



PROGRAMME OF THE CONFERENCE

UNDER THE AUSPICES OF THE

MINISTRY OF THE ENVIRONMENT, PHYSICAL PLANNING & PUBLIC WORKS



Kos Island, Greece

Organised by



The GLOBAL NETWORK FOR ENVIRONMENTAL SCIENCE AND TECHNOLOGY (Global Nest)

The DEPARTMENT OF ENVIRONMENTAL STUDIES, of the UNIVERSITY OF THE AEGEAN

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10th INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY (CEST2007)

The tenth 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 and 9th CEST have been included in ISI, Chemical Abstracts and SRCosmos international scientific data banks.

A new feature considered to become a part of the series of conferences is the organisation of parallel workshops.

Venue

The Conference will take place in the Kos island, Greece, at *Kos International Convention Centre* (*KICC*), between 5-7 September 2007.

Conference topics

- Water Resources Management
- Water Treatment
- Water Analysis
- Marine Pollution
- Urban Wastewater
- Industrial Wastewater
- Advanced Oxidation Methods
- Sludge Treatment
- Solid Waste Management
- Soil Contamination and Remediation
- Air Pollution
- Indoor Pollution
- Air Treatment
- Meteorology
- Global Environmental Change
- Ecology
- Environmental 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 €
Students	175€

Payment of the fees can be made by:

- cheque, payble 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

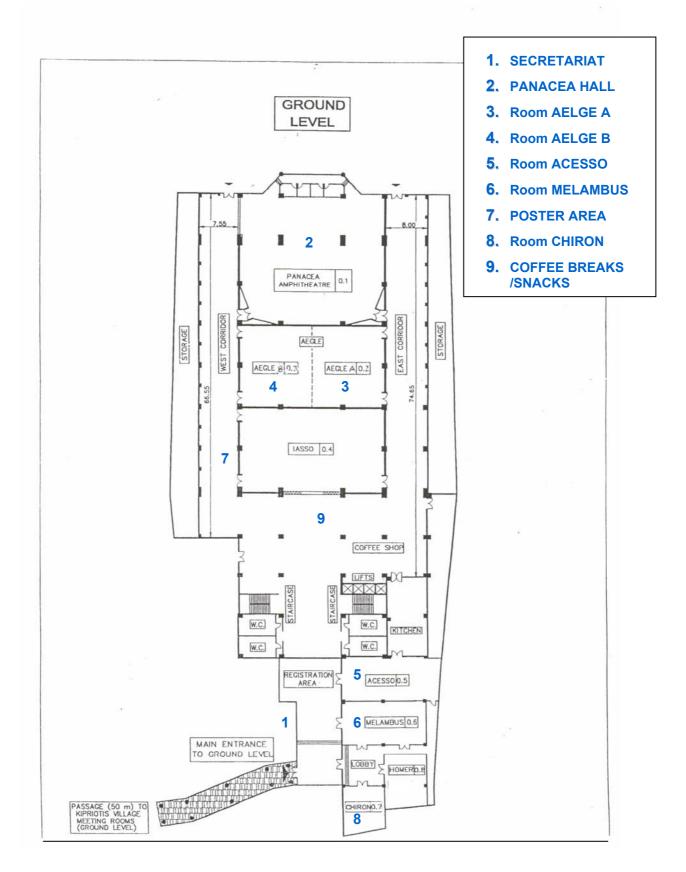
The Conference fees do not include provisions for the insurance of participants or their accompanying guests against personal injuries, sickness, theft or property damage. Participants are advised to arrange for insurance if they consider necessary. Neither the Conference Organising Committee, nor Scientific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

CONFERENCE SECRETARIAT

University of the Aegean 10th International Conference on Environmental Science and Technology (CEST2007) 30, Voulgaroktonou str., GR 114 72 Athens, Greece Tel.: +30-210-6492450 Fax: +30-210-6492499 E-mail: <u>cest2007@gnest.org</u> Web site: <u>http://www.gnest.org/cest</u>

MAP OF CONFERENCE VENUE

Kos International Convention Center (KICC) Psalidi, Kos island, Dodecanese, Greece



TIMETABLE OF THE CONFERENCE

ORAL PRESENTATIONS

				RC	OOM	
			AEGLE A	AEGLE B	AKESO	MELAMBUS
4Y 2007	MORNING	09:00–11:00	SESSION 1 OPENING Hall PANACEA			
WEDNESDAY SEPTEMBER 20	MORI	11:30 – 13:30	SESSION 2 WATER RESOURCES MANAGEMENT (1)	SESSION 3 ADVANCED OXIDATION PROCESSES (1)	SESSION 4 SOLID WASTE MANAGEMENT (1)	SESSION 5 AIR TREATMENT
2	AFTERNOON	17:30 – 20:30	SESSION 6 WATER RESOURCES MANAGEMENT (2)	SESSION 7 ADVANCED OXIDATION PROCESSES (2)	SESSION 8 SOLID WASTE MANAGEMENT (2)	SESSION 9 INDOOR – AIR POLLUTION (1)
THURSDAY SEPTEMBER 2007	MORNING	9:00 - 13:30	SESSION 10 WATER TREATMENT	<i>SESSION 11</i> INDUSTRIAL WASTEWATERS (1)	SESSION 12 SOIL CONTAMINATION & REMEDIATION	SESSION 13 AIR POLLUTION (2)
THURSDAY 6 SEPTEMBER 2	AFTERNOON	17:30 – 20:30	SESSION 14 WATER ANALYSIS	<i>SESSION 15</i> INDUSTRIAL WASTEWATERS (2) – SLUDGE TREATMENT (1)	SESSION 16 HEALTH & THE ENVIRONMENT	SESSION 17 ECOLOGY
AY 8ER 2007	MORNING	9:00 - 13:30	SESSION 18 URBAN WASTE WATER – SLUDGE TREATMENT (2)	<i>SESSION 19</i> ENVIRONMENTAL SUSTAINABILITY	SESSION 20 ENERGY - GLOBAL ENV. CHANGE - GROUNDWATER	SESSION 21 MARINE POLLUTION - METEOROLOGY
FRIDAY 7 SEPTEMBER	AFTERNOON	18:00 – 20:00				

POSTER PRESENTATIONS – POSTER AREA

wednesday 5 September 2007	AFTERNOON	17:30 – 20:30	POSTER SESSION A WATER TREATMENT METHODS WATER RESOURCES MANAGEMENT WATER QUALITY WATER ANALYTICAL METHODS GROUND WATER
Thursday 6 September 2007	MORNING	9:00 – 13:30	POSTER SESSION B URBAN WASTE WATER INDUSTRIAL WASTE WATER ADVANCED OXIDATION PROCESSES SOIL CONTAMINATION & REMEDIATION SLUDGE TREATMENT
Thursday 6 So	AFTERNOON	17:30 – 20:30	POSTER SESSION C AIR POLLUTION - AIR TREATMENT SOLID WASTE MANAGEMENT ENERGY
Friday 7 September 2007	MORNING	9:00 – 13:30	POSTER SESSION D ENVIRONMENTAL SUSTAINABILITY METEOROLOGY MARINE POLLUTION ECOLOGY

PARALLEL EVENTS / WORKSHOPS – ROOM "CHIRON"

Wednesday 5 September 2007	AFTERNOON	17:30 – 20:30	WORKSHOP I CONTROL OF DISINFECTION BY PRODUCTS IN DRINKING WATER AND WASTE WATER FOR REUSE
Thursday otember 2007	MORNING	9:00 - 13:30	WORKSHOP II WATER RESOURCES MANAGEMENT: WATER FRAMEWORK DIRECTIVE 2000/60/EC. APPLICATION AND PUBLIC PARTICIPATION IN ANTHEMOUNTAS RIVER BASIN IN GREECE
Thursday 6 September	AFTERNOON	17:30 – 20:30	YOUNG RESEARCHERS SESSION
Friday 7 September 2007	MORNING	9:00 - 13:30	WORKSHOP III E-LEARNING: EMERGING FORMS OF ENVIRONMENTAL EDUCATION DELIVERY WITHIN A EUROPEAN KNOWLEDGE-BASED SOCIETY

ORAL PRESENTATIONS

Session 1 – OPENING		
Wednesday 5 September 2007 morning		
HALL "PANACEA	³³	
9:30 – 10:00	Andreadakis A. (chairman of the Conference) – Opening of the Conference - Introductory notes	
10:00 - 1	Biswas Asit K. (invited speaker) Third World Centre for Water Management	
11:00 – 11:30	Coffee break	
Session 2 WATER RESOUR	CES MANAGEMENT (1)	
Wednesday 5 Sep ROOM "AEGLE	otember 2007 – morning \"	
11:30 – 11:45	A.L. Courbis, B. Vayassade, C. Martin and J.F. Didon-Lescot Simulation as a decision support for evaluating effects of anthropogenic activities on water resources	
11:45 – 12:00	S. Xenarios and K. Bithas The double dividend of Water Framework Directive (2000/60/EC) in urban wastewater systems: the case of WWTP Psytallia	
12:00 – 12:15	I. Koutiva, C. Makropoulos and N. Voulvoulis Administrative challenges in implementing the Water Framework Directive in Greece: stakeholder engagement	
12:15 – 12:30	M.O. Tomprou, C. Makropoulos, N. Voulvoulis, E. Gavalakis and A. Andreadakis Water Framework Directive: significant pressures and preliminary risk assessment	
12:30 – 12:45	J. Liu, A.J.B. Zehnder and H. Yang Drops for crops: modelling crop water productivity on a global scale	
12:45 – 13:00	V. Ampas and E. Baltas The optimum application of furrow irrigation by altering the flow rate of irrigation	
Lunch break		
Session 3 ADVANCED OXI	DATION PROCESSES (1)	
	ptember 2007 – morning	
11:30 – 11:45	X. Domenech, N. Ruiz, J.A. Ayllón and J. Peral Environmental assessment of some photocatalytic advanced oxidation processes	
11:45 – 12:00	M.A. Behnajady, N. Modirshahla, M. Shokri and B. Rad Enhancement of photocatalytic activity of TiO_2 by silver doping: photodeposition versus liquid impregnation methods	
12:00 – 12:15	I.G. Karali, A.D. Nikolaou, T.D. Lekkas and I. A. Rousias Advanced oxidation processes (AOPs) with use of UV/CIO ₂ in aqueous solutions of reactive azo dyes and in their effluents	
12:15 – 12:30	M. Nisha Priya and K. Palanivelu Electrochemical oxidation of reactive dye green HE4BD using solar energy	
12:30 – 12:45	N. Laoufi, D.Tassalit and F. Bentahar The degradation of phenol in water solution by TiO_2 photocatalysis in a helical reactor	
12:45 – 13:00	S. Yu and M. Lee Radiolytic decomposition of cephalosporins	

Lunch break

Session 4 SOLID WASTE MANAGEMENT (1)

Wednesday 5 September 2007 – morning ROOM " AKESO"

11:30 – 11:45	A.P. Economopoulos Strategic decision making for integrated solid wastes management
11:45 – 12:00	K.E. Lasaridi, K. Abeliotis and A. Rovolis Spatial analysis of waste management indicators in Greek Municipalities
12:00 – 12:15	K. Kitis and D.C. Panagiotakopoulos The development of a systems model for sustainable source separation schemes of municipal solid waste
12:15 – 12:30	T. Kouseras, A. Karteris and E. Voudrias Production and management of solid industrial hazardous waste in the Prefecture of Thessaloniki
12:30 – 12:45	K. Hadjibiros and D. Dermatas Irrationality versus efficiency in municipal solid waste management schemes
12:45 – 13:00	K. Kholmatov, D. Khashimova and W. Wu Geophysical site investigation of landfills in seismically active region of Tashkent, Uzbekistan
13:00 – 13:15 Lunch break	E. Gidarakos, K. Anastasiadou Asbestos management in Greece. Case Studies
Session 5 AIR TREATMEN	г

Wednesday 5 September 2007 – morning ROOM "MELAMBUS"

11:30 – 11:45	W.W. Zhao, L.Q. Hao, M.Q. Huang, X.Y. Liu, B. Long and W.J. Zhang Real-time analysis of aqueous aerosols using aerosol time-of-flight mass spectrometry
11:45 – 12:00	F. Yazdanbakhsh, A. Soltani and H. Hashemipour Investigating effects of gas flow rate and carbon dioxide composition in chemical absorption of carbon dioxide in a packed bed using sodium hydroxide
12:00 – 12:15	T. Zarra, V. Naddeo and V. Belgiorno Portable gas chromatographty-mass spectrometry as a tool for estimating the odour emissions of composting plants in air pollution management
12:15 – 12:30	P. Karageorgos, C. Kotsifaki and N. Kalogerakis Use of oxidants for odour control in municipal wastewater treatment plants
12:30 – 12:45	R. Jiang, S. B. Huang, A.T. Chow and L.R. Fan A new approach for treating nitrogen oxides containing off-gas streams in an aerobic biofilter system
12:45 – 13:00	G. Palantzas, C. Koutitas, K. Dimitriou, E. Vafaki and A. Naniopoulos Integrated dust management in commercial city-ports. A case study

Lunch break

Session 6

WATER RESOURCES MANAGEMENT (2)

Wednesday 5 September 2007 – afternoon ROOM " AEGLE A"

17:30 – 17:45A. Somen Joksic and R. Milacic
Reliable and cost-effective technique for rapid evaluation of dredged areas in coastal lagoons
in the Northern Adriatic

17:45 – 18:00	 H. Takamanis, N. Demertzidis, G.D. Gikas, A. Gemitzi, I. Boskidis, V.A. Tsihrintzis, C. Petalas and K. Ouzounis Quality of irrigation return water and proposals for its reuse in Chryssoupolis plain, Kavala, Greece
18:00 – 18:15	H. Weingartner Water supply by qanats. A contribution to water shortage in Meditterranean areas?
18:15 – 18:30	P. Karka, E. Manoli, D.F. Lekkas and D. Assimacopoulos A case study on integrated urban water modelling using Aquacycle
18:30 – 19:00	Coffee break
19:00 – 19:15	G.Z. Chalvatzi, E. Manoli and D. Assimacopoulos Designing water pricing in the context of WFD implementation: a case study in the river basin of Anthemountas, Greece
19:15 – 19:30	S. Ma, S.C. Kassinos, D. Fatta and E. Akylas Modeling the impact of bottom water withdrawal on the dynamics of pesticides in the Kouris Dam (Cyprus)
19:30 – 19:45	C. Ioja, G. Pavelescu, M. Matache, M. Stanciulescu and J. Vasilescu Water quality changes in the Arges Lower Basin under the influence of the human activities
19:45 – 20:00	C. Sarbu Characterization and classification of Romanian and German mineral waters by fuzzy clustering
20:00 – 20:15	M.O. Angelidis, M. Aloupi, A.M. Gavriil, M. Koulousaris and D. Stefanou Arsenic distribution in thermal springs and ground water in the drainage basins of the River Sperchios and the island of Lesvos
20:15 – 20:30	A. Stamou, E. Douka, A. Loukatos, M.Tsouma and K. Papapavlou Formulation, callibration and verification of a mathematical model for Pinios River, Greece
Session 7	

ADVANCED OXIDATION PROCESSES (2)

Wednesday 5 September 2007 – afternoon ROOM "AEGLE B"

17:30 – 17:45	F. Ciner Color and COD removal from dye containing wastewater by fenton process and coagulation- flocculation
17:45 – 18:00	E. Bizani, K. Fytianos and I. Poulios Photocatalytic oxidation of molinate in aqueous solutions
18:00 – 18:15	E. Evgenidou, E. Bizani, C. Christophorides and K. Fytianos Heterogeneous photocatalytic treatment of a carbamate, an organophosphorous and a triazine pesticide in aqueous solutions
18:15 – 18:30	E.M. Siedlecka, and P. Stepnowski Application of fenton and fenton-like process for the oxidation of MTBE and its by-products in saline waters
18:30 – 19:00	Coffee break
19:00 – 19:15	M. Czerwicka, W. Mrozik, A. Muller, M. Gołębiowski, J. Kumirska, E. Malinski and P. Stepnowski Study on degradation products of imidazolium ionic liquids in H ₂ O ₂ /UV oxidation system
19:15 – 19:30	I. Stypas, S. Mpousios, E. Chatzisymeon, N.P. Xekoukoulotakis and D. Mantzavinos Heterogeneous and homogeneous photocatalytic treatment of wastewaters from black table olives processing
19:30 – 19:45	A.V. Petalas, E. Elia, A.S. Stasinakis and C.P. Halvadakis Use of a low-cost agricultural by-product for the adsorption of total phenols contained in olive-mill wastewater

19:45 – 20:00	G. Tziotzios, G. Lyberatos, S. Pavlou and D.V. Vayenas Modelling of biological phenol removal in draw-fill reactors using suspended and attached growth olive pulp bacteria	
20:00 – 20:15	M. Nikolopoulou and N. Kalogerakis Design of a phytoremediation strategy for olive mill wastewater treatment	
20:15 – 20:30	F. Ferreira, L. Carvalho, R. Pereira, S.C. Antunes, S.M. Marques, F. Goncalves, A.C. Duarte, T.A.P. Rocha-Santos and A.C. Freitas Biological and photo-fenton treatment of olive oil mill wastewater	
Session 8 SOLID WASTE MA	ANAGEMENT (2)	
Wednesday 5 Sep ROOM "AKESO"	otember 2007 – afternoon	
17:30 – 17:45	X. Zhao, T.C. Voice, R. Musleh and S. Hashsham Use of air injection to address temperature limitations in bioreactor landfill cells under cold-climate locations	
17:45 – 18:00	A. Daryabeigi Zand, M.A. Abduli, N. Mehrdadi and A. Baghvand A review on current situation of used household batteries and appropriate management policies in Iran	
18:00 – 18:15	N. Mihara, K. Soya, D. Kuchar, T. Fukuta, H. Matsuda and T. Iwashita Utilization of calcium sulfide derived from waste gypsum for metal recovery from metal- containing wastewater	
18:15 – 18:30	B. Kiernan, W. Guo, C. Slater and D. Diamond Autonomous monitoring of landfill gas migration at borehole wells on landfill sites using wireless technology	
18:30 – 19:00	Coffee break	
19:00 – 19:15	D. Kuchar, H. Nakada, N. Mihara, S. Osada and H. Matsuda Kinetic study of lead volatization from simulated molten slag in presence of reducing agent of CO/CO ₂ gas or graphite	
19:15 – 19:30	A. López-Delgado, C. Pérez, H. Tayibi, N. Carmona, M. Garcia-Heras, M.A. Villegas, F.A. López and F.J. Alguacil Valorization of a hazardous waste from secondary aluminium metallurgy as calcium aluminate glasses	
19:30 – 19:45	N. Moussiopoulos, A. Papadopoulos, E. lakovou, H. Achillas, D. Aidonis, D. Anastaselos and G. Banias Construction and demolition waste mamagement: state of the art trends	
19:45 – 20:00	J. Figueiredo and M. Mavroulidou Reducing tyre waste by using discarded tyre rubber as concrete aggregate	
20:00 - 20:15	R.B. Mahar, D. Yue, J. Liu, Y. Zhang and Y. Nie Biological pretreatment of municipal solid waste prior to landfilling	
20:15 – 20:30	R-L. Hahtala, S. Huuntanen, S. Kajaste, S. Kemppainen, O. Linsio and MM. Partti WastePrevKit: Tools for Waste Prevention in companies and public administration	
Session 9 INDOOR – AIR POLLUTION		
Wednesday 5 Sep ROOM "MELAMB	otember 2007 – afternoon SUS"	
17:30 – 17:45	F. Roubani-Kalantzopoulou, T. Agelakopoulou, I. Bassiotis, S. Margariti, V. Siokos andE. Metaxa	

Influence of nitrogen dioxide and acetylene on marbles, ceramics and pigment

17:45 – 18:00 V.D. Assimakopoulos, D. Saraga, C.G. Helmis, O.I. Stathopoulou and C.H. Halios An experimental study of the indoor air quality in areas of different use

18:00 – 18:15 **C.H. Halios and C.G. Helmis**

Experimental and theoretical study of the main mechanisms that control indoor air quality in an office microenvironment

- 18:15 18:30 **D. Saraga, Th. Maggos, J. Michopoulos, C.G. Helmis, J.G. Bartzis and Ch. Vasilakos** PM₁, PM_{2.5} ionic composition and VOCs concentration in residential environment in Athens, Greece
- 18:30 19:00 Coffee break
- 19:00 19:15W.A.J. Appelman and H.A.C. Denier van der Gon
Lead emisions from unleaded road transport fuel combustion as a missing source?
- 19:15 19:30
 P. Polymeneas, E. Giannopoulou and C. Pilinis
 On the importance of biogenic emissions in air pollution in the greater Athens area: the episode of Jun 22 & 25, 2003
- 19:30 19:45K. Papagiannaki, G. Leontarakis and D. Diakoulaki
Decomposition analysis of CO2 emissions from road transport in EU15
- 19:45 20:00
 M. Kanakidou, N. Mihalopoulos, N. Kalivitis, K. Tsigaridis, G. Kouvarakis,
 E. Koulouri, E. Gerasopoulos, M. Vrekoussis and S. Myriokefalitakis
 Natural contributions to particulate mater levels over Europe the experience from Greece

Session 10 WATER TREATMENT

Thursday 6 September 2007 – morning ROOM "AEGLE A"		
9:00 – 9:15	L. Semerjian, J. Dennis and G. Ayoub Occurrence, formation and speciation of trihalomethanes in drinking waters of Lebanon	
9:15 – 9:30	L. Rizzo, G. Ricciardi, S. Borrelli and V. Belgiorno THMs formation in coagulated/chlorinated surface water: a comparison between conventional and natural organic coagulants	
9:30 – 9:45	P. Roccaro, F.G.A. Vagliasindi and G.V. Korshin Formation of chlorinated and brominated DBPs in chlorinated surface water from Ancipa Reservoir (Sicily)	
9:45 – 10:00	P. Andrzejewski and N. Kulik The hazard of N-nitrosamines formation during short chain secondary amines (DMA, MEA ans DEA) reactions with catalyzed and non-catalyzed hydrogen peroxide	
10:00 – 10:15	N.P. Xekoukoulotakis, D. Mantzavinos and N. Kalogerakis Use of advanced oxidation processes for the inactivation of E. coli bacteria water suspensions	
10:15 – 10:30	A.I. Zouboulis and P.A. Moussas Optimisation and evaluation of the coagulation behaviour of the modified inorganic polymeric coagulant, Polyferric Silicate sulphate (PFSiS)	
10:30 – 10:45	 A.D. Andreadakis, D. Mamais, I. Vassilakos, G. Nikitopoulos, E.A. Gavalakis, C. Noutsopoulos, A.Tzimas, N. Kalogerakis and M. Charalabaki Removal of taste and odour from potable water by Powdered Activated Carbon (PAC) 	
10:45 – 11:00	K.G. Babi, K.M. Koumenides, A.D. Nikolaou, G. Vassilantonopoulou, F.K. Tzoumerkas, C.A. Makri and T.D. Lekkas GAC filter - a multi purpose filter for drinking water treatment	
11:00 – 11:30	Coffee break	
11:30 – 11:45	V.M. Matsis and H.P. Grigoropoulou Interaction of activated carbon and dissolved oxygen	
11:45 – 12:00	A.E. Pagana, S.D. Sklari, E.S. Kikkinides and V.T. Zaspalis Development and application of nanoporous ceramic membranes in filtration processes	

12:00 – 12:15	Y.M. Lee, E.H. Choi and D.S. Rhee Enhanced ozonation of humic acid in O ₃ /GAC hybrid process
12:15 – 12:30	I.A. Vasiliadou and D.V. Vayenas Hydrogenotrophic denitrification of drinking water: the effect of the operating mode using packed-bed reactors
12:30 – 12:45	C. Christophoridis, K. Fytianos and A. Zouboulis Comparable evaluation of alternative substrates for permeable reactive barriers
12:45 – 13:00	K. Mackenzie, A. Schierz, A. Georgi and FD. Kopinke Colloidal activated carbon and carbo-iron – Novel materials for in-situ groundwater treatment
13:00 – 13:15	H.K. Karapanagioti, A. Tsitsas, G. Stamatakis and M.G. Stamatakis Removal of ammonia from saltwater using lightweight aggregates (LWA) produced with Si-Al-Fe and Si-Ca-rich rocks rocks from Greece
13:15 – 13:30	H.K. Karapanagioti, K. loakeimidou, K. Kamaras and N. Roumelis Impacts of salinity on PAH sorption onto different sorbents: kinetic studies, compound size, salinity gradient
Lunch break	
Session 11 INDUSTRIAL WAS	STEWATERS (1)
Thursday 6 Septe ROOM "AEGLE E	mber 2007 – morning 3"
9:00 – 9:15	G. Mezohegyi, C. Bengoa, F. Stuber, J. Font, A. Fortuny and A. Fabregat Innovative reactor design for anaerobic decolorization of azo dyes
9:15 – 9:30	N. Kythreotou, M. Monou and D. Fatta The impact of piggery slurry addition on mesophilic anaerobic digestion acclimatised to brewery wastewater
9:30 – 9:45	J.P. Li, X.M. Zhan, M.G. Healy, D. Norton and M. Rodgers Nutrient removal from slaughterhouse wastewater in an intermittently aerated sequencing batch biofilm reactor
9:45 – 10:00	N. Kythreotou, C. Voscos and D. Fatta The quality of animal wastes originating from intensive pig farming in Cyprus
10:00 – 10:15	P. Christou, E. Tsiotsis and S. Tsonis Soluble COD removal in high rate anaerobic treatment of sewage
10:15 – 10:30	A. Belém, A.V. Panteleitchouk, A.C. Duarte, T.A.P. Rocha-Santos and A.C. Freitas Treatment of the effluent from a Kraft Bleach Plant with white-rot fungi: <i>Pleurotus sajor caju</i> and <i>Pleurotus ostreatus</i>
10:30 – 10:45	X.J. Lu, J.H. Chen and D.L. Xi Reclamation of printing and dyeing wastewater for process use by a pilot-scale A/O/BAF/Sub-filter technology
10:45 – 11:00	X. Huang Degradation of hydrophobic aromatic compounds with lignin peroxidase in reversed micelles
11:00 – 11:30	Coffee break
11:30 – 11:45	J. Vukadinovic-Lazic Flocculation effectiveness on the quality of waste waters of the Novi Sad Oil Refinery
11:45 – 12:00	B. Burghoff, J. Schiferli, L. Van Der Ham and A. de Haan Treatment of aqueous streams by removal of MTBE with solvent impregnated resins
12:00 – 12:15	M.S. Chauhan and A.K. Dikshit Decolourisation of distillery wastewater in India: current status and future trends

12:15 – 12:30 **F.J. Alguacil, M. Alonso, A. Lopez-Delgado and F.A. Lopez** Removal of chromium (VI) using solid-supported liquid membranes

12:30 – 12:45	P.T.M. Ghazvini and S. Ghorbanzadeh Mashkani Phytoremediation of aqueous solutions polluted by Cr(VI) and Pb(II) by <i>Azolla</i> : a new bioseparation process for wastewater treatment
12:45 – 13:00	R.A. Abdel Rahman, R.A. Abou-Shanab and H. Moawad Mercury detoxification using genetic engineered <i>Nicotiana tabaccum</i>
13:00 – 13:15	A. Kungolos, P. Samaras, V. Tsiridis, M. Petala and G. Sakellaropoulos Toxicity and bioavailability of heavy metals (in single and combined metal solutions) in the presence of humic acids
13:15 – 13:30	M.A. Lopez-Anton, P. Abad-Valle, M. Diaz-Somoano and M. R. Martinez-Tarazona Evaluation of the variables that influence mercury capture in solid sorbents
13:30 - 13:45	F. Germirli Babuna, S. Camur, I. Arslan Alaton, O. Okay and G. Iskender The application of ozonation for the detoxification and biodegradability improvement of a textile auxiliary: naphtalene sulphonic acid
Lunch break Session 12	
	ATION & REMEDIATION
Thursday 6 Septe ROOM "AKESO"	mber 2007 – morning
9:00 – 9:15	S.P. Varnavas, D. Boufounos and D. Fafoutis An investigation of the potential application of bauxite residue for the improvement of environmental conditions in a marsh environment
9:15 – 9:30	T. Radu, A. Radu, C. McGraw and D. Diamond Ion-selective electrodes as simple and inexpensive detectors for soil analysis
9:30 – 9:45	M. Bastounopoulou, D. Gasparatos and C. Haidouti Degree of phosphorus saturation in Greek sandy cultivated soils
9:45 – 10:00	A. Papadopoulos, C. Prochaska, F. Papadopoulos, N. Gantidis and E. Metaxa Levels of heavy metals in topsoils of Servia Municipality, Western Macedonia, Greece
10:00 – 10:15	P. Crennan Dryland salinity
10:15 – 10:30	T. Karachaliou, D. Damigos and D. Kaliampakos Risk assessment in heavily contaminated lands
10:30 – 10:45	K. Anastasiadou, E. Gidarakos, E. Koumantakis and N. Stappas Exploitation of an inactive asbestos mine as a disposal site for asbestos waste
10:45 – 11:00	D.W. Harrelson and M. Zakikhani Environmental assessment of a site in Hawaii
11:00 – 11:30	Coffee break
11:30 – 11:45	V.P. Gadepalle, S.K. Ouki and T. Hutchings Sustainable remediation of arsenic contaminated soils using amended compost
11:45 – 12:00	D. Dermatas and M. Chrysochoou A critical review of Pb-contaminated firing range soil remediation by phosphate addition: treatment performance and environmental sustainability
12:00 – 12:15	P. Kastanek and F. Kastanek Microwave-enhanced thermal desortpion of soil contaminated with polyhalogenated biphenyls
12:15 – 12:30	L.P. Tan, T.T. Lim and H. Jie Mass screening of tropical plants to study their potential as heavy metal phytoremediatots
12:30 – 12:45	N.Z. AI-Mutairi and M.S. AI-Mutairi Monitoring bioremediation in oil contaminated soils using toxicity analysis
12:45 – 13:00	A.R. Procópio, I.S. Melo, L.C. Luchini and W.L. Araujo Mineralization of the herbicide 14C-Propanil in soil by <i>Pseudomonas putida</i> AF7

13:00 – 13:15	G.A. Icopini, D.T. Long, R.J. Ellis and T.L. Marsh Intrinsic remediation of a chromium contaminated wetland by biogeochemical stabiblization
13:15 – 13:30	K. Tyrovola and N.P. Nikolaidis Adsorption and release of arsenic from soils in geothermal fields - Stabilization with zero valent iron
13:30 – 13:45	D. Dermatas, D.G. Grubb and M. Chrysochoou Comparison of the TCLP and sequential extraction test for evaluating lead leachability in firing range soils
Lunch break	
Session 13 AIR POLLUTION	(2)
Thursday 6 Sept ROOM "MELAM	rember 2007 – morning BUS"
9:00 – 9:15	L.G. Hao, Z.Y. Wang, M.Q. Huang, W.W. Zhao, H.Y. Zheng, L. Fang and W.J. Zhang Real-time measurement of chemical composition of secondary organic aerosols using aerosol time of flight mass spectrometer
9:15 – 9:30	A. Vlahogianni and P. Kassomenos Validation procedures to check one-day ahead prediction of max CO concentration in an urban environment
9:30 – 9:45	E. Tzirakis, G. Karavalakis, L. Mattheou, G. Anastopoulos, F. Zannikos, D. Karonis and S. Stournas Exhaust emissions evaluation of used frying oil methyl ester blends in a diesel vehicle operated on a non-legislative driving cycle
9:45 – 10:00	S. Kalligeros, G. Anastopoulos, G. Karavalakis, E. Lois, F. Zannikos, S. Stournas and D. Karonis Exhaust emissions of a diesel engine using aviation fuel blends with biodiesel
10:00 – 10:15	A.G. Triantafyllou, S. Zoras, V. Evagelopoulos, S. Garas and C. Diamantopoulos DOAS measurements above an urban street canyon in a medium sized city
10:15 – 10:30	N. Moussiopoulos, F. Barmpas and I. Ossanlis Numerical study for the potential abatement of air pollution with the use of photocatalytic facade covering materials in London
10:30 – 10:45	E. Terzi, P. Gemenetzis, M. Petrakakis and C. Samara Size distribution of ionic components in the urban atmosphere
10:45 – 11:00	K.I. Hoi, K.V. Yuen and K.M. Mok Applying kalman filter to forecast short-term air quality in Macau
11:00 – 11:30	Coffee break
11:30 – 11:45	A. Katsaounis Electrochemical promotion of catalysis (EPOC): Perspectives for application to gas emissions treatment
11:45 – 12:00	E. Koulouri, G. Grivas, E. Gerasopoulos, A. Chaloulakou, N. Mihalopoulos and N. Spyrellis A study of size-segregated particle (PM ₁ , PM _{2.5} , PM ₁₀) concentrations over Greece
12:00 – 12:15	A. Zamba and K. Hadjibiros Estimating the ecological footprint of vehicles in the city of Athens
12:15 – 12:30	EA. Kalognomou and N. Moussiopoulos Integrated assessment of air pollution in Thessaloniki
12:30 – 12:45	H. Altug, O. Ozden and T. Dogeroglu Evaluation of NOx pollution in Eskisehir urban area (Turkey)

12:45 – 13:00	O. Ozden, H. Altug and T. Dogeroglu Evaluation of SO ₂ pollution in Eskisehir (Turkey) by using monitoring and emission inventory studies
13:00 – 13:15	N. Potoceanu, A.M. Comsa, N. Gillich, G.R. Gillich and S. lanici Some aspects concerning the evaluation of the pollution degree and the risk elements into section for warm processes
Lunch break	
Session 14 WATER ANALYS	IS
Thursday 6 Septe ROOM "AEGLE	ember 2007 – afternoon A"
17:30 – 17:45	S.P. Mcelmurry, T.C. Voice and D.T. Long Simultaneous quantification of dissolved organic matter fractions and copper complexes using solid phase extraction
17:45 – 18:00	C.V. Antoniou, E.E. Koukouraki and E. Diamadopoulos Analysis of pharmaceutical compounds and endocrine disruptors in wastewater by means of SPME-GC
18:00 – 18:15	C.I. Kosma, D.A. Lambropoulou and T.A. Albanis Determination of pharmaceutical compounds in water samples by solid-phase extraction (SPE) and gas chromatography-mass spectometry
18:15 – 18:30	M. Mecozzi, F. Moscato, M. Pietroletti, F. Quarto, F. Oteri and A.M. Cicero Application of FTIR spectroscopy in environmental studies supported by two dimensional correlation analysis
18:30 – 19:00	Coffee break
19:00 – 19:15	A.S. Petsas, M.C. Vagi, M.N. Kostopoulou, M.D. Pavlaki, N.M. Smaragdaki and T.D. Lekkas Acute toxicity and persistence of fenthion and dimethoate in the marine environment
19:15 – 19:30	C.S. Tsoutsi, I.K. Konstantinou and D.G. Hela Development and validation of a quantitative method for determination of organophosphorus insecticides in milk by headspace solid phase microextraction combined with gas chromatography-flame photometric detection
19:30 – 19:45	E. Yiantzi and E. Psillakis Determination of bisphenol A, nonyl- and octyl-phenol in water samples using a free microdrop preconcentration method
19:45 – 20:00	H.A. Zamani Determination of chromium(III) in wastewater samples using potentiometric membrane sensor
20:00 – 20:15	T. Saitoh and M.Hiraide Thermo-responsive polymer-mediated extraction for water treatment and analysis
Session 15 INDUSTRIAL WA	STEWATERS (2) – SLUDGE TREATMENT (1)
Thursday 6 Septe ROOM "AEGLE	ember 2007 – afternoon B"
17:30 – 17:45	E. Manousaki, J. Kadukova and N. Kalogerakis Excretion of metals by the leaves of plants: a new approach to the phytoremediation of sites contaminated with heavy metals
17:45 – 18:00	F. Mohellebi and R. Yous Biosorption of binary mixture of cadmium (II) and nickel (II) ions by a bacterial non living streptomyces rimosus biomass

18:00 – 18:15H. Hildebrand, K. Mackenzie and F.-D. Kopinke
Novel nano-catalysts for wastewater treatment

18:15 – 18:30	A.G. Vlyssides, E.M.P. Barampouti and S.T. Mai Size distribution of anaerobic granular sludge
18:30 – 19:00	Coffee break
19:00 – 19:15	K. Cedzynska Comparison of the leachability of heavy metals from sewage sludge, its ashes and their solidified product
19:15 – 19:30	E.N. Papavasilopoulos, G. Tavoularis and E. Baltas Beneficial reuse of sludge in Greece
19:30 – 19:45	G. Tavoularis and E. Baltas Hazard assessement of biological sludge produced in Psitalia-Attica WWTP
Session 16 HEALTH AND TH	E ENVIRONMENT
Thursday 6 Septe ROOM "AKESO"	ember 2007 – afternoon
17:30 – 17:45	M.M. Politis, C. Pilinis and T.D. Lekkas Ultrafine Particles (UFP) and Health Effects. Dangerous. Like no other PM? Review and Analysis
17:45 – 18:00	E. Rossi, J. Aorvari, B. Backman, R. Makela-Kurtto, K. Loukola-Ruskeeniemi, T. Ruskeeniemi and K. Vaajasaari Regional health risk assessment of natural and anhtropogenic arsenic; case study in Pirkanmaa, Finland
18:00 – 18:15	D.T. Long and T.C. Voice Studying the etiology of endemic diseases through exposure analysis: the Balkan endemic nephropathy example
18:15 – 18:30	P.T. Nastos, A.G. Paliatsos and K.N. Priftis Cross spectrum analysis between childhood astham admissions and ambient air pollutants, at Athens, Greece
18:30 – 19:00	Coffee break
19:00 – 19:15	L. Guo, J.O. Lewis and J.P. McLaughlin Impact on the indoor air quality of using fireplace as accessorial heating source in Irish residences
19:15 – 19:30	O. Cavoura, A. Katsiri, N. Katsiris and D. Dalbokova An environmental health information system - assessment of the situation in Greece
19:30 – 19:45	C. Tourkolias, D. Diakoulaki, S. Mirasgentis and G. Mavrotas Public health effects from energy use in the industrial sector
19:45 – 20:00	O.I. Kalantzi and P.A. Siskos Polybrominated diphenyl ethers in humans - sources and exposure
Session 17 ECOLOGY	
Thursday 6 Septe ROOM "MELAMB	ember 2007 – afternoon US"
17:30 – 17:45	B. Down, D. Press and M. Los Huertos Agricultural nonpoint source pollution policy: the case of California's Central Coast
17:45 – 18:00	L. Chapel, S. Martin and G. Deffuant

Lake eutrophication: using resilience evaluation to compute sustainable policies 18:00 – 18:15 **T. Yabuki**

Analysis of the energy efficiency of photosynthesis in terms of entropy

18:15 – 18:30 **P. Panayotidis, K. Tsiamis and M. Salomidi** Ecological quality of coastal waters: a case study in Saronikos Gulf (Attica, Greece)

18:30 – 19:00	Coffee break
19:00 – 19:15	G. Gkafas, V. Podiadis, K. Tsigenopoulos, B. Reid, E. Karpouzli, G. Verriopoulos, Z. Mamuris, A. Magoulas and A. Exadactylos Genetic polymorphism and population structure of the striped dolphin, <i>Stenella coeruleoalba</i> , and the common dolphin, <i>Delphinus delphis</i> , within the ACCOBAMS area
19:15 – 19:30	E.G. Papazoglou Effects of toxic cadmium application on sugar beet
19:30 – 19:45	A. Hatzopoulou, J. Stefanou and S. Gerasimou A system approach of the protection of traditional settlements: natural and cultural environment
19:45 – 20:00	M.R.A. Campos Are there bigger fish to fry in the Philippines?
20:00 – 20:15	E. Sturchio, P. Boccia, M. Zanellato, R. Mancinelli, E. Campiglia and A. Cavalieri Evaluation of genotoxic effect of lavender (<i>Lavandula spp.</i>) essential oil
20:15 – 20:30	M. Zupancic, M. Zupancic Justin, T. Griessler Bulc, D. Vrhovsek, P. Bukovec and V.S. Selih Presentation of the project "Sustainable rehabilitation of the landfill site-LIMNOTOP" and results of three years monitoring period
Session 18 URBAN WASTEW	ATER – SLUDGE TREATMENT (2)
Friday 7 Septemb	er 2007 – morning \"
9:00 – 9:15	D. Petruzzelli, G. Boghetich, M. Petrella, A. Petrella, E. Ranieri and V. Petruzzelli Carbon and nitrogen removal at a large wastewater treatment plant
9:15 – 9:30	L-M. Yuan, D-I. Xi, Y.Q. Zhang, C-Y. Zhang, Y. Ding and Y-L. Ga Biological nutrient removal using an alternating of anoxic and anaerobic membrane bioreactor (AAAM) process
9:30 – 9:45	M. Kornaros, C. Marazioti and G. Lyberatos Optimization of biological nitrogen removal in a CSTR-cascade system
9:45 – 10:00	J. Fillos, K. Ramalingam, R. Jezek, A. Deur and K. Beckann Specific denitrification rates with alternative external sources of organic carbon
10:00 – 10:15	M.A. Massoud, J.A. Nasr and A. Tarhini Feasibility of decentralized wastewater management in rural areas: the case of Lebanon
10:15 – 10:30	D. Fidaros, C. Baxevanou, A. Zagoritis, PE. Mpiska and N. Vlachos Numerical simulation of flow and transport phenomena in an urban wastewater chlorination tank
10:30 – 10:45	S. Yannopoulos, S. Basbas and I. Giannopoulou Stormwater runoff and the environment in the interurban road network: policy trends and perspectives
10:45 – 11:00	W.J. Gong, F. Li and D.L. Xi Destruction of acrylic acid production wastewater by supercritical water oxidation in transpiring wall reactor
11:00 – 11:30	Coffee break
11:30 – 11:45	A.S. Stasinakis, G. Gatidou, N.S. Thomaidis, D. Mamais and T.D. Lekkas An integrated approach for the investigation of occurrence, fate and toxicity of endocrine disrupting chemicals in wastewater treatment systems
11:45 – 12:00	M. Charalabaki, E. Psillakis and N. Kalogerakis Toxicity assessment of common chemicals found in the untreated influent of the WWTP at the Industrial Zone of Heraklion-Crete
12:00 – 12:15	D. Mamais, E. Kalaitzi and A. Andreadakis Foaming control in activated sludge treatment plants by polyaluminium chloride addition

12:15 – 12:30	V.I. Diamantis, A. Aivasidis and E. Pavlidou Effect of organic loading rate on anaerobic granular sludge characteristics
12:30 – 12:45	E. Athanasoulia, P. Melidis and A. Aivasidis Characterization of enhanced anaerobic degradation of digested sludge mixtures after thermo - chemical and enzymatic treatment
12:45 – 13:00	J.M. Sanchez, J.M. Murillo, J. Otero, F. Plaza and G. Garralon Thermal valorisation of dried sewage sludge through gasification
13:00 – 13:15	Y. Qi, K.B. Thapa and A.F.A. Hoadley Investigation of the role of lignite in sewage sludge dewatering process
13:15 – 13:30	I. Chitzi, P. Melidis, C. Akratos, J.N.E. Papaspyros and V.A. Tsihrintzis Study of activated sludge dewatering in pilot-scale reed-planted SDB's
Snacks	
Session 19 ENVIRONMENTA	L SUSTAINABILITY
Friday 7 Septemb ROOM "AEGLE	er 2007 – morning 3"
9:00 – 9:15	J. Eyles, K. Wilson and J. Messina Physical and social dimensions of environmental concern in Hamilton, Ontario
9:15 – 9:30	A. Angelis A methodological framework for the uncovering and control of private environmental profit
9:30 – 9:45	F. Sun, J. Chen, Q. Tong and S. Zeng Application of a model-based HACCP system to disinfection by-products control in a conventional waterworks
9:45 – 10:00	C. Koroneos, A. Dompros and M. Loizidou Life Cycle Assessment of an office building in Greece
10:00 – 10:15	N. Moussiopoulos, H. Achillas and C. Koroneos Promoting alternative end of life management of electrical and electronic equipment
10:15 – 10:30	Y.A. Phillis, V. Kouloumpis and V.S. Kouikoglou SAFE: A method for assessing sustainability and its application to sustainable decision-making
10:30 – 10:45	G.F. Sargentis, K. Bartsioka, N. Symeonidis and K. Hadjibiros Evaluation method regarding the effect of building design in the context of sustainable development
10:45 – 11:00	E.A. Polychronaki, A.C. Douma, Th. Dantsis, C. Giourga and A. Loumou Energy analysis as an indicator of agricultural sustainability: the case of Western Macedonia and Epirus, Greece
11:00 – 11:30	Coffee break
11:30 – 11:45	M. Bakali and P. Chatzimpiros The influence of property in the city's sustainable development
11:45 – 12:00	P.D. Panagiotakopoulos and P.W. Jowitt Sustainability concepts and tools: a cybernetic approach
12:00 – 12:15	Z. Mallios, A. Papageorgiou, D. Latinopoulos and P. Latinopoulos Spatial hedonic pricing models for the valuation of irrigation water
12:15 – 12:30	M. Meo, R. Nairn, J. Laguros and M.D. Zaman Innovation and application of environmental technologies: strategies, progress and prospects in Oklahoma
12:30 – 12:45	B. Cheeseman, M. Mavroulidou, G.G. Maidment, M. Smith and N. Pottern Developing an in-situ post-construction quality control methodology to ensure better efficiency of buildings

12:45 – 13:00	S. Wanphen, K. Nagano and M. Nakamura Study on moderation of roof surface temperature by application of porous materials
13:00 – 13:15 Snacks	J. Giannatsis and V. Dedoussis Environmental conscious manufacturing: the case of additive-rapid fabrication technologies
Session 20 ENERGY - GLOBA	AL ENV. CHANGE - GROUNDWATER
Friday 7 Septemb ROOM "AKESO"	per 2007 – morning
9:00 – 9:15	A. Kallionaki, K. Kormas and N. Kalogerakis Anaerobic oxidation of methane in mud volcanoes in Eastern Mediterranean Sea
9:15 – 9:30	D. Marinakis, N. Varotsis and M. Lazaridis Effect of gas hydrate stability on climatic change. The case of "Anaximander" mud volcanoes
9:30 – 9:45	E. Kyritsis, G. Papadakis, D. Petouni and S. Kyritsis Building renewable and hybrid energy supply scenarios for Morocco, Tunisia, Jordan and Lebanon
9:45 – 10:00	T.E. Lilas, N.V. Nikitakos, A.A. Vatistas, A.G. Maglara, K.E. Lila, E.E. Antoniou and C.E. Syrseloudis Floating autonomous environmental friendly and efficient desalination unit
10:00 – 10:15	A.A. Zabaniotou, V.K. Skoulou and O.A. loannidou Thermal treatment of energy crop residues: alternatives for energy and materials production
10:15 – 10:30	D.Y. Koseoglu, N. Dizge and B. Keskinler Immobilized <i>Thermomyces lanuginosus</i> lipase for biodiesel production from soybean oil
10:30 – 10:45	I. Ntaikou, H.N. Gavala and G. Lyberatos Kinetics of hydrogen production during growth of the bacterium <i>ruminococcus albus</i> on sweet sorghum extract
10:45 – 11:00	G. Antonopoulou, H.N. Gavala, I.V. Skiadas and G. Lyberatos Biofuels generation from sweet sorghum biomass
11:00 – 11:30	Coffee break
11:30 – 11:45	S. Murata and A. Niwa Investigation to biodiesel production: reaction of vegetable oil with wet ethanol
11:45 – 12:00	A.N. Stavrakas, A.N. Fatsikostas, D.K. Liguras and X.E. Verykios Novel catalyst development for hydrogen production via steam reforming of conventional and environmentally friendly energy sources
12:00 – 12:15	M.P. Papadopoulou, E.A. Varouchakis and G.P. Karatzas A study of the complex karstification phenomenon in nature: an analysis of the flow in a fractured medium in Crete
Snacks	
Session 21 MARINE POLLUT	ION - METEOROLOGY
Friday 7 Septemb ROOM "MELAMB	per 2007 – morning PUS"
9:00 – 9:15	K. Topouzelis, O. Muellenhoff, G. Ferraro and D. Tarchi Satellite mapping of oil spills in the East Mediterranean Sea
9:15 – 9:30	W. Elshorbagy Fate transport of organic pollutants in the coastal water of United Arab Emirates
9:30 – 9:45	A. Katsiri, M. Pantazidou, I. Damikouka, Ch. Kontogiorgi and A. Tringali Physicochemical and toxicological characterization of marine sediments

9:45 – 10:0	0 G. Karras, D. Barelos, A. Karra, G. Patakioutas, G. Gizas and T. Albanis Occurrence of pesticide persistence in Amvrakikos Gulf - N.W.Greece
10:00 – 10	15 M. Kostopoulou, A. Mylona, A. Nikolaou, G. Lofrano, S. Meric and V. Belgiorno Determination of polycyclic aromatic hydrocarbons in the harbor sediments of Mytilene, Greece
10:15 – 10	 I. Primpas, G. Tsirtsis and M. Karydis Quantitative assessment of eutrophication: a proposed multivariate index
10:30 – 10	M. Vousdoukas, O. Andreadis, G. Adamakis, A.F. Velegrakis, E. Pasakalidou and G. Kokolatos Severely eroding Eressos beach (Lesvos Island) and possible dam implications
10:45 – 11	:00 D. Ioannidis and Th.V. Karambas "Soft" shore protection methods: beach drain system
11:00 – 11	:30 Coffee break
11:30 – 11	45 C. Tzimopoulos and L.G. Mpallas Extrapolating rainfall data using fuzzy rule-based modeling
11:45 – 12	200 A. Bartzokas, E.D. Colyvas and S.T. Loizou On the intra-annual variation of sea surface temperature on global scale
12:00 – 12	15 D. Panagoulia, A. Bárdossy and G. Lourmas Multivariate stochastic downscaling models for generating precipitation and temperature scenarios of climate change based on atmospheric circulation
12:15 – 12	30 G. Sgouros and C. G. Helmis On the estimation of mixing height under sea breeze conditions in the Messogia Plain of Attica, Greece
12:30 – 12	T. Nitis, G. Tsegas, G. Korres, I. Douros and N. Moussiopoulos Influence of sea surface temperature variation on basic mesoscale flows over coastal areas
12:45 – 13	CO C. Papathanasiou, E. Safiolea, Y. Kalogiros and M. Mimikou Comparative analysis of rain gauge and radar precipitation estimates in the Attiki area
13:00 – 13	15 Ch. Oikonomou, H.A. Flocas, M. Hatzaki, D.N. Asimakopoulos and C. Giannakopoulos Future changes in the occurrence of extreme precipitation events in Eastern Mediterranean
Snacks	
Session 2 CLOSING	
Friday 7 S ROOM "P.	eptember 2007 – afternoon ANACEA"
18:00 – 18	30 Tortajada Cecilia (invited speaker) International Water Resources Association
18:30 – 20	:00 Chairman's conclusions

21:00 Official Dinner

POSTER PRESENTATIONS

Wednesday 5 September 2007 – afternoon

Α.	WATER TREATMENT METHODS WATER RESOURCES MANAGEMENT WATER QUALITY WATER ANALYTICAL METHODS GROUND WATER	
A1	E. Farmaki, C. Avagianos, E. Lytras, L. Kousouris and Ph. Tzoumerkas Validation of an ETAAs method for the determination of cadmium in natural and potable water: a case study	WTR ¹
A2	V.M. Matsis and E.C. Nikolaou Cadmium in drinking water coolers	WTR
A3	N. Papadakis, P. Tsoumbaris, G. Sargiotis, P. Georgianos and K. Nikolaou Hygienic evaluation of the water supply and sewerage systems in Evros Prefecture, Greece	WTR
A4	A. Papaioannou, P. Plageras, E. Dovriki, A. Minas, V. Krikelis, A.G. Paliatsos, P.Th. Nastos and S. Mpeltsios Assessment and monitoring the quality of drinking water in the context of public health	WTR
A5	D.S. Ramteke, R. Onkar, D. Pakhide and S. Sahasrabudhe Assessment of fluoride in ground water, food and soil and its association with risk to health	WTR
A6	S.A. Samios, E.M. Smeti, L.P. Kousouris, P.C. Tzoumerkas, A.D. Nikolaou, S.K. Golfinopoulos and T.D. Lekkas Statistical analysis of trihalomethanes in treated-water tanks: seasonality, local variability and correlations	WTR
A7	G. Stavroulakis and K.S. Zoannou Compliance of the label and the quality of table and mineral commercial bottled drinking water	WTR
A8	N.C. Thanasoulias, T.S. Kaloudis, L.P. Kousouris and P.K. Tzoumerkas Immunochemical water analysis: state of the art procedures in the organic micropollutant laboratory of the Athens Water Supply and Sewerage Company, Greece	WTR
A9	D. Voutsa, M. Biterna, L. Antonoglou, A. Arditsoglou and E. Lazou Arsenic removal from waters by zero valent iron: influence of physicochemical parameters	WTR
A10	A. Zhu, F. Long, W. Zhu and J-D. Ma The influcences of magnetic pretreatment on water softening with NF membranes	WTR
A11	Fu Chun Integrated water basin management in Mountain-River-Lake (MRL) Region in Jiangxi, China	WRM ²
A12	N. Kalantari, M.R. Rahimi and M. Shebaneh In-channel water harvesting structures for artificial recharge, Kheran alluvial aquifer in the Southwest of Iran	WRM
A13	V. Kanakoudis, S. Tsitsifli and A. Kallia A review of the WFD 2000/60 implementation progress in the EU member states	WRM
A14	P. Kerkides, K. Soulis, E. Psomiadis and P. Giannoulopoulos Water resources conditions assessment in Greece and their role in desertification	WRM

¹ WTR: Water Treatment ² WRM: Water Resources Management

A15	K. Mitreski and A. Naumoski Empirical model of the Lake Prespa	WRM
A16	F.C. Pergantis and A.F. Perganti An approach for water management of the "Psalidi" coastal wetland in the island of Kos	WRM
A17	F. Pliakas, A. Kallioras, I. Diamantis and I. Giougis Seawater intrusion in a coastal phreatic aquifer of Kavala Prefecture, Northern Greece	WRM
A18	I. Boskidis, G.K. Sylaios, C. Petalas, V. Pisinaras, G.D. Gikas, K. Moutsopoulos, A. Gemitzi and V.A. Tsihrintzis Water quantity and quality monitoring of Nestos River, North-Eastern Greece	WQ ³
A19	G. Gatidou and N.S. Thomaidis Single and joint toxicity of two antifouling biocides, their main metabolites and copper using phytoplanktonic bioassays	WQ
A20	D.G. Hadjimitsis, L. Toulios and C.R.I. Clayton Contributions of satellite remote sensing to analysis of spatial and temporal variability of water quality in inland water bodies	WQ
A21	A.K. Papafilippaki, M.E. Kotti and G.G. Stavroulakis Seasonal variations in dissolved heavy metals in the Keritis River, Chania, Greece	WQ
A22	E.M. Smeti, L.P. Kousouris, P.C. Tzoumerkas and S.K. Golfinopoulos Trend analysis and variability of microbiological parameters of the Mornos Reservoir (Greece)	WQ
A23	E.G. Amvrazi and T.A. Albanis Processing factors for selected pesticides persist on olives in different virgin olive oil extraction systems	WAM ⁴
A24	V.I. Boti, V.A. Sakkas and T.A. Albanis Measurement uncertainty arising from trueness of the analysis of two endocrine disruptors and their metabolites in environmental samples: Part II: solid phase extraction from environmental natural waters	WAM
A25	H. Chen and Y. Zhang The prospect of the Immuno-PCR in polybrominated biphenyls detection in environment	WAM
A26	P.G. Dracopoulos, A. Chandrinos, C. Doumas, C. Nomicos, S. Poulos, I. Thanos and V. Zervakis An inexpensive transittance and fluorescence meter	WAM
A27	M.D. Hernando, D. Lambropoulou, I. Konstantinou, M.J. Martínez Bueno, D. Gabrielides, A.R. Fernández-Alba and T. Albanis Passive sampling techniques for monitoring organic contaminants in aquaculture environment	WAM
A28	G.I. Kalampoki, D.A. Lambropoulou and T.A. Albanis Multi-residue screening of pesticide residues in surface waters of Kalamas river (N.W. Greece) by solid-phase extraction followed by GC-MS analysis	WAM
A29	K.V. Karametsi, D.A. Lambropoulou and T.A. Albanis Solid-phase microextraction and GAS chromatography with electron capture detection for multiresidue determination of pesticides in waters	WAM
A30	E. Kastanaki, N.P. Nikolaidis and E. Psillakis Hollow fibre liquid phase microextraction of selected organochlorinde pesticides	WAM

³ WQ: Water Quality ⁴ WAM: Water Analytical Methods

A31	P. Stepnowski, W. Mrozik, J. Nichthauser, A. Markowska and E. Malinski Analysis of environmental fate and quantitative methods for determination of ionic liquids	WAM
A32	I.V. Zioris, D.A. Lambropoulou, T.G. Danis, D.T. Karagiozoglou and T.A. Albanis Determination of pesticide residues in river water of Aliakmonas and in fresh peaches produced in the region of Imathia (Greece)	WAM
A33	N. Mehrdadi, A. Daryabeigi Zand, A.A. Matloubi and A. Baghvand An investigation of sources of environmental pollution and its impact on groundwater quality in Mazandaran province, north of Iran	GW⁵
A34	P. Rahbari and M. AfsharasI Simulation and evaluation of nitrate transport to the groundwater using LEACHMN and DRAINMOD-N	GW

Thursday 6 September 2007 – morning

В.	URBAN WASTE WATER INDUSTRIAL WASTE WATER ADVANCED OXIDATION PROCESSES SOIL CONTAMINATION & REMEDIATION SLUDGE TREATMENT	
B1	M. Gratziou, M. Chalatsi and M. Tsalkatidou Waste stabilization ponds in North Greece	UWW ⁶
B2	D.G. Hatzis, P.A. Paraskevas and S. Basilaros Operation evaluation of the wastewater treatment plant of Mytilene, Lesvos – Greece	UWW
B3	C.A. Kambanellas and S.C. Kambanellas Recycling of grey water in Cyprus	UWW
B4	L. Kos, K. Michalska and J. Perkowski Fenton's reaction as an alternative to coagulation in treatment of wastewater with high detergent content	UWW
B5	S. Mimis and P. Gaganis Vertical flow constructed wetlands for wastewater treatment: a pilot scale study	UWW
B6	K. Ramalingam, J. Fillos, S. Xanthos, M. Gong, A. Deur and K. Beckmann Predicting SS removal performance in rectangular final settling tanks (FSTs) using 3- dimensional CFD model	UWW
B7	Z. Salem, L. Toumi, Y. Kechroud and K. Allia Evaluation of hospital wastewaters pollution and treatment recommentations	UWW
B8	H. Selcuk, V. Naddeo, L. Rizzo and V. Belgiorno Advanced treatment by ozonation and sonolysis for domestic wastewater reuse	UWW
B9	M. Fang and W. Li The molecular biology identification of a hydrolyzed polyacrylamide (HPAM) degrading bacreria strain H5 and biodegradation product analysis	IWW ⁷
B10	I.H. Farooqi, F. Basheer and T. Ahmad Studies on biodegradation of phenols and m cresols by upflow anaerobic sludge blanket and aerobic sequential batch reactor	IWW
B11	J. Ma, F. Long, A. Zhu and Y. Liu Degradation of LAS wastewater with immobilized <i>Corynebacterium jeikeium GZ</i> 6	IWW

 ⁵ GW: Groundwater
 ⁶ UWW: Urban Waste Water
 ⁷ IWW: Industrial Waste Water

B12	M. Casarci, D. De Angelis, L. Grana and A. Spadoni Applicability of submerged membrane for on-site reuse of textile dyehouse wastewater	IWW
B13	A. Hamitouche, T. Berrama and Z. Bendjama Adsorption of para-chlorophenol on an activated carbon from apricot stones: equilibrium and kinetic studies	IWW
B14	W. Li, M. Fang and Y. Jie Effect of polymer oil drive process in Daqing Oil Field on the microogranism community in oil deposit system	IWW
B15	T.M. Qaisrani and W.M. Samhaber Flux enhancement by air dispersion in cross-flow microfiltration of a fine colloidal system through spiral wound module	IWW
B16	D. Hamane and Z. Bendjama Utilisation of eucalyptus sawdust as an adsorbent for removal of lead from aqueous solution	IWW
B17	S.K. Pali, S.S. Konar, A. Mukherjee and T.K. Das Removal of Cadmium ion by cadmium resistant mutant of <i>Aspergillus niger</i> from water	IWW
B18	N.S. Rathore, A. Leopold, A. Fortuny, M.T. Coll, A.K. Pabby and A.M. Sastre Extraction and permeation studies of Cd(II) using CYANEX-923	IWW
B19	F. Ciner and S.K. Akal Solmaz Decolarization of reactive dye containing wastewater using fenton, fenton-like and chemical coagulation	AOP ⁸
B20	T. Fukuta, S. Agari, D. Kuchar, M. Kubota, M.S. Onyango, H. Matsuda, L. Huang and K. Yagishita Decomposition characteristics of copper and zinc cyanide complexes by wet oxidation at low temperatures	AOP
B21	A.R. Rahmani Investigation of photocatalytic degradation of phenol by UV/TiO ₂ process	AOP
B22	V.A. Sakkas, K. Shibata, Y. Yamaguchi, S. Sugasawa and T. Albanis Aquatic photodegradation study of zink pyrithione: degradation kinetics and byproduct identification	AOP
B23	I. Sanchez, X. Bernat, F. Stuber, J. Font, A. Fortuny, A.I Fabregat and C. Bengoa Phenol oxidation promoted by chelated iron: degradation pathway	AOP
B24	T. Velegraki and D. Mantzavinos A study on the removal of benzoic acid using advanced oxidation processes	AOP
B25	T. Mimides, M. Mitselou, M. Balaska and E. Kotsaki Phytoremediation of polluted soils from petroleum hydrocarbons	SOIL [®]
B26	D. Jahani, H.R. Peyrowan, M. Mokhtari, N. Sharafi, M. Karimpour Reihan Assessment of erodability indices of marls in the south east of Tehran (Iran)	SOIL
B27	W. Liu, J. Moriizumi, H. Yamazawa and T. lida Partitioning source of soil carbon dioxide in a forest area by specific activities of ¹⁴ C and carbon isotopic compositions	SOIL
B28	W. Mrozik, J. Nichthauser, A. Markowska, M. Golebiowski, J. Kumirska, G. Czerwicka, E. Malinski and P. Stepnowski Investigation of sorption mechanism of ionic liquids onto selected natural soils	SOIL

 ⁸ AOP: Advances Oxidation Processes
 ⁹ SOIL: Soil Contamination - Remediation

B29	K.G. Serelis, E.G. Papazoglou and V.D. Tsatiris Effects of contaminated water on soil specific surface area: a leaching column experiment	SOIL
B30	A. Szewczyk, I. Zawierucha and G. Malina The effect of various carbon sourses on stimulating bioprecipitation of heavy metals in the saturated zone	SOIL
B31	L.I. Tsikritzis, M. Fotakis, E.I. Amanatidou and R.L. Tsikritzi Naturally occurring radionuclides of soil around the coal mines of West Macedonia, Greece	SOIL
B32	I. Zawierucha, A. Szewczyk and G. Malina Combined enhancement of intrinsic biodegradation in oil-hydrocarbons contaminated soil	SOIL
B33	A. Giannis, E. Gidarakos and A. Skouta Transport of cadmium and assessment of phytotoxicity after electrokinetic remediation	SOIL
B34	J.A. Radaideh and B.Y. Ammary The influence of sludge stabilization on its dewaterability conventional sand drying beds	ST ¹⁰
B35	B. Radjaram and R. Saravanane Anaerobic stabilization and biomass conversion of transformed intermediates of anti-biotic pharmaceuticals waste sludge	ST

Thursday 6 September 2007 – afternoon

C.	AIR POLLUTION AIR TREATMENT SOLID WASTE MANAGEMENT ENERGY	
C1	C. Schreiner, Al. Trandabat, M. Branzila and R. Ciobanu Environmental measurement center based on remote instrumentation	AIR ¹¹
C2	G.R. Gillich, F.C. Berinde, N. Potoceanu, C.M. Gruescu, G. Samoilescu and C.P. Chioncel Considerations regarding pollution with noise and vibration due to industrial sources	AIR
C3	R. Alkama, S. Adjabi, F. Abbaci and K. Mouaci Atmospheric pollution from industrial and automobile source emissions in the region of Bejaia	AIR
C4	S.W. Chang, K.M. Mok and K.V. Yuen Association of PM ₁₀ pollution episodes with the meteorological conditions in Macau	AIR
C5	D.G. Hadjimitsis, L. Toulios and C.R.I. Clayton Satellite image processing for aerosol optical thickness mapping: overview of the "Spatial- aerosol" code	AIR
C6	E.A. Maraziotis, L.L. Sarotis and C.E. Marazioti An analysis of inhalable (PM_{10}) and fine particles ($PM_{2.5}$) concentration levels in urban area of Patras, Greece	AIR
C7	K. Nikolaou, H. Tsarsitalidis and N. Papadakis Traffic and air pollution temporal evolution in the city of Serres, Greece	AIR
C8	A.P. Sharma and B.D.Tripathi Magnetic mapping of fly-ash pollution and heavy metals around a point source in dry tropical environment	AIR
C9	G. Valarini, I.S. Melo, M.J. Valarini and P.J. Valarini	AIR

¹⁰ ST: Sludge Treatment ¹¹ AIR: Air Pollution

	Leaf yeasts as bioindicators of air pollution in Southeastern Brazil	
C10	Y. Yang, X. Li, Y.L. Li, M. Tan, W. Lu, G. Zhang and Y. Li Platinum concentrations in urban airborne particles from Shanghai, China	AIR
C11	Yuanxum Zhang, Yuanmao Zhang, D. Li, H. Wai, Y. Wang, G. Zhang, Y. Li and Y. Zeng Study of air pollution source by combined technique of ACCU and PIXE	AIR
C12	M. Fouskas, M-I. Manousakas, V. Koykouliou and H. Papaefthymiou Indoor radon easurements in Megalopolis – Southern Greece	AIR
C13	A.H. Ismail and Z.A. Hussyin Study of seasonal variations of radon levels and its risks inside different schools in Iraqi Kurdistan region for the first time	AIR
C14	L.I.B. Silva, T.A.P. Rocha-Santos and A.C. Duarte In-situ sensing of volatile organic compounds in indoor atmosphere and confined areas of industrial environments	AIR
C15	T. Fujita, A. Yokoi, T. Kawano, M. Kubota, H. Matsuda, H. Liwei and K. Ushiroebisu Decomposition characteristics of CI, F- containing persistent gases by non-thermal plasma	AIR –T ¹²
C16	M. Tsitsiriki, O. Bereketidou, H. Latsios and M.A. Goula System design and cost estimations for Nox selective catalytic reduction (SCR) on coal- fired boilers	AIR –T
C17	D.S. Achilias, A. Giannoulis and G.Z. Papageorgiou Recycling of polymers from packaging materials using the dissolution-reprecipitation technique: advantages and limitations	SWM ¹³
C18	K.S. Al-Shallash and M.M. Shereif Healthcare waste management in Saudi Arabia. A case study	SWM
C19	M. Bekatorou, M. Kanellaki, I.M. Banat and P. Nigam Animal feed production by solid state fermentation of brewer's spent grains and malt spent rootlets with Aspergillus Awamori, A. Oryzae and Phanerochaete Chrysosporium	SWM
C20	L.O. Enekwechi and E.O. Longe Influence of hydrogeological barriers on migration pattern of leachates in municipal landfills	SWM
C21	M. Ikokwu and I.V. Usino Urban solid wastes as a major public health disaster in Nigeria	SWM
C22	F. Mohellebi and C.E. Chitour Characterization and regeneration of waste insulating lubricant	SWM
C23	M. Paraschiv, M. Tazerout and R. Kuncser Thermolysis of plastic waste and composites – a method for energy valorising and/or reinforced materials recycling	SWM
C24	G. Radonjic and M. Makarovic Added-value of recycled mixed plastics through interfacial modification: effects of processing conditions on final properties of modified mixed plastics wastes	SWM
C25	G. Siavalas, S. Zilakou, S. Kalaitzidis, A. Chatziapostolou, A Bouzinos and K. Christanis Trace element leachability from lignite and combustion by-products under certain pH conditions	SWM
C26	B. Voncina and M. Pintar Textile waste recycling	SWM

¹² AIR-T: Air Treatment ¹³ SWM: Solid Waste Management

C27	M. Barmina, A. Desnickis, M. Gedrovics and M. Zake Co-firing of renewable with fossil fuel for the cleaner heat energy production	ENER ¹⁴
C28	M. Barmina, A. Desnickis and M. Zake Electric field effect on the wood biomass co-fire and the formation of polluting emissions	ENER
C29	M. Gonzalez-Martinez and C. Clemente-Jul Biomass heating system for a building	ENER
C30	M. Paraschiv and M. Tazerout Non-conventional fuels from palm oil	ENER
C31	E. Tzirakis, F. Zannikos and S. Stournas Impact of driving style on fuel consumption and exhaust emissions: defensive and aggressive driving style	ENER
Frida	ny 7 September 2007 – morning	
D.	ENVIRONMENTAL SUSTAINABILITY METEOROLOGY MARINE POLLUTION ECOLOGY	
D1	P. Chatzimpiros, G. Lagos and GF. Sargentis Man and City. Myth and Vision	ENV-S ¹⁵
D2	B. Kourmpanis, K. Moustakas, A. Papadopoulos, M. Stylianou and M. Loizidou Selection of the optimum scheme for the management of construction and demolition waste in Cyprus with the help of multi-criteria analysis	ENV-S
D3	M. Loizidou, C. Koroneos, D. Chardas, A. Bourka, T. Palekithrytis, D. Fatta and L. Chrysostomou Sustainable construction in public and private works through IPP aproach - the SUSCON project	ENV-S
D4	B. Maghsoudlou Kamali Strategic Environmental assessment of Iran's industrial development policies through strategic factors analysis method (SWOT)	ENV-S
D5	M. Mandaraka and M. Kornoutou Contents and structure of corporate social responsibility (CSR) reports published in Greece	ENV-S
D6	P. Roudgarmi, N. Khorasani, M. Monavari and J. Nouri Environmental impact evaluation by spatial multi-criteria evaluation technique	ENV-S
D7	D. Sanopoulos and N. Duic Development of environmental guidelines for the region of Western Balkans - WEB-ENV project results	ENV-S
D8	A. Skouloudis, F. Kourmousis and K. Evangelinos Development of an evaluation methodology for sustainability reports using international standards on reporting	ENV-S
D9	A. Mavrakis, S. Dasaklis, G. Theoharatos and A. Tasopoulos The evolution of a strong atmospheric disturbance over the Aegean Sea and the associated meteorological parameters, described by satellite data and GIS	MET ¹⁶

 ¹⁴ ENER: Energy
 ¹⁵ ENV-S: Environmental Sustainability
 ¹⁶ MET: Meteorology

D10	M.H. Mobin, S. Mohsen Mirhosseini and M. Heydari GIS-based analysis of beginning, end, and the length of the rainy season along arid and semi-arid climates of central parts of Iran (Gavkhooni basin)	MET
D11	K. Philippopoulos, G. Karvounis and D. Deligiorgi Meteorological representivity analysis and modeling the atmospheric dispersion of a power plant plume	MET
D12	A. Ounnar, N. Chekir, J. Arrar and F. Bentahar Experimental investigations of the jet behaviour into fluidised bed for biological depollution of coastal sand	MAR ¹⁷
D13	K.G. Rados, Y.G. Perivolaris, A. Vougiouka, K. Venezis, G. Karalis and A. Zervos Application of a mesoscale weather prediction model for short-term forecasting of power production of wind farms in complex terrain - Test case: island of Crete	MAR
D14	L. Shashua-Bar, P. Hasapis, K. Chronopoulos, Y. Tzamir, R. Sebba, A. Kazana, M. Hoffman and I. Tsiros Strategic modeling of the urban canopy layer microclimate: preliminary simulation results for urban street canyons with trees in Athens, Greece	MAR
D15	A. Mavrakis, S. Dasaklis and A. Christides A. Study of the characteristics of the Thriassion Plain streams and their contribution to the degradation of the marine environment of the Elefsis Gulf	MAR
D16	S. Poulos, G. Alexandrakis, A. Karditsa and P. Drakopoulos Heavy metal investigation, as pollutant indicators, in bottom sediments, in the harbours Heraklion and Alexandroupolis (Aegean Sea, Greece)	MAR
D17	N.M. Fyllas, H. Metohianakis, N. Xypteras and P.G. Dimitrakopoulos Study of the regeneration density in East Mediterannean pine forests (Pinus brutia Ten.) of different succession stage defined by last fire event	ECO ¹⁸
D18	T. Mimides and E. Kotsaki The key role of wetlands in addressing the global groundwater crisis. A review	ECO
D19	A. Pantera, I. Raftoyannis and A.M. Papadopoulos Fir decline as a result of nutrient imbalance: preliminary results	ECO
D20	A. Papadopoulos, Y. Raftoyannis and A. Pantera Fir decline in Greece: a dendroclimatological approach	ECO
D21	N.G. Akinshina and A.A. Azizov Urban greenery monitoring for sustainable urban management	ECO
D22	Z.S. Andreopoulou, A.K. Kokkinakis and T. Pavlidis Sustainable environmental management of running waters ecosystems with a database application	ECO
D23	A.T. Gallis Evaluation of the damage by insect Marchalina Hellenica (Genn.) in Easterh Attica, Greece. Conclusions for the sustainable management of forests ecosystems	ECO
D24	I. Gatsis, S. Koukoulas, A. Vafeiadis and K. Gkoltsiou A rule-based approach for mapping and monitoring of land cover changes in Lesvos (E. Greece), with emphasis in deforestation and olive groves abandonment	ECO
D25	A.A. Hedayati, M. Yavari, M. Bahmani, M. Alizadeh and T. Bagheri Examination reciprocal relationship of blood profile in Great sturgeon (Huso huso) cultured in brackish water condition	ECO

¹⁷ MAR: Marine Pollution ¹⁸ ECO: Ecology

D26	Z. Herseczki and G. Marton Glycerol-based eco-technologies using environmentally benign chemicals	ECO
D27	A. latrou and K. Abeliotis Land use impact assessment based on life cycle assessment in protected aeras of ecological network Natura 2000	ECO
D28	M. Karimpour Reihan and F. Amiraslani The evolution of a specified ecosystem in a semi-arid climate (Case study: Razan basin, Iran)	ECO
D29	A.K. Kokkinakis and Z.S. Andreopoulou Decision support for sustainable fishery management in lake ecosystems using production models of commercial fish species	ECO
D30	N. Mashhadi and F. Amiraslani The study of sand sources in order to rehabilitate of desertified ecosystem (Case study: Khartooran Erg, Iran)	ECO
D31	L. Wang, F. Ma and Y. Yang Water status in the replacement of zonic stipa baicalensis by azonic Leymus chinesis in the Songnen Plains of China	ECO
D32	G.C. Zalidis, N.G. Silleos, T.K. Alexandridis, E. Lazaridou, A. Chantzaridou and K. Nikolaou Deriving indicators for monitoring European Ramsar wetlands using Earth Observation:	ECO
	The case study of Delta Axios-Loudias-Aliakmonas, Greece	

WORKSHOP I

CONTROL OF DISINFECTION BY PRODUCTS IN DRINKING WATER AND WASTEWATER FOR REUSE

Wednesday 5 September 2007 – afternoon, ROOM "CHIRON"

The present workshop is aimed to discuss and spread the results of a research project cofounded by Italian Ministry for University and Research (MIUR). By means of this type of projects, MIUR economically supports Italian Universities in order to encourage researchers exchange among Mediterranean countries. The present project, coordinated by prof. Vincenzo Belgiorno from University of Salerno (Italy), involved Universities from Greece (University of the Aegean, Mytilene), Italy (University of Salerno), Morocco (University of Hassan II Mohammadia) and Turkey (Bogazici University and Pamukkale University).

The water scarcity is a common problem for the countries located in arid and semi-arid areas such as Mediterranean countries. In these areas surface waters are fundamental resource to satisfy the increasing drinking water demand. Unfortunately, the use of oxidants/disinfectants in drinking water treatment results in the formation of potentially carcinogenic compounds because of the reaction among these chemicals, naturally occurring organic matter and bromide. Moreover, the leak of natural water resources make difficult to satisfy the water demand in others sectors too, thus the wastewater reuse is an important integrative/alternative resource for not drinking uses (such as urban, agricultural and industrial).

According to the above mentioned problems, the MIUR project was aimed to investigate the behaviour of advanced oxidation processes (photocatalysis, ozonation, sonolysis) in drinking water and wastewater treatment. Photocatalysis was used in drinking water treatment in order to control formation of disinfection by products (DBPs). Photocatalysis, ozonation, sonolysis and their combination were used in advanced treatment of civil and civil/industrial wastewater in order to evaluate the potential reuse.

The Sanitary and Environmental Engineering Division (SEED) of Salerno University coordinates this international workshop, and welcomes participants.

WORKSHOP II

WATER RESOURCES MANAGEMENT: WATER FRAMEWORK DIRECTIVE 2000/60/EC. APPLICATION AND PUBLIC PARTICIPATION IN ANTHEMOUNTAS RIVER BASIN IN GREECE

Thursday 6 September 2007 – morning – ROOM "CHIRON"

The Development Agency of Eastern Thessaloniki S.A. "ANATOLIKI S.A." organizes the workshop on **water recourses management,** in 6th of September 2007, in the frame of 10th International Conference on Environmental Science and Technology - CEST 2007, in Kos island, Greece.

The meeting included in the dissemination activities of the project is LIFE04/ENV/GR/000099 - WATER AGENDA entitled: "Development and implementation of integrated water resources management policy to a river basin, through the application of a social wide local agreement, based on the principles of Agenda 21 and the provisions of Water Framework Directive 2000/60/EC " which is being implemented from September 2004 and will be end in October 2007. The other project's partners are: the Region of Central Macedonia, the Municipality of Thermi, the National Technical University of Athens, the National Center of Environment & Sustainable Development, Comune di Milano, Italy and Institut de Ciéncia I Technologia Ambientals Universitat Autonoma de Barcelona, Spain The aim of the workshop are:

- the presentation of the activities and technical tools that were developed during the LIFE project
- the promotion of the available technical tools on application of WFD and Public Participation Procedures
- the dissemination of the experience and results from sustainable water resources management practices
- the experience transfer among the members of Euro Mediterranean cooperation network and the expansion of the network with new members.

The workshop will contribute to the sustainable water resources management focusing on the application of WFD and the Public participation during the producing and application of river basin management plans.

The workshop is addressed to:

- Representatives of Ministries, Municipalities and Chambers.
- Personnel of Water Directorates, Public and Local Authorities and Water services working on environmental permissions and water resources management.
- Scientists and researchers.
- NGO's and other Civil Society organizations



YOUNG RESEARCHERS SESSION

Thursday 6 September 2007 – afternoon – ROOM "CHIRON"

The Young Researchers Session is introduced for the first time as a special event of the 10th Conference of Environmental Science and Technology – CEST, organised by the Global Network on Environmental Science and Technology and the Department of Environmental Studies of the University of the Aegean in Greece.

This particular session is devoted to PhD students, post docs, and junior researchers working in the field of environmental sciences, the main objective being the dissemination of information regarding relevant ongoing research activities in Universities and Research Institutes.

During the session the researchers will be asked to give a 20 minutes overall presentation, focusing on the objectives, methods main results and ideas for further development of their work, with the intention to inform a wider and not necessarily specialised with their work audience.

WORKSHOP III

E-LEARNING: EMERGING FORMS OF ENVIRONMENTAL EDUCATION DELIVERY WITHIN A EUROPEAN KNOWLEDGE-BASED SOCIETY

Friday 7 September 2007 – morning – ROOM "CHIRON"

The workshop "E-Learning: Emerging forms of Environmental Education delivery within a European knowledge-based society" is organised by the Educate! Project (<u>http://e-educating.org/</u>) a multi-partner initiative funded through INTERREG IIIC CADSES aimed at promoting education in the water sector. Educate! aims at professional capacity building and provision of a common understanding of IWRM for young graduates within a cooperative, transnational environment.

The Project is launching an *MSc programme* starting this year, *delivered via e-leaning* and the workshop aims at discussing the role of e-learning for water and environmental engineering within an EU and Global context. The speakers are key players in water education and e-learning in Europe and will discuss their experiences in delivering distance learning courses as well as their views on EUs educational and knowledge development aspirations.

The workshop will be in itself a "show-case" for e-learning, and include selected **presentations delivered remotely, live demos** and a **hands-on tutorial session** using selected material from the MSc to be delivered to a small participant's audience.

Convenors: Prof. A. Katsiri, Prof. D. Assimacopoulos and Dr. C Makropoulos.



Organised by the Educate! Project (5D129)



INTERREG III B CADSES

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