

**CEST 2011  
TIMETABLE OF THE CONFERENCE**

		ROOM					POSTER AREA
		A	B	C	D	E	
THURSDAY 8 SEPTEMBER 2011	09:30 - 11:00	<b>SESSION 1</b> OPENING Hall "MARIKA CAPSIS"					<b>POSTER SESSION A</b>  CLIMATE CHANGE AIR POLLUTION ECOLOGY BIOMONITORING EMERGING POLLUTANTS
	11:30 - 13:15	<b>SESSION 2</b> WASTEWATER TREATMENT (1)	<b>SESSION 3</b> HYDROLOGY & WATER RESOURCES MANAGEMENT (1)	<b>SESSION 4</b> AIR POLLUTION (1)	<b>SESSION 5</b> ECOLOGY (1)		
	17:00 - 20:30	<b>SESSION 6</b> WASTEWATER TREATMENT (2)	<b>SESSION 7</b> HYDROLOGY & WATER RESOURCES MANAGEMENT (2)	<b>SESSION 8</b> AIR POLLUTION (2)	<b>SESSION 9</b> BIOMONITORING	<b>SESSION 10</b> ENVIRONMENTAL EDUCATION	
FRIDAY 9 SEPTEMBER 2011	09:00 - 13:30	<b>SESSION 11</b> ENV MANAGEMENT/ ENV SUSTAINABILITY (1)	<b>SESSION 12</b> CLEAN ENERGY AND SUSTAINABILITY (1)	<b>SESSION 13</b> AIR POLLUTION (3) CLIMATE CHANGE	<b>SESSION 14</b> SOLID WASTE MANAGEMENT (1)	<b>POSTER SESSION B</b>  WASTEWATER TREATMENT HEALTH AND ENVIRONMENT CLEAN ENERGY & SUSTAINABILITY	
	17:00 - 20:30	<b>SESSION 15</b> WASTEWATER TREATMENT (3)	<b>SESSION 16</b> CLEAN ENERGY AND SUSTAINABILITY (2)  <b>SESSION 17</b> ECOLOGY (2)	<b>SESSION 18</b> HEALTH AND ENVIRONMENT	<b>SESSION 19</b> SOLID WASTE MANAGEMENT (2) - SOIL		<b>SESSION 20</b> ECOLOGICAL IMPORTANCE OF SOLAR SALTWORKS
SATURDAY 10 SEPTEMBER 2011	09:00 - 13:30	<b>SESSION 21</b> WASTEWATER TREATMENT (4)	<b>SESSION 22</b> HYDROLOGY & WATER RESOURCES MANAGEMENT (3)	<b>SESSION 23</b> EMERGING POLLUTANTS	<b>SESSION 24</b> WATER TREATMENT & RECLAMATION	<b>POSTER SESSION C</b>  HYDROLOGY & WATER RESOURCES MANAGEMENT SOLID WASTE MANAGEMENT ENV. MANAGEMENT & SUSTAINABILITY	
	17:00 - 18:00	<b>SESSION 25</b> WASTEWATER TREATMENT (5)	<b>SESSION 26</b> ENV MANAGEMENT/ ENV SUSTAINABILITY (2)				
	18:30 - 20:00	<b>SESSION 27</b> CLOSING SESSION Hall "MARIKA CAPSIS"					

## CONFERENCE VENUE

### Capsis Hotel Rhodes, Marika Capsis Conference Centre



- |                         |                |
|-------------------------|----------------|
| 1. SECRETARIAT          | 5. Room C      |
| 2. Hall "Marika Capsis" | 6. Room D      |
| 3. Room A               | 7. Room E      |
| 4. Room B               | 8. POSTER AREA |

**Wednesday 7 September 2011 - afternoon**

**"MARIKA CAPSIS Conference Centre"**

18:00 – 20:00 Registrations

20:00 **Welcoming reception drink**

## ORAL PRESENTATIONS

### Session 1 – OPENING

**Thursday 8 September 2011 - morning**

**HALL "MARIKA CAPSIS"**

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

9:30 – 9:45 Welcome

9:45 – 10:00 **Helmis C.G.** (chairman of the Conference)  
Opening of the Conference - Introductory notes

10:00 – 10:20 **Lekkas T.D.**  
Drinking Water Quality Issues

10:20 – 10:40 **Belgiorno V.**  
Wastewater treatment – state of the art

10:40 – 11:00 **Mylopoulos Y.A.**  
Water Centre establishment

11:00 – 11:30 *Coffee break*

### Session 2

#### WASTEWATER TREATMENT (1)

**Thursday 8 September 2011 - morning**

**ROOM "A"**

**Chairs: Belgiorno V., Kalogerakis N.**

11:30 – 11:45 **Ciner F., Yilmaz Y. A., Sarioglu Cebeci M. and Gokkus O.**  
The effect of Fenton process on printing-dyeing textile wastewater

11:45 – 12:00 **Sarioglu M. and Askal M.**  
Removal of azo dye (basic red 46) from wastewaters using biosolid: Response surface methodology and experimental design

12:00 – 12:15 **Radović M., Mitrović J., Anđelković T., Bojić D. and Bojić A.Lj.**  
Decolorization of textile dye reactive blue 19 in water by UV/H<sub>2</sub>O<sub>2</sub> process

12:15 – 12:30 **Kohler C., Klepizewski K., Arenz-Leufen M., Venditti S., O’Nagy O. and Cornelissen A.**  
Elimination of pharmaceuticals residues in hospital wastewater using low and medium pressure UV lamps

12:30 – 12:45 **Eissa F.I.**  
Enhancing the remediation efficiency of Photo-Fenton reaction by the oxygen and humic substances

12:45 – 13:00 **Veloutsou S., Bizani E. and Fytianos K.**  
Photo-Fenton decomposition of two pharmaceutical compounds; atenolol and metoprolol

- 13:00 – 13:15 **Veréb G., Manczinger L., Dombia A. and Mogyorósi K.**  
Comparative study of disinfection and phenol degradation on different bare and doped titanium dioxide photocatalysts using visible light irradiation

*Lunch break*

### **Session 3**

#### **HYDROLOGY & WATER RESOURCES MANAGEMENT (1) Hydrological modeling and uncertainty**

*Thursday 8 September 2011 - morning*

**ROOM "B"**

**Chairs: Baltas E., Lekkas D.F., Pechlivanidis I.G.**

- 11:30 – 11:45 **Vozinaki A.E.K. Kourgialas N.N. and Karatzas G.P.**  
An integrated surface and groundwater modeling system for flood loss estimation. a field application in the Koiliaris river basin in Crete – Greece.
- 11:45 – 12:00 **Farmaki E.G., Thomaidis N.S., Passias I.N., Baulard C., Papaharisis L. and Efstathiou C.E.**  
Artificial neural networks for the diagnosis of the aquaculture impact on marine sediments
- 12:00 – 12:15 **Soulis K.X., Dercas N. and Valiantzas J.D.**  
Wildfires impact on hydrological response – the case of Lykorrema experimental watershed.
- 12:15 – 12:30 **Alonistioti D., Papathanasiou C., Kasella A., Makropoulos C. and Mimikou M.**  
Assessing the impact of forest fires on the hydrological response of urban catchments: the case of the southern Attica region
- 12:30 – 12:45 **Botsis D., Latinopoulos P. and Diamantaras K.**  
Rainfall–runoff modeling using support vector regression and artificial neural networks
- 12:45 – 13:00 **Psarianou P., Nalbantis I. and Kydonaki I.**  
Data inadequacy in water quality modelling: The case of Lake Pamvotis
- 13:00 – 13:15 **Daniil E.I., Michas S.N., Nikolaou K. and Lazaridis L.S.**  
Systematic approach for ungaged basins' discharge determination in Western Peloponnese
- 13:15 – 13:30 **Pechlivanidis I.G., Jackson B., McMillan H. and Gupta H.**  
Use of informational entropy-based metrics to drive model parameter identification

*Lunch break*

### **Session 4**

#### **AIR POLLUTION (1)**

*Thursday 8 September 2011 - morning*

**ROOM "C"**

**Chairs: Helmis C.G., Kassomenos P.**

- 11:30 – 11:45 **Katsanis S., Chin S.B., Nicolleau F.C.G.A. and Bullough W.A.**  
Numerical simulation of air pollution dispersion over hilly terrain: the influence of topography
- 11:45 – 12:00 **Panagopoulos I., Karayannis A. and Kassomenos P.**  
Development of a turbulent numerical model for air pollutants dispersion prediction in the urban environment accounting the effect of vegetation
- 12:00 – 12:15 **Charisiou N.D., Tsevrenis G.J. and Goula M.A.**  
Software development for the design of control equipment for particulate pollutants

- 12:15 – 12:30 **Halmer G., Douros I., Tsegas G. and Moussiopoulos N.**  
Study of the direct aerosol effect in the Paris metropolitan area using a coupled meteorological – chemical transport model
- 12:30 – 12:45 **Barmpas F. and Moussiopoulos N.**  
Numerical study for the transient inter-canopy transport of air pollution in the integrated indoor and outdoor environment in a densely populated urban area
- 12:45 – 13:00 **Vlachokostas Ch., Achilles Ch., Moussiopoulos N., Michailidou A.V., Banias G. and Lampridi M.**  
Combined air quality and noise exposure assessment in Thessaloniki, Greece
- 13:00 – 13:15 **Fameli K.M., Assimakopoulos V.D. and Kotroni V.**  
Comparative study of the land use characteristics in the Greater Athens area (GAA) before and after 2004
- 13:15 – 13:30 **Triantafyllou A.G., Krestou A., Hurley P. and Thatcher M.**  
An operational high resolution local-scale meteorological and air quality forecasting system for Western Macedonia, Greece: Some first results
- 13:30 – 13:45 **Moussiopoulos N., Banias G., Douros J., Michailidou A. and Tsegas G.**  
Emission estimates and air quality impacts from the use of alternative fuels by the TITAN cement factory in Thessaloniki

*Lunch break*

## **Session 5 ECOLOGY (1)**

***Thursday 8 September 2011 - morning***

***ROOM "D"***

***Chairs: Karydis M., Gidarakos E.***

- 11:30 – 11:45 **Gidarakos E.**  
Ecologic impacts from the "Sea Diamont"
- 11:45 – 12:00 **Karydis M.**  
Toxicity testing and risk assessment: a review on the use of aquatic microcosms
- 12:00 – 12:15 **Matsinos Y.G. and Zimeras S.**  
Uncertainty analysis in ecology
- 12:15 – 12:30 **Ullah S., Magan N. and Ullah Shah H.**  
Role of Rhizospheric *Aspergillus Flavus* in standing maize crop contamination
- 12:30 – 12:45 **Ellis R., Long D.T. and Icopini G.A.**  
Assessment of the fate of Fe, Cu and Zn in a contaminated wetland complex
- 12:45 – 13:00 **Schröder P., Hesselmann K., Protivova V., Stampfl A. and Debus R.**  
Effects of ultrafine particles on plants – a pilot study
- 13:00 – 13:15 **Sakellariou-Makrantonaki M.A. and Dimakas D.S.**  
Biosolids application combined with deficit irrigation on sweet sorghum crop
- 13:15 – 13:30 **Manos B., Kenward R., Arampatzis S. and Papathanasiou J.**  
Research on governance and ecosystems management for the conservation of biodiversity. Key messages and policy guidelines

*Lunch break*

**Session 6****WASTEWATER TREATMENT (2)**

*Thursday 8 September 2011 – afternoon*  
**ROOM “A”**

**Chairs: Thomaidis N., Lyberatos G.**

- 17:00 – 17:15 **Mohamed M. and Ouki S.**  
Kinetics and removal mechanisms of a selected refinery wastewater compound –benzene- by chitin and chitosan
- 17:15 – 17:30 **Wittine O., Keav S., Maduna Valkaj, Barbier J.Jr. and Zrnčević S.**  
Treatment of phenolic effluents by PP-CWAO over Cu/13x catalyst
- 17:30 – 17:45 **Kastanek F., Sobek J., Kastanek P., Solcova O. and Hajek M.**  
Dehalogenation of polyhalogenated compounds dissolved in organic solvents with the help of AOPs in a two-phase solvent-water system under the influence of ultrasound
- 17:45 – 18:00 **Pellera F., Giannis A., Kalderis D. and Gidakos E.**  
Removal of copper from aqueous solutions using biochars produced through pyrolysis
- 18:00 – 18:15 **Vlasis T., Stamatelatos K., Antonopoulou G. and Lyberatos G.**  
Anaerobic treatment of glycerol for methane and hydrogen production
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Simantiraki F., C. Kollias and Gidakos E.**  
Characterization of different types of sewage sludge and application for groundwater remediation of petroleum
- 19:00 – 19:15 **Atashzar M., Zamani A.A., Parizanganeh A.H. and Yaftian M.R.**  
Batch adsorption of lead and nickel ions from aqueous solution by means of olive cake
- 19:15 – 19:30 **Milojković J.V., Stojanović M.D., Grubišić M.S., Lopičić Z.R. and Mihajlović M.L.**  
Lead sorption by Compost of *Myriophyllum spicatum*
- 19:30 – 19:45 **Çelebi H., Gök O. and Sponza D.T.**  
Removals of oxytetracycline (antibiotic) and benzo[a]pyrene (polycyclic aromatic hydrocarbon) in anaerobic multichamber bed reactor (AMCBR)
- 19:45 – 20:00 **Kalogerakis N., Chartzoulakis K. and Santori F.**  
Alternative treatment technologies for olive mill wastewater in Mediterranean countries
- 20:00 – 20:15 **Chang B., Xagorarakis I., Phanikumar M.S., Li H. and Voice T.C.**  
Modeling the chlorination kinetics of acetaminophen in water

**Session 7****HYDROLOGY & WATER RESOURCES (2) Hydrology and Climate**

*Thursday 8 September 2011 – afternoon*  
**ROOM “B”**

**Chairs: Stamou A., Mavroulidou M.**

- 17:00 – 17:15 **Dragota C-S., Dumitraşcu M., Kucsicsa G., Grigorescu I. and Dumitraşcu C.**  
Assessing dryness and drought phenomena in the south Oltenia
- 17:15 – 17:30 **Tsoukala V.K., Stathatou P.G., Papadopoulou M.P., Stamou A., Spiliotopoulou N., Theochari C. and Papagrorgiou S.**  
Water footprint: an environmental friendly concept to address water crisis
- 17:30 – 17:45 **Koutiva I. and Makropoulos C.**  
Towards adaptive water resources management: simulating the complete socio-technical system through computational intelligence

- 17:45 – 18:00 **Mavroulidou M., Morgan N.L., Sibanda T., Serumaga M. and Bhamidimarri R.**  
Innovative environmentally responsible techniques of ground improvement stimulating natural processes
- 18:00 – 18:15 **Putthividhya A. and Koonthanakulvong S.**  
A case study of stable isotope fingerprinting for surface water and groundwater origin and dynamic interactions in Thailand
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Ambas V. and Baltas E.**  
Sensitivity analysis of different evapotranspiration methods with a new sensitivity coefficient
- 19:00 – 19:15 **Stamou A.I., Papadonikolaki G., Gkesouli A. and Nikolettopoulos A.**  
Modeling the effect of vegetation on river floodplain hydraulics
- 19:15 – 19:30 **Pechlivanidis G.I., Keramaris E. and Samaras G.A.**  
Measuring the turbulent characteristics in an open channel using the PIV method
- 19:30 – 19:45 **Pantelakis D., Zissis Th., Anastasiadou-Partheniou E. and Baltas E.**  
Comparison of different hydraulic routing models for the simulation of flow in drainage networks
- 19:45 – 20:00 **Stamou A., Loverdou L., Matsoukis C., Albanis T. and Gkesouli A.**  
Modeling renewal times in Amvrakikos Gulf, Greece

**Session 8**  
**AIR POLLUTION (2)**

*Thursday 8 September 2011 – afternoon*  
**ROOM “C”**

**Chairs: Moussiopoulos N., Flocas H.A.**

- 17:00 – 17:15 **Hoi K.I., Mok K.M., Yuen K.V. and Pun M.H.**  
Assessment of fine particulate pollution in Macau using a mobile monitoring platform
- 17:15 – 17:30 **Bourliva A., Kantiranis N., Papadopoulou L., Aidona E., Christoforidis C. and Kollias P.**  
On the morphology, geochemical characteristics and magnetic properties of urban road dust particles from the historic center of city of Thessaloniki, Greece
- 17:30 – 17:45 **Helmis C.G., Sgouros G., Schäfer K., Jahn C., Hoffmann M., Heyder C. and Haas F.**  
An experimental study of mixing height estimation using remote sensing instrumentation
- 17:45 – 18:00 **Tzirakis E. and Zannikos F.**  
Development of passenger car and motorcycle driving cycles for Athens
- 18:00 – 18:15 **Apostolopoulou K. and Varnavas S.P.**  
Air pollution in the town of Patras, Greece related to maritime transport and port activities
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Diapouli E., Papamentzelopoulou A. and Chaloulakou A.**  
Survey of airborne particulate matter concentration at a marble processing facility workers' exposure assessment
- 19:00 – 19:15 **Kopanakis I., Chalvatzaki E., Kalogerakis N. and Lazaridis M.**  
Particulate matter concentration and chemical composition during excavation works for a restoration of an uncontrolled landfill
- 19:15 – 19:30 **Halios C.H., Helmis C.G., Sgouros G., Tzoutzas J., Antoniadou M. and Kostopoulos V.**  
Quantification of total VOCs emitted from disinfectants, bonding agents and acrylic substances in a controlled dental environment

- 19:30 – 19:45 **Chuang C.Y, Shinhao Yang, Hsin-Chung Cheng, Chin-Hsiang Luo, Chen-Ping Chang and Wei Fang**  
The distribution profile investigation of bioaerosols contamination during dental scaling practice
- 19:45 – 20:00 **Denman A.R., Sinclair J., Groves-Kirkby C.J. and Phillips P.S.**  
The impact of more precise radon mapping on the remediation of existing homes in the UK
- 20:00 - 20:15 **Tuprakay S., Tuprakay S.R. and Suwannateep N.**  
Prototype of acid mist collector using high-voltage electrostatic generator

## Session 9 BIOMONITORING

*Thursday 8 September 2011 – afternoon*  
**ROOM “D”**

**Chairs: Petreas M. and Kalantzi O.**

- 17:00 – 17:15 **Liu C., Chang V.W.-C. and Gin K.Y.C.**  
Detection and accumulation of perfluorinated compounds in mussels in Singapore
- 17:15 – 17:30 **Ishiniwa H., Sogawa K., Yasumoto K., Hoshi N., Yokoyama T., Tasaka K. and Sekijima T.**  
Effects of dioxin pollution on population structure in the Japanese field mouse, *Apodemus speciosus*, using a molecular indicator related to dioxin sensitivity
- 17:30 – 17:45 **Suutari A., Hallikainen A., Laaksonen S., Ruokojärvi P. and Kiviranta H.**  
Polybrominated diphenyl ethers (PBDES) in Finnish moose (*Alces alces*)
- 17:45 – 18:00 **Navarro-Ortega A., Ratola N., Hildebrandt A., Alves A., Lacorte S. and Barceló D.**  
PAHs in pine needles, soils and sediment matrices from the Ebro river basin
- 18:00 – 18:15 **Petreas M., Park J.S., Wang M., Wang Y., Guo W., Tarrant D., Rhee A. and Harwani S.**  
The California biomonitoring program: Persistent organic pollutants in archived and contemporary serum
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Kalantzi O.I and Alcock R.A**  
Short-chain chlorinated paraffins in biota – levels and effects
- 19:00 – 19:15 **Papp Gy., Sándor Zs.J. and Csengeri I.**  
Monitoring of some pharmaceuticals in Hungarian aquatic environment
- 19:15 – 19:30 **Shaw S.D., M.L. Berger, L. Weijs and A. Covaci**  
Tissue matters: biomagnification of brominated flame retardants in harbor seals from the Northwest Atlantic
- 19:30 – 20:30 **Discussion**

## Session 10 ENVIRONMENTAL EDUCATION: Creating successful environmental programmes and enhancing environmental awareness of society

*Thursday 8 September 2011 – afternoon*  
**ROOM “E”**

**Chairs: M. Mandaraka and Ziad Mimi**

- 17:30 – 17:45 **Sargentis G.F., Symeonidis N. and Xanthopoulos Th.**  
Issues for environmental education by the creation of a prototype temporary children's community

- 17:45 – 18:00 **Papadomakrakis I., Xanthacou Y., Matzanos D., Papavasileiou V. and Simina V.**  
Field study of the valley of Aithona in Rhodes: postgraduate students' knowledge and attitudes
- 18:00 – 18:15 **Liveri A. and Kaila M.**  
Students' knowledge and attitudes towards the local environment of Zakynthos: Implementation plan for environmental education in relation to the conservation area of the network Natura 2000, code of GR 2210001
- 18:15 – 18:30 *Coffee break*
- 18:30 – 18:45 **Haddad Marwan**  
Assessment of barriers to environmental higher education system reform in Palestine
- 18:45 – 19:00 **Mandaraka M. and Giannopoulou E.**  
A web-based environmental portal: a tool for enhancing environmental awareness and promoting involvement of society in environmental issues
- 19:00 – 20:00 **Discussion**

### Session 11

#### ENVIRONMENTAL MANAGEMENT – ENVIRONMENTAL SUSTAINABILITY (1)

*Friday 9 September 2011 – morning*  
**ROOM "A"**

**Chairs: Hadjibiros K., Evangelides C.**

- 9:00 – 9:15 **Maghsoudlou Kamali B.**  
Strategic environmental assessment of Iran's industrial development policies through analysis method of strategic factors (SWOT)
- 9:15 – 9:30 **Tzimopoulos C., Balioti V., Evangelides C. and Yannopoulos ST.**  
Irrigation network planning using linear programming
- 9:30 – 9:45 **Finnegan J., Regan J.T. and Healy M.G**  
Assessment of impacts of forest operations on the environment
- 9:45 – 10:00 **Gudelis A., Konstantinova M., Nedveckaite T. and Butkus D.**  
Site-specific assessment of ionizing radiation impact on the environment in regulatory context
- 10:00 – 10:15 **Papadopoulou M. and Tsoukala V.K.**  
Deciding and evaluating interventions on coastal zone using environmental indicators
- 10:15 – 10:30 **Pantazidou M., Boura F., Pitsaki K. and Katsiri A.**  
A methodology for compiling national inventories of contaminated sites: Key decisions and pilot applications in Greece
- 10:30 – 10:45 **Karka P., Tourkolias C. and Diakoulaki D.**  
Estimating the contribution of Greek households to CO<sub>2</sub> emissions using input-output analysis
- 10:45 – 11:00 **Karkalis K., Mancineli R., Di Felice V., Campiglia E. and Arapis G.**  
Use of landscape indicators to assess some agroecological aspects of sustainability in Greece
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Lazar G., Nedeff V., Panainte M., Caraman I., Mosnegutu E., Muraru C., Inglezakis V.J., Zorpas A., Venetis C., and Coutsikos P.**  
A market research for eco-labeled products in Romania
- 11:45 – 12:00 **Zhou J., Chang V. W.-C. and Fane A.G.**  
Marine eco-toxic impact of desalination brine disposal using life cycle assessment (LCA)

- 12:00 – 12:15 **Makropoulos C., Hadjibiros K. and Baki S.**  
Green(ing) Agkistri Island: A three-theme approach
- 12:15 – 12:30 **Ekmekyapar F. and Kilicoz O.**  
The impacts of ports on coastal areas and urbanization and Tekirdag port sample
- 12:30 – 12:45 **Xiouras C., Angelis-Dimakis A., Arampatzis G. and Assimacopoulos D.**  
Environmental and energy assessment of new vehicle technologies in the greater Athens area
- 12:45 – 13:00 **Oikonomou E.K., Zachou E. and Guitonas A.**  
Selection of environmental valuation methods of natural and cultural resources of Strymonikos Gulf with the aim of integrated coastal zone management
- 13:00 – 13:15 **Bojar E., Żelazna-Blicharz A., Bojar M. and Blicharz P.**  
Eco-management in Polish companies
- 13:15 – 13:30 **Nikiforakis I., Stamou A. and Gkesouli A.**  
Modeling of a thermal discharge in the coastal region of Mandoudi, Greece

*Lunch break*

**Session 12**  
**CLEAN ENERGY AND SUSTAINABILITY (1)**

*Friday 9 September 2011 – morning*  
**ROOM "B"**

**Chairs: San Miguel G., Vagiona D.**

- 9:00 – 9:15 **San Miguel G., Makibar J and Fernandez-Akarregi A.R.**  
New advances in the fast pyrolysis of biomass
- 9:15 – 9:30 **Vranay F. Vranayova Z. and Lukasik D.**  
The building of sustainable architecture with a positive balance of energy
- 9:30 – 9:45 **Cosseron A-F., Bennadji H., Leysens G., Coniglio L., Jean Daou T. and Tschamber V.**  
Efficiency of a 4 way catalytic converter towards carbonyl compounds and fine particles emission generated by combustion of biodiesels in a generator
- 9:45 – 10:00 **Ouled Said A., Medaerts F. and Bentahar F.**  
Combustible effects from spark ignition engine in air emissions: Experimental study
- 10:00 – 10:15 **Dodos G.S., Konstantakos T., Longinos S. and Zannikos F.**  
Effects of microbiological contamination in the quality of biodiesel fuels
- 10:15 – 10:30 **Hernández J.J., Barba J. and Aranda-Almansa G.**  
Combustion characterization of producer gas from biomass gasification
- 10:30 – 10:45 **Matijašević L., Dejanović I. and Kovačić G.**  
Simulation and analysis of post-combustion CO<sub>2</sub> capture by absorption
- 10:45 – 11:00 **Karanikolas N., Kyriakou K., Sourianos E. and Vagiona D.**  
Offshore wind power in Europe: perspectives of development in Greece
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Antonopoulou G. and Lyberatos G.**  
Chemical pretreatment of sweet sorghum biomass for hydrogen production
- 11:45 – 12:00 **Sanopoulos D., Ćosić B., Mohsen M.S., Krajačić G. and Duić N.**  
Renewable energy solutions for the regions: Integrated approach to energy and water systems
- 12:00 – 12:15 **Caniani D., Colucci V.D., Mancini I.M., Masi S.**  
Sustainability of wastewater reuse for energy crops irrigation: Treatment schemes for controlled removal

- 12:15 – 12:30 **Stergiopoulou A., Stergiopoulos V., Kalkani E., Chronopoulos C. and Papadopoulou D.**  
Towards a sustainable development of modern archimedean small hydropower plants on Greek hydraulic networks
- 12:30 – 12:45 **Escudero Olano M., Jiménez Álvaro A., López Paniagua I. and Rodríguez Martín J.**  
Use of alternative fuels obtained from renewable sources in Brayton cycles
- 12:45 – 13:00 **Anastopoulos G., Dodos G., Deligiannis A., Chilari D., Karonis D. and Zannikos F.**  
Lewis acid-catalyzed transesterification of waste frying oil
- 13:00 – 13:15 **Esteban M.D., López-Gutiérrez J.S., Diez J.J. and Negro V.**  
Foundations for offshore wind farms
- 13:15 – 13:30 **Radaideh J., Barjenbruch M. and Wriege-Bechthold A.**  
Recovery of renewable energy at wastewater treatment plants
- 13:30 – 13:45 **Rincon S.L. and Gomez A.**  
Comparative behaviour of agricultural biomass residues during thermochemical processing

*Lunch break*

**Session 13**  
**AIR POLLUTION (3) & CLIMATE CHANGE**

*Friday 9 September 2011 – morning*  
**ROOM “C”**

*Chairs: Deligiorgi D.*

- 9:00 – 9:15 **Kouroutzoglou J., Flocas H.A., Simmonds I., Keay K. and Hatzaki M.**  
A climatological study of Mediterranean explosive cyclones employing a high resolution dataset
- 9:15 – 9:30 **Ghasemi H., Yari A., Hadarbadhi Gh. and Malekian A.**  
Drought monitoring using climatic indices and geostatistic technique. Case study: Hossein Abad plain, Sarbisheh, Iran
- 9:30 – 9:45 **Pancucci-Papadopoulou M.A., Corsini-Foka M. and Raitzos D.E.**  
Alien invasions and climatic changes: the South-Eastern Aegean experience
- 9:45 – 10:00 **Yabuki T., Hashiguchi M., Kudo G., Hoshino B. and Kaneko M.**  
A model analysis for the regime shift under climate change in alpine vegetation
- 10:00 – 10:15 **Halios C.H., Nyeki S., Jacovides K. and Matzler C.**  
Seasonal trend analysis of aerosol optical depth in Bern, Switzerland
- 10:15 – 10:30 **Moustris K.P., Zacharia P.T., Larissi I.K., Nastos P.T. and Paliatsos A.G.**  
Cooling and heating degree-days calculation for representative locations within the greater Athens area, Greece
- 10:30 – 10:45 **Mammas K., Anastasiadis S. and Lekkas D.F.**  
Statistical analysis of precipitation indexes and investigation of climate change in Naxos Island
- 10:45 – 11:00 **Karavanas A. and Chaloulakou A.**  
Evaluation of performance of organisations in green house gases mitigation measures . A composite indicators approach
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Diez J.J., Paz R., Esteban M.D., López-Gutiérrez J.S. and Negro V.**  
Coastal urban flood resilience vs climate change
- 11:45 – 12:00 **Arampatzis G., Panagiotakis A., Kampragou E., Manoli E. and Assimacopoulos D.**  
A GIS-based tool for assessing climate change impacts on tourism

- 12:00 – 12:15 **Kalli A., Georgiou P.E. and Papamichail D.M.**  
Water resources management of Paphos irrigation project under climate change scenarios
- 12:15 – 12:30 **Matzarakis A., Endler C. and Nastos P.T.**  
Quantification of climate for tourism and recreation under climate change conditions – the example of Athens
- 12:30 – 12:45 **Kuczumow A. and Nowak J.**  
Estimation of asbestos release from building materials to the air in south-eastern Poland
- 12:45 – 13:00 **Deligiorgi D., Adamantiadou C. and Philippopoulos K.**  
Analysis of ozone ‘weekend effect’ in the Athens basin
- 13:00 – 13:15 **Paul M. and Makame Mbarawa**  
Using waste activated sludge to improve lime reactivity towards desulfurization
- 13:15 – 13:30 **Mehdinia Seyed M. , Puziah Abdul Latif, Ahmad Makmom Abdullah and Hassan Taghipour**  
Comparison of dried activated sludge and mixture of dried activated sludge with rice husk silica as packing material to remove hydrogen sulfide
- 13:30-13:45 **Bereketidou O. and Goula M.A.**  
Simultaneous removal of NO and SO<sub>2</sub> from combustion flue gases using supported copper oxide catalysts

#### Session 14

#### SOLID WASTE MANAGEMENT (1)

*Friday 9 September 2011 – morning*  
**ROOM “D”**

*Chairs: Lasaridi K., Komilis D.P.*

- 9:00 – 9:15 **Shamini K, Fauziah S.H. and Emenike C.U.**  
Vermicomposting of spent tea: a sustainable approach for solid waste management
- 9:15 – 9:30 **Savic D., Karabas S., Kostic M., Mihajlov A. and Marjanovic P.**  
Waste soil and sludge: new management perspective within the transition countries and the infrastructure needs
- 9:30 – 9:45 **Montasser W., Thomas G., Holley K. and Bates M.**  
Waste management and hotels in Rhodes, Greece: An overview
- 9:45 – 10:00 **Zazouli M.A., Zabiollah Yousefi, Akbar Eslami and Maryam Bagheri Ardabilian**  
Optimizing the old leachate treatment of municipal solid waste by Fenton, Photo-Fenton and Fenton-like processes
- 10:00 – 10:15 **Tomei M.C., Annesini M. C. and Daugulis A. J.**  
Used tires and commercial polymers as the partitioning phase in solid-liquid TPPBs (Two Phase Partitioning Bioreactors) applied to xenobiotic removal
- 10:15 – 10:30 **Koumaki E.S., Mantziaras I.D., Katsiri A., Veliou E. and Klini M.**  
Treatment of landfill leachate by adsorption on powdered (PAC) and granular (GAC) activated carbon
- 10:30 – 10:45 **Sir M., Honzajková Z., Podhola M., Patočka T., Kocurek P., Bystrianský M., Kubal M. and Kuraš M.**  
Treatment of leachate from ash disposal site by reverse osmosis
- 10:45 – 11:00 **Papaconstantinou C.M., Samaras Ch., Samara C., Grigoratos Th., Lazarou D. and Georgakopoulos A.**  
Leachate composition and mobility study in a landfill site of northern Greece
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Papaconstantinou C.M., Georgakopoulos A., Gialamas V., Papaconstantinou M.C., Georgakopoulou M.A. and Papaconstantinou K.C.**  
Geochemical and hydrogeological investigation in a landfill site of Northern Greece

- 11:45 – 12:00 **Ioannou T., Zampetakis L.A., Beligianni A., Nakou O. and Lasaridi K.**  
An analysis of household waste recycling behavior
- 12:00 – 12:15 **Nowak J., Nowak D., Czarnocki K., Gorajek W. and Kuczumow A.**  
Investigative study for the use a special repository in active underground coal mine Bogdanka in Eastern Poland as an alternative disposal site for asbestos containing wastes
- 12:15 – 12:30 **Salem Z. and Allia K.**  
Landfill leachate evaluation and combined treatment process
- 12:30 – 12:45 **Chatzouridis K. and Komilis D.P.**  
A methodology to optimize the siting of municipal solid waste transfer stations: A case study in the region of Eastern Macedonia-Thrace in Greece
- 12:45 – 13:00 **Oikonomou E.K. and Guitonas A.**  
Environmental impact identification with the aid of weighted matrices: Implementation in waste management of Imathia regional department
- 13:00 - 13:15 **Singh R. and Saxena R.**  
Efficacy of microbes for organic waste management

*Lunch break*

### **Session 15**

#### **WASTEWATER TREATMENT (3)**

*Friday 9 September 2011 – afternoon*

**ROOM "A"**

**Chairs: Mamais D., Jiang J.-Q.**

- 17:00 – 17:15 **Luo H., Liu X., Huang B., Zhang K., Liang J. and Li M.**  
Wastewater treatment of secondary pollution from drilling well in gas field
- 17:15 – 17:30 **Fongsatitkul P., Wareham D.G. and Elefsiniotis P**  
Industrial wastewater treatment by SBRS: influence of long SRTs, non-aerated period and organic load on system performance
- 17:30 – 17:45 **Tünay O., Olmez-Hanci T., Kabdaşlı I. and Coşkun B.**  
Evaluation of the optimal operation conditions using response surface methodology for the aqueous DMP solution by electrocoagulation
- 17:45 – 18:00 **Carney K., Rodgers M., Lawlor P.G. and Zhan X.**  
Treatment of piggy anaerobic digestate liquid using woodchip biofilters
- 18:00 – 18:15 **Acheampong M.A., Meulepas R.J.W. and Lens P.N.L.**  
Characterisation of the process effluent of AngloGold Ashanti gold mining company in Ghana
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Grubb D.G., Wazne M. and Jagupilla S.C**  
Metals immobilization rates using steel slag fines
- 19:00 – 19:15 **Grubb D.G., Wazne M. and Jagupilla S.C.**  
Leaching of immobilized arsenic from steel slag fines
- 19:15 – 19:30 **Jiang J.-Q., Stanford C. and Mollazeinal A.**  
The application of ferrate for sewage treatment: pilot - to full- scale trials
- 19:30 – 19:45 **Neczaj E., Madela M., Krzeminska D., Worwag M. and Kamizela T.**  
Treatment of fibreboard wastewater by combined ultrasound, membrane bioreactor and activated carbon process
- 19:45 – 20:00 **Zervakis G. I., Ntougias S., Ouzounidou G. and Gaitis F.**  
Treatment of two-phase olive mill wastes through commercial-scale composting and evaluation of the end-product for agricultural use

**Session 16****CLEAN ENERGY AND SUSTAINABILITY (2)***Friday 9 September 2011 – afternoon***ROOM “ B”****Chairs: Badreddin E., Assimacopoulos D.**

- 17:00 – 17:15 **Gambier A. and Badreddin E.**  
A robust control approach for a reverse osmosis desalination plant, powered by renewable energy sources
- 17:15 – 17:30 **Karaki S., Moussa S., Naboulsi T.E. and Chkeir A.**  
Electric supply of a remote village using a fuel system and hydrogen technology
- 17:30 – 17:45 **Kandil A.A. and Badreddin E.**  
Optimal design of off-grid reverse osmosis desalination unit operated by hybrid PV/Wind/Diesel power plant
- 17:45 – 18:00 **Garcia-Alvarez D., Palacin L.G., Salazar J., Tadeo F. and De Prada C.**  
Control of a desalination plant, including U-PCA-based monitoring
- 18:00 – 18:15 **Kartalidis A., Georgopoulou M., Arampatzis G., Assimacopoulos D.**  
Desalination in greek islands by using RES
- 18:15 – 18:45 *Coffee break*

**Session 17****ECOLOGY (2)***Friday 9 September 2011 – afternoon***ROOM “ B”****Chairs: Matsinos Y.G., Tsiros I.X.**

- 18:45 – 19:00 **Mavrogiorgos D., Pavlidis F. A., Evergetis E., Theodoridis N., Balatsouka K. and Arapis G.**  
A novel post-fire management policy tool – the case of the Attaviros natura 2000 site in Rhodes (GR4210005)
- 19:00 – 19:15 **Adeofun C.O., Oyedepo J.A and Ogunsesan A.A.**  
Assessment of human perturbation of Nigerian terrestrial ecosystems
- 19:15 – 19:30 **Stancu M.M.**  
Mechanisms of solvent tolerance in marine bacteria
- 19:30 – 19:45 **De Lafontaine Y., Gagnon P. and Hudon C.**  
The decline in American eel (*Anguilla Rostrata*) and hydro-climatic changes in the St. Lawrence River, Canada
- 19:45 – 20:00 **Petoussi M.A., Koukaras K. and Kalogerakis N.**  
A simple mathematical model for real-time prediction of harmful algal blooms in Greece
- 20:00 – 20:15 **Hadjibiros K., Katsiri A., Koukouvinos A., Moutafis N. and Vilandou G.**  
Sustainable water management for a large-scale tourist facility

**Session 18****HEALTH AND ENVIRONMENT**

*Friday 9 September 2011 – afternoon*  
**ROOM “C”**

*Chairs: Voice T.C., Blum A.*

- 17:00 – 17:15 **Calleja J.A., Gutierrez F. and Colón C.**  
Impact from road transport of radioactive wastes in Spain
- 17:15 – 17:30 **Fulop D.D., Rusu T. and Bodea T.**  
Risk assessment method regarding to environmental impact and safety and health of workers
- 17:30 – 17:45 **Sturchio E., Napolitano P., Beni C. and Mecozzi M.**  
Evaluation of arsenic effects in *Vicia faba* by FTIR and FTNIR spectroscopy
- 17:45 – 18:00 **Sobanska S., Uzu G., Schreck E., Choel M., Moreau M., Nuns N., Barbillat J. and Dumat C.**  
Foliar lead uptake by lettuce exposed to atmospheric fallouts: a combined Raman and TOF-SIMS imaging study for a localized lead speciation
- 18:00 – 18:15 *Coffee break*
- 18:15 – 18:45 **Schreck E., Foucault Y., Sobanska S., Sarret G., Bonnard R. and Dumat C.**  
Comparison of foliar lead uptake and absorption mechanisms by various plant species
- 18:45 – 19:00 **Santoro A., Ricci M., Tumba-Tshilumba M.-F. and Held A.**  
Certifying a reference material for trace metal analysis in human hair: from collection to certification
- 19:00 – 19:15 **Wong K., Voice T.C. and Xagorarakis I.**  
The effect of organic matter on sorption of human adenovirus to soil particles
- 19:15 – 19:30 **Voice T.C., Yin Z., Qi J. and Long D.T.**  
Spatial analysis of the environmental disease Balkan endemic nephropathy
- 19:30 – 19:45 **Papadimitriou Th., Stampouli Z. and Kagalou If.**  
Preliminary results on the cyanotoxicity in the “New” Lake Karla (Thessaly-Greece)
- 19:45 – 20:00 **Ocipova D. and Vranayova Z.**  
*Legionella pneumophila*: risk management methods for human health protection
- 20:00 – 20:15 **Blum A., Shaw S. and Babrauskas V.**  
Halogenated flame retardants in consumer products: Do the fire safety benefits justify the hazards?

**Session 19****SOLID WASTE MANAGEMENT (2) & SOIL**

*Friday 9 September 2011 – afternoon*  
**ROOM “D”**

*Chairs: Dermatas D., Long D.T.*

- 17:00 – 17:15 **Bartzis I., Kondili E. and Kaldellis J.K.**  
Investigation of energy production by the utilization of municipal solid wastes in Greece
- 17:15 – 17:30 **Mavroulidou M., Murawski M. and Hussain A.H.**  
Properties of concrete with low energy demanding binders
- 17:30 – 17:45 **Sahraei-Nezhad F. and Richards T.**  
Gasification and incineration of municipal solid wastematerial and production of renewable fuel, a review

- 17:45 – 18:00 **Mavroulidou M., Candengue D. and Ramachandran S.**  
Use of glass cullet aggregate in concrete with binders preventing alkali-silica reaction
- 18:00 – 18:15 *Coffee break*
- 18:15 – 18:45 **Bianchi V., Iannelli R., Ceccanti B. and Masciandaro G.**  
Managing of dredged sediments applying a non-conventional technique
- 18:45 – 19:00 **Mitchell S.B. and Uncles R.J.**  
Fine sediment regimes of two UK macrotidal estuaries
- 19:00 – 19:15 **Sirbu-Radasanu D.S., Buzgar N., Kasper H.U. and Ionesi V.**  
Arsenic in topsoil of the city of Iasi (NE Romania)
- 19:15 – 19:30 **Chițimuş A-D, Nedeff V. and Lazăr G.**  
Studies and researches on the influence of soil apparent density in the process of cleaning and auto-cleaning
- 19:30 – 19:45 **Long D.T., Marsh T.L., Voice T.C., Fett J.D. and Yohn S.S.**  
Effect of post depositional metal mobility on the intrinsic remediation of a contaminated lake
- 19:45 – 20:00 **Khodaei H.R., Mikaeili Tabrizi A. and Daryabeigi Zand A.**  
Ability of common flax and tall fescue to grow in crude oil-contaminated soil and their phytoremediation potential

**Session 20**  
**ECOLOGICAL IMPORTANCE OF SOLAR SALTWORKS**

*Friday 9 September 2011 – afternoon*  
**ROOM “E”**

*Chairs: Korovessis N., Davis J.S., Petanidou Th.*

- 17:00 – 17:15 **Rocha R.M., Costa D.F.S., Xavier-Filho L., Lucena-Filho M.A., Bezerra R.M., Medeiros D.H.M., Azevedo-Silva A.M. and Araújo C.N.**  
Brazilian solar saltworks – ancient uses and future possibilities
- 17:15 – 17:30 **Costa D.F.S., Rocha R.M., Candido G. A. and Vieira M.N.R.**  
Relationship of salinity with saltpond area and water for salt production in Brazilian semiarid shoreline
- 17:30 – 17:45 **Hueso K. and Petanidou T.**  
Characterisation and evaluation of European salt museums: how to show the importance of salt to others
- 17:45 – 18:00 **Sui L.Y., Van Stappen G., Liu W.L., Wang X.K. and Sorgeloos P.**  
Impact of desalination effluents on the salt pond ecosystem and potential recovery strategy
- 18:00 – 18:15 **Davis J.S.**  
Sustainable and economic manufacture of high quality solar salt at design capacity under continuous high nutrient intake
- 18:15 – 18:45 *Coffee break*
- 18:45 – 19:00 **Korovessis N.**  
Solar Saltworks and coastal laggons. Similarities and differences
- 19:00 – 19:15 **Séjourné S.**  
The Salins Group, a salt company committed to European biodiversity protection
- 19:15 – 19:30 **Shusheng Li, Zhao Shufang, Zhou Xiuyun and Li Hong**  
The analysis on the existing condition of salt field of Changlu sea salt area in the North of China

**Session 21****WASTEWATER TREATMENT (4)**

*Saturday 10 September 2011 – morning*  
**ROOM “A”**

**Chairs: Stamou A., Noutsopoulos C.**

- 9:00 – 9:15 **Papastergiou F., Pantelidou C., Tasoula A. and Pechlivanidis G.I.**  
The use of chemical parameters as indicators for monitoring environmental water leakage
- 9:15 – 9:30 **Bârsan N., Nedeff V. and Lazar G.I.**  
Studies and research for increasing treatment capacity of domestic wastewater in small plants
- 9:30 – 9:45 **Landi M., Naddeo V. and Belgiorno V.**  
Membrane ultrafiltration enhanced by ultrasound: effect of different frequencies on fouling control
- 9:45 – 10:00 **Zarra T., Giuliani S., Naddeo V. and Belgiorno V.**  
Odour impact evaluation from wastewater treatment plant
- 10:00 – 10:15 **Ricco D., Mc Adam E., Naddeo V., Jefferson B. and Belgiorno V.**  
Crossflow membrane filtration: polysaccharides fouling mechanisms
- 10:15 – 10:30 **Kianmehr P., Parker W. and Seto P.**  
Characterizing anaerobic biodegradability of WAS using BAP tests
- 10:30 – 10:45 **Koseoglu-Imer D.Y., Dizge N., Karagunduz A. and Keskinler B.**  
Comparison of biofouling characteristics of different type and pore size of submerged microfiltration membranes using jet loop membrane bioreactor (JLMBR) activated sludge
- 10:45 – 11:00 **Athanasoulia E., Melidis P. and Aivasidis A.**  
Optimisation of biogas production from waste activated sludge through serial digestion
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Ofverstrom S., la Cour Jansen J. and Dauknys R.**  
Impact of iron salts dosing on anaerobic digestion process and stuvite/vivianite formation: a review
- 11:45 – 12:00 **Noutsopoulos C., Mamais D., Antoniou K. and Avramides C.**  
Increase of biogas production through co-digestion of lipids and sewage sludge
- 12:00 – 12:15 **Grilo A.M., Ramos C.G., Sousa S.A., Arroja L.G., Capela I.F., Leitão J.H., Nadais H.G.**  
Microbial population shifts as a tool for improving biogas production in anaerobic reactors
- 12:15 – 12:30 **Stamou A.I., Kamizoulis G. and Gkesouli A.**  
Facing the impacts of extreme weather events on sanitation systems in Greece
- 12:30 – 12:45 **Kungolos A., Legos S., Emmanouil C. and Tsiridis V.**  
Application of bioassays for the ecotoxicity evaluation of sewage sludge collected from municipal wastewater treatment plants
- 12:45 – 13:00 **Neczaj E., Bien J., Grosser A., Worwag G. and Kacprzak M.**  
Anaerobic treatment of sewage sludge and grease traps sludge in continuous co-digestion
- 13:00 – 13:15 **Sheridan C., Glasser D. and Hildebrandt D.**  
A calculation of the hydraulic properties of a vegetated gravel bed filter using an impulse tracer to quantify non-ideal behaviour
- 13:15 – 13:30 **Ailincai C., Jitareanu G., Bucur D., Ailincai D. and Raus L.**  
Agronomic and Environmental impacts of sewage sludge applied to arable land

**Session 22****HYDROLOGY & WATER RESOURCES (3) Water management / Water quality****Saturday 10 September 2011 – morning****ROOM "B"****Chairs: Karavitis C., Kolokytha E.G.**

- 9:00 – 9:15 **Tsarouchi G.M., Safiolea E., Makropoulos C. and Mimikou M.**  
Assessing the impact of forest fires on flood risk: an integrated modeling approach
- 9:15 – 9:30 **Zakikhani M., Harrelson D.W., Kissane J.A., Allis M.K., Kolber J., and Tom J.G.**  
Development of field, laboratory, and numerical tools to optimize the protection of Great Lakes coastal navigation areas in USA
- 9:30 – 9:45 **Karavitis C.A., Skondras N.A., Manoli E. and Assimacopoulos D.**  
Assessing Alternative Water Resources Management Scenarios in Islands of the Aegean Archipelago, Greece
- 9:45 – 10:00 **Kallikazarou N.I., Kolokytha E.G., Traikapi E.K. and Mylopoulos Y.A.**  
Water resources management and climate change in Kalymnos Island. Time to adapt
- 10:00 – 10:15 **Yannopoulos S.I., Grivaki G., Giannopoulou I., Basbas S. and Oikonomou E.K.**  
Environmental impacts and best management of urban stormwater runoff: measures and legislative framework
- 10:15 – 10:30 **Kondili E., Papapostolou C. and Kaldellis J.K.**  
Technical and economic evaluation of water reuse from wastewater treatments plants
- 10:30 – 10:45 **Metallinos A. and Hrissanthou V.**  
Regression relationships between sediment transport rate and water discharge for Nestos River, Greece
- 10:45 – 11:00 **Panagopoulos Y., Makropoulos C. and Mimikou M.**  
Decision support for agricultural water management
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Damikouka I. and Katsiri A.**  
Comparative study for the assessment of heavy metal mobility in marine sediments
- 11:45 – 12:00 **Dvořáková T. and David V.**  
Hydrologic regime assessment for purposes of total phosphorus flux calculation
- 12:00 – 12:15 **Kukučka M., Kukučka N. and Šiljeg M.**  
Influence of the extremely high specific flow rates on Arsenic removal from groundwater using macroporous resin: A pilot plant study in Northern Serbia
- 12:15 – 12:30 **Siarkos I., Katirtzidou M. and Latinopoulos D.**  
Establishing cost-effective wellhead protection zones to control nitrate pollution from agriculture activities
- 12:30 – 12:45 **Anastasiou Ch.C. and Panayiotou Ch.**  
Strengthening the scientific foundation of water quality programs in Cyprus; decision assist models for the Larnaca salt lakes
- 12:45 – 13:00 **Dadaser-Celik F., Celik M. and Dokuz A.S.**  
Associations between stream flow and climatic variables at Kizilirmak river basin in Turkey

**Session 23****EMERGING POLLUTANTS. Occurrence and fate of Emerging contaminants in municipal wastewater treatment systems**

**Saturday 10 September 2011 – morning**  
**ROOM “C”**

**Chairs: Mamais D., Stasinakis A., Thomaidis N.**

- 9:00 – 9:15 **Thomaidis N.S., Stasinakis A.S., Mamais D., Samaras V.G., Iatrou E., Asimakopoulos A., Arvaniti O.S., Ajibola A., Ventouri E.I. and Lekkas T.D.**  
Occurrence and fate of emerging contaminants in sewage treatment plant of Athens
- 9:15 – 9:30 **Arvaniti O.S., Ventouri E. I., Dasenaki M.E., Stasinakis A.S. and Thomaidis N.S.**  
Determination of perfluorinated compounds by LC-MS/MS and evaluation of their fate in two Greek wastewater treatment plants
- 9:30 – 9:45 **Kunacheva C., Tanaka S., Fujii S., Nozoe M., Suzuki Y. and Shivakoti B.R.**  
Occurrences of Solid and Liquid Phase Perfluorinated Compounds (PFCs) in Wastewater Treatment Plant in Shiga, Japan
- 9:45 – 10:00 **Hapeshi E., Gros M., Lopez-Serva R., Boleda M.R., Ventura F., Petrovic M., Barcelo D. and Fatta-Kassinos D.**  
Investigating the occurrence and fate of licit and illicit drugs in urban wastewater treatment plants in Cyprus
- 10:00 – 10:15 **Teijon G., Candela L., Cabeza Y. and Tamoh K.**  
Emerging contaminants in treated wastewater and groundwater after a three years monitoring period. The Baix Llobregat (Barcelona, Spain)
- 10:15 – 10:30 **Galletti A., Verlicchi P., Al Aukidy M., Petrovic M. and Barcelò D.**  
Hospital as a source of emerging contaminants (pharmaceuticals): results of an investigation on its final effluent chemical characteristics
- 10:30 – 10:45 **Albero B., Pérez R.A., Sánchez-Brunete C. and Tadeo J.L.**  
Occurrence of parabens in municipal sewage sludge from wastewater treatment plants in Madrid
- 10:45 – 11:00 **Martin J., Camacho-Muñoz D., Santos J.L., Aparicio I. and Alonso E.**  
Distribution of pharmaceutically active compounds alongside wastewater treatment. environmental risk of wastewater discharges and sludge disposal
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Dolar D., Gros M., Rodriguez-Mozaz S., Moreno J., Comas J., Rodriguez-Roda I. and Barceló D.**  
Removal of emerging contaminants from municipal wastewater with integrated membrane system, MBR-RO
- 11:45 – 12:00 **Bartha B., Huber C. and Schröder P.**  
Removal and metabolism of paracetamol (acetaminophen) from waste water – Options for phytotechnologies
- 12:00 – 12:15 **Reif R., Winkler G., Stephenson T., Omil F., Lema J.M. and Judd S.J.**  
Towards a better understanding of PPCPs removal mechanisms on membrane bioreactors
- 12:15 – 12:30 **Boonyaroj V., Chiemchaisri C., Chiemchaisri W. and Yamamoto K.**  
Removal of emerging micropollutants from landfill leachate in membrane bioreactor
- 12:30 – 12:45 **Collado N., Buttiglieri G., Kolvenbach B., Comas J., Corvini P. and Rodríguez-Roda I.**  
Is proteomics reliable to investigate microcontaminant degradation in wastewater?
- 12:45 – 13:00 **Simmons F. and Xagorarakis I.**  
Fate of viruses in wastewater utilities

**Session 24****WATER TREATMENT AND RECLAMATION****Saturday 10 September 2011 – morning****ROOM "D"****Chairs: Andrzejewski P., Gutierrez F.**

- 9:00 – 9:15 **Gharaibeh S., Nawasreh M. and Abu-Safa A.**  
Pretreatment of surface and ground water mixtures at Deir Alla Station-Jordan, using low cost powders of nonmetallic raw materials
- 9:15 – 9:30 **Foglar L. and Kljajić M.**  
The interaction of zeolite and bacterial cells for denitrification of the cetina surface water
- 9:30 – 9:45 **He Y., Li F., Jiang J-Q. and Wang H.**  
Preparation and application of polyferric sulfate in drinking water treatment
- 9:45 – 10:00 **Jiang J-Q., Xu Y.L. and Mwabonje O.N.**  
Removing algae with electrocoagulation (EC)
- 10:00 – 10:15 **Bulskaya I. and Gitenev B.**  
Coagulation with oxidative treatment of humic substances in surface water
- 10:15 – 10:30 **Țițoacă I.O., Nedeff V. and Lazăr G.**  
Studies and researches viewing the influence of granular particle's shape from the filter layer during water's filtering process
- 10:30 – 10:45 **Anagnostopoulos V.A., Bourikas K. and Symeopoulos B.D.**  
Brewery by-products as low cost sorbents for uranium removal from aquatic systems
- 10:45 – 11:00 **Bojić D., Mitić-Stojanović D.-L., Anđelković T., Kocić B. and Bojić A.Lj.**  
Biosorptive removal of Zinc from aqueous solution
- 11:00 – 11:30 *Coffee break*
- 11:30 – 11:45 **Tawabini B., Al-Mutair M., Bukhari A. and M-ur-Rahman M.**  
The formation of hazardous disinfection by-products (DBPs) in blended water when treated with chlorine or chlorine dioxide
- 11:45 – 12:00 **Ghoochani M., Rastkari Nooshin, Nazmara Shahrokh, Amir Hossein Mahvi and Ramin Nabizadeh Nodehhi**  
Survey on the concentration of Halo acetic acids in Tehran drinking water
- 12:00 – 12:15 **Andrzejewski P., Fijolek L. and Szweda F.**  
Possible nitrosodimethylamine (NDMA) precursors in water
- 12:15 – 12:30 **Smeti E.M. and Golfinopoulos S.K.**  
Multivariate statistical analysis of raw surface water intended for human consumption. A case study: the Mornos reservoir (Greece)
- 12:30 – 12:45 **Samios S., Golfinopoulos S. and Lekkas T.D.**  
A survey on the occurrence and stability of haloacetamides in chlorinated water
- 12:45 – 13:00 **Babi K.G., Koumenides K.M., Nikolaou A.D., Makri C.A. and Lekkas T.D.**  
Pilot study of the removal of individual trihalomethanes (THMs) from chlorinated drinking water by PAC adsorption - Galatsi water treatment plant, Athens, Greece
- 13:00 – 13:15 **Christia C., Bizani E., Christophoridis C. and Fytianos K.**  
Determination of pesticide residues in fruit samples originated from Greece. Study and optimization of quechers method using LC- MS/ MS analysis
- 13:15 – 13:30 **Baiysbay O.P., Satayev M.I., Shakirov B.S., Altynbekov R.F. and Yeskendirov M.I.**  
Membrane methods of surface and underground water purification

**Session 25****WASTEWATER TREATMENT (5)****Saturday 10 September 2011 – afternoon****ROOM “A”****Chairs: Kungolos A.**

- 17:00 – 17:15 **Lolos T., Tsompanidis C., Lolos G., Tavoularis G. and Raptis C.**  
A successful case study of the integrated wastewater treatment plant at Marathounta landfill in Cyprus
- 17:15 – 17:30 **Hua Z., Xu L., Liu F., Zhao S. and Sun Z.**  
Application of BFBS in reclaimed water treatment techniques
- 17:30 – 17:45 **Fatarella E., Cioni I., Heyer M. and Loschi I.**  
Efficient wastewater management in textile industry through combined ultrafiltration/ultrasound process
- 17:45 – 18:00 **Pathania D.**  
Removal and recovery of copper ions from the aqueous solution using low cost adsorbent
- 18:00 – 18:15 **Angelakis A.N.**  
Water and Wastewater Management in Ancient Greek Civilizations: Lessons and legacies
- 18:15 – 18:45 *Coffee break*

**Session 26****ENVIRONMENTAL MANAGEMENT – ENVIRONMENTAL SUSTAINABILITY (2)****Saturday 10 September 2011 – afternoon****ROOM “B”****Chairs: Diakoulaki D., Alp E.**

- 17:00 – 17:15 **Calicioglu O., Hepgunes E., Finart F. and Alp E.**  
Public perception and willingness to pay analysis for the improved water quality in Ankara, Turkey
- 17:15 – 17:30 **Kanakoudis V., Tsitsifli S. and Papadopoulou A.**  
Carbon and water footprints in the urban water supply chain: two neglected parts of the full water services cost focusing on the water losses
- 17:30 – 17:45 **Quijorna N., San Miguel G. and Andrés A.**  
Environmental assessment of the incorporation of Waelz slag into clay-based ceramic construction materials
- 17:45 – 18:00 **Phaneuf M.O., Ansoberlo E. and Meyer L.**  
Environmental impact benchmarking applicable for nuclear energy systems under normal operation
- 18:00 – 18:45 *Coffee break*

**Session 27****CLOSING SESSION****Saturday 10 September 2011 –afternoon****HALL “MARICA CAPSIS”****Chairs: Helmis C.G., Lekkas T.D.**

- 18:45 – 19:30 **Discussion**
- 19:30 – 20:00 **Chairman’s conclusions**
- 21:00 *Official Dinner*

## POSTER PRESENTATIONS

Thursday 8 September 2011

### A. AIR POLLUTION - CLIMATE CHANGE – ECOLOGY – SOIL - BIOMONITORING

- A1 **Giannakopoulos C., Hatzaki M., Kostopoulou E., Varotsos K., Psiloglou B.E. and Founda D.** CLIM-AIR<sup>1</sup>  
Estimating future impacts for various sectors due to climate change in Athens
- A2 **Jahani D., Karimpourreihan M. and Sharafi N.** CLIM-AIR  
Characteristics and genesis of sand dunes around the Garmsar playa, Northern Iran
- A3 **Jubeh G. and Mimi Z.** CLIM-AIR  
Governance and climate vulnerability index
- A4 **Katavoutas G., Theoharatos G., Denaxa D. and Samos I.** CLIM-AIR  
Weather bioclimatic classification in the greater Aegean Archipelagos
- A5 **Khan S.U., Mahmoo-UI-Hasan and Muhammad Aslam Khan** CLIM-AIR  
Precipitation fluctuation of the arid region in Pakistan
- A6 **Monemjoo A., Ghara Ghozlu A., Alijani B. and Ziaee A.** CLIM-AIR  
Climate change and modeling its influence on sustainable development of thermal power plants in Iran
- A7 **Pantavou K., Chatzi E. and Theoharatos G.** CLIM-AIR  
Mean skin temperature and mean radiant temperature- measured and compared with a theoretical model
- A8 **Pantavou K., Mavrakis A., Padadatos P., Vavvas D., Chatzi E. and Makrygiannis G.** CLIM-AIR  
A study of ground surface temperature variations in central spots of Athens
- A9 **Pawar S.D.** CLIM-AIR  
Measurement of indoor and outdoor air ion variability at rural station Ramanandnagar (17° 4' N, 74° 25'E), India
- A10 **Sgouros G., Helmis C.G. and Degleris J.** CLIM-AIR  
The influence of mesoscale flows on the characteristics of mixing height over a coastal Mediterranean area
- A11 **Vasilaki A.** CLIM-AIR  
Exploring the linkages between climate change and security
- A12 **Adefeso I.B., Sonibare J.A. and Akeredolu F.A.** CLIM-AIR  
Outdoor-Indoor exchange of carbon monoxide from an outdoor source
- A13 **Boor H., Mohamadirad R., Shahram R. and Hamledar O.** CLIM-AIR  
CO<sub>2</sub> capture and sequestration potential in Iranian industries
- A14 **Callen M.S., López J.M. and Mastral A.M.** CLIM-AIR  
Carcinogenic character of airborne PM10 regarding PAH in Spanish areas. Influence of the meteorological conditions
- A15 **Divrikli U., Akdogan A., Soylak M. and Elçi L.** CLIM-AIR  
Trace heavy metal concentrations in street dust samples from Denizli city center, Turkey
- A16 **Georgiou A., Kontos T., Soulakellis N. and Tombrou M.** CLIM-AIR  
Development of a standalone platform, for visualization and statistical analysis of air quality data: The case study of Athens basin

<sup>1</sup> CLIM-AIR: Climate change - Air pollution

A17	<b>Iordanidis A., Buckman J., Triantafyllou A.G. and Asvesta A.</b> Heavy metals in airborne particulate matter from an industrialized area of northern Greece	CLIM-AIR
A18	<b>Kalligeros S., Karonis D., Melanitis N., Zannikos F. and Lois E.</b> The prespective of use biofuel in the marine sector	CLIM-AIR
A19	<b>Mantelis N., Zafirakis D., Spyropoulos G.C. and Kaldellis J.K.</b> Critical evaluation of the second national allocation plan concerning the control of CO <sub>2</sub> emissions in Greece	CLIM-AIR
A20	<b>Mina M., Cheristanidis S. and Chaloulakou A.</b> Size-segregated particle concentration levels in the Athens area. Indoor and outdoor exposure assesment.	CLIM-AIR
A21	<b>Pawlowski L., Wasag H. and Soldatov V.S.</b> Filters with fibrous ion exchangers for air treatment	CLIM-AIR
A22	<b>Petrakis M., Roukounakis N., Gerasopoulos E., Psiloglou B., Lykoudis S. and Kopania T.</b> Use of alternative fuels for the improvement of air quality from the transport sector: The case of Eastern Attica	CLIM-AIR
A23	<b>Rizou D., Jacovides C. P. and Sgouros G.</b> Spatial and temporal variability of aerosol optical properties in the greater Athens urban area	CLIM-AIR
A24	<b>Spyropoulos G.C., Emmanouilidis M. and Kaldellis J.K.</b> Investigating the long-term environmental performance of the Greek electricity sector on the basis of SO <sub>2</sub> emissions	CLIM-AIR
A25	<b>Sze-Hwee Ho, Victor W.-C. Chang and Yiik-Diew Wong</b> Keeping the air clean for city's dwellers: Land transport policies	CLIM-AIR
A26	<b>Wasag H., Pawlowski L. and Soldatov V.S.</b> Air deodorization by means of fibrous ion exchangers	CLIM-AIR
A27	<b>Poulopoulos S.G., Korologos C.A. and Philippopoulos C.J.</b> Photocatalytic oxidation of benzene, toluene, ethylbenzen and m-xylene in the gas phase	CLIM-AIR
A28	<b>Adomas B., Piotrowicz-Cieślak A.I., Nałęcz-Jawecki G. and Michalczyk D.J.</b> Phytotoxicity of enrofloxacin soil pollutant to narrow-leaved lupin plant	ECO <sup>2</sup>
A29	<b>Dimitriadou S.D., Tsitsoni T.K. and Papadopoulou D.S.</b> Silviculture contributions towards the enhancement of recreational values of a chestnut grove	ECO
A30	<b>Droulia F.E., Matsoukis A.S., Chronopoulou-Sereli A.G., Giannopolitis C.N. and Tsiros I.X.</b> A study of the role of micrometeorological conditions on uptake of 3,4-dichloroaniline in maize	ECO
A31	<b>Karimi F., Mozghan Sepehri, Majid Afyuni and M. Ali Hajabbasi</b> Role of Piriformospora indica in barley ( <i>Hordeum vulgare L.</i> ) resistance to Cadmium, Lead and Copper	ECO
A32	<b>Karimpour M. and Kianian M. Kia</b> Studying Iranian Playas biodiversity, geomorphology units, facies and factors inducing salinity. Case study: Sirjan Playa	ECO
A33	<b>Kianian M. Kia, Salehpourjam A. and Karimpour M.</b> Arid Ecosystems Management and Sustainability: studying effective factors on halophyte plants presentation in playa by statistical relations for further carbon sequestration. Case study: Sirjan Playa, Iran.	ECO

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<sup>2</sup> ECO: Ecology

A34	<b>Mavrakis A.</b> Ecosystems and land use changes in Thriassion plain – Greece: current situation and perspectives	ECO
A35	<b>Mimides T.</b> Modelling the transport and fate of carbon and nutrients to the aquatic ecosystems of Lake Koumoundourou, Greece	ECO
A36	<b>Pantera A. and Papanastasis V.P.</b> Competitive effects of herbaceous species on water potential and growth of <i>Quercus ithaburensis</i> ssp. <i>macrolepis</i> seedlings	ECO
A37	<b>Papadopoulos A.M., Fotiadis G., Pantera A., Mertzanis A., Raftoyannis Y. and Goudelis G.</b> Roadside forest vegetation in the Ilia prefecture (W. Peloponnesus, Greece) after the devastating fires of 2007	ECO
A38	<b>Piotrowicz-Cieślak A.I., Adomas B., Nałęcz-Jawecki G. and Michalczyk D.J.</b> Phytotoxicity of sulfonamides soil pollutant to legume plant species	ECO
A39	<b>Sargentis G.F., Symeonidis V. and Symeonidis N.</b> Rules and methods for the development of a prototype landscape (Almyro) in north Evia by the creation of a thematic park	ECO
A40	<b>Amouei A.I., Mahvi A.H., Naddafi K. and Tahmasbizadeh M.</b> Study of heavy metals (Pb, Cd, Zn) concentration in the industrial, agricultural areas and high way soils of Amol and Babol (Iran)	SOIL
A41	<b>Daryabeigi Zand A., Khodaei H.R., Nabibidhendi G.R. and Mehrdadi N.</b> Rhizoremediation of total petroleum hydrocarbons (TPHs) under the effect of plant species in Iran	SOIL
A42	<b>Engin E., Santoro A., Ricci M. and Held A.</b> Selective determination of total Hg in soil and sewage sludge by using the hydrea system: removing Hg memory effects	SOIL
A43	<b>Ferreira V. and Panagopoulos T.</b> Predicting risk of soil erosion at the Alqueva dam watershed	SOIL
A44	<b>Ryan C.H., Toor N.S., Gillis H.M., Zuin L. and Headley J.V.</b> Identification of boron in naphthenic acids derived from oil sands process-affected waters using X-ray absorption near-edge spectroscopy	SOIL
A45	<b>Samriti and Beena Kumari</b> Persistence of cypermethrin and chlorpyrifos in soil under okra crop following application of pre-mix formulation	SOIL
A46	<b>Daley R. and Blum A.</b> Understanding the role of California flammability standard TB117 in the history of flame retardant biomonitoring and health findings	BIOMON <sup>3</sup>
A47	<b>Corada-Fernández C., Lara-Martín P.A., Candela L. and González-Mazo E.</b> Surfactants as tracers for identifying treated and untreated wastewater discharge sources in aquatic environments	EMERG <sup>4</sup>
A48	<b>Iatrou E.I., Stasinakis A.S. and Thomaidis N.S.</b> Estimation of potential environmental risks associated within human antibiotic consumption in two regions of Greece	EMERG
A49	<b>Jiang J.-Q. and Zhou Z.</b> Occurrence and transform of emerging micropollutants in the environment, analytical challenges and treatment technologies: A global case study	EMERG
A50	<b>Ratola N. and Katsoyiannis A.</b> Occurrence of organic pollutants in the wastewater treatment process. A review	EMERG

<sup>3</sup> BIOMON: Biomonitoring

<sup>4</sup> EMERG: Emerging pollutants

- A51 **Tsekoura H. J., Samaras V. G. and Stasinakis A.S.** EMERG  
Investigation of dissipation and leaching potential of selected endocrine disrupting compounds and non-steroidal anti-inflammatory drugs in soils amended with biosolids

*Friday 9 September 2011*

**B. WASTEWATER TREATMENT – CLEAN ENERGY & SUSTAINABILITY – HEALTH & ENVIRONMENT – ENVIRONMENTAL EDUCATION**

- B1 **Abdel Kader Amr M.** WWT<sup>5</sup>  
Studying the efficiency of grey water treatment by using rotating biological contactors system
- B2 **Abrahama S.P., Sahoob N.K., Pakshirajanc K. and Ghosha P.K.** WWT  
Biodegradation of 4-chlorophenol using calcium alginate immobilized Arthrobacter Chlorophenolicus A6
- B3 **Amouei Al., Asgharnia HA. and Amouei ME.** WWT  
Quantity and quality of wastewater in the hospitals of Babol medical university (Iran) and effects on the environmental health
- B4 **Anilan T., Mehmet Berkun and Egemen Aras** WWT  
Effects of T90 Value Variations on Outfall Design
- B5 **Asgharnia H., Sadighian F., Jafarzadeh F., Shahandeh Z., Yousefi Z. and Amouei A.** WWT  
Survey of natural treatment of domestic wastewater by Marzon Abad Wetland in Babol
- B6 **Babatunde A.O., Godin M., Grabowiecki P., Tota-Maharaj K., Scholz M., Wang Y., Tumula P., Meijer W.G. and Mirand-CasoLuengo R.** WWT  
Differentiation of mechanisms and causative factors of clogging in vertical-flow constructed wetland systems
- B7 **Babatunde A.O., Gordijenko M., Grabowiecki P., Tota-Maharaj K., Scholz M., Wang Y., Tumula P., Meijer W.G. and Mirand-CasoLuengo R.** WWT  
Engineered wetlands integrating ground-source heat pump system: preliminary design and performance evaluation
- B8 **Bhardwaj R. K. and Sharma H.** WWT  
DHS (Down Flow Hanging Sponge) Bio-Tower a sustainable method for waste water treatment for developing countries
- B9 **Bien J., Neczaj E., Grosser A., Celary P. and Worwag M.** WWT  
Mesophilic batch anaerobic co-digestion of sewage sludge and grease traps sludge for biogas production
- B10 **Bien J., Neczaj E., Milczarek M., Kacprzak M., Sobik-Szoltysek J. and Kowalczyk M.** WWT  
Co – composting of sewage sludge from meat industry and organic fraction of municipal waste
- B11 **Boonyungyuen W. and Wichitsathian B.** WWT  
Decolourazation of synthesized textile wastewater using sequencing batch reactor under aerobic and anaerobic conditions
- B12 **Chuang Li-Chin, Chin-Hsiang Luo, Sing-Wei Huang and Chun-Ju Lin** WWT  
Ozonation and photocatalytic degradation mechanism and kinetics of sulfa pharmaceuticals in wastewater

<sup>5</sup> WWT: Wastewater treatment

B13	<b>Dalvand Arash, Mitra Gholami, Ahmad Joneidi and Niyaz Mohammad Mahmoodi</b> Application of electrocoagulation for dye removal from textile industries' effluent	WWT
B14	<b>Garcia-Diaz I., Lopez F.A. and Alguacil F.J.</b> Membrane-based extraction of Cr(VI) using ionic liquids generated from primary amine Primene JMT	WWT
B15	<b>Ghoualem H., Tedjani F. and Khouider A.</b> Assessing the feasibility of organic matter and nutrients removal from wastewater food industry	WWT
B16	<b>Gkorgkolia C., Bizani E. and Fytianos K.</b> Oxidative decomposition of the endocrine disrupting compound triadimenol using Photo-Fenton system	WWT
B17	<b>Gomaa O.M. and Momtaz O.A.</b> Copper induction and differential expression of Laccase in <i>Aspergillus Flavus</i>	WWT
B18	<b>Ihktiyarova G.A.</b> Adsorption behavior of a textile dye of Adsorption behavior of a textile dye of Reactive Blue 19 from aqueous solutions onto HDTMA-bentonite	WWT
B19	<b>Kelessidis A. and Stasinakis A.S.</b> Comparative study of the methods used for the treatment and final disposal of sewage sludge in European countries	WWT
B20	<b>Kmetykó Á., Dombi A. and Mogyorósi K.</b> Comparison of different sized Au nanoparticles deposited on TiO <sub>2</sub> photocatalysts for H <sub>2</sub> production	WWT
B21	<b>Kos L., Żyła R. , Michalska K. and Perkowski J.</b> The application of Fenton's reagent and iron nanocompounds in textile wastewater treatment	WWT
B22	<b>Kosma C.I., Lambropoulou D.A. and Albanis T.A.</b> Photodegradation study of trimethoptim in different aqueous media by natural and simulated solar irradiation	WWT
B23	<b>Liu C.-F., Fang T., Xu Y., Qi J.-W. and Zhang J.-X.</b> Start-up of EGSB reactor for treating wastewater with marine salinity	WWT
B24	<b>Macingova E. and Luptakova A.</b> Bioremediation of sulphate-rich wastewater	WWT
B25	<b>Mitsika E., Christophoridis C. and Fytianos K.</b> Optimization of the Fenton degradation of acetamiprid in aqueous solutions using response surface methodology	WWT
B26	<b>Moussavi G., Majidi F. and Farzadkia M.</b> Removal of cyanide from wastewater using the electrocoagulation process	WWT
B27	<b>Nopkhuntod S., Dararat S. and Yimrattanabovorn J.</b> Remove reactive dyes from textile wastewater by shale	WWT
B28	<b>Parajuli D., Hirota K. and Seko N.</b> Development of cotton based adsorbent for the treatment of industrial waste waters	WWT
B29	<b>Paraskevas P. A. and Chatzigeorgiou C.</b> Performance evaluation of the wastewater treatment plant of Serres – Greece. Effect on the water quality of Strymon river	WWT
B30	<b>Paraskevas P.A. and Nikolakopoulos G.N.</b> Treated wastewater reuse in the water management plan of Lesbos island, Greece	WWT
B31	<b>Racho P. and Wichitsathian B.</b> Effect of treatment loading rates on biofilm compositions	WWT

B32	<b>Singh A.V. and Singh R.</b> Synthesis, characterization and application of tamarind sulphosalicylic acid (tssa) resin in industrial wastewater treatment	WWT
B33	<b>Smelcerovic M., Stojkovic D., Djordjevic N. and Djordjevic D.</b> Removal of metal-complex dye from a liquid solution by adsorption on the waste ashes from the city heating station	WWT
B34	<b>Sousa J., Freitas O. M. and Figueiredo S. A.</b> Basic dyestuffs removal from textile effluents using feathers: equilibrium, kinetic and column studies	WWT
B35	<b>Thangadurai P. and Sumathi Suresh</b> Degradation of endosulfan using metal mediated systems	WWT
B36	<b>Tsoutsis C.S. and Albanis T.A.</b> Sensitive trace enrichment of dimethoate and its oxygen analog omethoate from washing water of olive oil mills using solid-phase microextraction	WWT
B37	<b>Esfandiari S., Sekhavat M. and Bahramian B.</b> Sustainable development in Iranian oil industry and clean development mechanism	ENERGY <sup>6</sup>
B38	<b>Fúnez Guerra C., Montes Ponce de León M. and Clemente-Jul C.</b> Assessment of hydrogen as sustainable clean energy	ENERGY
B39	<b>Kretzschmar J., Majer S. and Kroeger M.</b> Waste to biofuel options	ENERGY
B40	<b>Senkevich S., Ntaikou I. and Lyberatos G.</b> Bioethanol production from thermochemically pre-treated olive mill solid residues using the yeast <i>Pachysolen tannophilus</i>	ENERGY
B41	<b>Stefanitsis D., Papoulias D., Gavaises M. and Bergeles G.</b> Renewable Energy Production Through the Utilization of the Pressure Retarded Osmosis (PRO) Concept	ENERGY
B42	<b>Bilash O.M., Galaichenko O.M., Sushko O.A. and Rozhitskii M.M.</b> Benzo[a]pyrene its influence on human organism and new nanophotonic detection method	HEALTH <sup>7</sup>
B43	<b>Estokova A. and Palascakova L.</b> Assessment of the content of selected hazardous elements in common used cements in Slovakia	HEALTH
B44	<b>Hutter H-P., Kundi M., Moshammer H., Krüger B., Schicker I. and Wallner P.</b> Health impact assessment of biodiesel fuel in Austria	HEALTH
B45	<b>Manatakis E.K.</b> A multiple regression approach for statistical modeling of road traffic noise	HEALTH
B46	<b>Mirderikvand H., Nassiri P., Mansouri N. and Cheraghi S.</b> Evaluation and comparative compare PTW performance in an offshore oil platform	HEALTH
B47	<b>Naderzadeh M., Monazzam M.R., Nassiri P. and Fard S.M.B.</b> An optimization process for T-shaped noise barriers coated by primitive root diffuser equipped with perforated sheets	HEALTH
B48	<b>Pantavou K. and Lykoudis S.</b> Environmental exposure and human health effects related to heat exhaustion- a field study of heat stress	HEALTH
B49	<b>Parigoridi I.E., Akrida-Demertzi K. and Demertzis P.G.</b> Development of a multimethod for the determination of 13 polycyclic aromatic hydrocarbons in recycled cardboard packaging materials and food simulant (TENAX)	HEALTH

<sup>6</sup> ENERGY: CLEAN ENERGY AND SUSTAINABILITY

<sup>7</sup> HEALTH: HEALTH AND ENVIRONMENT

- B50 **Vlachou A., Tsantis S., Daskalou G., Bekatorou A., Bosnea L. A., Bourikas K. and Symeopoulos B.D.** HEALTH  
A probiotic bacterium, Lactobacillus Casei, as potential checking agent against radioactive contamination of food chain.
- B51 **Liu Jingqi, Zhang Baosen, Wang Hongqi and Xiong Ying** Env-Educ  
A study on Green Olympics' impact on public environmental awareness in Beijing Thoughts on mechanism and means of environmental education for a World City

**Saturday 10 September 2011**

**C. HYDROLOGY & WATER RESOURCES MANAGEMENT – SOLID WASTE MANAGEMENT – WATER TREATMENT & RECLAMATION – ENVIRONMENTAL MANAGEMENT & SUSTAINABILITY**

- C1 **Ambas V.Th. and Baltas E.** WRM<sup>8</sup>  
The impact of clear sky solar radiation on reference evapotranspiration
- C2 **Baki S. and Makropoulos C.** WRM  
Whole cycle urban water management in small sustainable Communities: The case of the "green" island of Agistri, Greece
- C3 **Christides A., Mavrakis A. and Mitilineou A.** WRM  
A case of intense seawater intrusion to aquifer of the Thriassio plain, Greece
- C4 **David V.** WRM  
Catchment shape descriptors as an input to flood hazard classification
- C5 **Emamgholizadeh S. and Rahimian M.** WRM  
Predicting groundwater level of Shahrood plain with using artificial neural networks
- C6 **Fatahi R., Rahmati S., Naderi M. and Samadi H.** WRM  
Application of Remote Sensing Data to River Flow Regimes Analysis in Mountainous Watersheds. A case study: Koohrang River
- C7 **Junakova N. and Balintova M.** WRM  
The modelling of total nitrogen, phosphorus and potassium concentrations in eroded soil particles and reservoir bottom sediments
- C8 **Katsiabani K. and Mavrakis A.** WRM  
Spatial and temporal evolution of drought episodes in Greece with the use of the SPI meteorological drought index
- C9 **Khalilzadeh Poshtegal M., Seyed Ahmad Mirbagheri, Mojtaba Noury, Jamal Godosi and Ali asghar Alesheikh** WRM  
Investigating the relationship between the land use and the rainfall, run off and sediment by GIS and RS
- C10 **Koncsos L. and Derts ZS.** WRM  
Mitigation of the flood risk in the Tisza valley by storage in deep floodplains: the effect on the land use
- C11 **Lega M., Ferrara C., Russo F., Napoli R.M.A. and Persechino G.** WRM  
Applied researches to detect environmental illicit: First results to support Italian Coast Guard law enforcement
- C12 **Meera V. and Mansoor Ahammed M.** WRM  
Factors affecting the quality of roof-harvested rainwater

<sup>8</sup> WRM: Hydrology and Water resources management

C13	<b>Mrkvičková M., Kožín R. and Beran A.</b> Adaptation measures on water resources – checking their expected efficiency by simulation	WRM
C14	<b>Satayev M.I, Baiysbay O.P., Shakirov B.S., Altynbekov R.F. and Yeskendirov M.Z.</b> Adsorption cleaning of surface and underground water being a source of portable water supply	WRM
C15	<b>Siarkos I., Latinopoulos P. and Darakas E.</b> Groundwater quality investigation in Moudania basin, Halkidiki peninsula, Greece	WRM
C16	<b>Stamou A.I., Douka E., Nikiforakis I., and Timofti D.A.</b> A simple 1-D integrated model for the description of the interactions between aquacultures and the sea environment	WRM
C17	<b>Zhang Weiyang, In Chio Lou, Wai Kin Ung, Yijun Kong, and Kai Meng Mok</b> Eutrophication of main storage reservoir in Macau	WRM
C18	<b>Zhou Zh.K. and Sun Zh.X.</b> The environmental quality assessment of heavy metal in some Uranium tail mine	WRM
C19	<b>Zioris I., Petridis N., Lambropoulou D., Raftopoulos C. and Albanis T.</b> Occurrence of pesticides in rainwater samples in the rivers Axios, Loudias, and Aliakmonas estuaries, (N. Greece) by SPE and liquid chromatography-(LC-MS/MS)	WRM
C20	<b>Apaydin O. and Dashan E.S.</b> Forecasting of waste amount from ships: Haydarpassa case	SWM <sup>9</sup>
C21	<b>Asgharnia H., Omrani G., Amouie A., Zazouli M. and Hajiahmadi M.</b> The comparison of microbial and chemical quality and ripening time of aerobic compost by vegetable wastes vermicompost	SWM
C22	<b>Fallah S., Zahra Moulana, Bibiafiyeh Javar, Aliakbar Mohammadi, Abdol leman Amoui and Hosseinali Asgharnia</b> Survey of solid wastes management in Ghonbad Kavos Hospitals, Iran 2010	SWM
C23	<b>Goswami S., Maheshwri M. and Nema A.K.</b> Mineral sequestration of CO <sub>2</sub> generated in landfills	SWM
C24	<b>Junák J. and Številová N.</b> Application of industrial waste in civil engineering	SWM
C25	<b>Kidalova L., Terpakova E., Priganc S. and Stevilova N.</b> Possibilities of using hemp shives in lightweight composites	SWM
C26	<b>Kitto M.R., Sambhu C. and Al Deen S.</b> Litter pollution on the coastline of Obhur, Saudi Arabia	SWM
C27	<b>Luptakova A., Prascakova M., Estokova A., Stevilova N. and Ondrejka Harbulakova V.</b> Influence of bacteria on building composites materials contained of energetic wastes	SWM
C28	<b>Mahar R.B., Korai M.S. and Sahito A.R.</b> Characterization and quantification of MSW of Hyderabad, Pakistan	SWM
C29	<b>Mavroulidou M. and Ahmed M.U.</b> Geotechnical properties of glass cullet	SWM
C30	<b>Mohapatra P.K.</b> Municipal solid waste management for climate adaptation: - case study of Puri city in India	SWM
C31	<b>Muluuta Bethern, Namuchwa Milly, Sajjabbi Deborah and Tenywa David Kasiiba</b> Improvements in solid waste management in town councils- Uganda	SWM

<sup>9</sup> SWM: Solid Waste Management

C32	<b>Muralidhar P., Girija A.R. and Sumanth J.</b> Zero waste management in mysore city –a case study	SWM
C33	<b>Ozturk H.I., Alp K., Hanedar A., Avsar E. and Malak U.</b> Characteristics of heavy metals in the ISTAC medical waste incinerator system	SWM
C34	<b>Sicakova A., Terpakova E. and Estokova A.</b> Changes of selected parameters of concrete after sulphate-magnesium attack	SWM
C35	<b>Tsagas F., Petalas A. and Dermatas D.</b> Design and implementation of a MSW pretreatment scheme	SWM
C36	<b>Ulukan Z. and Çetinkaya N.</b> A fuzzy analytic network process (ANP) approach for final disposal process comparison of end-of-life tyres: the case of Turkey	SWM
C37	<b>Bekbolet M., N. Baycan, C.S. Uyguner-Demirel</b> Multivariate parameter optimization for the assessment of the photocatalytic degradation of humic acid	WTR <sup>10</sup>
C38	<b>Daryabeigi Zand A., Baghvand A. and Khodaei H.R.</b> Using aluminium salts to remove turbidity from low to high turbidity waters	WTR
C39	<b>Garrido Hoyos S., Aviles Flores M., Grajeda Fajardo C. Cardoso Zoloeta S., Velasquez Orozco H. and Ramirez Gonzalez A.</b> Comparison between two media filters for Arsenic removal. Case study Guatemala	WTR
C40	<b>Ghosh D., Medhi C.R and Purkait M.K.</b> Treatment of Fluoride, Iron and Arsenic containing drinking water by electrocoagulation followed by microfiltration	WTR
C41	<b>Uyguner-Demirel C.S. and Bekbolet M.</b> Constraints on the photocatalytic oxidation of different nominal molecular weight fractions of NOM surrogates: Mixture effect of anions	WTR
C42	<b>Vieira R.F., Berenguel A.T., Silva M.A., Vilaça J.S., Domingues V.F. and Figueiredo S.A.</b> Natural organic matter fractionation along the treatment of water for human consumption	WTR
C43	<b>Volovicheva N., Vezentsev A. and Korolkova S.</b> Modified layered aluminosilicate nanosorbents for water treating	WTR
C44	<b>Moulana Zahra, Mahmoud Haji Ahmadi, Hassan Asghari, Akbar Abasi, Hosseinali Asgharnia and Aliakbar Mohammadi</b> Evaluation of microbial quality in Babolsar drinking water system by using HPC index	WTR
C45	<b>Andreou C. and Karathanassi V.</b> Exploitation of hyperspectral imagery for the detection of oil spill characteristics	ENV-M <sup>11</sup>
C46	<b>BorjianBorojeny F.</b> Energy Management and the Variety of Environmental Approaches to Building Issues in Iran	ENV-M
C47	<b>Eřtoková A. and Porhinčák M.</b> Environmental sustainability of building constructions design in terms of used building materials	ENV-M
C48	<b>Ghezloun A., Oucher N., Chergui S. and Hadj Arab A.</b> Energy policy in the context of sustainable development: Case of Algeria and Tunisia	ENV-M
C49	<b>Karimi S., Mahsa Adl, Hamid Reza Jafari and Farzam Pour Asghar Sanghachin</b> A critique review of land use planning in Iran	ENV-M

<sup>10</sup> WTR: Water treatment and reclamation

<sup>11</sup> ENV-M: Environmental Management & sustainability

- C50 **Kyriakou K., Sourianos E. and Vagiona D.** ENV-M  
Sustainable planning and development in the Rhodes Island
- C51 **Mavrakis A., Tassopoulos A., Chiotini-Kyvelou S. and Christides A.** ENV-M  
Land use changes at Thriassio plain: a road to nowhere?
- C52 **Monica D., Grigorescu I., Kucsicsa G., Dragotă C.-S. and Năstase M.** ENV-M  
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- C53 **Mystikou A., Kafas A. and Karambas Th.V.** ENV-M  
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- C54 **Vagiona D. and Tzoufi M.** ENV-M  
Sustainable Performance Index in Kefalonia Island
- C55 **Zhang Yimin and Gao Yuexiang** ENV-M  
Analysis and control of pollution sources of aquaculture