.S. Ganatsios, O.G. Duliu and T.D. Sawidis** AP
Natural and artificial radionuclides distribution in soil in the vicinity of coal fired plants of West Macedonia, Greece
- E16 **A. Anastasiadis** EP¹³
Urban planning and risk management
- E17 **A. Belegri-Rompoli and I. Tsolas** EP
Environmental performance measurement at sectoral level: electricity, gas and water
- E18 **B. Bolognini, F.E. Ciarapica and G. Giacchetta** EP
Strategies for the integration of management standard and systems
- E19 **N. Dourala, D. Papadopoulou, E. Giama and N. Moussiopoulos** EP
Environmental accounting: a decision-making tool for companies
- E20 **K. Karatzas, K. Fedra, N. Moussiopoulos, A. Lascaratos, L. Perivoliotis, M. Loizidou and D. Fatta** EP
Environmental management of a coastal urban area: the ECOSIM project

¹³ EP – Environmental Performance

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| E21 | D. P. Komilis, E. Kouzoumi and C.P. Halvadakis
Financial and environmental analysis of typical three phased olive mills in Greece | EP |
| E22 | P.T. Nastos, A.G. Paliatsos, D.B. Panagiotakos, A. Antoniou, C. Chrysohoou, C. Pitsavos and P.K. Toutouzas
Associations between primary air pollutants and cardiovascular mortality in Athens | HEALTH ¹⁴ |
| E23 | C. Koroneos, M. Michailidis and N. Moussiopoulos
Multi objective optimization in energy systems: the case of Lesvos island | EE ¹⁵ |
| E24 | A. Stergiadou, Ch. Stergiadis, V. I. Giannoulas and K.G. Doucas
The contribution of different GPS type's in sustainable management (Case: Mountain Chortiatis – Kissos) | EE |
| E25 | P. Soldatos and V. Lychnaras
Technical-economic and financial analysis for renewable energy chains: the case of bio-energy | EE |
| E26 | E.I. Voulgaridou
The importance of University forest at Pertouli, Trikala, Central Greece, to local economy and qualitative environment | EE |

¹⁴ HEALTH – Environmental Pollution and Human Health

¹⁵ EE – Environmental Economics