

**11th INTERNATIONAL CONFERENCE
ON ENVIRONMENTAL
SCIENCE AND TECHNOLOGY**

CEST2009

PROGRAMME OF THE CONFERENCE

**3-5 September 2009
Chania, Crete, Greece**



UNIVERSITY OF THE AEGEAN
DEPARTMENTS OF:
▶ ENVIRONMENTAL STUDIES
▶ STATISTICS AND
ACTUARIAL-FINANCIAL MATHEMATICS



Global NEST

The GLOBAL NETWORK
FOR ENVIRONMENTAL
SCIENCE AND
TECHNOLOGY

11th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (CEST2009)

The eleventh International biennial Conference on **Environmental Science and Technology** continues the well established tradition of a successful series of CEST Conferences dating back to 1989. Like the previous conferences this conference maintains and upgrades the synthetic and integrated approach towards protection and restoration of the environment, by bringing together engineers, scientists, students, managers and other professionals from different countries, involved in various aspects of environmental science and technology.

The quality of the conference programmes over the last 20 years has been continuously improving. The proceedings of the 7th, 8th, 9th and 10th CEST have been included in ISI, Chemical Abstracts and SRCosmos international scientific data banks.

Venue

The Conference will take place in Platanias, Chania, Crete, Greece, at the *Conference Centre of Minoan Palace Hotel*, between 3 - 5 September 2009.

Conference topics

- Water Resources Management
- Water Treatment and Analysis
- Marine Pollution
- Wastewater Treatment
- Solid Waste Management
- Soil Contamination and Remediation
- Air Pollution
- Indoor Pollution
- Air Treatment
- Meteorology
- Global Environmental Change
- Ecology
- Environmental Management and Sustainability
- Health & the environment

Conference language

The official conference language is English.

Registration

To register, please fill in and send the attached registration form to the Conference Secretariat.

Registration fees

The registration fee includes the Conference Proceedings, lunches, beverages, coffees and the official conference dinner.

Authors/Participants

350 € (before 15th of July 2009)

400 € (after 15th of July 2009)

Students

200 €

Payment of the fees can be made by:

- cheque, payable to Research Unit, University of the Aegean
- bank draft
Research Unit, University of the Aegean
Alpha Bank (Greece)
IBAN: GR9501406010601002001000713
SWIFT code: CRBAGRAA
- credit card (Visa and Mastercard credit cards are accepted).

Please quote your name and mail or fax a copy of the Bank receipt to the Secretariat.

During the Conference, payments of registration fees must be accompanied by registration form and made by cash or credit card (Visa and Mastercard credit cards are accepted).

Official receipts and invoices can be collected from the Secretariat Desk by pre-registered participants who did not already receive them by mail. On-site registrants wishing to receive their invoices must notify the Conference Secretariat and will receive them by mail after the Conference.

Liability

The Conference fees do not include provisions for the insurance of participants or their accompanying guests against personal injuries, sickness, theft or property damage. Participants are advised to arrange for insurance if they consider necessary. Neither the Conference Organising Committee, nor Scientific and Programme Committee Members assume any responsibility for loss, injury, or damage to persons or belongings, whatever their cause may be.

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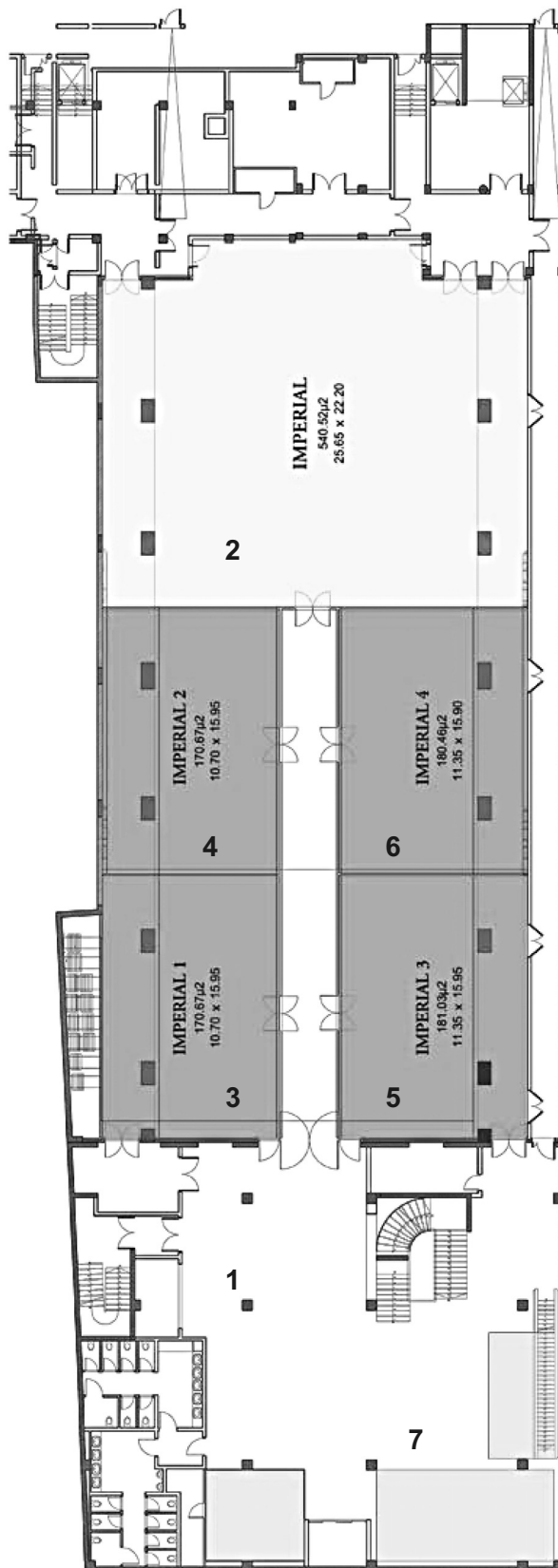
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**CEST2009
TIMETABLE OF THE CONFERENCE**

		ROOM				POSTER AREA
		IMPERIAL 1	IMPERIAL 2	IMPERIAL 3	IMPERIAL 4	
THURSDAY 3 SEPTEMBER 2009	09:30 - 11:00	SESSION 1 OPENING Hall IMPERIAL				POSTER SESSION A AIR POLLUTION SOLID WASTE MANAGEMENT
	11:30 - 13:15	SESSION 2 WASTEWATER TREATMENT (1)	SESSION 3 WATER RESOURCES MANAGEMENT (1)	SESSION 4 AIR POLLUTION (1)	SESSION 5 SOLID WASTE MANAGEMENT (1)	
	17:00 - 20:30	SESSION 6 WASTEWATER TREATMENT (2)	SESSION 7 WATER RESOURCES MANAGEMENT (2)	SESSION 8 AIR POLLUTION (2)	SESSION 9 SOLID WASTE MANAGEMENT (2)	
FRIDAY 4 SEPTEMBER 2009	09:00 - 13:30	SESSION 10 WASTEWATER TREATMENT (3)	SESSION 11 WATER RESOURCES MANAGEMENT (3)	SESSION 12 AIR POLLUTION (3) - ENERGY	SESSION 13 SOLID WASTE MANAGEMENT (3) - GLOBAL ENV. CHANGE - ECOLOGY	POSTER SESSION B METEOROLOGY GLOBAL ENVIRONMENTAL CHANGE WATER TREATMENT HEALTH & THE ENVIRONMENT WASTEWATER TREATMENT BIOREMEDIATION
	17:00 - 20:30	SESSION 14 WASTEWATER TREATMENT (4)	SESSION 15 WATER TREATMENT (1)	SESSION 16 BIOREMEDIATION - ENVIRONMENTAL MANAGEMENT (1)	SESSION 17 SOIL CONTAMINATION & REMEDIATION	
SATURDAY 5 SEPTEMBER 2009	09:00 - 13:30	SESSION 18 WASTEWATER TREATMENT (5)	SESSION 19 WATER TREATMENT (2)	SESSION 20 ENVIRONMENTAL MANAGEMENT (2)	SESSION 21 HEALTH & THE ENVIRONMENT - METEOROLOGY	POSTER SESSION C SOIL CONTAMINATION & REMEDIATION ECOLOGY ENV. MANAGEMENT ENERGY WATER RESOURCES MANAGEMENT
	18:00 - 20:00	SESSION 22 CLOSING SESSION Hall IMPERIAL				

MAP OF CONFERENCE CENTRE

Minoa Palace Hotel, Platanias, Chania, Crete, Greece



1. SECRETARIAT
2. IMPERIAL HALL
3. Room IMPERIAL 1
4. Room IMPERIAL 2
5. Room IMPERIAL 3
6. Room IMPERIAL 4
7. POSTER AREA

Imperial Congress Hall

ORAL PRESENTATIONS

Session 1 – OPENING

Thursday 3 September 2009 - morning

HALL “IMPERIAL”

Chairs: V. Belgiorno, K. Hadjibiros, T.D. Lekkas

- 9:30 – 9:45 **K. Hadjibiros – V. Belgiorno** (chairmen of the Conference) – Opening of the Conference - Introductory notes
- 9:45 – 10:00 **D. Marinos – Kouris**
Homage to late professor N. Spyrellis (former Conference Chairman and funding member of the Global NEST)
- 10:00 – 10:15 **Roccaro P. and Vagliasindi F.G.A.**
Monitoring emerging DBPs in chlorinated drinking water using absorbance and fluorescence indexes
- 10:15 – 10:30 **Servert J., San Miguel G. and López D.**
The development of hybrid solar - biomass plants for the production of renewable energy; Technical and economic assessment
- 10:30 – 10:45 **Haynes R.J. and Belyaeva O.N.**
Use of municipal green waste as the basis for production of manufactured soil in Australia
- 10:45 – 11:00 **S.P. McElmurry, D.T. Long and T.C. Voice**
Influence of aromaticity on dissolved organic carbon and copper complexation
- 11:00 – 11:30 *Coffee break*

Session 2

WASTEWATER TREATMENT (1)

Thursday 3 September 2009 - morning

ROOM “IMPERIAL 1”

Chairs: V. Belgiorno

- 11:30 – 11:45 **Antonopoulou G., Stamatelatou K., Bebelis S. and Lyberatos G.**
Using cheese whey as a source of energy in a microbial fuel cell
- 11:45 – 12:00 **Calvanese C., Fabbricino M. and Gallo R.**
Use of industrial food waste for chromium removal from tannery wastewater
- 12:00 – 12:15 **Jausovec D., Angelescu D., Lindman B. and Voncina B.**
Biodegradation of cellulose textile substrates
- 12:15 – 12:30 **Draganigos V., Frontistis Z., Xekoukoulotakis N. P., Hapeshi E., Kassinis D.F. and Mantzavinos D.**
Decomposition of EDCs by solar light driven photocatalysis
- 12:30 – 12:45 **Patoni M. and Kalogerakis N.**
Effect of acclimatization factors on stability and methane production of anaerobic cultures from olive mill wastewater.
- 12:45 – 13:00 **Murata S., Zinchenko A.A., Matsuoka S. and Sakai H.**
Deep removal of mercury and lead ions using combination of DNA and flocculant made by zeolite
- 13:00 – 13:15 **Discussion**
Lunch break

Session 3
WATER RESOURCES MANAGEMENT (1)

Thursday 3 September 2009 - morning
ROOM "IMPERIAL 2"

Chairs: K. Hadjibiros

- 11:30 – 11:45 **Tzimopoulos C. and Evangelides C.**
Multiobjective decision making in water resources management with fuzzy information
- 11:45 – 12:00 **Murariu G. and Puscasu G.H.**
Recurrent neural network approaching to nonlinear flood assessment
- 12:00 – 12:15 **Achilleos G.A. and Tsouchlaraki A.**
Extracting watersheds and runoff networks through digital elevation models – the influence of elevation uncertainty on the results
- 12:15 – 12:30 **Yabuki T., Michio Fukushima, Tomohiro Iwadate, Masami Kaneko and Satoshi Kameyama**
Analysis of the diversity of bending in river meandering in terms of shannon entropy
- 12:30 – 12:45 **Vasiliades L. and Loukas A.**
Precipitation spatial interpolation methods assessment in Pinios river basin, Greece
- 12:45 – 13:00 **Baltas E.A. and Mimikou M.A.**
Regionalization analysis of monthly flow duration curves in western Greece
- 13:00 – 13:15 **Discussion**
Lunch break

Session 4
AIR POLLUTION (1)

Thursday 3 September 2009 - morning
ROOM "IMPERIAL 3"

Chairs: T.D. Lekkas, C.G. Helmis

- 11:30 – 11:45 **Sidiropoulos C., Tsilingiridis G., Pentaliotis A., Evripidou C., Papastavros C., Mesimeris T. and Papastavrou M.**
A spatially allocated air pollution emissions inventory for Cyprus
- 11:45 – 12:00 **Moussiopoulos N., Douros I., Tsegas G. and Kleanthous S.**
An air quality management system for Cyprus
- 12:00 – 12:15 **Moussiopoulos N., Barmpas F. and Ossanlis I.**
A study for the effect of source treatment on numerical results for pollutant dispersion in urban areas
- 12:15 – 12:30 **Carach V., Muller G., Janoskova K. and Bakalar T.**
Road traffic NOx emissions from passenger cars
- 12:30 – 12:45 **Helmis C.G., Sgouros G., Flocas H., Schäfer K., Emeis S., Jahnb C., Hoffmann M., Heyderb Ch., Haas Fl., Kurtenbach R., Niedojadloc A., O'Connor M. and Anamaterou E.**
The role of Meteorology on the background Air Quality of the Athens International Airport
- 12:45 – 13:00 **Kothiyal N.C. and Vaneet K.**
Qualitative and quantitative study of some polycyclic aromatic hydrocarbons generated by automobile exhaust as a function of fuels and engine type
- 13:00 – 13:15 **Discussion**
Lunch break

Session 5
SOLID WASTE MANAGEMENT (1)

Thursday 3 September 2009 - morning
ROOM "IMPERIAL 4"

Chairs: S. Masi, G. San Miguel

- 11:30 – 11:45 **Masciandaro G., Bianchi V., Macci C., Doni S., Ceccanti B. and Iannelli R.**
Potential of on site vermicomposting of sewage sludge in soil quality improvement
- 11:45 – 12:00 **Mancini I.M., Masi S., Caniani D. and Piscitelli M.**
Residual biodegradability of landfilled wastes after 15 years in a dry-tomb landfill
- 12:00 – 12:15 **Nikoli E. and Voudrias E.**
Using biogas for energy production: Comparison between anaerobic digestion and landfilling
- 12:15 – 12:30 **Nikolaou A., Giannis A. and Gidarakos E.**
Comparison of aerobic and anaerobic degradation of municipal solid wastes in lab scale bioreactors
- 12:30 – 12:45 **Panagiotidou N., Gekas V. and Stavrakakis G.**
Modelling of electrical energy recovery from urban solid waste system: The case of Chania – Crete – Greece
- 12:45 – 13:00 **Discussion**
Lunch break

Session 6
WASTEWATER TREATMENT (2)

Thursday 3 September 2009 – afternoon
ROOM "IMPERIAL 1"

Chairs: A. Andreadakis, R. Iannelli

- 17:00 – 17:15 **Fongsatitkul P., Wareham D.G. and Elefsiniotis P.**
The effect of organic load and anoxic/oxic fraction on carbon, nitrogen and phosphorus removal in an SBR treating a carbon-limited wastewater
- 17:15 – 17:30 **Zafiriadis I., Kapagiannidis A.G. and Aivasidis A.**
Monitoring of microbial storage products and the efficiency of an activated sludge plant performing anoxic phosphorus removal under different operational conditions
- 17:30 – 17:45 **Terzakis S., Papageorgiou N., Fountoulakis M., Kalogerakis N., Chatzinotas A. and Manios T.**
Nitrifying & denitrifying bacterial communities responses under different applied hydraulic loading rates in constructed wetlands & attached biofilm reactors
- 17:45 – 18:00 **Valunas I. and Racys V.**
Three-year experience in industrial wastewater treatment using biologically activated carbon (BAC)
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Masi S., Mancini I.M., Caniani D. and Pandolfo R.**
Agronomic properties and phytotoxic effect on mixtures of MSW organic fraction and drinking water sludges
- 19:00 – 19:15 **Sarioglu M., Akkoyun S. and Bisgin T.**
Inhibition effects of heavy metals on anaerobic sludge

- 19:15 – 19:30 **Papadimitriou C.A., Karapanagioti H.K., Samaras P. and Rouse J.D.**
Comparison of treatment efficiency and sludge characteristics in conventional and suspended PVA gel beads activated sludge treating Cr (VI) containing wastewater
- 19:30 – 19:45 **Grassi M., Rizzo L. and Belgiorno V.**
Organic contaminants removal from wastewater by adsorption on granular TiO₂: a study with methylene blue
- 19:45 – 20:00 **D'Antonio L. and Napoli R.M.A.**
dewaterability of MBR chromium rich sludge
- 20:00 – 20:15 **Andreadakis A., Mamais D. and Gavalakis E.**
Suitable tertiary treatment schemes for wastewater reuse in compliance with Greek legislation
- 20:15 – 20:30 **Discussion**

Session 7
WATER RESOURCES MANAGEMENT (2)

Thursday 3 September 2009 – afternoon
ROOM "IMPERIAL 2"

Chairs: M. Mimikou, M. Karydis

- 17:00 – 17:15 **Charalabidis G., Ziogas K. and Hrissanthou V.**
Measurements of water discharge, sediment transport and water quality parameters in Kosynthos river basin
- 17:15 – 17:30 **Vaz N., Dias J.M. and Neves R.**
Modelling salinity and residence time under different freshwater inflow scenarios: the case of Ria de Aveiro
- 17:30 – 17:45 **Georgoulas A., Tzanakis T., Angelidis P., Panagiotidis T. and Kotsovinos N.**
Numerical simulation of suspended sediment transport and dispersal from Evros River into the north Aegean sea, by the mechanism of turbidity currents
- 17:45 – 18:00 **Dritselis C.D. , Moutsikopoulou M. and Vlachos N.S.**
Modeling of droplet deposition in two-phase gas-liquid annular pipe flows for environmental application
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Theodossiou N. and Fotopoulou E.**
Delineation of well head protection areas using stochastic analysis approach
- 19:00 – 19:15 **Shapouri M., Tavares P.C., Ribeiro L. and Nascimento J.**
Integration of responses to seasonality and inter-year variability by environmental variables in surface and groundwater
- 19:15 – 19:30 **Lee B., Reckhow K.H. and Kullman S.W.**
Bayesian network model development for prediction the fate and distribution of natural estrogen compounds from swine concentrated animal feeding operations
- 19:30 – 19:45 **Malhadas M., Nunes S. , Neves R. , Carvalho S., Couto C. and Zenha H.S.**
Impact of Casalito waste water treatment plant discharge on Óbidos Lagoon water quality
- 19:45 – 20:00 **Kazezyilmaz-Alhan C.M., Medina M.A. Jr. and Stepmner D.**
Wetland hydrology and water quality modeling of Duke University restored wetland site

20:00 – 20:15 **Boglis A., Evelpidou N., Vassilopoulos A., Lekkas D.F, Gournelos Th. and Fountoulis I.**
Urban flood modeling in Karlovassi Area – Samos island

20:15 – 20:30 **Discussion**

Session 8
AIR POLLUTION (2)

Thursday 3 September 2009 – afternoon
ROOM “IMPERIAL 3”

Chairs: F.G.A. Vagliasindi, E. Flocas

17:00 – 17:15 **Katsanis S., Chin S.B., Nicolleau F.C.G.A. and Bullough W.A.**
Particle dispersion from a compost site in the UK: a numerical simulation

17:15 – 17:30 **Turpin C. and Harion J-L.**
Numerical modelling of flow structures over an industrial site: effect of the surroundings buildings on dust emissions

17:30 – 17:45 **Latos M., Karageorgos P., Mpasiakos Ch., Kalogerakis N. and Lazaridis M.**
Dispersion modeling of odours emitted from pig farms

17:45 – 18:00 **Hoi K.I., Yuen K.V. and Mok K.M.**
Enhancement of kalman filter based air quality predictive system by using bayesian approach

18:00 – 18:15 **Discussion**

18:15 – 18:45 *Coffee break*

18:45 – 19:00 **Kopanakis I., Lydakis-Simantiris N., Katsivela E., Pentari D., Zampas P., Mihalopoulos N. and Lazaridis M.**
Particulate matter measurements at Akrotiri Research Station, Crete, Greece

19:00 – 19:15 **Castro D., Slezakova K., Delerue-Matos C., Alvim-Ferraz M.C., Morais S. and Pereira M.C.**
Contribution of traffic and tobacco smoke in the distribution of polycyclin aromatic hydrocarbons on outdoor and indoor PM_{2.5}

19:15 – 19:30 **Salapasidou M., Samara C. and Voutsas D.**
Xenoestrogenic compounds in the atmosphere of Thessaloniki, Northern Greece

19:30 – 19:45 **Ling X., Jayaratne R. and Morawska L.**
Air ion concentrations under overhead power lines

19:45 – 20:00 **Papavasiliou A., Matsouka V., Konsolakis M., Tsetsekou A. and Yentekakis I.V.**
Effect of Ce_{0.4}Zr_{0.5}La_{0.1}O_{1.95} solid solution on the structural and catalytic properties of monometallic Pt/Al₂O₃ three-way catalytic converters

20:00 – 20:15 **Petrescu C., Leitte A., Budu D.M., Franck U., Ionovici R., Richter M., Suci O., Herbarth O. and Schlink U.**
Modeling of airborne chemical stressors and climate factors combined action on the respiratory health of the population in Drobeta Turnu Severin, Romania

20:15 – 20:30 **Discussion**

Session 9
SOLID WASTE MANAGEMENT (2)

Thursday 3 September 2009 – afternoon
ROOM “IMPERIAL 4”

Chairs: N. Moussiopoulos, S.P. Varnavas

- 17:00 – 17:15 **Miskolczi N., Angyal A. and Bartha L.**
Pyrolysis of municipal solid waste for recovery of fuels using different catalysts
- 17:15 – 17:30 **Marculescu C., Badae A. and Antonini G.**
The influence of pyrolysis process parameters on MSW compounds pyro-(vapor)gasification for energy recovery
- 17:30 – 17:45 **Markidis I., Tsagas F., Grigoropoulos N., Tsakmakis I. and Dermatas D.**
Optimization model for the waste transportation network in the region of eastern Macedonia-Thrace in Greece
- 17:45 – 18:00 **Fataei E.**
Housing site selection of landfills for urban solid wastes using GIS technology and analytical hierarchy process (A case study in the City of Givi)
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Moussiopoulos N., Banias G., Aidonis D., Anastaselos D., Achillas Ch., Iakovou E., Papadopoulos A. and Vlachokostas Ch.**
Development of a web based application for the optimal demolition waste management in the region of central Macedonia
- 19:00 – 19:15 **Papanicolaou F., Antoniou S. and Pashalidis I.**
Studies on physico-chemical parameters affecting the solubility of phosphogypsum
- 19:15 – 19:30 **Lawrence D. and Mavroulidou M.**
Properties of concrete containing foundry sand
- 19:30 – 19:45 **Varnavas S. P. and Boufounos D.**
The potential application of bauxite residue in solid waste stabilization and plant development
- 19:45 – 20:00 **Liu S., Gao J., Qu B., Yang Y. and Xin X.**
Study on the adsorption characteristics of heavy metal ions on steel slag adsorbent
- 20:00 – 20:15 **Discussion**

Session 10
WASTEWATER TREATMENT (3)

Friday 4 September 2009 – morning
ROOM "IMPERIAL 1"

Chairs: P. Andrzejewski

- 9:00 – 9:15 **Bulskaya I., Bizani E. and Fytianos K.**
Oxidative treatment of paper mill effluent by TiO₂ photocatalysis or photo-fenton reagent
- 9:15 – 9:30 **Gorgkolia C., Bizani E. and Fytianos K.**
Photo-fenton decomposition of the endocrine disrupting compound di-butyl phthalate
- 9:30 – 9:45 **Petsas A.S., Vagi M.C., Kostopoulou M.N. and Lekkas T.D.**
Photodegradation of disulfoton under sunlight radiation in different environmental matrices such as natural waters and sediments
- 9:45 – 10:00 **Tureli G., Gursoy B.H., Olmez-Hanci T. and Arslan-Alaton I.**
H₂O₂/UV-C and Fe²⁺/H₂O₂/UV-C treatment of commercial aryl sulphonates
- 10:00 – 10:15 **Gursoy B.H., Tureli G., Olmez-Hanci T. and Arslan-Alaton I.**
Photochemical advanced oxidation of textile surfactant solutions using H₂O/UV-C and photo-fenton processes: a case study with nonym phenol ethoxylate

- 10:15 – 10:30 **Chatzisymeon E. and Matzavinou D.**
Wet air oxidation of olive oil mill wastewaters: determination of key operating parameters by factorial design
- 10:30 – 10:45 **Laoufi N.A. and Bentahar F.**
Photocatalytic oxidation of methomyl on an immobilized particulate TiO₂ layer
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Noutsopoulos C., Mamais D. and Andreadakis A.**
Long chain fatty acids removal in aerobic, anaerobic and anoxic selector tanks: evidence for insufficient *Microthrix Parvicella* control
- 11:45 – 12:00 **Gavalaki E., Andreadakis A. and Stamou A.**
Simulation of the metabolic activity of sewer biofilms under aerobic and anoxic conditions
- 12:00 – 12:15 **Marneri M., Antoniou K. and Mamais D.**
Microthrix parvicella in mesophilic and thermophilic anaerobic digestion systems at different detention times
- 12:15 – 12:30 **Radjaram B. and Saravanane R.**
Assessment and evaluation of biohydrogen production through co-digestion of sugar fibrous mud and domestic sewage
- 12:30 – 12:45 **Papadopoulou C., Tsoumani A., Ntaikou I. and Lyberatos G.**
Continuous fermentative hydrogen production from olive mill wastewater by a mixed acidogenic culture: effect of periodic feeding mode on hydrogen yield
- 12:45 – 13:00 **Sheli C. and Moletta R.**
Comparative performance of high rate anaerobic reactors with low density polyethylene supports treating wine vinasses
- 13:00 – 13:15 **Celebi H. and Sponza D.**
Anaerobic treatability of amoxicillin and erythromycin antibiotics and their toxicities
- 13:15 – 13:30 **Discussion**
Lunch break

Session 11
WATER RESOURCES MANAGEMENT (3)

Friday 4 September 2009 – morning
ROOM “IMPERIAL 2”

Chairs: DF. Lekkas, D. Assimacopoulos

- 9:00 – 9:15 **Manoli E., Al Haddad M., Kherraz K., Massarutto A. and Assimacopoulos D.**
Multi-stakeholder participatory processes for sustainable water management: two case studies in the Mediterranean area
- 9:15 – 9:30 **Naddeo V., Ricco D., Zarra T., Belgiorno V., Buffo M., Guida M., Inglese M. and Aquino S.**
WFD implementation in preserved area: an Italian case study
- 9:30 – 9:45 **Koundouri P., Kountouris Y. and Remoundou K.**
Implementing the economic aspects of the water framework directive: a rapid appraisal approach
- 9:45 – 10:00 **Papathanasiou C., Safiolea E., Makropoulos C. and Mimikou M.**
The FLADAR project and its contribution to the implementation of the EU flood directive 2007/60

- 10:00 – 10:15 **Michailidis A., Koutsouris A. and Papadaki-Klavdianou A.**
The adoption of new irrigation practices in the region of West Macedonia
- 10:15 – 10:30 **Yannopoulos S., Basbas S. and Giannopoulou I.**
Water bodies pollution due to stormwater runoff in highways: measures and legislative framework
- 10:30 – 10:45 **Safiolea E, Makropoulos C., Efstratiades A., Oikonomidou E. and Mimikou M.**
Water resources management systems under uncertainty: urban development and climatic scenarios
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Stamou A.I., Douka Eis., Nikiforakis I., Dimitriadis P., Jirka G.H. and Bleninger T.**
Towards an integrated model for the discharge of brine from reverse osmosis desalination plants into coastal waters.
- 11:45 – 12:00 **Mahmoud H.M., Abuelsaad A.S., Sakran Th.F. and Hafez S.M**
Lake Qaroun contamination with heavy metals and its impact on parasitic infection of *mugil cephalus*
- 12:00 – 12:15 **Stamou A.I., Matsoukis K., Douka Eis., Papagrighoriou S. and Bekiaris Y.**
Modeling the fate of sediment plumes during marine dredging operations
- 12:15 – 12:30 **Savvidis Y. G., Patoucheas D.P., Nikolaidis G. and Koutitas C.G.**
Modelling the dispersion of harmful algal bloom in the Thermaikos gulf (north Aegean Sea)
- 12:30 – 12:45 **Karapanagioti H.K., Ogata Y. and Takada H.**
Measuring diffuse marine pollution using plastic pellets
- 12:45 – 13:00 **Discussion**
Lunch break

Session 12

AIR POLLUTION (3) - ENERGY

Friday 4 September 2009 – morning
ROOM "IMPERIAL 3"

Chairs: F.G.A. Vagliasindi, P. Kassomenos

- 9:00 – 9:15 **Gaidajis G. and Angelakoglou K.**
Indoor mass concentrations of particulate matter in university environment
- 9:15 – 9:30 **Glytsos T. and Lazaridis M.**
An application of a microenvironmental model in a detergent industrial workplace
- 9:30 – 9:45 **Diapouli E., Chaloulakou A. and Spyrellis N.**
Indoor/outdoor PM levels and AC surrogate, at typical microenvironments in the Athens area
- 9:45 – 10:00 **Panagopoulos I., Karayannis A. and Kassomenos P.**
A CFD study of the indoor air quality in a kitchen room with various locations of gas cooker and window
- 10:00 – 10:15 **Roccaro P. and Vagliasindi F.G.A.**
Indoor exposure to asbestos-like fibers released from contaminated groundwater
- 10:15 – 10:30 **Doutsi A., Zarkanitis S., Chaloulakou A. and Spyrellis N.**
Carbon Monoxide exposure in the office microenvironment: source strength vs duration of stay

- 10:30 – 10:45 **Halios C.H, Helmis C.G., Deligianni K., Vratolis S. and Eleftheriadis K.**
On the determination of ventilation rates from routine indoor-air measurements: an application for the estimation of particle loss rates
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Abeliotis K., Makrinika K., Detsis V. and Lasaridi K.**
Life cycle assessment of *cynara cardunculus L.* oilseeds production
- 11:45 – 12:00 **Anastopoulos G., Karavalakis G., Mattheou L., Karonis D., Zannikos F., Stournas S. and Lois E.**
Production of biodiesel using heterogeneous KF/ZnO catalyst
- 12:00 – 12:15 **Deligiannis A., Anastopoulos G., Karavalakis G., Mattheou L., Karonis D., Zannikos F., Stournas S. and Lois E.**
Castor (*ricinus communis* L) seed oil as an alternative feedstock for the production of biodiesel
- 12:15 – 12:30 **Stergiopoulos V.G. and Stergiopoulou A.V.**
Towards the Application of the "Productive Destructive Principle" for Recovering the Wasted Energy in the Greek Urban Water Supply Networks
- 12:30 – 12:45 **Dodos G.S. and Zannikos F.**
The implementation of the REACH regulation on the fuel supply chain
- 12:45 – 13:00 **Discussion**
Lunch break

Session 13

SOLID WASTE MANAGEMENT (3) - GLOBAL ENVIRONMENTAL CHANGE - ECOLOGY

Friday 4 September 2009 – morning

ROOM "IMPERIAL 4"

Chairs: E. Gidarakos, K. Lasaridi

- 9:00 – 9:15 **Varga C., Miskolczi N., Bartha L. and Palotas L.**
Modification of the mechanical properties of rubbers by introducing recycled rubber or different types of fillers into the original mixture
- 9:15 – 9:30 **Mavroulidou M, Etan O. and Suntharalingam M.**
Mechanical properties of granulated tyre rubber-sand mixtures
- 9:30 – 9:45 **Meo M., Nairn R., Laguros J. and Zaman M.**
Tar Creek, the use of mining waste in road pavement, and the southern climate impacts planning program
- 9:45 – 10:00 **Baccar R., Sarra M., Blaquez P., Bouzid J., Feki M. and Montiel A.**
Adsorption properties of unmodified and KMnO_4 modified activated carbon derived from chemical activation of Tunisian olive-waste cakes
- 10:00 – 10:15 **Quijorna N., San Miguel G. and Andrés A.**
Application of industrial ecology through the incorporation of waelz slag in brick production: an industrial-scale experiment
- 10:15 – 10:30 **Anastasiadou K. and Gidarakos E.**
Case studies of asbestos polluted areas in Greece
- 10:30 – 10:45 **Economopoulos A.**
Siting of Integrated Waste Management Facilities / A New Methodology with an Application in Crete
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*

- 11:30 – 11:45 **Papaioannou D., Tassopoulos A. and Marinou-Xydi A.**
Alternative climatic change models for sectoral impacts forecasting on society and economy: the case of the real estate industry
- 11:45 – 12:00 **Tsirogianni M.I., Lolis C.J. and Bartzokas A.**
Winter air temperature covariability between the lower troposphere and higher tropospheric layers; the case of the north Atlantic oscillation
- 12:00 – 12:15 **Long D.T., Parsons M.J., Pijanowski B.C., Ray D.K., Yansa C.H., Yohn S.S., McLean C.E. and Vannier R.G.**
Assessing ecosystem response to land-use change using sediment-chemical chronologies and a backcast model: a pilot study
- 12:15 – 12:30 **Karydis M.**
Eutrophication assessment of coastal waters based on indicators: a literature review
- 12:30 – 12:45 **Kaasik M., Ploompoo T., Ots R., Rajandu E., Ohvril H. and Neiman L.**
Airborne impact to the growth of *pinus sylvestris* in bog stands in eastern baltic region
- 12:45 – 13:00 **Discussion**
Lunch break

Session 14
WASTEWATER TREATMENT (4)

Friday 4 September 2009 – afternoon
ROOM "IMPERIAL 1"

Chairs: D. Dermatas, A. Stasinakis

- 17:00 – 17:15 **Klontza E., Koukouraki E. and Diamadopoulos E.**
Determination of nonylphenol polyethoxylates in wastewater samples with SPME/CG-MS
- 17:15 – 17:30 **Calinescu I., Trifan A., Martin D., Ighigeanu D. and Calinescu R.**
Dechlorination of polychlorinated biphenyls (PCBs) by electron beam or microwave treatment
- 17:30 – 17:45 **Chiavola A., Farabegoli G. and Rolle E.**
Combined biological and chemical-physical process for olive mill wastewater treatment
- 17:45 – 18:00 **Stefanakis A.I. and Tsihrintzis V.A.**
Comparison of various substrate media on the performance of vertical flow constructed wetlands
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Diamantis V., Antoniou I., Melidis P. and Aivasidis A.**
Direct membrane filtration of sewage using aerated flat-sheet membranes
- 19:00 – 19:15 **Baban A., Murat-Hocaoglu S., Atasoy E., Gunes K., Ayaz S. and Regelsberger M.**
Grey water treatment and reuse by using RBC - a kinetic approach
- 19:15 – 19:30 **Gikas G. D. and Tsihrintzis V.A.**
A small-size constructed wetland for on-site treatment of household wastewater
- 19:30 – 19:45 **Lasaridi K.E., Chroni C., Fortatos S., Chatzipavlidis I. and Kyriacou A.**
Estimating the bioremediation of green table olive processing wastewater using a selected strain of *aspergillus niger*

- 19:45 – 20:00 **Jiang J.Q. and Wu L.**
Development of calcium silicate hydrate (tobermorite) as crystal material to recovery phosphate from wastewater
- 20:00 – 20:15 **Discussion**

Session 15
WATER TREATMENT (1)

Friday 4 September 2009 – afternoon
ROOM "IMPERIAL 2"

Chairs: N. Vlachos

- 17:00 – 17:15 **Lega M. and Napoli R.M.A.**
Aerial infrared thermography in the surface waters contamination monitoring
- 17:15 – 17:30 **Voice T.C., Flores Del Pino L.V., Havezov I. and Long D.T.**
New method for speciation of arsenic in drinking water
- 17:30 – 17:45 **Samios S., Lytras T., Nikolaou A.D., Golfinopoulos S. and Lekkas T.D.**
Chlorination of humic substances and mechanisms of CBPs formation: a review
- 17:45 – 18:00 **Culea M., Iordache A-M and Cozar O.**
Chlorinated by-products determination in drinking water
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Matsis V.M. and Grigoropoulou H.P.**
Adsorption of n-Butyl mercaptan from aqueous solutions on activated carbon
- 19:00 – 19:15 **Poliakova T., Savchyna L. and Kozyatnyk I.**
Natural organic matters removing in presence of hydrogen peroxide by activated carbon
- 19:15 – 19:30 **Babi K.G., Koumenides K.M., Makri C.A., Nikolaou A.D. and Lekkas T.D.**
Adsorption capacity of GAC pilot filter-adsorber and postfilter-adsorber for individual THMs from drinking water, Athens
- 19:30 – 19:45 **Kukucka M., Habuda-Stanic M. and Siljeg M.**
Groundwater treatment by nanofiltration – pilot study in Kikinda, northern Serbia
- 19:45 – 20:00 **Iannelli R., Bianchi V., Carducci A., Ceccarini A. and Fuoco R.**
Effects of intracellular/dissolved ratios of Microcystin-LR onto its ultrafiltration removal
- 20:00 – 20:15 **Kalajdzic B., Habuda-Stanic M., Santo V., Romic Z. and Kules M.**
Natural organic matter in groundwater of eastern Croatia: problem and solutions
- 20:15 – 20:30 **Discussion**

Session 16
BIOREMEDIATION – ENVIRONMENTAL MANAGEMENT

Friday 4 September 2009 – afternoon
ROOM "IMPERIAL 3"

Chairs: A. Katsiri

- 17:00 – 17:15 **Komilis D.P. and Timotheatou E.**
Bioremediation of a diesel-contaminated soil: effect of compost addition

- 17:15 – 17:30 **Guedes C.L.B., Brito O.R., Pavanelli A.G. and Gazzoni B.F.**
Evaluate the typha latifolia remediation potential in petroleum contaminated soil: monitoring crude oil aromatic fraction and nutrient absorption by plant
- 17:30 – 17:45 **Schroder P., Lyubenova L. and Huber C.**
Uptake of heavy metals and their effects on the plant detoxification cascade in presence or absence of organic pollutants
- 17:45 – 18:00 **Long D.T., Voice T.C., Niagolova N.D., McElmurry S.P. and Dimitrov P.**
Effect of agriculture on uranium concentrations in karst groundwater, Bulgaria
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Koroneos C., Moustakas K. and Loizidou M.**
Sustainability indicators in the construction sector
- 19:00 – 19:15 **Sepetis A. and Kada E.**
Environmental and sustainable accounting as a key indicator for the environment efficiency of hospitals
- 19:15 – 19:30 **Moussiopoulos N., Achillas CH., Vlachokostas CH., Spyridi D., Kalognomou E.-A. and Nikolaou K.**
System of indicators for sustainable development in Thessaloniki: A tool for the management of environmental information
- 19:30 – 19:45 **Panepinto D., Ruffino B., Zanetti M. and Genon G.**
A standardized procedure for a pre-evaluation of the IPPC instance
- 19:45 – 20:00 **Haruvy N. and Shalhevet S.**
Application of life cycle analysis tools to increase the environmental sustainability of agriculture
- 20:00 – 20:15 **Organtzi M., Mallios Z. and Latinopoulos P.**
Double bounded contingent valuation of quality improvement in a coastal environment
- 20:15 – 20:30 **Discussion**

Session 17
SOIL CONTAMINATION & REMEDIATION

Friday 4 September 2009 – afternoon
ROOM "IMPERIAL 4"

Chairs: V. Belgiorno, N. Kalogerakis

- 17:00 – 17:15 **Mavroulidou M., Zhang X., Cabarkapa Z. and Gunn M.J.**
A study of the laboratory measurement of the soil water retention curve
- 17:15 – 17:30 **Stamati F.E., Nikolaidis N.P. and Schnoor J.L.**
Pathways and rates of soil organic matter loss in arable tilled lands of two climate extremes climates
- 17:30 – 17:45 **Zakikhani M., Harrelson D.W., Kissaqne J.A., Allis M.K. and Kolber J.E.**
Restoration and protection of coastal areas by armor stones
- 17:45 – 18:00 **Zupancic M., Lavric S. and Bukovec P.**
The phosphate stabilization of metals in soil contaminated with pyrite ash and the leaching of phosphate after stabilization
- 18:00 – 18:15 **Discussion**
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Vagi M.C., Petsas A.S., Kostopoulou M.N. and Lekkas T.D.**
Adsorption and desorption processes of parathion ethyl on Greek soils

- 19:00 – 19:15 **Russo L. and Belgiorno V.**
Combined chemical and biological treatment of polycyclic aromatic hydrocarbons contaminated soil
- 19:15 – 19:30 **Kastanek P., Kastanek F., Hajek M., Sobek J. and Solcova O.**
Dechlorination of polychlorinated biphenyls (PCB) in contaminated soils and oils by nucleophile reactants at the presence of ionic liquids and under application of microwaves
- 19:30 – 19:45 **Chrysochoou M. and Dermatas D.**
Investigation of Cr(VI) speciation and reduction in chromite ore processing residue (COPR) using micro-XANES, -XRF and -XRD
- 19:45 – 20:00 **Manousaki E. and Kalogerakis N.**
Physiological and antioxidative changes induced by cadmium, lead and salt stress in a triplex halimus l.
- 20:00 – 20:15 **Putthividhya A. and Manajit K.**
Geostatistical and reverse modeling assessment of DNAPL source zone architecture using downgradient mass flux-based estimation
- 20:15 – 20:30 **Discussion**

Session 18

WASTEWATER TREATMENT (5)

*Saturday 5 September 2009 – morning
ROOM "IMPERIAL 1"*

Chairs: D. Dermatas, D. Mamais

- 9:00 – 9:15 **Karageorgos P., Mpasiakos C., Chalarakis E., Dimitrakakis E., Daskalakis C., Psillakis E. and Kalogerakis N.**
Characterization and control of odours at a piggery facility in Rethymno-Crete
- 9:15 – 9:30 **Kyzas G.Z. and Lazaridis N.K.**
Dyes removal from simulated textile effluents by chitosan sorbents
- 9:30 – 9:45 **Luptakova A., Balintova M., Macingova E., Jencarova J. and Prascakova M.**
Remediation of acid mine drainage in the deposit smolnik by physical-chemical and biological-chemical methods
- 9:45 – 10:00 **Lofrano G., Meric S., Inglese M., Nikolaou A.D. and Belgiorno V.**
Degradation and detoxification of tanning agents by fenton oxidation processes
- 10:00 – 10:15 **Vlyssides A., Barampouti E.M., Mai S. and Tsimas E.**
Anaerobic digestion of chemically pretreated wastewater from a cheese making factory
- 10:15 – 10:30 **Lee Y.W., Lee J., Choi Y. and Chung J.**
Reuse of electronic wastewater using combined membrane bioreactor and reverse osmosis
- 10:30 – 10:45 **Sonthiphand P. and Limpiyakorn T.**
Distribution of ammonia-oxidizing bacteria and archaea in full-scale industrial wastewater treatment plants in Thailand
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Melidis P. and Tseles D.**
Nitrogen removal from landfill leachate by addition of biodiesel glycerol waste as external carbon source

- 11:45 – 12:00 **Singh S., Srivastava A. and Patil P.**
Removal of hazardous organic compounds from wastewater by adsorption on activated carbon prepared from various nut shells
- 12:00 – 12:15 **Landi M., Naddeo V. and Belgiorno V.**
Phenol removal by adsorption on granular activated carbon enhanced with ultrasound
- 12:15 – 12:30 **Sarioglu M. and Bisgin T.**
Decolorization of basic red 46 (BR46; azo dye) and methylene blue (cationic dye) dyes by anaerobic sludge: biotic and abiotic processes
- 12:30 – 12:45 **Sakellariou – Markantonaki M.A. and Giouvanis. V.A.**
Reuse of Waste Water for water saving by irrigating energy plants.
- 12:45 – 13:00 **De Rosa S. and Siciliano A.**
A catalyst oxidation process of olive oil mill wastewaters using hydrogen peroxide and copper
- 13:00 – 13:15 **Discussion**
Snacks

Session 19

WATER TREATMENT (2)

Saturday 5 September 2009 – morning

ROOM "IMPERIAL 2"

Chairs: A. Albanis, N. Thomaidis

- 9:00 – 9:15 **Petridis N.P., Sakkas V.A. and Albanis T.A.**
Determination of priority PAHs in water samples based in SPE and GAS chromatography coupled to mass spectrometry
- 9:15 – 9:30 **Andrzejewski P. and Nawrocki L.**
Ferrate and permanganate reactivity with aqueous solutions of dimethylamine (DMA): the influence of nitrite on n-nitrosodimethylamine (NDMA) formation
- 9:30 – 9:45 **Christophoridis C., Fytianos K. and Zouboulis A.**
Parameters affecting the removal of Cr(VI) from water using zero-valent iron
- 9:45 – 10:00 **Iijima S., Yokoi A., Kawano T., Kucha D., Kubota M. and Matsuda H.**
The effect of iron ions on the non-thermal plasma decomposition characteristic of chlorinated organics in water
- 10:00 – 10:15 **Jiang J.Q., He Q., Acheampong B., Balazs T. and Bancroft T.**
Feasibility study on grey water reuse
- 10:15 – 10:30 **Demircivi P. and Nasun-Saygili G.**
Removal of boron from waste waters using HDTMA-modified zeolites
- 10:30 – 10:45 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Eissa F. I., Zidan N. A. and Sakugawa H.**
Remediation of pesticide-contaminated water by advanced oxidation processes
- 11:45 – 12:00 **Smeti E.M., Lytras E.S., Tzoumerkas P.C. and Golfopoulos S.K.**
Multivariate statistical analysis of surface water intended for human consumption
- 12:00 – 12:15 **Sdao-F., Parisi S., Pascale S., Kanta A., Soupios P. and Rust D.**
Vulnerability to pollution evaluation and mapping of Keritis river basin (north-west Crete, Greece)

- 12:15 – 12:30 **Yfantis N., Yfantis D. and Yfantis A.**
Design of a UF-RO combined system for wastewater reuse in Crete – a case study
- 12:30 – 12:45 **Tsoutsis C., Konstantinou I.K., Hela D.G. and Albanis T.A.**
Simultaneous determination of organophosphorus insecticides in various food matrices using solid phase microextraction
- 12:45 – 13:00 **Discussion**
Snacks

Session 20
ENVIRONMENTAL MANAGEMENT (2)

Saturday 5 September 2009 – morning
ROOM “IMPERIAL 3”

Chairs: K. Hadjibiros

- 9:00 – 9:15 **Kalloniatis C., Synodinos D., Kontogianni A. and Skourtos M.**
“The Greek green tax reform” in the transport sector
- 9:15 – 9:30 **Kanakoudis V. and Tsitsifli S.**
Water pricing policies in Greece: results of a nation wide research
- 9:30 – 9:45 **Mallios Z. and Papageorgiou A.**
Spatial hedonic regression models estimation in GIS environment
- 9:45 – 10:00 **Georgiou P., Mavrotas G. and Diakoulaki D.**
Effective integration of environmental policy constraints into the long-term planning of the Greek power system
- 10:00 – 10:15 **Valiantza E.O. and Lekkas T.D.**
Human brain metabolism and motorway design for regional sustainable development
- 10:15 – 10:30 **Brumley J.C.**
Conflicting policy issues in the sustainable management of groundwater resources in Victoria, Australia
- 10:30 – 10:45 **Hadjibiros K. and Laspidou C.S.**
Zero environmental impact objective as a tool for environmental policy: the case-study of an airport built on a wetland
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Politis I., Papaioannou P. and Basbas S.**
Environmental impact assessment during construction of a major urban infrastructure project: the Thessaloniki Metro case
- 11:45 – 12:00 **Hadjibiros K. and Laspidou C.S.**
A criticism of municipal solid waste management and landfill site selection in Greece
- 12:00 – 12:15 **Sargentis G.F., Chatzimpiros A. and Symeonidis N.**
Determination method – minimizing the influence of environmental parameters- of thermal conductivity of building parts in situ through IR imaging
- 12:15 – 12:30 **Mandaraka M. and Theofanidou K.**
Do Environmental Management Systems (EMS) improve organizations environmental performance? A critical issue for EMS adoption and application
- 12:30 – 12:45 **Hadjimitsis D.G., Themistocleous K., Achilleos C., Kallis S., Neofytou P., Neocleous K. and Pilakoutas K.**
Environmental impact and energy consumption of transport pavements in Cyprus

12:45 – 13:00 **Discussion**
Snacks

Session 21
HEALTH AND ENVIRONMENT - METEOROLOGY

Saturday 5 September 2009 – morning
ROOM “IMPERIAL 4”

Chairs: J. Eyles, E. Psillakis

- 9:00 – 9:15 **Eyles J., Wilson K. and Rhodes J.**
Health outcomes and environmental quality in an industrial city
- 9:15 – 9:30 **Kassomenos P.A., Dimitriou K., Karakitsios S.K. and Sarigiannis D.A.**
Indices to characterise human health damage from PM₁₀, ozone in life cycle basis
- 9:30 – 9:45 **Psillakis E., Cheng J., Hoffmann M. R. and Colussi A.J.**
Enrichment factors of perfluoroalkyl anionic surfactants at the air/water interface.
Implications for their global dispersal
- 9:45 – 10:00 **Gerginova M., Shivarova N., Peneva N., Yemendzhiev H. and Alexieva Z.**
Influence of readily assimilated carbon sources on the phenol degradation of
trichosporon cutaneum R57 strain
- 10:00 – 10:15 **Soontornchai S., Panyakapo M. and Paopuree P.**
Lifetime cancer risk assessment from exposure of trihalomethanes in three
swimming pool types
- 10:15 – 10:30 **Sicard P., Mangin A., Hebel P., Lesne O. and Mallea P.**
Detection and estimation trends linked to air quality and mortality on French Riviera
over the 1990-2005 period to develop a prediction model of an Aggregate Risk
Index
- 10:30 – 10:45 **Nouri J. and Omidvari M.**
Investigation of environmental noise pollution effects on traffic policemen
- 10:45 – 11:00 **Discussion**
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Flocas H., Kouroutzoglou J., Keay K. and Hatzaki M.**
Cyclonic tracks over eastern Mediterranean in the present climate
- 11:45 – 12:00 **Deligiorgi D., Philippopoulos K., Tzanakou M. and Karvounis G.**
Study of the influence of synoptic scale flows on sea breeze circulation in the
greater area of Chania, Greece
- 12:00 – 12:15 **Hosseini M.A., J. Arab and Seyed M.T Hashemi**
Assessment and zoning drought characteristics by standardized precipitation index
(SPI) in Lorestan Province (Iran)
- 12:15 – 12:30 **Samadi S., Majid Habibi Nokhandan and Gita Farman**
Analysis of GCM ability to simulate predictor variables over Iran
- 12:30 – 12:45 **Discussion**
Snacks

Session 22
CLOSING SESSION

Saturday 5 September 2009 –afternoon
HALL “IMPERIAL”

Chairs: V. Belgiorno, K. Hadjibiros, T.D. Lekkas

18:00 – 19:30	Discussion
19:00 – 20:00	Chairman’s conclusions
21:00	<i>Official Dinner hosted by the Mayor of Platania</i>

POSTER PRESENTATIONS

Wednesday 3 September 2009

A. AIR POLLUTION SOLID WASTE MANAGEMENT

- | | | |
|-----|--|------------------|
| A1 | Adeofun C.O., Oyedepo J.A. and Salami A.O.
Global system of mobile telecommunication (GSM) base stations as emission source in Nigeria: a GIS-supported investigation | AIR ¹ |
| A2 | Aleksandropoulou V. and Lazaridis M.
Atmospheric emission inventory from natural and anthropogenic sources and spatial emission mapping for the Greater Athens Area (GAA) | AIR |
| A3 | Awad A.N., Ibrahim H.G., Aboabboud M.M. and Okasha A.Y.
Available control technologies for SO _x and NO _x emission from industrial sources: a review | AIR |
| A4 | Barrese E., Scarpelli M., Turbante D., Ammoscato I., Sorrentino D., Trovato R., Curini R. and Gionfriddo F.
Indoor pollution by office printers: a preliminary study | AIR |
| A5 | Callen M.S., de la Cruz M.T., Lopez J.M., Navarro M.V. and Mastral A.M.
Gas/particle partitioning of polycyclic aromatic hydrocarbons (PAH) in Zaragoza (Spain) aerosols | AIR |
| A6 | Carach V., Janoskova K., Müller G., Bugel M. and Bakalar T.
Evaporative losses of VOC in road traffic | AIR |
| A7 | Carach V., Janoskova K., Muller G., Kozakova L. and Bakalar T.
N ₂ O traffic emissions | AIR |
| A8 | Chalvatzaki E. and Lazaridis M.
Assessment of emissions of air pollutants from the Akrotiri landfill site (Chania, Greece) | AIR |
| A9 | Chrysikou L.P. and Samara C.
Redox activity and organic chemical composition of size segregated PM in Thessaloniki, Northern Greece. | AIR |
| A10 | Dima N., Psichoudaki M. and Papaefthymiou H.
Temporal variation in mass concentration of PM _{2.5} in Patras, Greece | AIR |
| A11 | Estokova A., Stevulova N. and Kubincova L.
Indoor particulate matter investigation | AIR |
| A12 | Evagelopoulos V., Triantafyllou A.G., Albanis T.A., Zoras S., Garas S., Asvesta A. and Diamantopoulos C.
Polycyclic aromatic hydrocarbons (PAHs) in fine and coarse particles | AIR |
| A13 | Huang B., Yang Y. and Ye D.
Synthesis and characterization of a carbon nanotube-supported photocatalyst for toluene removal | AIR |
| A14 | Ighigeanu D., Calinescu I., Martin D., Matei C., Bulearca A. and Ighigeanu A.
Hybrid installations with electron accelerators and microwave sources for SO ₂ , NO _x and VOC _S removal | AIR |

¹ AIR: Air pollution

A16	Kalabokas P.D., Adamopoulos A.D. and Viras L.G. Analysis of PM ₁₀ atmospheric concentration measurements in the Mediterranean urban areas of Athens and Thessaloniki, Greece	AIR
A17	Kassomenos P., Kelessis A., Petrakakis M., Zoumakis N. and Christidis Th. Characterising the quality of the atmosphere over an urban complex	AIR
A18	Larissi I.K, Nastos P.T., Grigoropoulos K.N., Antoniou A. and Paliatsos A.G. Indoor and outdoor particulate matter variability in Athens, Greece	AIR
A19	Luo C.H, Yang S. and Huang Y.C. Removal efficiency of bioaerosols by combining negative air ions with electret filters	AIR
A20	Martin D., Grigoriu C., Nicolae I., Ighigeanu D., Sima C. and Matei C. A hybrid installation for submicrometer-size particles collection by combined DC corona discharge, short pulsed corona discharge and soft X-ray irradiation	AIR
A21	Patrikis N., Lazaridis M. and Katsivela E. Antibiotic-resistant airborne microbial concentrations and indoor / outdoor particulate matter levels	AIR
A22	Pegas P.N., Evtyugina M.G., Alves C.A., Nunes T., Cerqueira M., Franchi M., Pio C.A., Almeida S.M. and Freitas M.C. Outdoor/indoor air quality in primary schools in Lisbon: a preliminary study	AIR
A23	Pourtaghi G, Rezaee A., Khavanin A., Pourtaghi F. and Mamoooy S. Decomposition of gaseous toluene by photocatalytic property of TiO ₂ nanoparticles coated on activated carbon	AIR
A24	Raisi L., Lazaridis M. and Katsivela E. Airborne microbial and particulate matter concentrations in the ambient air	AIR
A25	Sawidis T., Tsikritzis L. and Tsigaridas K. Cesium-137 monitoring using mosses from W. Macedonia, N. Greece	AIR
A26	Sigalos G., Loukaidi V., Dasaklis S., Mavrakis A. and Alexouli-Leivaditi A. Assessment of the quantity of material transferred by a torrent at Thriassion Plain, Greece	AIR
A27	Slezakova K, Pereira M.C. and Alvim-Ferraz M.C. Carcinogenic elements in indoor PM ₁₀ and PM _{2.5} : Influence of tobacco smoke	AIR
A28	Theoharatos G., Mavrakis A., Lykoudis S., Christides A. and Verouti E. Variation of meteorological and air quality parameters over the Thriassion Plain during the partial solar eclipse of March 29th, 2006	AIR
A29	Theoharatos G., Pantavou K., Spanou A., Katavoutas G., Makrygiannis G. and Mavrakis A. Discomfort index levels during the heat waves of June and July 2007 in Greece	AIR
A30	Turbante D., Scarpelli M., Sorrentino D., Ammoscato I., Curini R. and Gionfriddo F. Emission at low doses, case in study: formaldehyde's indoor air pollution	AIR
A31	Vilcekova S. and Senitkova I. Indoor air quality in Slovakia	AIR
A32	Antoniou S. and Pashalidis I. The effect of natural organic matter on the solid phase stability and solubility of Th(OH) ₄	SWM ²

² SWM: Solid Waste Management

A33	Arapoglou D., Vlyssides A., Varzakas Th., Haidemenaki K., Malli V., Marchant R. and Israilides C. Alternative ways for potato industries waste utilisation	SWM
A34	Bacikova M. and Stevulova N. Possibilities of coal fly ash utilization in the highway engineering	SWM
A35	Behrooz R., Younesi Kordkheili H. and Jalilvand M. Using wastes of OCC paper recycling mills	SWM
A36	Junak J., Stevulova N. and Sicakova A. Cement replacement by modified coal fly ash in concrete	SWM
A37	Khiari B., Abed I., Jeguirim M. and Zagrouba F. Thermal conversion of date stones and palm stalks: experimental and kinetic study	SWM
A38	Kontogianni S., Karagiannidis A. and Moussiopoulos N. Investigation of the household hazardous waste stream in a hellenic municipality in view of contemporary challenges for its integrated management – Preliminary results	SWM
A39	Kuncser R., Paraschiv M., Tazerout M. and Bellettre J. Technologies for energetically valorisation of the products obtained by plastics pyrolysis	SWM
A40	Macki Aleagha M. and Samadyar H. Impact of metal interaction on earthworms' bioaccumulation in the process of vermicomposting	SWM
A41	Mahar R.B., Yuan Z.Y. and Memon N.A. Life cycle assessment of two-stage bioreactor landfill and conventional landfill	SWM
A42	Mavridou S. and Oikonomou N. Utilization of textile fibres from worn automobile tires in cement based mortars	SWM
A43	Naddeo V., Cesaro A., Amodio V. and Belgiorno V. Anaerobic co-digestion of municipal solid waste with ultrasound pre-treatment	SWM
A44	Paraschiv M., Kuncser R. and Tazerout M. Qualitative and quantitative analysis of plastic waste pyrolysis products	SWM
A45	Sikalidis C., Mitrakas M. and Tsitouridou R. Immobilization of electric arc furnace dust toxic elements within the matrix of concrete based products	SWM
A46	Stevulova N. and Filkova I. Coal fly ash as a raw material for low-energy belite cement preparing	SWM
A47	Tatarinov V.N., Morozov V. N., Kolesnikov I.Y. and Tatarinova T.A. Tectonic processes modeling and development with time in the areas of HLRW disposal	SWM
A48	Tsagas F., Petalas A., Markidis I., Tsakmakis I., Grigoropoulos N. and Dermatas D. Baling-wrapping technology and MSW management: insights from a pilot case study in Alexandroupolis, Greece	SWM

B. METEOROLOGY
GLOBAL ENVIRONMENTAL CHANGE
WATER TREATMENT
HEALTH & ENVIRONMENT
WASTEWATER MANAGEMENT
BIOREMEDIATION

B1	Behbahani M.R., Sadat Noori S.M. and Nazarifar M.H. Prediction of crop production using the standardised precipitation index (SPI) and climate factors to manage drought risk: case study Hamedan, Iran	MET ³
B2	Katavoutas G., Theoharatos G., Flocas H.A., Jakovides C.P. and Asimakopoulos D.N. A human climatic classification in western Greece	MET
B3	Morais G., Yamasaki Y. and Orgaz M.de M. Analysis and modeling of fog event in the coastal zone of northern Portugal	MET
B4	Dragota C.S., Grigorescu I., Dumitrascu M. and Dumitrascu C. Regionalization of the main climatic hazard phenomena in the South-West Development Region, Romania	GEC ⁴
B5	Melidoni M. and Zervas E. Indicators for climate changes	GEC
B6	Rodrigo-Naharro J. and Clemente-Jul C. Evaluation of oxyfuel technology as CO ₂ capture option in coal combustion	GEC
B7	Bairamidis S., Paraskevas P.A. and Koubarou D. Determination of the optimum coagulant dose (aluminum sulphate) in the water treatment plant of Athens in Galatsi	WTR ⁵
B8	Gatidou G. and Lekkas T.D. Analytical method for the Simultaneous determination of phenylurea herbicides linuron and monolinuron and organophosphorus insecticide phoxim in surface water by liquid chromatography - mass spectrometry	WTR
B9	Gekos M.A., Michopoulos P. and Bakeas E.B. Determination of chloro- and bromo- acetic acids in rain by gas chromatography	WTR
B10	Kosma C.I., Lambropoulou D.A. and Albania T.A. Photodegradation study of the proton pump inhibitor Omeprazole in natural waters by simulated solar irradiation	WTR
B11	Negrea A., Lupa L., Ciopec M. and Lazau R. The use of sludge with iron content as adsorbent material for arsenic removal from water	
B12	Rigas N., Dovriki E., Rigas I., Goula I.M., Kantas D., Plageras P. and Papaioannou A. Multivariate analysis of seven years drinking water quality data from Thessaly region – central Greece	WTR

³ MET: Meteorology

⁴ GEC: Global Environmental Change

⁵ WTR: Water Treatment

B13	Tsiouma V., Petsas A., Gavril A., Smeti E., Koumpourou D., Nikolaou A., Lekkas T.D. and Golfinopoulos S. The occurrence of disinfection by-products in drinking water in Europe	WTR
B14	Kiliari T. and Pashalidis I. Radon measurements in Cypriot groundwaters	HEALTH ⁶
B15	Tsiaili N. and Pashalidis I. Seasonal variation of total Alpha and U-238/234 radioactivity concentration of groundwaters in Cyprus	HEALTH
B16	Valentini M. Impact of the wireless network on the indoor electromagnetic pollution	HEALTH
B17	Abdel Kader A.M. Studying the effects of organic and hydraulic shock loads on the membrane bioreactor (MBR) by using GPS-X mathematical model	WWM ⁷
B18	Apaydin O., Kurt U. and Gonullu M.T. Treatment of pretreated domestic wastewater by fenton process in a sea outfall	WWM
B19	Boni M.R., Scaffoni S. and Tuccinardi L. Hydrogen and methane production from organic waste: influence of environmental conditions at lab-scale	WWM
B20	De Rosa S. and Siciliano A. Formulation of a new model describing the organic matter removal in biofilter reactors	WWM
B21	Demetriou A. and Pashalidis I. Adsorption of hexavalent chromium on magnesite	WWM
B22	Fedorova T.M., Petrova E.G., Derkacheva V.M., Lukyanets E.A. and Kaliya O.L. Heterogeneous photooxidation of phenol and chlorophenols with dioxygen	WWM
B23	Fukuta T., Soya K., Kuchar D., Matsuda H. and Yagishita K. Decomposition of chemically stable metal cyanide complex by advanced wet oxidation	WWM
B24	Gheju M., Cocheci L., Pode R. and Balcu I. Kinetic studies concerning Cr(VI) removal from wastewater by reduction with scrap iron and sorption on Mg-Al – type hydrotalcite	WWM
B25	Hernandez J.J., Aranda G., San Miguel G. and Bula A. Gasification of grapevine prune waste using an entrained flow reactor: characterisation of gas products and considerations about conditioning	WWM
B26	Ibrahim H.G., Okasha A.Y. and Elatrash M.S. Using cement kiln dust for treatment tannery wastewater effluents	WWM
B27	Jiang J.Q. and Mwabonje O.N. Liquid-liquid extraction process for phosphorus recovery	WWM
B28	Kocabas Z.O. and Yurum Y. Binding mechanisms of arsenic on activated carbon, red mud and granular titanium dioxide: a potential method for arsenic removal from water/wastewater	WWM
B29	Kos L., Michalska K., Zylla R. and Perkowski J. Influence of low-molecular compounds on decomposition of impurities in wastewater treated with fenton method	WWM

⁶ HEALTH: Health & Environment

⁷ WWM: Wastewater Management

B30	Koutinas A.A., Kopsahelis N., Papapostolou H., Dimitrellou D., Katechaki E., Kallis M., Sideris K. and Bekatorou A. Scale-up of dried kefir production from liquid dairy waste, whey, for use as starter in cheese manufacturing	WWM
B31	Kuchar D., Fukuta T, Kubota M. and Matsuda H. Comparison of oxidation agents of H ₂ O ₂ and Na ₂ S ₂ O ₈ in the combined sulfidation and oxidation process for recovery of Cu, Zn, Ni and Cr from plating sludges	WWM
B32	Maalim M.K., Mgana S.M., Kassenga G.R. and Mohammed S.M. Role of effective microorganisms on the reduction of Coliform in the upflow anaerobic sludge blanket reactor treating domestic wastewater under tropical conditions	WWM
B33	Manariotis I.G., Karapanagioti H.K. and Chrysikopoulos C.V. High frequency ultrasonic treatment for phenanthrene degradation in aqueous solutions	WWM
B34	Mohammadi Torkashvand A., Hashemabadi D., Sedaghat Hoor S.H. and Kaviani B. Investigation of the increase in municipal wastes compost quality by carbonic amendments	WWM
B35	Nesseris G.K. and Stasinakis A.S. Use of activated sludge – powdered activated carbon (AS-PAC) systems for the co-treatment of municipal and olive mill wastewater	WWM
B36	Oliveira F.D., Soares A.C., Freitas O.M. and Figueiredo S.A. Copper, nickel and zinc removal by peanut hulls: batch and column studies in mono and tri-component systems	WWM
B37	Potivichayanon S. and Chuersuwan N. Greywater management and reuse for plant irrigation: a case study of Ban Lalommoa village in Thailand	WWM
B38	Sadeghi M., Mardani.G, Nikpay A. and Ahankoob M. Aerobic biodegradation of per-treated methyl tert-butyl ether by ozonation in an up-flow-fixed-bed reactor	WWM
B39	Surma E. and Bien J. The physical-chemical and microbiological evaluation of the sludge-dusts mixtures	WWM
B40	Tziana A. and Katsivela E. Simulation of the operation process of an aeration tank by heterotrophic biomass with recirculation of activated sludge in a wastewater treatment plant	WWM
B41	Wang B., Han H.J., Liu S., Ma W.C. and Wang W. Experimental study on simultaneous nitrification and denitrification in municipal wastewater	WWM
B42	Arbabi M., Anyakora Ch. and Sadeghi M. Petroleum hydrocarbon contaminated soils bioremediation	BIOREM ⁸
B43	Lorestani B., Khorasani N., Nouri J. and Yousefi N. Phytoremediation potential of heavy metals in soil and uptake by plants	BIOREM
B44	Pietrosanti L., Pietrini F., Zacchini M., Matteucci G., Massacci A., Nardella A. and Capotorti G. Phytoremediation of a metal contaminated industrial soil of Porto Marghera by a short rotation forestry stand	BIOREM
B45	Satchanska G., Topalova Y., Dimkov R. and Golovinsky E. Xenobiotics-tolerant bacteria entrapped in polyethylene oxide cryogels and its ability for phenol biodegradation	BIOREM

⁸ BIOREM: Bioremediation

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|-----|---|--------|
| B46 | Schroder P, Bartha B, Harpaintner R. and Huber C.
Metabolism of acetaminophen (paracetamol) in plants – two independent pathways for detoxification | BIOREM |
| B47 | Shirdam R., Daryabeigi Zand A., Nabibidhendi G.R. and Mehrdadi N.
Rhizoremediation of total petroleum hydrocarbons (TPHs) under the effect of plant species in Iran | BIOREM |
| B48 | Smolinska B and Cedzynska K.
Effect of citric acid on mercury phytoextraction by <i>Lepidium Sativum</i> | BIOREM |

Saturday 4 September 2009

**C. SOIL CONTAMINATION AND REMEDIATION
ECOLOGY
ENVIRONMENTAL MANAGEMENT
WATER RESOURCES MANAGEMENT**

- | | | |
|-----|---|-------------------|
| C1 | Anicai L., Ana C., Dumitrache R. and Staniloaie D.
Some aspects regarding oil polluted soils decontamination involving in-situ bioremediation and electrokinetic remediation procedures | SOIL ⁹ |
| C2 | Centeri C., Vona V., Evelpidou N., Vassilopoulos A. and Daniilidis A.
Soil loss threats different climatic conditions of similar urban areas (Athens – Budapest) | SOIL |
| C3 | Estokova A., Luptakova A., Harbulakova V., Stevulova N. and Janak G.
Biodeterioration of composite based on coal fly ash | SOIL |
| C4 | Feiznia S., Kouhpeima A., Ahmadi H. and Hashemi S.A.A.
Combating erosion as the main effective factor in land degradation in arid and semi-arid regions of Iran | SOIL |
| C5 | Galonja-Coghill T., Kostadinovic L.J., Bojat N. and Hojka Z.
Agro-ecosystems under high voltage powerlines | SOIL |
| C6 | Islam M.A., Sakkas V. and Albanis T.
Sorption - desorption of an azo dye on different Greek soils | SOIL |
| C7 | Junakova N., Balintova M. and Vodicka R.
Nutrient concentration in eroded sediments detached through water erosion | SOIL |
| C8 | Luptakova A., Prascakova M. and Labas M.
Destruction of concrete by sulphuretum | SOIL |
| C9 | Palasantza P-A. and Samara C.
Adsorption-desorption of polycyclic aromatic hydrocarbons on different Greek soils | SOIL |
| C10 | Papafilippaki A. and Stavroulakis G.
Assessment of lead and cadmium contamination in roadside soils and plants from Chania city (Greece) | SOIL |
| C11 | Rahbari P. and Afsharasi M.
Nitrate contamination management in soil profile using LEACHN model | SOIL |
| C12 | Sigalos G., Loukaidi V., Dasaklis S., Alexouli-Leivaditi A. and Mavrakis A.
Assessment of erocivity of geological formations and transferred materials production of the drainage of Thriassion Plain, Greece | SOIL |

⁹ SOIL: Soil contamination and remediation

C13	Singh B., Kaur R. and Singh K. Degradation of organophosphate pesticide, Malathion, by bacillus SPP isolated from soil	SOIL
C14	Zakikhani K. and Feiznia S. Land degradation due to diapirs in Iran, case study: Hableh-Rood Drainage Basin, East of Tehran	SOIL
C15	Zakikhani K., Feiznia S. and Hoseini S.H. Land degradation of Taleghan Drainage Basin, Iran from saline and alkaline marl formations	SOIL
C16	Christides A., Mavrakis A., Sigalos G., Loukaidi V., Dasaklis S., Mitilineou A., Mourikis D. and Makrygiannis G. Assessing saltwater front parameters of the aquifer of the Thriassion Plain, Greece	ECO ¹⁰
C17	Geacu S. and Dumitrascu M Biogeographical importance of protected natural tableland areas in Romania	ECO
C18	Kokkinakis A.K. and Andreopoulou Z.S. Fishery production models as decisive parameter for sustainable management of Kerkini lake (Greece)	ECO
C19	Purice D-M. The ecological involvement of the structure of ground beetle populations (<i>Coleoptera: Carabidae</i>) from natural habitats in the renaturation process of technogenic ponds from Zlatna (C. Romania)	ECO
C20	Salvati L., Zitti M., Ceccarelli T. and Perini L. Estimating changes in sensitivity to land degradation over time (1990-2000) in Italy	ECO
C21	Zuo P., Zhao S.H., Liu C.A., Wang C.H., Teng H.F., Zou X.Q. and Chen H. Biodiversity conservation and landscape changes during 1970-2007 in the core area of Yancheng Biosphere Reserve, Jiangsu Province, China	ECO
C22	Angyal A., Simon B., Miskolczi N., Bartha L. and Kohan J. Life cycle analysis of municipal plastic wastes cracking	ENV-M ¹¹
C23	Attia S.G. Zero energy retrofit - case study for a chalet, Ain-Sukhna, Egypt	ENV-M
C24	Basbas S. and Mintsis S. Urban environment and transport demand management measures: the case of Katerini, Greece	ENV-M
C25	Gatsis I. and Koukoulas S. Human induced land cover/use changes in Lesvos island (E. Greece), during the 1984-2007 period	ENV-M
C26	Grigorescu I. Present day environmental problems in Bucharest Metropolitan Area	ENV-M
C27	Nejadi A. and Jafari H.R. Environmental impact assesment of highways on landscape degradation. Case study: Tehran - Pardis Higway, Iran	ENV-M
C28	Papapanagou E., Tiniakou A. and Georgiadis Th. Students knowledge and attitudes regarding a coastal protected area in Greece	ENV-M
C29	Shayanfar M. and Moradabadi E. Economical effects of staged screening approach in siting of hazardous waste disposal facilities	ENV-M

¹⁰ ECO: Ecology

¹¹ ENV-M: Environmental Management

C30	Kalligeros S., Chatziathanasiou A., Christou M., Grammelis P., Zannikos F., Anastopoulos G. and Zannikou Y. Standardization of solid biofuels	ENERGY
C31	Kolokotsa D. and Maria E. The energy performance buildings' directive 2002/91/EC and the Greek transposition	ENERGY
C32	Koutsoumaraki V. and Nikolaou K. Planning of renewable energy sources siting in Prefecture of Kilkis	ENERGY
C33	Makrigiannis G. and Mavrakis A. Development strategies, policies and problems of renewable energy sources in Greece	ENERGY
C34	Papapostolou Chr., Kondili Em. and Kaldellis J.K. Environmental and energy considerations of biofuels supply chain through Life Cycle Analysis	ENERGY
C35	Tehrani S.M., Karbassi A.R., Ghoddosi J., Monavvari S.M. and Mirbagheri S.A. Prediction of energy consumption and urban air pollution reduction due to the traditional shopping with e-shopping substitution	ENERGY
C36	Fadda S., Fais S., Fiori M., Ligas P. and Matzuzzi C. Geological-geophysical approach to study ground water movement between two open-pit pools in a computer-aided recovery project of abandoned mine excavations in Sardinia, Italy	WRM ¹²
C37	Fadda S., Fiori M. and Matzuzzi C. Metallic contaminants in areas of mining drainage: the sediments of the lake Flumendosa, Sardinia, Italy	WRM
C38	Farmaki E.G., Thomaidis N.S. and Efstathiou C.E. Comparative use of artificial neural networks for the discrimination of the water reservoirs of Athens according to their elemental content	WRM
C39	Gaitanis C.K., Douka E., Tsoukala V.K., Stamou A.I. and Moutzouris C.I. Dissolved oxygen transmission in harbor basins through flushing culverts	WRM
C40	Ghazavi R. and Vali A.B. Investigating the impact of flood spreading project on infiltration rate and soil properties	WRM
C41	Katsabanis G., Kyriacou A., Abeliotis K. and Lasaridi K. Pollution monitoring of the surface waters of Messinia, Greece	WRM
C42	Nastos P.T., Evelpidou N. and Vassilopoulos A. The role of climate variability and human activities in the dune field evolution in Naxos Island, Greece	WRM
C43	Sousa M.C., Vaz N. and Dias J.M. Water temperature distribution induced by tides and meteorological conditions along an estuarine tidal channel	WRM
C44	Stamoulis K.C. and Ioannides K.G. Residence time of vadose water above the Perama Cave	WRM
C45	Vale L.M. and Dias J.M. Numerical modelling of the Lima estuary hydrodynamics	WRM
C46	Zaker N.H., Ghaffari P., Jamshidi S. and Nooranian M. Physical oceanography of the strait of Khuran in the Persian Gulf	WRM

¹² WRM: Water Resources Management

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