

Υπό την αιγίδα της Α.Ε. του  
Προέδρου της Ελληνικής  
Δημοκρατίας

Under the auspices of H.E. the  
President of the Hellenic Republic

## 9<sup>th</sup> INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY

RHODES ISLAND, GREECE  
1-3 SEPTEMBER 2005

### PROGRAM OF THE CONFERENCE



*Organised by*



**Global NEST**

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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VASSILEIOU HELEN	Member

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VAN DEN HOUT D.	TNO (The Netherlands)
VENABLES R.	Environmental Crane Ltd. (G-NEST, U.K.)
VLACHOS E.	Colorado State University (U.S.A.)
WHEATER H.S.	Imperial College (U.K.)

**3<sup>rd</sup> Announcement for the  
9<sup>th</sup> International Conference on Environmental  
Science and Technology  
(9<sup>th</sup> CEST - 2005)**

The ninth International biennial Conference on **Environmental Science and Technology** will present the most recent technological and scientific developments associated with environmental problems, emphasizing the synthesis of scientific expertise achieved in individual disciplines of environmental science and technology. This synthesis, in combination with the integration of environmental information with economic and social aspects, is prerequisite for adopting sustainable solutions to the numerous contemporary problems.

In view of the success of the previous Conferences dating back to 1989, the meeting aims to bring together engineers, scientists and other professionals from a number of different countries, involved in environmental research and development activities.

#### **Conference Main Subjects**

The aim of the Conference is to identify and promote best practices in environmental resources management and planning, to present realistic scenarios and reliable economic analysis of environmental issues, to achieve a better understanding of environmental problems, and to seek their solution. In this conference, priority has been given to the following areas:

- Global environmental change and ecosystems management,
- Water resources management and planning,
- Water quality issues,
- Air quality issues,
- Solid waste management, recycling and sustainability

Papers with original work on the following environmental issues will also be presented:

- *Environmental dynamics*: meteorology, hydrology, geophysics
- *Environmental pollution*: air, water, soil, noise, radiation, multi-media; sources, pathways, sinks and interactions between pollutants
- *Environmental sustainability*: resources management & recycling; management of air, water and soil quality; environmental systems approach
  - Solid waste management
  - Water supply and waste water treatment and reuse
- *Global change*: climate change, global warming, ozone layer depletion, human geography, deforestation, desertification
- *Ecological engineering*: eco-technology, bio-engineering, habitat reconstruction, stream river and wetland restoration

- *Environmental restoration*: ground water remediation, soil decontamination, hazardous landfill leachates
- *Environmental and occupational medicine*
- *Epidemiology and risk analysis*
- *Wastes (municipal, industrial, agricultural)*: management, treatment, control and disposal

#### **Conference Language**

The official conference languages are Greek and English.

Papers will be written in English for the inclusion in the proceedings, which are covered by ISI system.

#### **Conference Venue**

The 9<sup>th</sup> Conference on Environmental Science and Technology will take place in Rhodes Island, Greece at *Sofitel Capsis Hotel and Convention Center*.

Participants are encouraged to invite their families to enjoy the beautiful island of Rhodes.

#### **Registration**

To register, please fill in and send the attached registration form to the address specified below.

#### **Registration fees**

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

<i>Authors / Participants</i>	300 €
<i>Students</i>	150 €

#### **Transportation**

Access to the island of Rhodes is possible by plane via Athens, Thessaloniki and many other international airports or by ferry boat from Athens, Thessaloniki and other ports.

The air tickets to and from the island of Rhodes should be booked long in advance, as the first weeks of September are a high tourist season. The boat tickets should be booked in advance and if a car is taken to the island the return ferry ticket should be ensured. Bus and taxi services are available at reasonable rates.

#### **Accommodation**

Several types of accommodation can be arranged at varying prices.

For hotel accommodation:

- *Sofitel Capsis Hotel and Convention Center*, where the Conference will take place can be contacted directly (tel. +30 22410 25015; fax +30 22410 20900; e-mail: [capsis-rhodes@capsis.gr](mailto:capsis-rhodes@capsis.gr); <http://www.capsis.gr>). Participants should mention the name of the Conference, as special rates are offered by the Hotel.
- Additional list of hotels is available at our website (<http://www.gnest.org/cest>).

**3<sup>η</sup> Ανακοίνωση για το  
9<sup>ο</sup> Διεθνές Συνέδριο  
Περιβαλλοντικής Επιστήμης και Τεχνολογίας  
(9 ΣΠΕΤ- 2005)**

Το 9<sup>ο</sup> Διεθνές Συνέδριο Περιβαλλοντικής Επιστήμης και Τεχνολογίας, διοργανώνεται το τριήμερο 1 – 3 Σεπτεμβρίου 2005, στη Ρόδο, από το Διεθνές Δίκτυο Περιβαλλοντικής Επιστήμης και Τεχνολογίας (Global NEST) και το Τμήμα Περιβάλλοντος του Πανεπιστημίου Αιγαίου.

Στο ανά διετία επαναλαμβανόμενο αυτό συνέδριο, θα παρουσιασθούν τα πιο σύγχρονα τεχνολογικά και επιστημονικά επιτεύγματα, που σχετίζονται με περιβαλλοντικά προβλήματα, με έμφαση στη σύνθεση επιστημονικής γνώσης και εμπειρίας από διάφορα πεδία στο χώρο της περιβαλλοντικής επιστήμης και τεχνολογίας. Η σύνθεση αυτή και ο συνδυασμός της περιβαλλοντικής πληροφορίας με οικονομικές και κοινωνικές παραμέτρους, αποτελεί απαραίτητη προϋπόθεση για την εξεύρεση βιώσιμων λύσεων για τα σύγχρονα περιβαλλοντικά προβλήματα.

Στόχος του Συνεδρίου, όπως έχει γίνει και κατά τις προηγούμενες διοργανώσεις, που χρονολογούνται από το 1989, είναι να προσελκύσει επιστήμονες, μηχανικούς και άλλους επαγγελματίες από την Ελλάδα και απ' όλο τον κόσμο, που δραστηριοποιούνται σε θέματα περιβαλλοντικής έρευνας και ανάπτυξης.

#### **Θεματολογία συνεδρίου**

Η θεματολογία του Συνεδρίου καθορίζεται με κύριο στόχο τον προσδιορισμό και την προώθηση των καλύτερων πρακτικών για τη διαχείριση των φυσικών πόρων, την παρουσίαση ρεαλιστικών σχεδίων και αξιόπιστων οικονομικών αναλύσεων των περιβαλλοντικών θεμάτων, την καλύτερη κατανόηση και τελικά την εξεύρεση λύσεων για τα θέματα αυτά.

Στο συγκεκριμένο Συνέδριο έχει δοθεί έμφαση στις ακόλουθες θεματικές ενότητες:

- Κλιματική αλλαγή και διαχείριση οικοσυστημάτων,
- Διαχείριση υδατικών πόρων,
- Ποιότητα νερού,
- Ποιότητα αέρα,
- Διαχείριση στερεών απορριμμάτων και ανακύκλωση

και παρουσιάζονται επίσης πρωτότυπες εργασίες στα ακόλουθα περιβαλλοντικά θέματα:

- *Περιβαλλοντική ρευστομηχανική* (μετεωρολογία, υδρολογία, γεωφυσική)
- *Περιβαλλοντική ρύπανση* (αέρας, νερό, έδαφος, θόρυβος, ακτινοβολία, πηγές, οδοί μεταφοράς, αλληλεπιδράσεις μεταξύ ρυπαντών )
- *Περιβαλλοντική αειφορία* (διαχείριση πόρων & ανακύκλωση; ποιοτική διαχείριση αέρα, νερού και εδαφών; Ανάλυση περιβαλλοντικών συστημάτων)
  - Διαχείριση στερεών απορριμμάτων
  - Επεξεργασία και επαναχρησιμοποίηση νερού και υγρών αποβλήτων

- *Πλανητική αλλαγή* (κλιματική αλλαγή, θέρμανση πλανήτη, στρώμα όζοντος, ανθρωπίνη γεωγραφία, αποψίλωση δασών, ερημοποίηση)
- *Οικολογική μηχανική* (οικολογική τεχνολογία, σχεδιασμός ενδαιτημάτων, αποκατάσταση υγροβιοτόπων)
- *Περιβαλλοντική αποκατάσταση* (καθαρισμός υπόγειων νερών, απορρύπανση εδαφών, στραγγίσματα χώρων διάθεσης τοξικών αποβλήτων)
- *Περιβαλλοντική και εργασιακή υγεία*
- *Επιδημιολογία και ανάλυση κινδύνου*
- *Απόβλητα* (αστικά, βιομηχανικά, αγροτικά - διαχείριση, επεξεργασία, έλεγχος και διάθεση)

#### **Τόπος και χρόνος**

Το Συνέδριο διοργανώνεται το τριήμερο 1 – 3 Σεπτεμβρίου 2005 στη Ρόδο, στο ξενοδοχείο “*Sofitel Capsis Hotel and Convention Center*”.

Για κρατήσεις δωματίων:

- Ξενοδοχείο “*Sofitel Capsis Hotel and Convention Center*”: τηλ. 22410 25015; fax 22410 20900; e-mail: [capsis-rhodes@capsis.gr](mailto:capsis-rhodes@capsis.gr); <http://www.capsis.gr> (καθώς προσφέρονται ειδικές τιμές για τους συνέδρους κατά την κράτηση θα πρέπει να αναφερθεί το όνομα του Συνεδρίου)
- Κατάλογος ξενοδοχείων της Ρόδου είναι διαθέσιμος στην ιστοσελίδα του Συνεδρίου (<http://www.gnest.org/cest>).

#### **Δηλώσεις συμμετοχής**

Για δηλώσεις συμμετοχών, να αποσταλεί συμπληρωμένο το συνημμένο δελτίο συμμετοχής.

#### **Γλώσσες συνεδρίου**

Επίσημη γλώσσα του συνεδρίου είναι η ελληνική και η αγγλική.

#### **Κόστος συμμετοχής**

Στο κόστος συμμετοχής περιλαμβάνονται η παρακολούθηση, οι τόμοι των πρακτικών, τα μεσημβρινά γεύματα, αναψυκτικά, καφέδες και το δείπνο του Συνεδρίου.

<i>Εισηγητές / Σύεδροι</i>	300 €
<i>Σπουδαστές</i>	150 €

#### **Γραμματεία συνεδρίου**

Πανεπιστήμιο Αιγαίου  
Γραμματεία 9 ΣΠΕΤ  
Βουλγαροκτόνου 30, 114 72 Αθήνα  
Τηλ.: 210 6492451 - 452  
Fax: 210 6492499  
E-mail: [cest@gnest.org](mailto:cest@gnest.org)  
Web site: <http://www.gnest.org/cest>

## TIMETABLE OF THE CONFERENCE

### ORAL PRESENTATIONS

		<b>ROOM</b>				
		<b>Colossos A</b>	<b>Colossos B</b>	<b>Colossos C</b>	<b>Kallithea</b>	
<b>THURSDAY 1 SEPTEMBER 2005</b>	MORNING	09:00-11:00	<b>SESSION 2</b> WATER RESOURCES MANAGEMENT (1)	<b>SESSION 3</b> AIR QUALITY (1)	<b>SESSION 4</b> SOLID WASTE MANAGEMENT (1)	<b>SESSION 5</b> POLLUTION CONTROL TECHNOLOGIES (1)
		11:30 - 13:30	<b>SESSION 1</b> OPENING <i>(Hall Marika Capsis)</i>			
	AFTERNOON	17:00 - 20:30	<b>SESSION 6</b> WATER RESOURCES MANAGEMENT (2)	<b>SESSION 7</b> AIR QUALITY (2)	<b>SESSION 8</b> SOLID WASTE MANAGEMENT (2)	<b>SESSION 9</b> POLLUTION CONTROL TECHNOLOGIES (2)
<b>FRIDAY 2 SEPTEMBER 2005</b>	MORNING	9:00 - 13:30	<b>SESSION 10</b> WATER RESOURCES MANAGEMENT (3) / WATER QUALITY (1)	<b>SESSION 11</b> AIR QUALITY (3) / ENVIRONMENTAL POLICIES, ECONOMICS (1)	<b>SESSION 12</b> SOLID WASTE MANAGEMENT (3) / SOILS, SEDIMENT POLLUTION	<b>SESSION 13</b> POLLUTION CONTROL TECHNOLOGIES (3)
	AFTERNOON	17:00 - 20:30	<b>SESSION 14</b> WATER QUALITY (2)	<b>SESSION 15</b> ENVIRONMENTAL POLICIES, ECONOMICS (2)	<b>SESSION 16</b> WASTE WATER MANAGEMENT (1) / ECOSYSTEMS (1)	<b>SESSION 17</b> POLLUTION CONTROL TECHNOLOGIES (4)
<b>SATURDAY 3 SEPTEMBER 2005</b>	MORNING	9:00 - 13:30	<b>SESSION 18</b> WATER QUALITY (3)	<b>SESSION 19</b> ENVIRONMENTAL POLICIES, ECONOMICS (2)	<b>SESSION 20</b> ECOSYSTEMS (2)	<b>SESSION 21</b> WASTE WATER MANAGEMENT (2)
	AFTERNOON	17:00 - 18:30	<b>SESSION 22</b> WATER QUALITY (4) - ANALYTICAL METHODS	<b>SESSION 23</b> ENVIRONMENTAL POLLUTION & HUMAN HEALTH	<b>SESSION 24</b> GLOBAL CHANGE / AIR POLLUTION (4)	<b>SESSION 25</b> POLLUTION CONTROL TECHNOLOGIES (5)
		19:00 - 21:00	<b>SESSION 26</b> CLOSURE <i>(Hall Marika Capsis)</i>			

## POSTER PRESENTATIONS

<b>POSTER AREA –Foyer</b>			
<b>THURSDAY 1 SEPTEMBER 2005</b>	AFTERNOON	17:00 – 20:30	<b>POSTER SESSION A</b> WATER RESOURCES MANAGEMENT WATER QUALITY
<b>FRIDAY 2 SEPTEMBER 2005</b>	MORNING	9:00 – 13:30	<b>POSTER SESSION B</b> GLOBAL CHANGE AIR QUALITY POLLUTION CONTROL TECHNOLOGIES (1)
	AFTERNOON	17:00 – 20:30	<b>POSTER SESSION C</b> SOLID WASTE MANAGEMENT WASTE WATER MANAGEMENT
<b>SATURDAY 3 SEPTEMBER 2005</b>	MORNING	9:00 – 13:30	<b>POSTER SESSION D</b> ECOSYSTEMS ENVIRONMENTAL POLICIES & ECONOMICS (1)
	AFTERNOON	17:00 – 20:30	<b>POSTER SESSION E</b> POLLUTION CONTROL TECHNOLOGIES (2) ENVIRONMENTAL POLICIES & ECONOMICS (2) SOIL / SEDIMENT POLLUTION

## ΑΝΑΡΤΗΜΕΝΕΣ (POSTER) ΠΑΡΟΥΣΙΑΣΕΙΣ

<b>ΠΕΡΙΟΧΗ POSTER - Foyer</b>			
<b>ΠΕΜΠΤΗ 1 ΣΕΠΤΕΜΒΡΙΟΥ 2005</b>	ΑΠΟΓΕΥΜΑ	17:00 – 20:30	<b>POSTERS ΕΝΟΤΗΤΑ Α</b> ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ
<b>ΠΑΡΑΣΚΕΥΗ 2 ΣΕΠΤΕΜΒΡΙΟΥ 2005</b>	ΠΡΩΙ	9:00 – 13:30	<b>POSTERS ΕΝΟΤΗΤΑ Β</b> ΚΛΙΜΑΤΙΚΗ ΑΛΛΑΓΗ ΠΟΙΟΤΗΤΑ ΑΕΡΑ ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (1)
	ΑΠΟΓΕΥΜΑ	17:00 – 20:30	<b>POSTERS ΕΝΟΤΗΤΑ Γ</b> ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ ΔΙΑΧΕΙΡΙΣΗ ΥΓΡΩΝ ΑΠΟΒΛΗΤΩΝ
<b>ΣΑΒΒΑΤΟ 3 ΣΕΠΤΕΜΒΡΙΟΥ 2005</b>	ΠΡΩΙ	9:00 – 13:30	<b>POSTERS ΕΝΟΤΗΤΑ Δ</b> ΟΙΚΟΣΥΣΤΗΜΑΤΑ ΟΙΚΟΝΟΜΙΚΑ ΠΕΡ/ΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ (1)
	ΑΠΟΓΕΥΜΑ	17:00 – 20:30	<b>POSTERS ΕΝΟΤΗΤΑ Ε</b> ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (2) ΟΙΚΟΝΟΜΙΚΑ ΠΕΡ/ΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ (2) ΡΥΠΑΝΣΗ ΕΔΑΦΩΝ, ΙΖΗΜΑΤΩΝ

**ΣΥΝΟΠΤΙΚΟ ΠΡΟΓΡΑΜΜΑ ΣΥΝΕΔΡΙΟΥ**

**ΠΡΟΦΟΡΙΚΕΣ ΠΑΡΟΥΣΙΑΣΕΙΣ**

			<b>ΑΙΘΟΥΣΑ Colossos A</b>	<b>ΑΙΘΟΥΣΑ Colossos B</b>	<b>ΑΙΘΟΥΣΑ Colossos C</b>	<b>ΑΙΘΟΥΣΑ Kallithea</b>
<b>ΠΕΜΠΤΗ 1 ΣΕΠΤΕΜΒΡΙΟΥ 2005</b>	ΠΡΩΙ	09:00-11:00	<b>ΣΥΝΕΔΡΙΑΣΗ No 2</b> ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (1)	<b>ΣΥΝΕΔΡΙΑΣΗ No 3</b> ΠΟΙΟΤΗΤΑ ΑΕΡΑ (1)	<b>ΣΥΝΕΔΡΙΑΣΗ No 4</b> ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ (1)	<b>ΣΥΝΕΔΡΙΑΣΗ No 5</b> ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (1)
		11:30 - 13:30	<b>ΣΥΝΕΔΡΙΑΣΗ No 1</b> <b>ΕΝΑΡΞΗ</b> (Αίθουσα «Μαρίκα Καφή»)			
	ΑΠΟΓΕΥΜΑ	17:00 - 20:30	<b>ΣΥΝΕΔΡΙΑΣΗ No 6</b> ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 7</b> ΠΟΙΟΤΗΤΑ ΑΕΡΑ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 8</b> ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 9</b> ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (2)
<b>ΠΑΡΑΣΚΕΥΗ 2 ΣΕΠΤΕΜΒΡΙΟΥ 2005</b>	ΠΡΩΙ	9:00 - 13:30	<b>ΣΥΝΕΔΡΙΑΣΗ No 10</b> ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (3) / ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (1)	<b>ΣΥΝΕΔΡΙΑΣΗ No 11</b> ΠΟΙΟΤΗΤΑ ΑΕΡΑ (3) / ΟΙΚΟΝΟΜΙΚΑ ΠΕΡ/ΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ (1)	<b>ΣΥΝΕΔΡΙΑΣΗ No 12</b> ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ (3) / ΡΥΠΑΝΣΗ ΕΔΑΦΩΝ, ΙΖΗΜΑΤΩΝ	<b>ΣΥΝΕΔΡΙΑΣΗ No 13</b> ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (3)
		ΑΠΟΓΕΥΜΑ	17:00 - 20:30	<b>ΣΥΝΕΔΡΙΑΣΗ No 14</b> ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 15</b> ΟΙΚΟΝΟΜΙΚΑ ΠΕΡ/ΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 16</b> ΔΙΑΧΕΙΡΙΣΗ ΥΓΡΩΝ ΑΠΟΒΛΗΤΩΝ (1) / ΟΙΚΟΣΥΣΤΗΜΑΤΑ (1)
<b>ΣΑΒΒΑΤΟ 3 ΣΕΠΤΕΜΒΡΙΟΥ 2005</b>	ΠΡΩΙ	9:00 - 13:30	<b>ΣΥΝΕΔΡΙΑΣΗ No 18</b> ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (3)	<b>ΣΥΝΕΔΡΙΑΣΗ No 19</b> ΟΙΚΟΝΟΜΙΚΑ ΠΕΡ/ΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 20</b> ΟΙΚΟΣΥΣΤΗΜΑΤΑ (2)	<b>ΣΥΝΕΔΡΙΑΣΗ No 21</b> ΔΙΑΧΕΙΡΙΣΗ ΥΓΡΩΝ ΑΠΟΒΛΗΤΩΝ (2)
		ΑΠΟΓΕΥΜΑ	17:00 - 18:30	<b>ΣΥΝΕΔΡΙΑΣΗ No 22</b> ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (4) - ΑΝΑΛΥΤΙΚΕΣ ΜΕΘΟΔΟΙ	<b>ΣΥΝΕΔΡΙΑΣΗ No 23</b> ΠΕΡΙΒΑΛΛΟΝΤΙΚΗ & ΕΡΓΑΣΙΑΚΗ ΥΓΕΙΑ	<b>ΣΥΝΕΔΡΙΑΣΗ No 24</b> ΚΛΙΜΑΤΙΚΗ ΑΛΛΑΓΗ / ΠΟΙΟΤΗΤΑ ΑΕΡΑ (4)
	19:00 - 21:00	<b>ΣΥΝΕΔΡΙΑΣΗ No 26</b> ΚΛΕΙΣΙΜΟ - ΣΥΜΠΕΡΑΣΜΑΤΑ (Αίθουσα «Μαρίκα Καφή»)				



ORAL PRESENTATIONS

ΠΡΟΦΟΡΙΚΕΣ ΠΑΡΟΥΣΙΑΣΕΙΣ

Session 1 – OPENING

Συνεδρίαση Νο 1 - ΕΝΑΡΞΗ

Thursday 1 September 2005 morning  
HALL “Marika Capsis”

Πέμπτη 1 Σεπτεμβρίου 2005 – πρωί  
ΑΙΘΟΥΣΑ “Μαρίκα Καψή”

- 11:30 – 11:45 **Lekkas T.D.** (chairman of the Conference) – Introductory notes  
**Λέκκας Θ.** (Πρόεδρος Συνεδρίου) – Εισαγωγικές αναφορές
- 11:45 – 12:05 **P. Arrojo Agudo** (invited speaker)  
Main conclusions from European Declaration for new Water Culture
- 12:05 – 12:25 **Helmis C.G., Wang Q., Katsouvas G., Gao Z., Halios C.H., Kalogiros J.A., Wang S., Sgouros G. and Edson J.**  
On the turbulent structure of the marine atmospheric boundary layer from CBLAST nantucket measurements
- 12:30 **Opening of the Conference by H.E. the President of the Hellenic Republic Dr Karolos Papoulias**  
**Επίσημη έναρξη του Συνεδρίου από την Α.Ε. τον Πρόεδρο της Ελληνικής Δημοκρατίας Κύριο Κάρολο Παπούλια**
- 13:30 Lunch in honour of H.E. the President of the Hellenic Republic Dr Karolos Papoulias hosted by the Chairman of the Conference Professor Themistocles Lekkas  
Γεύμα προς τιμήν της Α.Ε. του Προέδρου της Ελληνικής Δημοκρατίας Κυρίου Καρόλου Παπούλια παρατιθέμενο από τον Πρόεδρο του Συνεδρίου Καθηγητή κ. Θεμιστοκλή Λέκκα

Session 2

WATER RESOURCES MANAGEMENT (1)

Συνεδρίαση Νο 2

ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (1)

Thursday 1 September 2005 – morning  
ROOM “Colossos A”

Πέμπτη 1 Σεπτεμβρίου 2005 – πρωί  
ΑΙΘΟΥΣΑ “Colossos A”

- 9:00 – 9:15 **Alexopoulou A., Makropoulos C. and Voulvoulis N.**  
Water Framework Directive: implementation in Greece
- 9:15 – 9:30 **Naddeo V., Zarra T. and Belgiorno V.**  
European procedures to river quality assessment
- 9:30 – 9:45 **Hadjibiros K., Katsiri A., Andreadakis A., Koutsoyiannis D., Stamou A., Christofides A., Efstratiadis A. and Sargentis F.-G.**  
Multi-criteria reservoir water management
- 9:45 – 10:00 **Polyzos S. and Sofios S.**  
Water resources, interregional conflicts and regional development: the case of Acheloos River
- 10:00 – 10:15 **Katsiardi P., Manoli E., Karavitis C. and Assimacopoulos D.**  
Scenario-based strategy development for integrated water management
- 10:15 – 10:30 **Bekiaris I.G., Panagopoulos I.N. and Mimikou M.A.**  
Application of the SWAT (Soil and Water Assessment Tool) model in the Ronnea catchment of Sweden
- 10:30 – 10:45 **Spanoudaki K., Nanou A., Stamou A.I., Christodoulou G., Sparks T., Bockelmann B. and Falconer R.**  
Integrated surface/subsurface water modelling
- 10:45 – 11:00 **Bourletsikas A., Baltas E., Mimikou M. and Baloutsos G.**  
A GIS-based rainfall-runoff distributed model applied in an experimental watershed

Coffee break

**Session 3**  
**AIR QUALITY (1)**

**Συνεδρίαση Νο 3**  
**ΠΟΙΟΤΗΤΑ ΑΕΡΑ (1)**

**Thursday 1 September 2005 – morning**  
**ROOM “Colossos B”**

**Πέμπτη 1 Σεπτεμβρίου 2005 - πρωί**  
**ΑΙΘΟΥΣΑ “Colossos B”**

- 9:00 – 9:15 **Moussiopoulos N., Douros I., Reis S. and Friedrich R.**  
MERLIN: the study of urban air quality in 20 European cities
- 9:15 – 9:30 **Vasilakos C., Levi N., Maggos T., Hatzianestis J., Mihopoulos J. and Helmis C.**  
Gas-particle concentration and distribution of PAHs in the atmosphere of a suburban area in Athens, Greece
- 9:30 – 9:45 **Michopoulos J., Maggos Th., Vasilakos Ch., Bartzis J.G., Gika E. and Hiskia A.**  
Concentration measurements and chemical characterization of PM<sub>2.5</sub> at an industrial coastal site in Saronic Gulf, Greece
- 9:45 – 10:00 **Gavriil I., Grivas G., Kassomenos P., Chaloulakou A. and Spyrellis N.**  
Statistical distributions of particulate matter, applied to the study of the atmospheric pollution problem, in the area of Athens
- 10:00 – 10:15 **Tzirakis E., Pitsas K., Zannikos F. and Stournas S.**  
Vehicle emissions and driving cycles: comparison of the Athens driving cycle (ADC) with ECE-15 and European driving cycle (EDC)
- 10:15 – 10:30 **San Jose R., Perez J.L. and Gonzalez R.M.**  
An incinerator air quality impact assessment for metals, PAH, dioxins and furans by using MM5-CMAQ: Spain case study
- 10:30 – 10:45 **Tsitouridou R. and Anatolaki Ch.**  
Chemical characteristics of atmospheric deposition at two remote sites in the vicinity of coal-fired power plants
- 10:45 – 11:00 **Stefanis A., Theoulakis P. and Pilinis C.**  
The decay effects of sea-salt aerosol on the surface of historic buildings

*Coffee break*

**Session 4**  
**SOLID WASTE MANAGEMENT (1)**

**Συνεδρίαση Νο 4**  
**ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ**

**Thursday 1 September 2005 – morning**  
**ROOM “Colossos C”**

**Πέμπτη 1 Σεπτεμβρίου 2005 - πρωί**  
**ΑΙΘΟΥΣΑ “Colossos C”**

- 9:00 – 9:15 **Tsilemou K. and Panagiotakopoulos D.**  
Sustainability indicators for solid waste management systems
- 9:15 – 9:30 **Despotakis V.K. and Econopoulos A.P.**  
A GIS model for landfill siting
- 9:30 – 9:45 **Alexiou E., Kontos Th.D. and Halvadakis C.P.**  
Fuzzy GIS-based multiple criteria analysis methodology for MSW landfill risk assessment
- 9:45 – 10:00 **Marculescu C., Antonini G. and Badea A.**  
Analysis on the MSW thermal degradation processes
- 10:00 – 10:15 **Komilis D., Haritopoulou T. and Togia A.**  
Municipal solid waste unit production rates and estimation of the required number of waste storage containers in the municipality of Athens
- 10:15 – 10:30 **Ballin G., Hartmann P., Steinbrecht D. and Spillmann P.**  
The spontaneous combustion of seemingly inert plastics - Problem, Research, - Problem Solution
- 10:30 – 10:45 **Koertel A. and Spillmann P.**  
The “Teheran Model” - The large scale introduction of a static composting process for high water content municipal waste in arid regions

10:45 – 11:00 **Apaydin O. and Talha Gonullu M.**  
Route optimization for solid waste collection: Trabzon (Turkey) case study

*Coffee break*

**Session 5**  
**POLLUTION CONTROL TECHNOLOGIES (1)**

*Thursday 1 September 2005 – morning*  
**ROOM “Kallithea”**

**Συνεδρίαση Νο 5**  
**ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (1)**

*Πέμπτη 1 Σεπτεμβρίου 2005 - πρωί*  
**ΑΙΘΟΥΣΑ “Kallithea”**

- 9:00 – 9:15 **Fabbricino M. and Petta L.**  
Removal of nitrate from contaminated water sources using membrane bioreactor / membrane contactor systems
- 9:15 – 9:30 **Skodras G., Diamantopoulou Ir. and Sakellaropoulos G.P.**  
Role of activated carbon structural properties and surface chemistry in mercury adsorption
- 9:30 – 9:45 **Riga A., Soutsas K., Ntampegliotis K., Karayannis V. and Papapolymerou G.**  
Effect of system parameters, on the decolorization kinetics of procion hexil dyes. Comparison of H<sub>2</sub>O<sub>2</sub>/UV, fenton and TiO<sub>2</sub>/UV-a processes
- 9:45 – 10:00 **Lazaridis N.K., Dafnopatidou E.K., Gallios G.P., Matis K.A. and Tsatsaroni E.G.**  
Color removal from aqueous solutions by flotation
- 10:00 – 10:15 **Zhang Y.P. and Zhou J.L.**  
Removal of estrone and 17β-estradiol from water and wastewater by adsorption and photodegradation
- 10:15 – 10:30 **Skodras G., Natas P., Basinas P. and Sakellaropoulos G.P.**  
Effects of pyrolysis temperature, residence time on the reactivity of clean coals produced from poor quality coals
- 10:30 – 10:45 **Alguacil F.J., Coedo A.G., Dorado M.T., Padilla I. and López-Delgado A.**  
Removal of arsenic (V) from waters by ion exchange
- 10:45 – 11:00 **Aber S., Daneshvar N., Soroureddin M.S., Chabouk A. and Asadpour-Zeynali K.**  
Study of acid orange 7 removal from aqueous solutions by powdered activated carbon and modeling of experimental results by artificial neural network

*Coffee break*

**Session 6**  
**WATER RESOURCES MANAGEMENT (2)**

*Thursday 1 September 2005 – afternoon*  
**ROOM “Colossos A”**

**Συνεδρίαση Νο 6**  
**ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (2)**

*Πέμπτη 1 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos A”**

- 17:00 – 17:15 **Latinopoulos D. and Mylopoulos Y.**  
Optimal allocation of land and water resources in irrigated agriculture by means of Goal Programming: Application in Loudias River Basin
- 17:15 – 17:30 **Lekkas D.F. and Onof C.**  
Improved flow forecasting using artificial neural networks
- 17:30 – 17:45 **Petalas C., Pisinaras V., Koltsida K. and Tsihrintzis V.A.**  
The hydrological regime of the east basin of Thessaly, Greece
- 17:45 – 18:00 **Hatzopoulos J.N., Karafillis S. and Gkitakou D.**  
Digital elevation data and the use of ArcHydro to locate places for creation of small dams in the North East part of the Greek island of Naxos
- 18:00 – 18:15 **Kolovoyiannis V. and Tsirtsis G.**  
Implementation of a high resolution, 3 dimensional, hydrodynamic model to a shallow, semi-enclosed water body, Gulf of Gera, Lesvos
- 18:15 – 18:30 **Papageorgiou A., Latinopoulos P. and Mallios Z.**  
A visual basic toolbar for evapotranspiration estimation in a GIS application

- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Daniil E.I. and Lazaridis L.S.**  
Hydrological modeling considerations for flood management in ungaged basins
- 19:15 – 19:30 **Chouli E., Aftias E., and Deutsch J.-C.**  
Applying storm water management in greek cities, learning from the European experience
- 19:30 – 19:45 **Tsanis I.K., Koutroulis A.G. and Koutsogiannaki I.**  
Simulation of the 1994 flood event in Giofyros poorly gauged basin in Crete
- 19:45 – 20:00 **Vaz N., Dias J.M. and Martins I.**  
The hydrology of a temperate fluvial estuary in early winter

**Session 7**  
**AIR QUALITY (2)**

**Συνεδρίαση Νο 7**  
**ΠΟΙΟΤΗΤΑ ΑΕΡΑ (2)**

**Thursday 1 September 2005 – afternoon**  
**ROOM “Colossos B”**

**Πέμπτη 1 Σεπτεμβρίου 2005 - απόγευμα**  
**ΑΙΘΟΥΣΑ “Colossos B”**

- 17:00 – 17:15 **Neofytou P., Venetsanos A. and Bartzis J.G.**  
Wind-field and pollution-dispersion simulation in a street canyon in Helsinki with ADREA-HF code
- 17:15 – 17:30 **Karakitsios S.P., Pilidis G.A. and Kassomenos P.A.**  
Assessment and prediction of benzene concentrations in a street canyon using various models
- 17:30 – 17:45 **Mavroulidou M., Hughes S.J. and Hellawell E.E.**  
The development of a GIS-based tool for urban air quality assessment
- 17:45 – 18:00 **Dimopoulos I.F., Chronopoulos K.I., Alvertos N. and Tsiros I.X.**  
A preliminary study of predicting meteorological parameters in a canyon using statistical and artificial neural network methods
- 18:00 – 18:15 **Panagoulia D., Grammatikogiannis A. and Bardossy A.**  
An automated classification method of daily circulation patterns for surface climate data downscaling based on optimized fuzzy rules
- 18:15 – 18:30 **Hatzaki M., Flocas H.A., Maheras P., Asimakopoulos D.N. and Giannakopoulos C.**  
Study of future climatic variations of a teleconnection pattern affecting Eastern Mediterranean
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Assimakopoulos V.D., Helmis C.G. and Stathopoulou O.**  
Indoor air quality in the old and new Air Traffic Control Towers of the Athens International Airport
- 19:15 – 19:30 **Halios C.H., Assimakopoulos V.D., Verikokou C.D. and Helmis C.G.**  
Application of analytical and numerical methods to indoor air experimental data: estimation of the deposition velocities of gaseous species
- 19:30 – 19:45 **Katsoyiannis A., Leva P. and Kotzias D.**  
Determination of volatile organic compounds emitted from household products. The case of velvet-carpets (Moquettes)
- 19:45 – 20:00 **Dritselis C.D., Sarris I.E. and Vlachos N.S.**  
Direct numerical simulation of particle pollutant transport and deposition in turbulent duct flows
- 20:00 – 20:15 **Kim H.-G., Kim M.K., Kim B.E. and Yoon H.Y.**  
Optimization of fugitive dust control system according to weather conditions

**Session 8**  
**SOLID WASTE MANAGEMENT (2)**

*Thursday 1 September 2005 – afternoon*  
**ROOM “Colossos B”**

**Συνεδρίαση Νο 8**  
**ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ (2)**

*Πέμπτη 1 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos C”**

- 17:00 – 17:15 **Theodorou S., Giannoulis N., Konstantinou I. and Albanis T.**  
The management of infectious medical waste in Ioannina, Greece
- 17:15 – 17:30 **Dimitriou A., Hatzinikita V. and Christidou V.**  
Solid waste management: Greek citizens' knowledge and attitudes
- 17:30 – 17:45 **Adam K., Chalkiopolou F., Voudouris N. and Grossou-Valta M.**  
Alternative management of spent consumer batteries and accumulators: convergence of the Greek national and EU legislation
- 17:45 – 18:00 **Aguado J., Serrano D.P. and San Miguel G.**  
European trends in feedstock recycling of plastic wastes
- 18:00 – 18:15 **Valta A.A., Menegaki M.E. and Kaliampakos D.C.**  
Electronic waste management in Greece: are people ready to get involved in the process?
- 18:15 – 18:30 **Adamopoulos S., Martinez E. and Ramirez D.**  
Characterization of packaging grade papers from recycled raw materials through the study of fibre morphology and composition
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Ruiz O., Clemente C. and Alguacil F.J.**  
Recycling of an electric arc furnace flue dust to obtain high grade ZnO
- 19:15 – 19:30 **Kutluay G., Iskender (Eremektar) G., Germini Babuna F. and D. Orhon**  
Inert COD fractions of effluents from a solid waste transport station
- 19:30 – 19:45 **Nairn R.W., Meo M., Zaman Md. and Laguros J.G.**  
Remediating and recycling lead mining waste in Oklahoma: the use of passive treatment and road pavement applications to mitigate environmental hazards
- 19:45 – 20:00 **Bougioukou G.G., Papadopoulou M.P. and Karatzas G.P.**  
Landfill leachate impacts on groundwater quality: the case study of municipal landfill of Patras
- 20:00 – 20:15 **Chrysochoou M. and Dermatas D.**  
Comparison of geochemical modeling in chromite ore processing residue using MINTEQA2 and EQ3/6 software
- 20:15 – 20:30 **Steinbrecht D., Wolff H.-J., Matzmohr R., Nassour A. and Didik H.**  
Investigations on disposal of low-calorific landfill gases by a small scale fluidised bubbling bed combustion plant

**Session 9**  
**POLLUTION CONTROL TECHNOLOGIES (2)**

*Thursday 1 September 2005 – afternoon*  
**ROOM “Kallithea”**

**Συνεδρίαση Νο 9**  
**ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (2)**

*Πέμπτη 1 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Kallithea”**

- 17:00 – 17:15 **Navarro P., Vargas C., Alonso M. and Alguacil F.J.**  
Towards a more environmentally friendly process for gold: models on gold adsorption onto activated carbon from ammoniacal thiosulfate solutions
- 17:15 – 17:30 **Mihara N., Kojima Y., Onyango M.S., Matsuda H., Ikehara S., Gushima A., Goto Y. and Kyaw K.**  
Reductive decomposition of waste gypsum in Fe-Si-Al multi-component system
- 17:30 – 17:45 **Kuchar D., Fukuta T., Kojima Y. and Matsuda H.**  
Sulfuration treatment of plating sludges for recovery of metal resource

- 17:45 – 18:00 **Fujita T., Kojima Y., Matsuda H., Ushiroebisu K. and Huang L.**  
Influence of H source on decomposition of halides by non-thermal plasma incorporated with in-situ alkaline absorption
- 18:00 – 18:15 **Tanahashi N., Kojima Y. and Matsuba H.**  
Dry sorption of HCl in pyrolysis gas from PVC waste with coal fly ash-based sorbent
- 18:15 – 18:30 **Kojima Y., Matsubara T., Fukuta T., Matsuda H., Seto F. and Yagishita K.**  
Destruction of cyanide compounds in electroplating wastewater by wet oxidation
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Nakayama K., Mizuno S., Tajima Y., Kawachi T., Kojima Y., Watanabe F., Matsuda H. and Takada M.**  
Effect of ash constituent on separation characteristics of heavy metals from molten fly ash by chloride-induced volatilization
- 19:15 – 19:30 **Sakkas V.A., Dimou A.D., Boti V.I. and Albanis T.A.**  
Photodegradation study of the antifouling agent diuron in aqueous media under simulated solar irradiation
- 19:30 – 19:45 **Karapanagioti H.K., Milatou N., Klontza I. and Iliopoulou E.**  
Impacts of salinity on phenanthrene sorption onto different sorbents
- 19:45 – 20:00 **Zhou M., Dai Q. and Lei L.**  
Advanced electrochemical oxidation process for wastewater purification in life support system
- 20:00 – 20:15 **Zhou M., Dai Q. and Lei L.**  
p-nitrophenol degradation by electrochemical oxidation in the presence of NaCl
- 20:15 – 20:30 **Sobiecka E. and Cedzynska K.**  
Biodegradation effects of waste transformer oil polluted of PCBs in various culture conditions

**Session 10**  
**WATER RESOURCES MANAGEMENT (3)**  
**WATER QUALITY (1) - MARINE POLLUTION**

*Friday 2 September 2005 – morning*  
**ROOM “Colossos A”**

**Συνεδρίαση Νο 10**  
**ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ (3)**  
**ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (1) – ΘΑΛΑΣΣΙΑ ΡΥΠΑΝΣΗ**

*Παρασκευή 2 Σεπτεμβρίου 2005 - πρωί*  
**ΑΙΘΟΥΣΑ “Colossos A”**

- 9:00 – 9:15 **Maramathas A., Gialamas I. and Boudouvis A.G.**  
Simulation of brackish karst springs operation with the MODKARST deterministic model
- 9:15 – 9:30 **Dimitriou E. and Zacharias I.**  
Implementing isotopic and remote sensing techniques to identify inter-catchment groundwater exchanges, in a geologically complex lake catchment
- 9:30 – 9:45 **Tzimopoulos C., Anastasiadis E., Evangelidis C. and Arampatzis G.**  
Water mass balance in the case of vertical infiltration
- 9:45 – 10:00 **Apostolaki M.G., Pountourakis A.N. and Tsanis I.**  
An alternative water balance method of estimating groundwater abstraction
- 10:00 – 10:15 **Mimides T. and Koutsoudis A.**  
The application of fractals in hydrolithological systems analyses
- 10:15 – 10:30 **Zhou J.L., King A.J. and Readman J.W.**  
Speciation of polycyclic aromatic hydrocarbons in sediment interstitial water
- 10:30 – 10:45 **Zhou M., Gu H. and Lei L.**  
Groundwater remediation by three-dimensional electrode biofilm reactor
- 10:45 – 11:00 **Zakikhani M., Harrelson D.W., Pennington J.C., Brannon J.M., Corcoran M.K., Clark J. and Sniffen W.A.**  
Case study of monitored natural attenuation as an alternative remedial action of groundwater
- 11:00 – 11:30 *Coffee break and posters*

- 11:30 – 11:45 **Papadopoulou M.P., Karatzas G.P. and Koukadaki M.A.**  
Modeling the saltwater intrusion phenomenon in the industrial zone of Herakleio, Crete
- 11:45 – 12:00 **Kapniaris S., Pantazidou M., Katsiri A. and Christidis A.**  
Water and sediment pollutants in Elefsis Bay: spatio-temporal trends and a risk-ranking approach
- 12:00 – 12:15 **Krestenitis Y.N., Androulidakis Y. and Kombiadou K.**  
Evolution of the physical parameters of the Gulf of Thessaloniki
- 12:15 – 12:30 **Karydis M.**  
Understanding marine eutrophication from agricultural runoff in semi enclosed areas: a short review in the Gulf of Geras, Greece
- 12:30 – 12:45 **Scoullou M., Giannopoulou K., Sakellari A., Paraskevopoulou V. and Dassenakis M.**  
Cadmium, copper, lead and zinc in Saronikos Gulf in 2004
- 12:45 – 13:00 **Mantzavrakos E., Kornaros M., Lyberatos G. and Kaspiris P.**  
Impacts of a marine fish farm in Argolikos gulf on the water column and the sediment
- 13:00 – 13:15 **Michelakaki M. and Kitsiou D.**  
Estimation of anisotropies in chlorophyll A spatial distributions based on satellite data and variography
- 13:15 – 13:30 **Vousdoukas M., Velegrakis A.F. and Karambas T.**  
Beachrock formation phenomenology and impacts: An example from Vatera Beach, Lesvos Island, Greece

*Lunch break*

**Session 11**  
**AIR QUALITY (3)**  
**ENVIRONMENTAL POLICIES, ECONOMICS (1)**

**Συνεδρίαση Νο 11**  
**ΠΟΙΟΤΗΤΑ ΑΕΡΑ (3)**  
**ΟΙΚΟΝΟΜΙΚΑ ΠΕΡΙΒΑΛΛΟΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ**  
**ΔΙΑΧΕΙΡΙΣΗΣ**

*Friday 2 September 2005 – morning*  
*ROOM "Colossos B"*

*Παρασκευή 2 Σεπτεμβρίου 2005 - πρωί*  
*ΑΙΘΟΥΣΑ "Colossos B"*

- 9:00 – 9:15 **Karavalakis G., Tzirakis E., Matheou L., Stournas S., Zannikos F. and Karonis D.**  
Exhaust emissions from a stationary diesel engine fueled with transesterified animal fat and automotive diesel fuel
- 9:15 – 9:30 **Kalligeros S., Anastopoulos G., Zannikos F., Stournas S., Lois E., Karonis D. and Matheou L.**  
Stationary diesel engine emissions and performance from blends of two specific types of biodiesel and marine gas oil
- 9:30 – 9:45 **Riga – Karandinos A.N., Saitanis C. and Panagopoulos G.**  
PGEs in roadside soils from Athens Metropolitan Area (Greece)
- 9:45 – 10:00 **Ozden O., Dogeroglu T. and Kara S.**  
Development of a new passive sampler for NO<sub>2</sub> and field evaluation in the urban area of Eskisehir, Turkey
- 10:00 – 10:15 **Fourmentin S., Landy D., Blach P., Piat E. and Surpateanu G.**  
Cyclodextrins: a potential absorbent for VOC abatement
- 10:15 – 10:30 **Katsanou O., Zervas E., Pouloupoulos S.G. and Philippopoulos C.J.**  
Photocatalytic oxidation of TCE and MTBE in the gas phase
- 10:30 – 10:45 **Vogiatzis C.**  
Vibration and ground borne noise mitigation measures at Athens Tramway - The Prefarail-Comfort® embedded track & CDM-DFMA-L10® floating slab-track vibration isolation solution
- 10:45 – 11:00 **Tsochatzopoulos I.S. and Tsohos G.Ch.**  
Modelling the urban road traffic noise of Thessaloniki
- 11:00 – 11:30 *Coffee break and posters*

- 11:30 – 11:45 **Synodinos D., Kontogianni A. and Skourtos M.**  
The use of economic instruments for the reduction of noise from civil aviation aircraft. A noise charge for Athens international airport
- 11:45 – 12:00 **Belegri-Roboli A. and Tsolas I.**  
Estimation of intensity coefficients of total emissions in Greece (1988-96): an environmental input-output analysis
- 12:00 – 12:15 **Potoglou D. and Kanaroglou P.S.**  
Will alternative fuelled vehicles contribute to solving the sustainability problem? A framework for assessing future vehicle demand
- 12:15 – 12:30 **Mavrotas G., Ziomas J. and Diakoulaki D.**  
Formulation of an action plan to comply with the limits of the air quality directives: an integrated multicriteria approach
- 12:30 – 12:45 **Georgiou P., Tourkolias C., Diakoulaki D., Georgopoulou E., Mirasgedis S., Sarafidis Y. and Lalas D.**  
Multicriteria evaluation of investment opportunities for the exploitation of the flexible mechanisms of the Kyoto Protocol
- 12:45 – 13:00 **Kalloniatis C., Synodinos D., Kontogianni A. and Skourtos M.**  
Implementation perspectives of Economic Instruments in Greece: the case of transport
- 13:00 – 13:15 **Venables R., Venables J. and Newton J.**  
Tools for assessing the environmental performance and sustainability of building and civil engineering projects

*Lunch break*

<p><b>Session 12</b> <b>SOLID WASTE MANAGEMENT (3)</b> <b>SOIL, SEDIMENT POLLUTION</b></p> <p><i>Friday 2 September 2005 – morning</i> <b>ROOM "Colossos C"</b></p>	<p><b>Συνεδρίαση Νο 12</b> <b>ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ (3)</b> <b>ΡΥΠΑΝΣΗ ΕΔΑΦΩΝ, ΙΖΗΜΑΤΩΝ</b></p> <p><i>Παρασκευή 2 Σεπτεμβρίου 2005 - πρωί</i> <b>ΑΙΘΟΥΣΑ "Colossos C"</b></p>
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- 9:00 – 9:15 **Sikalidis C. and Mitrakas M.**  
Electric arc furnace dust as raw material for powder pressed ceramics
- 9:15 – 9:30 **Papastergios G., Fernandez –Turiel J.L., Georgakopoulos A. and Gimeno D.**  
Slag and ash chemistry after high-calcium lignite combustion in a pulverized coal-fired power plant
- 9:30 – 9:45 **Varnavas S.P., Boufounos D., and Fafoutis D.**  
An investigation of the potential application of bauxite residue in soil / sediment remediation
- 9:45 – 10:00 **Kirillidi Y. and Frogoudakis E.**  
Electric arc furnace slag utilization
- 10:00 – 10:15 **Gazi A.V., Kyriacou A., Kotsou M. and Lasaridi K.E.**  
Microbial community dynamics and stability assessment during green waste composting
- 10:15 – 10:30 **Aguado J., Serrano D.P., Escola J.M. and San Miguel G.**  
Catalytic conversion of waste polyolefins over different acid solids
- 10:30 – 10:45 **Tsatsarelis T., Perkoulidis G., Karagiannidis A. and Moussiopoulos N.**  
Promoting integrated tools for landfill restoration: the case of Kozani prefecture in the region of Western Macedonia
- 10:45 – 11:00 **Karamalidis A.K., Kaffe D. and Voudrias E.A.**  
Metal release from stabilized/solidified oil refinery sludge: comparison with European regulation for landfill disposal
- 11:00 – 11:30 *Coffee break and posters*



- 11:30 – 11:45 **Kastanek F., Maletserova Y., Kastanek P. and Rott J.**  
Complex treatment of soils, waste water and groundwater contaminated by halogenated organic compounds
- 11:45 – 12:00 **Eskioglou P.Ch.**  
Slope stabilization by mulching with use of bitumen emulsion and marble treatment waste
- 12:00 – 12:15 **Douma A.C., Polychronaki E.A., Giourga C. and Loumou A.**  
Effect of fertilizers with the nitrification inhibitor DMPP (3,4-dimethylpyrazole phosphate) on yield and soil quality
- 12:15 – 12:30 **Klontza I. and Karapanagioti H.K.**  
Investigating the properties of plastic resin pellets found in the coastal areas of Lesbos island
- 12:30 – 12:45 **Kalaitzidis S., Christanis K., Cornelissen G. and Gustafsson Ö.**  
Tracing dispersed coaly-derived particles in modern sediments: an environmental application of organic petrography

*Lunch break*

**Session 13**  
**POLLUTION CONTROL TECHNOLOGIES (3)**

*Friday 2 September 2005 – morning*  
**ROOM “Kallithea”**

**Συνεδρίαση Νο 13**  
**ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (3)**

*Παρασκευή 2 Σεπτεμβρίου 2005 - πρωί*  
**ΑΙΘΟΥΣΑ “Kallithea”**

- 9:00 – 9:15 **Modirshahla N. and Behnajady M.A.**  
Photooxidative degradation of Malachite Green (MG) by UV/H<sub>2</sub>O<sub>2</sub>: influence of operational parameters and kinetic modeling
- 9:15 – 9:30 **Mesdaghinia A.R., Nasseri S., Arbabi M. and Rezaie S.**  
Isolation of polycyclic aromatic hydrocarbon-degrading bacteria associated with the petroleum contaminates soils in Iran
- 9:30 – 9:45 **Giannis A., Perysinaki A. and Gidaracos E.**  
Washing enhanced electrokinetic remediation for removal zinc in contaminated soil
- 9:45 – 10:00 **Sidhoum M., Wanaratna P., Nah S., Christodoulatos C., Su T.L., Jasinkiewicz, Faluotico S., Hogrelius K. and Sheehan P.L.**  
Development of a physico-chemical and biological process for the treatment of pink water and perchlorate
- 10:00 – 10:15 **Rizzo L., Koch J., Belgiorno V. and Anderson M.A.**  
Removal of methylene blue in a photocatalytic reactor using polymethylmethacrylate supported TiO<sub>2</sub> film
- 10:15 – 10:30 **Iskender (Eremektar) G., Selcuk H. and Meric S.**  
Effect of ozone oxidation on inert COD fractions and the toxicity in a textile finishing industry wastewater
- 10:30 – 10:45 **Inglezakis V.J., Stylianou M., Loizidou M.D. and Grigoropoulou H.P.**  
Ion exchange in polar organic solvents: zeolite-heavy metals case
- 10:45 – 11:00 **Georgiou D. and Aivasidis A.**  
Decoloration of textile wastewater using immobilized anaerobic microbes and a two-stage fixed-bed-reactor pilot-plant
- 11:00 – 11:30 *Coffee break and posters*
- 11:30 – 11:45 **Bizani E., Fytianos K. and Poullos I.**  
Photocatalytic degradation of an azo-dye and textile wastewaters in TiO<sub>2</sub> suspensions under UV/Vis Irradiation
- 11:45 – 12:00 **Georgantas D.A. and Grigoropoulou H.P.**  
Phosphorus and organic matter removal from synthetic wastewater using alum and aluminum hydroxide

- 12:00 – 12:15 **Farre M.J., Franch M.I., Malato S., Ayllon J.A., Peral J. and Domenech X.**  
Biodegradability of treated aqueous solutions of biorecalcitrant pesticides by means of photocatalytic ozonation
- 12:15 – 12:30 **Tanaka K., Arai Y. and Khlaifat A.L.**  
Photocatalytic degradation of aqueous pollutants on SiO<sub>2</sub>-loaded TiO<sub>2</sub>
- 12:30 – 12:45 **Wisniowska E. and Janosz-Rajczyk M.**  
Selected PAHs concentration changes under nitrate and sulphate reducing conditions
- 12:45 – 13:00 **Diaz-Somoano M., Lopez-Anton M.A. and Martinez-Tarazona M. R.**  
Solid sorbents for trace element removal at high temperatures in coal gasification
- 13:00 – 13:15 **Groudev S.N., Georgiev P.S., Spasova I.I., Nicolova M.V. and Diels L.**  
Treatment of metal - polluted acid drainage by means of a passive system
- 13:15 – 13:30 **Velegraki T., Kalogerakis N., Charalambaki M., Poullos I., Samaras P. and Mantzavinou D.**  
Semiconductor-assisted photocatalytic degradation of azo dye acid orange 7 in aqueous solution

*Lunch break*

**Session 14  
WATER QUALITY (2)**

**Συνεδρίαση Νο 14  
ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (2)**

**Friday 2 September 2005 – afternoon  
ROOM “Colossos A”**

**Παρασκευή 2 Σεπτεμβρίου 2005 - απόγευμα  
ΑΙΘΟΥΣΑ “Colossos A”**

- 17:00 – 17:15 **Akter A. and Babel M.S.**  
Water quality of Mun River, Thailand
- 17:15 – 17:30 **Yamasaki A., Oliveira J.A.B.P., Duarte A.C. and Gomes M.T.S.R.**  
Application of an acoustic wave sensor for copper quantification in the water and particulate matter of the Ria de Aveiro
- 17:30 – 17:45 **Benavides F. and Veenstra J.N.**  
The impact of tropical deforestation on river chemical pollution
- 17:45 – 18:00 **Romas E., Noutsopoulos C. and Andreadakis A.**  
Assessment of the microbial pollution of the Olympic Rowing and Canoeing Center at Schinias through mathematical modeling
- 18:00 – 18:15 **Kanaki M., Nikolaou A., Makri C.A. and Lekkas D.F.**  
The occurrence of priority PAHs, nonylphenol and octylphenol in inland and coastal waters in Athens and Mytilene, Greece
- 18:15 – 18:30 **Bouloud A., Bouchich L., Foutlane A., El Alami M., El Mghari M. and Benabdellah S.**  
Control of algae toxins in the reservoirs used for drinking water in Morocco
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Nikolaou A.D., Gatidou G.M., Golfinopoulos S.K., Thomaidis N. and Lekkas T.D.**  
A one-year survey of organotin compounds in the reservoirs supplying the drinking water treatment plants of Athens
- 19:15 – 19:30 **Selcuk H., Rizzo L., Nikolaou A.D. and Meric S.**  
DBPs formation and toxicity monitoring in different origin water treated by ozone-alum/PAC coagulation
- 19:30 – 19:45 **Kampioti A. and Stephanou E.**  
An inclusive study of the presence of the disinfection by-products in Greek drinking water
- 19:45 – 20:00 **Xanthopoulou N.J., Papagianni M.V., Papaioannou A. and Haralambidou A.**  
Volatile organic compounds in the finished water of the Water Treatment Plant in Thessaloniki, Greece

**Session 15**  
**ENVIRONMENTAL POLICIES, ECONOMICS (2)**

**Συνεδρίαση Νο 15**  
**ΟΙΚΟΝΟΜΙΚΑ ΠΕΡΙΒΑΛΛΟΝΤΟΣ & ΠΟΛΙΤΙΚΕΣ**  
**ΔΙΑΧΕΙΡΙΣΗΣ**

*Friday 2 September 2005 – afternoon*  
**ROOM “Colossos B”**

*Παρασκευή 2 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos B”**

- 17:00 – 17:15 **Vagiona D.G. and Mylopoulos Y.A.**  
A common approach to sustainable development in Prespa Lake system
- 17:15 – 17:30 **Theodossiou N., Latinopoulos P. and Fotopoulou E.**  
Application of Monte Carlo analysis in the delineation of well head protection areas
- 17:30 – 17:45 **Karatzas G.P., Maria E.A. and Velegraki F.**  
The modelling of underground flow and transport of pollutants as a tool of specialisation of the "Polluter Pays" principle
- 17:45 – 18:00 **Zaragoza G., Buchholz M., Jochum P. and Pérez J.**  
WATERGY project: towards a rational use of water in greenhouse agriculture and sustainable architecture
- 18:00 – 18:15 **Xenarios S. and Bithas K.**  
Evaluating the benefits of Water Framework Directive in European wastewater systems
- 18:15 – 18:30 **Hoffmann B., Jensen J.O., Elle M. and Nielsen S.B.**  
Water saving strategies and ecological modernisation - transitions, targets and tools
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Beveridge R., Markantonis V. and Zikos D.**  
Eco-preneurship in the water and wastewater sectors of the North East of England and the Volos region (Greece)
- 19:15 – 19:30 **Karambas Th.V. and Koutitas Chr.**  
Mathematical models for the environmental design of coastal structures
- 19:30 – 19:45 **Beermann M., Kampragkou E., Wolfbauer J. and Mylopoulos Y.**  
Emergy analysis: an integrated decision support tool for environmental preservation and sustainable agriculture. Application in the Nestos Delta area
- 19:45 – 20:00 **Stamou A., Politis M. and Xanthopoulou I.**  
The importance of dam break analysis in Environmental Impact studies for dams

**Session 16**  
**WASTE WATER MANAGEMENT (1)**  
**ECOSYSTEMS (1)**

**Συνεδρίαση Νο 16**  
**ΔΙΑΧΕΙΡΙΣΗ ΥΓΡΩΝ ΑΠΟΒΛΗΤΩΝ (1)**  
**ΟΙΚΟΣΥΣΤΗΜΑΤΑ (1)**

*Friday 2 September 2005 – afternoon*  
**ROOM “Colossos C”**

*Παρασκευή 2 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos C”**

- 17:00 – 17:15 **Dermou E., Velissariou A., Xenos D. and Vayenas D.V.**  
Biological removal of hexavalent chromium from industrial waste
- 17:15 – 17:30 **Oktay S., Iskender (Eremektar) G., Germirli Babuna F., Kutluay G. and Orhon D.**  
Wastewater management for a soft drink industry
- 17:30 – 17:45 **Qin S.Y., Chen Z.X., Ma F., Guo S.H., Niu Y.F. and Li F.M.**  
Bio-surfactant preparation for oily sludge treatment
- 17:45 – 18:00 **Tahar N., Toumi L., Salem Z. and Allia K.**  
Biological treatment of water contaminated by hydrocarbons in three-phase gas-liquid-solid fluidized bed
- 18:00 – 18:15 **Selcuk H. and Meric S.**  
Ozone pre-oxidation of a textile industry wastewater for acute toxicity removal

- 18:15 – 18:30 **Oral R., Meric S., Tunay O., De Nicola E., Petruzzelli D. and Pagano G.**  
Multi-species toxicity monitoring in a chromium-based leather tannery wastewater
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Tomara V., Dassenakis M., Paraskevopoulou V. and Voulgaris N.**  
Geo-environmental study of the Korissia Lagoon (Corfu)
- 19:15 – 19:30 **Spatharis S. and Tsirtsis G.**  
Description of phytoplankton community structure in the Aegean Sea: a comparative analysis of the log series and lognormal statistical models
- 19:30 – 19:45 **Kavakli Z., Papapetrou P., Spatharis S. and Tsirtsis G.**  
Application of LOICZ budget analysis to a semi-enclosed coastal ecosystem in the Aegean
- 19:45 – 20:00 **Kosmopoulos P., Manoliadis O., Baronos A., Zafeiriadis K. and Georgi J.**  
Environmental perceptions of landscape values around the lake Kastoria, Western Macedonia Greece
- 20:00 – 20:15 **Karantounias G.A., Dercas N. and Papazoglou E.G.**  
Environmental impacts on protected biotopes from irrigation water overconsumption and relevant rehabilitation works - the case of Kotychi sea-lagoon
- 20:15 – 20:30 **Papazoglou E.G., Karantounias G.A. and Bouranis D.L.**  
Growth and biomass allocation of *Arundo Donax* L. under heavy metal application

**Session 17**  
**POLLUTION CONTROL TECHNOLOGIES (4)**

*Friday 2 September 2005 – afternoon*  
**ROOM “Kallithea”**

**ΣΥΝΕΔΡΙΑΣΗ Νο 17**  
**ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (4)**

*Παρασκευή 2 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Kallithea”**

- 17:00 – 17:15 **Khan G.M., Kim G.-Y., Akiralanre T.S. and Moon S.-H.**  
Electroenzymatic mineralization of chlorinated biphenyl in synthetic wastewater
- 17:15 – 17:30 **Dokianakis S.N., Kornaros M. and Lyberatos G.**  
On the effect of xenobiotics on bacterial nitrite oxidation
- 17:30 – 17:45 **Ntaikou I., Gavala H.N., Kornaros M. and Lyberatos G.**  
Hydrogen production from sweet sorghum biomass using *ruminococcus albus*
- 17:45 – 18:00 **Kantartzi S.G., Vaiopoulou E., Kapagiannidis A. and Aivasidis A.**  
Kinetic characterization of nitrifying pure cultures in chemostate
- 18:00 – 18:15 **Wang Q., Ma P. , Wu N. and Jia Q.**  
Kinetics of phenol degradation by *Streptococcus*
- 18:15 – 18:30 **Nikolopoulou M. and Kalogerakis N.**  
Enhanced bioremediation of crude oil utilizing lipophilic fertilizers combined with biosurfactants to combat oilspills
- 18:30 – 19:00 *Coffee break and posters*
- 19:00 – 19:15 **Daneshvar N., Aber S. and Hosseinzadeh F.**  
Study of acid orange 7 removal in contaminated water by photocatalytic oxidation process
- 19:15 – 19:30 **Andrzejewski P., Kasprzyk-Hordern B. and Nawrocki J.**  
The N-nitrosomethylethylamine (NMEA), new disinfection byproducts, formation during water disinfection with chlorine
- 19:30 – 19:45 **Shao Z., Zhou M., Qiao S. and Lei L.**  
Diatomite precoating filtration of micropolluted water by combination with bentonite adsorption process
- 19:45 – 20:00 **Naddeo V., Belgiorno V. and Napoli R.M.A.**  
Effect of sonication on removal of natural organic matters

20:00 – 20:15 **Jiang J.-Q., Wang S. and Panagouloupoulos A.**  
Comparative disinfection/coagulation performance of potassium ferrate(VI) in drinking water and sewage treatment

**Session 18**  
**WATER QUALITY (3)**

**Συνεδρίαση Νο 18**  
**ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (3)**

**Saturday 3 September 2005 – morning**  
**ROOM “Colossos A”**

**Σάββατο 3 Σεπτεμβρίου 2005 - πρωί**  
**ΑΙΘΟΥΣΑ “Colossos A”**

9:00 – 9:15 **Fabbricino M., Panico A., Scotto A. and Tegazzini V.**  
Drinking water contamination due to internal corrosion of copper distribution pipes

9:15 – 9:30 **Tekerlekopoulou A.G. and Vayenas D.V.**  
Ammonia, iron and manganese removal from potable water using trickling filters

9:30 – 9:45 **Wong H., Mok K.M. and Fan X.J.**  
Natural Organic Matter and its effects on THM formation in two water treatment processes

9:45 – 10:00 **Uyguner C.S., Suphandag S.A., Kerc A. and Bekbolet M.**  
Evaluation of adsorption and coagulation characteristics of humic acids preceded by alternative advanced oxidation techniques

10:00 – 10:15 **Della Rocca C., Belgiorno V. and Meric S.**  
Innovative heterotrophic/autotrophic denitrification (HAD) of drinking water: effect of ZVI on nitrate removal

10:15 – 10:30 **Roccaro P., Barone C., Mancini G. and Vagliasindi F.G.A.**  
Removal of natural contaminants from water supplies intended for human consumption

10:30 – 10:45 **Babi K.G., Koumenides K.M., Nikolaou A.D., Makri C.A., Tzoumerkas F.K. and Lekkas T.D.**  
Pilot study of the removal of THMs, HAAs and DOC from drinking water by GAC adsorption

10:45 – 11:00 **Samios S., Lekkas T.D., Nikolaou A.D. and Golfinopoulos S.K.**  
Structural investigations of aquatic humic substances from different watersheds

11:00 – 11:30 *Coffee break and posters*

11:30 – 11:45 **Vafeiadou P., Papakonstantis I. and Christodoulou G.**  
Numerical simulation of inclined negatively buoyant jet

11:45 – 12:00 **Markou D.A., Gikas G.D., Haralambidou K., Sylaios G.K. and Tsihrintzis V.A.**  
Impact of bottom sediments on water quality of Vistonis lagoon

12:00 – 12:15 **Kobayashi Y., Kazemiya Y., Nitta M. and Murata S.**  
Isolation of degradation products of nonionic detergents from estuarine sediments

12:15 – 12:30 **Lovrencic I., Orescanin V., Barisic D., Mikelic L., Rozmaric Macefat M., Lulic S. and Pavlovic G.**  
Characterization of tenorm and sediments of Kastela Bay and the influence of tenorm on the quality of sediments

12:30 – 12:45 **Christophoridis C. and Fytianos K.**  
Study of the conditions affecting the release of phosphorus from the top sediments of two lakes of Northern Greece

12:45 – 13:00 **Vagi M.C., Kostopoulou M.N., Petsas A.S., Laloussi M.E., Rasouli Ch. and Lekkas T.D.**  
Toxicity of organophosphorus pesticides to the green alga *Tetraselmis suecica*

13:00 – 13:15 **Liu R.X., Zhou J.L. and Wilding A.**  
Dynamic behaviour of endocrine disrupting chemicals in the aquatic environment

*Lunch break*

- 9:00 – 9:15 **Robu B. and Macoveanu M.**  
Integration of risk assessment into environmental impact assessment procedure - case study for steel processing
- 9:15 – 9:30 **Koroneos C., Vasileiadis M., Xydis G. and Moussiopoulos N.**  
Life cycle assessment of solid oxide fuel cells
- 9:30 – 9:45 **Ancarani A., Santamaria A. and Vagliasindi F.G.A.**  
Identification of a set of indicators for analysing performances in solid waste service sector
- 9:45 – 10:00 **Economopoulou A.A. and Econopoulos A.P.**  
Transport distances versus economies of scale for municipal solid waste treatment and disposal installations
- 10:00 – 10:15 **Moussiopoulos N., Barmpas Ph., Vlachokostas Ch. and Ossanlis I.**  
Comparison of experimental results and model simulations and cost-effectiveness assessment of photocatalytic covering techniques
- 10:15 – 10:30 **Moussiopoulos N., Achilles H., Avramidis A., Boudouvas D., Giama E., Karagiannidis A., Papadopoulos A., Perkoulidis G., Sioris K. and Vlachos D.**  
Cost analysis of the management of electrical and electronic products at the end of their useful life
- 10:30 – 10:45 **Kyriazis C. and Lolonis P.**  
Utilization of Parcel-based, spatial and legal databases in environmental management
- 10:45 – 11:00 **Zygouras G., Kornaros M. and Angelopoulos K.**  
Life cycle assessment (LCA) as a tool for assessing the environmental performance of flour production in Greece
- 11:00 – 11:30 *Coffee break and posters*
- 11:30 – 11:45 **Eyles J., Keller-Olaman S. and Wilson K.**  
Environmental disadvantages, and housing, and neighbourhood quality in Hamilton, Ontario, Canada
- 11:45 – 12:00 **Szarka N. and Wolfbauer J.**  
Balanced Benefit Score Card (BBSC) for decision support in developing environmental competitiveness in the frame of new agricultural policy
- 12:00 – 12:15 **Zachariadis T.**  
Assessment of sustainable transport policies with an energy-economy-environment model
- 12:15 – 12:30 **Hadjibiros K., Mantziaras I.D., Sakellariadis D.G. and Giannakidou Ch.**  
Preliminary pollution risk assessment from polymetallic sulphide mining disposals
- 12:30 – 12:45 **Kourouxou M.I., Siardos G.K., Iakovidou O.I. and Kalburtji K.L.**  
Olive trees farmers: agricultural management, attitudes and behaviours toward environment
- 12:45 – 13:00 **Damikouka I., Katsiri A. and Tzia C.**  
Application of HACCP principles in drinking water
- 13:00 – 13:15 **Shutko A., Krissilov A., Coleman T., Haarbrink R., Krapivin V., Stepanov V., Krissilov V., Koshelev I., Kostenjuk B., Yakovlev E., Baryshnikov I., Haldin A., Novichikhin E., Chukhlantsev A., Golovachev S., Sidorov I., Marechek S., Chukhraj G., Archer F., Tadesse W. and Nwaneri S.**  
Experience of long-term international collaboration in the field of remote sensing of the earth: Example of Joint Russia-Ukraine-USA-Netherlands Scientific Collaboration in Microwave Radiometry of Land Surface

*Lunch break*

**Session 20  
ECOSYSTEMS (2)**

**Συνεδρίαση Νο 20  
ΟΙΚΟΣΥΣΤΗΜΑΤΑ (2)**

**Saturday 3 September 2005 – morning  
ROOM “Colossos C”**

**Σάββατο 3 Σεπτεμβρίου 2005 - πρωί  
ΑΙΘΟΥΣΑ “Colossos C”**

- 9:00 – 9:15 **Norgrove L. and Hauser S.**  
Ecological and economic effects of applying fungicide in shaded cacao systems in the first year of rehabilitation
- 9:15 – 9:30 **Mimides T. and Kathariou L.**  
Radioactive iodine in terrestrial ecosystems
- 9:30 – 9:45 **Doukakis E.**  
Shoreline evolution: past, seasonal and future trends
- 9:45 – 10:00 **Manana Gongora G.Y., Lopez Poot J.C., Ortiz Milan S.M., Roche Diaz E. and Davis J.S.**  
Recovery of a commercial solar saltworks damaged by a hurricane: role of biological management
- 10:00 – 10:15 **Collares Pereira M., Mendes J.F., Horta P. and Korovessis N.**  
Final desing of an advanced solar dryer for salt recovery from brine effluent of a desalination MED plant
- 10:15 – 10:30 **Doukakis E.**  
Coastal red spots along the western Thermaikos Gulf
- 10:30 – 10:45 **Akraros C.S., Tsihrintzis V.A. and Papaspyros J.N.E.**  
Performance of pilot-scale horizontal subsurface flow constructed wetlands in wastewater treatment
- 10:45 – 11:00 **Giannakopoulou F., Haidouti C., Chronopoulou A. and Massas I.**  
The effect of soil type on Cs uptake by *Lolium perenne* plants
- 11:00 – 11:30 *Coffee break and posters*
- 11:30 – 11:45 **Gasparatos D., Haidouti C., Adrinopoulos F. and Areta O.**  
Chemical speciation and bioavailability of Cu, Zn and Pb in soils from the National Garden of Athens, Greece
- 11:45 – 12:00 **Lai H.-Y. and Chen Z.-S.**  
Phytoextraction of rainbow pink (*Dianthus chinensis*) growing in cadmium-, lead-, and zinc-contaminated soil of Taiwan
- 12:00 – 12:15 **Gritzalis K.C., Stoumboudi M.T. and Karaouzas I.D.**  
Detection of short-term ecological changes using benthic fauna monitoring in a Mediterranean island river (Gadouras R., Rhodes Island, Greece)
- 12:15 – 12:30 **Konstantinou I., Hela D., Lambropoulou D., Sakellarides T., Dimou A., Akriotis T. and Albanis T.**  
PCBs and organochlorine pesticides concentration levels in liver and fat tissues of diurnal (*Falconiformes*) and nocturnal (*Strigiformes*) birds of prey from Greece
- 12:30 – 12:45 **Manousaki E., Kadukova J., Naxakis G. and Kalogerakis N.**  
Release of Pb and Cd by the leaves of the mediterranean plant *Tamarix Smyrnensis*
- 12:45 – 13:00 **Huang C.-P. and Chen C.-Y.**  
Toxicity of nitriles and their derivatives on *Raphidocelis subcapitata* (algae)
- 13:00 – 13:15 **Hosseini S.M., Mahdei K.N. and Kalantari K.**  
A study on environmental sustainability in farming systems of Salihabad District, Hamadan-Iran

*Lunch break*

**Session 21**  
**WASTE WATER MANAGEMENT (2)**

**Saturday 3 September 2005 – morning**  
**ROOM “Kallithea”**

**Συνεδρίαση Νο 21**  
**ΔΙΑΧΕΙΡΙΣΗ ΥΓΡΩΝ ΑΠΟΒΛΗΤΩΝ (2)**

**Σάββατο 3 Σεπτεμβρίου 2005 - πρωί**  
**ΑΙΘΟΥΣΑ “Kallithea”**

- 9:00 – 9:15 **Kapagiannidis A.G., Vaiopoulou E. and Aivasidis A.**  
Determination of kinetic parameters in a pilot scale BNR system treating municipal wastewater
- 9:15 – 9:30 **Pagana A., Stoitsas K. and Zaspalis V.T.**  
Applied pilot-scale studies on ceramic membrane processes for the treatment of wastewater streams
- 9:30 – 9:45 **Tziotzios G., Lyberatos G. and Vayenas D.V.**  
Biological phenol removal
- 9:45 – 10:00 **Fillos J., Ramalingam K. and Carrio L.A.**  
Integrating separate centrate treatment with conventional plant operations for nitrogen removal
- 10:00 – 10:15 **Papadimitriou C., Dabou X., Samaras P. and Sakellaropoulos G.P.**  
Coke oven wastewater treatment by two activated sludge systems
- 10:15 – 10:30 **Donta A.A.**  
Wastewater sprinkling: A method to improve the quality of waters
- 10:30 – 10:45 **Batziaka V., Fytianos K. and Voudrias E.**  
Leaching of nitrogen, phosphorus, TOC and COD from the biosolids of the municipal wastewater treatment plant of Thessaloniki
- 10:45 – 11:00 **Fountoulakis M., Drillia P., Pakou C., Kampioti A., Stamatelatou K. and Lyberatos G.**  
Fate of nonylphenol and nonylphenol ethoxylates in sewage treatment plants
- 11:00 – 11:30 *Coffee break and posters*
- 11:30 – 11:45 **Ioannidis Th.A., Kyriakis N., Zouboulis A.I., Lazaridis N. and Karapantsios Th.**  
The role of precipitation in the wastewater treatment, recycling and reuse
- 11:45 – 12:00 **Gavalakis E., Mamais D., Marinos C. and Andreadakis A.**  
An experimental and mathematical simulation of biological processes in sewerage system
- 12:00 – 12:15 **Mamais D., Nikitopoulos G., Andronikou E., Gavalakis E., Andreadakis A., Giotakis C. and Tsimarakis G.**  
Influence of the presence of long chain fatty acids (LCFAs) in the sewage on the growth of *M. Parvicella* in activated sludge wastewater treatment plants
- 12:15 – 12:30 **Sun Zi-Hui**  
The effective use of technology and prospect municipal wastewater heat energy in China
- 12:30 – 12:45 **Ammary B.**  
Wastewater reuse in Jordan: present status and future plans
- 12:45 – 13:00 **Ma F., Wang H.Y. and Zhou D.D.**  
Denitrifying performances of an aerobic denitrifier, *Pseudomonas chloritidismutans* strain X31
- 13:00 – 13:15 **Mathioudakis V.L., Vaiopoulou E. and Aivasidis A.**  
Addition of nitrate for odor control in sewer networks: laboratory and field experiments
- 13:15 – 13:30 **Noutsopoulos C., Brionis A. and Andreadakis A.**  
Mathematical modeling of sequencing batch reactors

*Lunch break*



**Session 22**  
**WATER QUALITY (4) ANALYTICAL METHODS**

**Συνεδρίαση Νο 22**  
**ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ (4) – ΑΝΑΛΥΤΙΚΕΣ ΜΕΘΟΔΟΙ**

*Saturday 3 September 2005 – afternoon*  
**ROOM “Colossos A”**

*Σάββατο 3 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos A”**

- 17:00 – 17:15 **Amvrazi E.G. and Albanis T.A.**  
Determination of various pesticide residues in Greek virgin olive oil by a multiresidue method using different clean-up procedures and gas chromatography
- 17:15 – 17:30 **Vagi M.C., Petsas A.S., Karamanoli M.K. and Kostopoulou M.N.**  
Determination of organochlorine pesticides in marine sediments samples using ultrasonic solvent extraction followed by GC/ECD
- 17:30 – 17:45 **Antonίου C.V., Koukouraki E.E. and Diamadopoulos E.**  
Analysis of chlorinated volatile organic compounds in water and wastewater by means of headspace-SPME-GC
- 17:45 – 18:00 **Elliott S., Lead J. and Baker A.**  
Intrinsic fluorescence of bacterial cultures: comparison of humic acid and glucose growth media
- 18:00 – 18:15 **Petala M., Tsiridis V., Kyriazis S., Samaras P., Kungolos A. and Sakellaropoulos G.P.**  
Evaluation of toxic response of heavy metals and organic pollutants using the Microtox acute toxicity test
- 18:15 – 18:45 *Coffee break*

**Session 23**  
**ENVIRONMENTAL POLLUTION & HUMAN HEALTH**

**Συνεδρίαση Νο 23**  
**ΠΕΡΙΒΑΛΛΟΝΤΙΚΗ & ΕΡΓΑΣΙΑΚΗ ΥΓΕΙΑ**

*Saturday 3 September 2005 – afternoon*  
**ROOM «Colossos B»**

*Σάββατο 3 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos B”**

- 17:00 – 17:15 **Sarueva R.B., Andonova I.E., Genova J.A., Horvath A.D., Simeonov V.A., Dimitrov P.S., Petropoulos E.A., Eap C.B. and Ganev V.S.**  
Balkan endemic nephropathy and genetic variants of xenobiotic metabolizing enzymes
- 17:15 – 17:30 **Bhatia A.L.**  
Radiation Risk: Technological perspectives and public perception of the tritium toxicity in the environment
- 17:30 – 17:45 **Zarkanitis S., Duci A., Chaloulakou A. and Spyrellis N.**  
Modeling of exposure to CO for school children in the Athens area
- 17:45 – 18:00 **Nastos P.T., Paliatsos A.G., Priftis K.N., Panagiotopoulou-Gartagani P., Tapratzi-Potamianou P., Zachariadi-Xypolita A. and Saxoni-Papageorgiou P.**  
The influence of bioclimatic factors to the hospitalizations for childhood asthma in Athens (1978-2000)
- 18:00 – 18:15 **Pouliou T. and Kanaroglou P.S.**  
Socioeconomic and environmental covariates of respiratory health in Greece
- 18:15 – 18:45 *Coffee break*

**Session 24**  
**GLOBAL CHANGE / AIR QUALITY (4)**

**Συνεδρίαση Νο 24**  
**ΠΛΑΝΗΤΙΚΗ ΑΛΛΑΓΗ / ΠΟΙΟΤΗΤΑ ΑΕΡΑ (4)**

*Saturday 3 September 2005 – afternoon*  
**ROOM “Colossos C”**

*Σάββατο 3 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Colossos C”**

- 17:00 – 17:15 **Hajan N., Zobeyer A.T.M.H. and Bhuiyan M.A.**  
El-Nino/Southern Oscillation (ENSO): recent evolution and possibilities for long range flow forecasting in the Brahmaputra-Jamuna River

- 17:15 – 17:30 **van Ekeren J.S., Fierz M., Burtscher H., Lihavainen H., Weingartner E. and Baltensperger U.**  
Cloud particle measurements with an new CCN counter at remote locations in Europe
- 17:30 – 17:45 **Gerasopoulos E., Kouvarakis G., Vrekoussis M., Kanakidou M. and Mihalopoulos N.**  
Analysis of ozone trends in the east Mediterranean
- 17:45 – 18:00 **Tsigaridis K., Lathiere J., Kanakidou M. and Hauglustaine D.**  
Naturally driven variability in the global secondary organic aerosol over a decade
- 18:00 – 18:15 **Vrekoussis M., Kanakidou M., Liakakou H., Mihalopoulos N., Crutzen P.J. and Lelieveld J.**  
Formation of HNO<sub>3</sub> and particulate NO<sub>3</sub> in the polluted marine boundary layer of the Eastern Mediterranean
- 18:15 – 18:45 *Coffee break*

**Session 25**  
**POLLUTION CONTROL TECHNOLOGIES (5)**

**Συνεδρίαση No 25**  
**ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ (5)**

*Saturday 3 September 2005 – afternoon*  
**ROOM “Kallithea”**

*Σάββατο 3 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Kallithea”**

- 17:00 – 17:15 **Papandreou A., Stournaras C.J. and Panias D.**  
Adsorption of Cu (II) on ceramic structures made from Greek fly ash
- 17:15 – 17:30 **Matsis V. and Grigoropoulou H.P.**  
Aeration / Stripping of 1-butylmercaptan in aqueous environment
- 17:30 – 17:45 **Gizgis N., Georgiou M. and Diamadopoulos E.**  
Combined anaerobic and aerobic biological co-treatment of olive mill wastewater and municipal wastewater
- 17:45 – 18:00 **Goula M.A., Skitzi C. and Skodras G.**  
Potential of fly ash utilization in Greece
- 18:00 – 18:15 **Triantafyllidis V., Hela D., Salachas G., Dimopoulos P. and Albanis T.**  
Pendimethalin losses in surface runoff from plots cultivated with tobacco
- 18:15 – 18:45 *Coffee break*

**Session 26**  
**CLOSING SESSION**

**Συνεδρίαση No 26**  
**ΚΛΕΙΣΙΜΟ - ΣΥΜΠΕΡΑΣΜΑΤΑ**

*Saturday 3 September 2005 – afternoon*  
**HALL “Marika Capsis”**

*Σάββατο 3 Σεπτεμβρίου 2005 - απόγευμα*  
**ΑΙΘΟΥΣΑ “Marika Capsis”**

- 18:45 – 19:05 **Andreadakis A., Gavalakis E., Tzimas A. and Kaliakatsos L.**  
The implementation of the Water Framework Directive (WFD) at the river basin of Anthemountas with emphasis on the pressures and impacts analysis
- 19:05 – 19:25 **Grammatikogiannis A., Mamassis N., Baltas E. and Mimikou M.**  
A meteorological telemetric network for monitoring of the Athens wider area (METEONET). A real time approach from point to areal measurements
- 19:25 – 19:45 **Manoli E., Katsiardi P., Arampatzis G. and Assimacopoulos D.**  
Comprehensive water management scenarios for strategic planning
- 19:45 – 20:30 Chairman’s conclusions - Closure
- 21:30 Official Dinner

Thursday 1 September 2005 – afternoon

Πέμπτη 1 Σεπτεμβρίου 2005 - απόγευμα

**A. WATER RESOURCES MANAGEMENT  
WATER QUALITY**

**ΔΙΑΧΕΙΡΙΣΗ ΥΔΑΤΙΚΩΝ ΠΟΡΩΝ  
ΠΟΙΟΤΗΤΑ ΝΕΡΩΝ**

- |            |  |                        |
|------------|--|------------------------|
| <b>A1</b>  | <b>Belic S., Belic A. and Savic R.</b><br>Water resources management in Vojvodina province   | <b>WRM<sup>1</sup></b> |
| <b>A2</b>  | <b>Charalampides G., Vatalis K., Manoliades O., Sachanidis C., Tsihrintzis V. and Karantounias G.</b><br>Risk assessment in water resources management of Polyfyto Lake in Western Macedonia, Greece | <b>WRM</b>             |
| <b>A3</b>  | <b>Fikos I., Ziankas G., Rizopoulou A. and Famellos A.</b><br>Water balance estimation in Anthemountas river basin and correlation with underground water level                                      | <b>WRM</b>             |
| <b>A4</b>  | <b>Hadjimitsis D.G., Toullos L., Hadjimitsis M., Hadjimitsi C., Xenophonos X. and Clayton C.</b><br>Remote sensing in support of coastal zone management of the Paphos District area in Cyprus       | <b>WRM</b>             |
| <b>A5</b>  | <b>Hasna A.M. and Thorpe D.</b><br>Sustainable Resource Management of engineering technologies - towards an assessment framework   | <b>WRM</b>             |
| <b>A6</b>  | <b>Kolokytha E.</b><br>Indicators of integrated water resources management. The case of Koronia lake   | <b>WRM</b>             |
| <b>A7</b>  | <b>Kontogianni A.V. and Bartzokas A.</b><br>A study on evaporation in Ioannina, NW Greece  | <b>WRM</b>             |
| <b>A8</b>  | <b>Missa V., Noutsopoulos K., Aftias E. and Hadjibiros K.</b><br>Environmental impact of urban stormwater discharges. Problems related to the application of BMPs in Greece                          | <b>WRM</b>             |
| <b>A9</b>  | <b>Papaioannou G., Mitropoulou A., Kalamaras N. and Michalopoulou H.</b><br>Short and long period drought indices over Greece  | <b>WRM</b>             |
| <b>A10</b> | <b>Papaioannou G., Kitsara G., Mitropoulou A. and Markopoulos P.</b><br>Reference crop evapotranspiration and agricultural rainfall index  | <b>WRM</b>             |
| <b>A11</b> | <b>Papoutsakis G. and Tsouchlaraki A.</b><br>Water supply management in self-governed areas with complex activity – the case of the Hellenic Naval Academy   | <b>WRM</b>             |
| <b>A12</b> | <b>Ramezani Gourabi B.</b><br>The role of slope management in flooding basin (case study: Flood August 1998 - Masouleh, Guilan - Iran)   | <b>WRM</b>             |
| <b>A13</b> | <b>Sakellariou - Makrantonaki M., Tzavela E. and Vyrlas P.</b><br>Water conservation by irrigating with municipal liquid wastes  | <b>WRM</b>             |
| <b>A14</b> | <b>Seyfi L. and Ghazban F.</b><br>Effects of improper land-use in increasing flood damages in Karaj River floodplain (North Central Iran) and damage control strategies                              | <b>WRM</b>             |
| <b>A15</b> | <b>Tzimopoulos C.D., Chalkidis I.N., Moutsopoulos K.N., Sakellariou M., Yannopoulos St. and Evangelides C.H.</b><br>Soil water balance using fuzzy calculation                                       | <b>WRM</b>             |
| <b>A16</b> | <b>Tzimopoulos C., Zeibeki A., Ginidi P. and Evangelidis C.</b><br>Water resources management in the watershed of Volvi Lake   | <b>WRM</b>             |

<sup>1</sup> WRM – Water Resources Management – Διαχείριση Υδατικών Πόρων

<b>A17 Yamazaki Y. and Orgaz M.D.M.</b>	<b>WRM</b>
Forecasting mesoscale precipitation using the MM5 model with the four-dimensional data assimilation (FDDA) technique	
<b>A18 Gaganis P.</b>	<b>WRM</b>
Modelling the spatial and temporal trends of carbon isotope fractionation of VOC mixtures in the unsaturated zone	
<b>A19 Chartzoulakis K., Kasapakis I. and Tzobanoglou D.</b>	<b>WRM</b>
Improving water efficiency: the irrigation advisory service for farmers in Crete, Greece	
<b>A20 Afsharasl M., Rahbari P., Mohammadi K., Liaghat A. and Kaviani A.</b>	<b>WQ<sup>2</sup></b>
Analysis of Groundwater Contamination with Nitrate Using GLEAMS & GS+	
<b>A21 Aloupi M., Angelidis M.O., Gabriel A., Karantanelli M., Koulousaris M., Nikolaou A., Petsas A., Tsirtsis G., Vagi M. and Vlatsiotou F.</b>	<b>WQ</b>
Marine monitoring along the eastern coastal area of the island of Lesbos, Greece in 2004 – MEDPOL III	
<b>A22 Bechrakis N., Lambropoulou D., Selimi P. and Albanis T.</b>	<b>WQ</b>
High performance liquid chromatographic determination of pharmaceutical compounds in wastewaters	
<b>A23 Belias C., Ladakis E., Papakonstantinou K., Dassenakis E. and Scoullou M.</b>	<b>WQ</b>
The influence of fish farming in the addition of particulate nitrogen in coastal environments	
<b>A24 Belic A. and Popovic T.</b>	<b>WQ</b>
Power of self-purification in some canals of Danube-Tisa-Danube hydro-system	
<b>A25 Christia C. and Papastergiadou E.S.</b>	<b>WQ</b>
Evaluation of environmental conditions in three coastal lagoons of the Amvrakikos gulf (Ionian Sea)	
<b>A26 Dabrowska A., Kasprzyk Hordern B. and Nawrocki J.</b>	<b>WQ</b>
Aldehydes formation during water disinfection by ozonation and chlorination process	
<b>A27 Farmaki E., Kaloudis T., Dimitrou K., Thanassoulis N., Kousouris L. and Tzoumerkas F.</b>	<b>WQ</b>
Validation of an FT-IR method for the determination of oils and grease in water, with use of tetrachloroethylene as the extraction solvent	
<b>A28 Gangal R.K.</b>	<b>WQ</b>
Geochemical study of ground water of Sanganer area of Jaipur district of Rajasthan (India) and different methods to mitigate fluoride problem	
<b>A29 Gikas G.D., Sylaios G.K., Balomenos G., Akrotos C.S., Tsihrintzis V.A. and Jerrentrup H.</b>	<b>WQ</b>
Monitoring of physicochemical parameters in four lakes in Chrysoupolis, Kavala, Greece	
<b>A30 Habuda-Stanic M., Kules M., Kalajdzic B. and Romic Z.</b>	<b>WQ</b>
Quality of groundwater in eastern Croatia. The problem of arsenic pollution	
<b>A31 Kavoura O., Katsiris N., Zervas G., Damikouka I. and Katsiri A.</b>	<b>WQ</b>
Determination of pesticides in drinking water using solid phase extraction GC/MS	
<b>A32 Kombiadou K.D. and Krestenitis Y.N.</b>	<b>WQ</b>
Mathematical simulation of pollutant transport in marine environment	
<b>A33 Koutsomitrou T., Lasaridi K.E., Abeliotis K., Kotsou M. and Kyriacou A.</b>	<b>WQ</b>
Evaluation of the waters' quality in Litheos river in Trikala - Central Greece	
<b>A34 Lai H.-Y. and Chen Z.-S.</b>	<b>WQ</b>
Multi-dose applying EDTA to decrease the potential groundwater contamination using rainbow pink ( <i>Dianthus chinensis</i> ) for enhanced-phytoextraction	
<b>A35 Lepom P., Borchers U. and Hanke G.</b>	<b>WQ</b>
Priority substance monitoring – are the existing European standard methods fit for purpose?	

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<sup>2</sup> WQ – Water Quality – Ποιότητα νερών

- A36 Mavredaki E., Neofotistou E., Stathouloupoulou A., Tsiknakis M. and Demadis K.D.** **WQ**  
Use of environmentally benign chemical additives in water treatment technologies: the contribution of green chemical technology
- A37 Triantafyllaki S., Dassenakis M. and Psaroudakis N.** **WQ**  
Determination of polycyclic aromatic hydrocarbons in seawater by high performance liquid chromatography with photo diode array and fluorescence detection
- A38 Vasalakis A., Voudouris K., Fytikas M. and Dimopoulos G.** **WQ**  
Groundwater quality in Naxos island, Cyclades, Greece

Friday 2 September 2005 – morning

Παρασκευή 2 Σεπτεμβρίου 2005 - πρωί

**B. GLOBAL CHANGE  
AIR QUALITY  
POLLUTION CONTROL TECHNOLOGIES (1)**

**ΠΛΑΝΗΤΙΚΗ ΑΛΛΑΓΗ  
ΠΟΙΟΤΗΤΑ ΑΕΡΑ  
ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ**

- B1 Aculinin A.A.** **GC<sup>3</sup>**  
Total column ozone and solar UV-B erythematol irradiance over Kishinev, Moldova
- B2 Katsanou O., Zervas E., Pouloupoulos S.G. and Philippopoulos C.J.** **GC**  
CO<sub>2</sub> benefit from the increasing percentage of diesel passenger cars. Case of Finland
- B3 Rajic M. and Rajic M.** **GC**  
Influence of climatic change to water deficit
- B4 Tzanakou M. and Deligiorgi D.** **GC**  
Trends of the daily maximum temperatures in relation with the climatic change and the urbanization in the Athens basin
- B5 Alkama R., Ait Idir F. and Slimani Z.** **AQ<sup>4</sup>**  
Estimation and measurement of the automobile pollution: application to Bejaia case
- B6 Dimitriou A. and Tsoukali H.** **AQ**  
Risk assessment due to use of chemicals in a toxicology laboratory: a case study
- B7 Evagelopoulos V., Zoras S., Triantafyllou A.G. and Albanis T.A.** **AQ**  
PM10-PM2.5 time series and fractal analysis
- B8 Harpale V.M., Ralegankar S.D. and Jadahav D.B.** **AQ**  
Chemical identification of semi-urban aerosols by laser raman spectroscopy
- B9 Mattheou L., Zannikos F., Schinas P., Karavalakis G., Karonis D. and Stournas S.** **AQ**  
Impact of using adulterated automotive diesel on the exhaust emissions of a stationary diesel engine
- B10 Mavrakis A., Theoharatos G., Christides A., Asimakopoulos D., Verouti E. and Lykoudis S.** **AQ**  
Air pollution level during snowfall days over Thriassio Plain, Greece
- B11 Michail A., Basbas S. and Nikolaou K.** **AQ**  
Comparison of dispersion models for vehicular air pollutants in urban areas
- B12 Mok K.M., Hoi K.I. and Yuen K.-V.** **AQ**  
Causes of wet acid deposition in Macau
- B13 Pawlyta M., Rouzaud J. N. and Duber S.** **AQ**  
Multi-scale organization of air soot nanoparticles

<sup>3</sup> GC – Global Change – Πλανητική αλλαγή

<sup>4</sup> AQ – Air Quality – Ποιότητα αέρα

<b>B14</b>	<b>Philippopoulos K. and Deligiorgi D.</b> Stochastic modelling of hourly average wind speed sequences in National Observatory of Athens, Greece	<b>AQ</b>
<b>B15</b>	<b>Politis I., Basbas S. and Tzeveleki I.</b> Incident management and environmental impacts in urban road networks	<b>AQ</b>
<b>B16</b>	<b>Saitanis C.J., Riga-Karandinos A.N., Katsaras D.H. and Tzamgizos L.</b> Ozone biomonitoring with white clover in Athens, Greece	<b>AQ</b>
<b>B17</b>	<b>Sattar G.S. and Uddin N.</b> Air pollution in Chittagong city, Bangladesh	<b>AQ</b>
<b>B18</b>	<b>Sidiropoulos C., Ikononopoulos A., Stratioti A. and Tsilingiridis G.</b> Comparison of typical LTO-Cycle emissions with aircraft engine- and airport-specific emissions for greek airports	<b>AQ</b>
<b>B19</b>	<b>Spyropoulos G.C., Chalvatzis K.J., Paliatsos A.G. and Kaldellis J.K.</b> Sulphur dioxide emissions due to electricity generation in the Aegean Islands: real threat or overestimated danger?	<b>AQ</b>
<b>B20</b>	<b>Stathopoulou O.I., Assimakopoulos V.D., Helmis C.G. and Flocas H.A.</b> Indoor air quality study of different athletic halls in Greece	<b>AQ</b>
<b>B21</b>	<b>Syrrakou E., Papaefthimiou S. and Yianoulis P.</b> Implementation of advanced glazing in buildings for the reduction of greenhouse gas emissions	<b>AQ</b>
<b>B22</b>	<b>Trandabat A., Branzila M., Donciu C. and Ciobanu R.</b> Air quality mapping system for residential areas, using distributed measurements and GRS technology	<b>AQ</b>
<b>B23</b>	<b>Tzirakis Ev., Karavalakis G., Schinas P., Korres D.M., Karonis D. and Stournas St.</b> Diesel-water emulsion emissions and performance evaluation in public buses	<b>AQ</b>
<b>B24</b>	<b>Žujić A.M., Golobočanin D.D. and Miljević N.R.</b> Atmospheric pollution in the Belgrade metropolitan area	<b>AQ</b>
<b>B25</b>	<b>Bekatorou A., Kanellaki M. and Banat I.M.</b> Utilization of brewer's spent grains and other wastes of the food industry using <i>Aspergillus</i> species	<b>PCT<sup>5</sup></b>
<b>B26</b>	<b>Daneshvar N., Niaei A., Akbari S., Aber S. and Kazemian N.</b> Photocatalytic disinfection of water polluted by <i>Pseudomonas Aeruginosa</i>	<b>PCT</b>
<b>B27</b>	<b>Deliyanni E.A. and Lazaridis N.K.</b> Sorption of arsenites and arsenates onto surfactant-mediated akaganeite	<b>PCT</b>
<b>B28</b>	<b>Fukuta T., Kuchar D., Kojima Y., Matsuda H., Seto F. and Yagishita K.</b> Selective recovery of Cu, Zn and Ni from electroplating wastewater by sulfuration	<b>PCT</b>
<b>B29</b>	<b>Inglezakis V.J., Stylianiou M.A., Gkantzou D. and Loizidou M.D.</b> Removal of Pb(II) from aqueous solutions by using clinoptilolite and bentonite as an adsorbent	<b>PCT</b>
<b>B30</b>	<b>Kim K.-W., Kim I.-T., Park G.-I. and Lee E.-H.</b> Continuous decomposition of ammonia by a cells-stacked electrolyzer with the function of a self-pH adjustment	<b>PCT</b>
<b>B31</b>	<b>Kim I.-T., Kim K.-W., Park G.I., Park H.-S., Park G.I., Lee E.-H. and Kim J.-H.</b> Treatment of metal chloride wastes via electrochemical conversion and gel-route stabilization	<b>PCT</b>
<b>B32</b>	<b>Krinulovic K., Vasic V. and Krstic D.</b> Detection of toxic metal ions in water based on Na <sup>+</sup> /K <sup>+</sup> -ATPase activity measurement	<b>PCT</b>
<b>B33</b>	<b>Li C.C., Lo W.-H., Leung Y.-C. and Wong P.-K.</b> Removal and recovery of copper in fixed-bed column containing immobilized bacterial biomass	<b>PCT</b>
<b>B34</b>	<b>Lofrano G., Belgiorno V., Gallo M. and Meric S.</b>	<b>PCT</b>

<sup>5</sup> PCT – Pollution Control Technologies – Τεχνολογίες αντιρρύπανσης

Toxicity reduction in leather tanning wastewater by improved coagulation flocculation process

**B35 Lofrano G., Meric S., Belgiorno V. and Napoli R.M.A.**  
Fenton's oxidation of different based synthetic tannins (syntans)

PCT

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Παρασκευή 2 Σεπτεμβρίου 2005 - απόγευμα

**C. SOLID WASTE MANAGEMENT  
WASTE WATER MANAGEMENT**

**ΔΙΑΧΕΙΡΙΣΗ ΣΤΕΡΕΩΝ ΑΠΟΡΡΙΜΜΑΤΩΝ  
ΔΙΑΧΕΙΡΙΣΗ ΥΓΡΩΝ ΑΠΟΒΛΗΤΩΝ**

- |  |                        |
|--|------------------------|
| <b>C1 Alivanis K. and Paraskevopoulou E.</b><br>Administrative practices in Urban Waste Management   | <b>SWM<sup>6</sup></b> |
| <b>C2 Bilitewski B., Karagiannidis A., Theodoseli M., Malamakis A., Reichenbach J., and Janz A.</b><br>Composting as an integrated solid waste management tool - Lessons learned from Asean - European co-operation: the example of Pieria, Greece | <b>SWM</b>             |
| <b>C3 Bolanca I. and Bolanca Z.</b><br>Influence of offset inks composition on the recycling process of waste paper  | <b>SWM</b>             |
| <b>C4 Furtula V., Hannah H., Wetzstein M. and Englar R.</b><br>Veterinary pollutants in poultry waste  | <b>SWM</b>             |
| <b>C5 Haritopoulou Tr. , Komilis D., Lasaridi K. and Togia A.</b><br>Development and implementation of the Waste Management Plan of the City of Athens during the 2004 Olympic Games   | <b>SWM</b>             |
| <b>C6 Hassan H.E.A., Elsokkary I.H. and Abdel Salam A.A.</b><br>Urease activity and arginine ammonification as bioindicators for soil contamination by heavy metals from sewage sludge application   | <b>SWM</b>             |
| <b>C7 Konstantinova M., Gudelis A. and Butkus D.</b><br>On leakage from the near-surface radioactive waste storage facility  | <b>SWM</b>             |
| <b>C8 Leverenz H., Xirogiannopoulou A., Tchobanoglous G. and Karagiannidis A.</b><br>Financial aspects of urban solid waste management in Greece and the US: the cases of Panorama and Davis   | <b>SWM</b>             |
| <b>C9 Mastral A.M., Murillo R., Aylon E., Callen M.S., Lopez J.M. and de la Cruz T.</b><br>Hydrogen production from rubber tyre through thermochemical processes   | <b>SWM</b>             |
| <b>C10 Papandreou A., Bakeas E. and Stournaras C.</b><br>Greek anhydrite (CaSO <sub>4</sub> ) activation   | <b>SWM</b>             |
| <b>C11 Pavloudakis F., Vlachantonis A. and Zarafidis D.</b><br>Solid waste management in surface mining sites  | <b>SWM</b>             |
| <b>C12 Petreas M., Garcha J. and Simmons B.</b><br>E-waste: consumer electronics exceed hazardous waste criteria   | <b>SWM</b>             |
| <b>C13 Petruzzelli D., Boghetich G., Petrella M., Dell' Erba A., L' Abbate P. and Sanarica S.</b><br>Advanced oxidation as a pre-treatment of industrial landfill leachate   | <b>SWM</b>             |
| <b>C14 Topcuoglu B.</b><br>The residual effects of MSW compost applications on the heavy metal contents of tomato and total and bioavailable heavy metal status of the greenhouse soil   | <b>SWM</b>             |
| <b>C15 Topcuoglu B.</b><br>The usage of MSW compost as partial substitutes for peat on the growth of poinsettia (Euphorbia pulcherrima)  | <b>SWM</b>             |

<sup>6</sup> SWM – Solid Waste Management – Διαχείριση στερεών απορριμμάτων

<b>C16</b>	<b>Wisniowska E. and Janosz-Rajczyk M.</b> Possibility of PAHs removal during co-fermentation of sewage sludge and organic fraction of municipal solid waste	<b>SWM</b>
<b>C17</b>	<b>Włodarczyk-Makuła M.</b> Fates of PAHs in sewage sludge under aerobic and anaerobic conditions	<b>SWM</b>
<b>C18</b>	<b>Włodarczyk-Makuła M.</b> Leaching of PAHs from sewage sludge	<b>SWM</b>
<b>C19</b>	<b>Zabaniotou A. and Theofilou C.</b> Use of sewage sludge as a conventional fuel substitute in cement factories	<b>SWM</b>
<b>C20</b>	<b>Zupancic M., Skaper M., Bukovec P., Antonini P., De Zorzi G., Spada P. and Lodolo A.</b> Evaluation of arsenic release from pyrite ash contaminated soil and attempt of its immobilization	<b>SWM</b>
<b>C21</b>	<b>Anagnostopoulos K.P., Gratziou M. and Vavatsikos A.P.</b> Evaluation of wastewater facilities scenarios with the use of the AHP multicriteria method	<b>WWM<sup>7</sup></b>
<b>C22</b>	<b>Belic A. and Loncar L.</b> Constructed wetlands - a new approach for municipal wastewater treatment in rural area of Serbia	<b>WWM</b>
<b>C23</b>	<b>Brousti P., Paraskevas P.A. and Lekkas T.D.</b> Performance evaluation of the wastewater treatment plant of Kalamata, Peloponnesus - Greece	<b>WWM</b>
<b>C24</b>	<b>Ciner F., Eker A. and Meric S.</b> Characterization and chemical treatment of Sivas Organized Industrial Estate (SOIE) wastewater	<b>WWM</b>
<b>C25</b>	<b>Ciner F. and Sariogloy Cebeci M.</b> Determination of inert chemical oxygen demand (COD) fractions of Cumhuriyet University wastewater	<b>WWM</b>
<b>C26</b>	<b>Farzadkia M. and Norieh N.</b> Efficiency of aerobic digester for sludge stabilization in Serkan City Sewage Treatment Plant	<b>WWM</b>
<b>C27</b>	<b>Hosseini S.N. and Borghei S.M.</b> Removal of alkylbenzene sulfonate (ABS) from detergent industries wastewater by activated sludge	<b>WWM</b>
<b>C28</b>	<b>Huang P., Zhao Q., Qin S.Y. and Guo X.</b> Quick start-up of Mudanjiang wastewater treatment plant and factors influencing phosphorous removal	<b>WWM</b>
<b>C29</b>	<b>Kotsovinos N.E., Gratziou M.K. and Tsalkatidou M.</b> Economic evaluation of small capacity sewage processing units	<b>WWM</b>
<b>C30</b>	<b>Li X.-Y. and Li H.-T.</b> Study on reutilization of heat energy from municipal wastewater of China	<b>WWM</b>
<b>C31</b>	<b>Mattei M.L., Guida M., Della Rocca C., Melluso G. and Meric S.</b> Optimization of alum-coagulation/flocculation for COD and TSS removal from five municipal wastewater	<b>WWM</b>
<b>C32</b>	<b>Melidis P., Vaiopoulou E., Siakir A. and Aivasidis A.</b> Fate of wastewater composition in a sewerage system	<b>WWM</b>
<b>C33</b>	<b>Papadimitriou Ch., Palaska G., Lazaridou M., Samaras P. and Sakellaropoulos G.P.</b> Applicability of the sludge biotic index (SBI) to municipal and industrial activated sludge plants	<b>WWM</b>
<b>C34</b>	<b>Paraskevas P.A., Panoras G. and Giokas D.L.</b> Evaluation of the quality of treated wastewater of Eastern Suburban Area of Thessalonica for irrigation reuse	<b>WWM</b>
<b>C35</b>	<b>Pavlogeorgatos G.D., Thomaidis N.S., Nikolaou A.D. and Lekkas T.D.</b> Determination of methyl mercury in a pilot-scale activated sludge wastewater treatment plant	<b>WWM</b>

<sup>7</sup> WWM – Waste Water Management – Διαχείριση Υγρών Αποβλήτων



<b>C36 Radaideh J.A.</b>	The significance of buffering capacity on the elimination of nitrogenous compounds from wastewater	<b>WWM</b>
<b>C37 Sadrnejad S.A.</b>	Nitrification process in optimum design of wastewater treatment plant through trickling filter	<b>WWM</b>
<b>C38 Tabatabaei S.H. and Najafi P.</b>	Effects of treated municipal wastewater injection with different irrigation methods in soil quality parameters	<b>WWM</b>
<b>C39 Tzanou E.A., Oikonomou E.K. and Guitonas A.G.</b>	Comparison and evaluation of current and innovative technologies for industrial wastewater treatment	<b>WWM</b>
<b>C40 Vaiopoulou E., Kapagiannidis A.G., Melidis P. and Aivasidis A.</b>	An activated sludge treatment plant for integrated removal of carbon, nitrogen and phosphorus	<b>WWM</b>

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Σάββατο 3 Σεπτεμβρίου 2005 - πρωί

<b>D. ECOSYSTEMS</b>	<b>ΟΙΚΟΣΥΣΤΗΜΑΤΑ</b>
<b>ENVIRONMENTAL POLICIES &amp; ECONOMICS (1)</b>	<b>ΟΙΚΟΝΟΜΙΚΑ ΠΕΡΙΒΑΛΛΟΝΤΟΣ &amp; ΠΟΛΙΤΙΚΕΣ ΔΙΑΧΕΙΡΙΣΗΣ (1)</b>

<b>D1 Chandrinou S., Pappas K., Nikolaou A., Stasinakis A.S., Wegener J.W., Alexandropoulos Th., and Thomaidis N.S.</b>	Occurrence of organotin compounds in the bivalves of Aegean sea, Greece	<b>ECO<sup>8</sup></b>
<b>D2 Dimitrakopoulos P.G.</b>	Biodiversity, biotope space and ecosystem functioning	<b>ECO</b>
<b>D3 Fang S., Yang W. and Zhang X.</b>	Remake decision of conversation farmland to forest by RS and GIS technology in upstream of Yangtze Rivers, China	<b>ECO</b>
<b>D4 Fataei E., Jabbari H.S., Ojaghi A. and Jabbari E.S.</b>	The outcomes of civil development of Shorabil Wetland in Ardebil	<b>ECO</b>
<b>D5 Gallis A.T.</b>	Study of the genetic control of four volatile monoterpenes in pinus brutia x pinus halepensis hybrids. Implications for protection and management of forest ecosystems in Greece	<b>ECO</b>
<b>D6 Goenarso D., Fitri L.L. and Musthapa I.</b>	The effect of lead-nitrate on growth rate and blood characteristics of adult male mice	<b>ECO</b>
<b>D7 Gomah H., Ahmed M.M.M. and Ezzeldin H.A.</b>	Indirect effects of pesticide applications on heavy metal contents of some vegetable plants	<b>ECO</b>
<b>D8 Hatzichristofas F.</b>	Phytoplanktonic primary productivity in the Aegean Sea as inferred from satellite imagery	<b>ECO</b>
<b>D9 Jayasinghe B.S., Jayawardena M.I.F.P. and Pathiratne K.A.S.</b>	Comparison of chromium levels of water spinach samples with those of field water samples	<b>ECO</b>
<b>D10 Khoshraftar R.</b>	Geomorphological evolution Kiashahr lagoon using aerial photographs, satellite images and GPS	<b>ECO</b>
<b>D11 Kokkinakis A., Andreopoulou Z. and Pavlidis Th.</b>	Development of a pilot database for the organization and exploitation of environmental data on "Natura 2000" lake ecosystems	<b>ECO</b>

<sup>8</sup> ECO – Ecosystems - Οικοσυστήματα

<b>D12 Kokkinakis A.K., Eleftheriadis E. and Koutrakis E.</b>	<b>ECO</b>
Environmental problems affecting the success of the reproduction of anadromous fish species in lake's Volvi system	
<b>D13 Kollarou S.</b>	<b>ECO</b>
Chloristic diversity: the case of the mountainous ecosystem of Parnis – Greece	
<b>D14 Laspidou C.</b>	<b>ECO</b>
Constructed wetlands technology and water quality improvement: recent advances	
<b>D15 Mahdei K.N.</b>	<b>ECO</b>
An investigation on environmental sustainability of agro-ecosystem in Salihabad Area, Hamadan-Iran	
<b>D16 Onal M.K.</b>	<b>ECO</b>
Investigation on pomological variation of plum ( <i>Prunus divericata</i> Lebel.) in the natural flora of Mediterranean region in Turkey	
<b>D17 Onal M.K. and Topcuoglu B.</b>	<b>ECO</b>
The effects of sewage sludge on the plant nutrients and heavy metal contents of cucumber ( <i>Cucumis sativus</i> L.) plant	
<b>D18 Orescanin V., Mikelic L., Lulic S., Barisic D., Lovrencic I., Rubcic M. and Rozmaric-Macefat M.</b>	<b>ECO</b>
Impact of past industrial activity on the content of heavy metals in the soil/grass system in Sibenik (Croatia)	
<b>D19 Orlov O. and Kolodnytska M.</b>	<b>ECO</b>
Distribution of <sup>137</sup> Cs activity in the ecosystem of pine forest as a key for calculation of doses obtained by man from forest production in Ukraine	
<b>D20 Riyahi A.R., Fazeli M.Sh. and Paydar M.</b>	<b>ECO</b>
Determination of heavy metals content in <i>Astacus leptodactylus caspicus</i> of Anzali wetland	
<b>D21 Sakr S.A., Mahran H.A. and Abo-Elyazid S.M.</b>	<b>ECO</b>
Effect of DDB on mancozeb fungicide induced ultrastructural and biochemical changes in the liver of <i>Albino Mice</i>	
<b>D22 Sargentis G.-F., Hadjibiros K. and Christofides A.</b>	<b>ECO</b>
Plastiras lake: the impact of water level on the aesthetic value of landscape	
<b>D23 Sargentis G.-F., Hadjibiros K., Papagiannakis G. and Papagiannakis E.</b>	<b>ECO</b>
Plastiras lake: influence of the relief on the revelation of the water presence	
<b>D24 Spanou S., Tsegenidi K., Kolezaki M. and Georgiadis Th.</b>	<b>ECO</b>
A management, monitoring scheme in the valley of Butterflies, Rhodes: proposed revision to the initial management plan	
<b>D25 Vlatsiotou F.P., Ktistaki M.M., Savvas S.P. and Tsirtsis G.E.</b>	<b>ECO</b>
Application of a new methodology for the detection of differences in nutrient fluxes between coarse and fine-grained sediment and water column using laboratory microcosms	
<b>D26 Abeliotis K. And Tsotsou E.</b>	<b>EPE<sup>9</sup></b>
The experiences of the EMAS registered companies in Greece	
<b>D27 Antoniou A.C. and Evangelinos K.I.</b>	<b>EPE</b>
Environmental Auditing: insights from two case studies	
<b>D28 Apostolidou V.P. and Sophoulis C.M.</b>	<b>EPE</b>
The role of participation in environmental decision-making	
<b>D29 Christides A., Mitilineou A., Mourikis D., Mavrakis A., Theoharatos G. and Lykoudis S.</b>	<b>EPE</b>
Noise level measurements in the center of Elefsis, Greece	

<sup>9</sup> EPE – Environmental Policies & Economics – Οικονομικά Περιβάλλοντος & Πολιτικές Διαχείρισης

<b>D30 Gatsis I., Parcharidis Is. And Pavlopoulos A.</b>	<b>EPE</b>
Monitoring and mapping of land cover changes using spot images, with emphasis in deforestation and desertification: a case study in Corinthos area (NE Peloponnese, S. Greece)	
<b>D31 Gavrilescu M.</b>	<b>EPE</b>
Proactive environmental strategies through cleaner production	
<b>D32 Giannopoulou L. and Katsiri A.</b>	<b>EPE</b>
A methodological approach to estimate risks to human health from the use of pesticides in agriculture	
<b>D33 Gidarakos E. and Anastasiadou K.</b>	<b>EPE</b>
Toxicity evaluation for the broad area of the asbestos mine of Northern Greece	
<b>D34 Hadjimitsis D.G., Toullos L. and Clayton C.R.I.</b>	<b>EPE</b>
Use of space technology for assisting environmental impact and risk assessment studies	
<b>D35 Konstantinidis A., Evangelidis K. And Stefanidou E.</b>	<b>EPE</b>
GIS-based visualisation of traffic noise	
<b>D36 Kontopoulos G.A. and Konstantopoulou P.G.</b>	<b>EPE</b>
The effect of environmental fees on the economics of new large power production plants	
<b>D37 Koroneos C., Achillas H., Moussiopoulos N. and Kikis V.</b>	<b>EPE</b>
Sustainability in production – The application of environmental tools	
<b>D38 Kyritsis E.</b>	<b>EPE</b>
“Sustainable development” indicators between scientific and policy needs. A critical review of their selection	
<b>D39 Kyritsis E. and Kazantzopoulos G.</b>	<b>EPE</b>
Integrating environment in the Olympic Games. A guide to green major events based on lessons learned from the Athens 2004 Olympic and Paralympic Games	
<b>D40 Markantonis V.</b>	<b>EPE</b>
The economic evaluation of the irrigation water saving systems implementation: The case of “Plastira” Lake irrigation water.	

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**Σάββατο 3 Σεπτεμβρίου 2005 - απόγευμα**

**E. POLLUTION CONTROL TECHNOLOGIES (2)  
ENVIRONMENTAL POLICIES & ECONOMICS (2)**

**ΤΕΧΝΟΛΟΓΙΕΣ ΑΝΤΙΡΥΠΑΝΣΗΣ(2)  
ΟΙΚΟΝΟΜΙΚΑ ΠΕΡΙΒΑΛΛΟΝΤΟΣ& ΠΟΛΙΤΙΚΕΣ  
ΔΙΑΧΕΙΡΙΣΗΣ (2)  
ΡΥΠΑΝΣΗ ΙΖΗΜΑΤΩΝ, ΕΔΑΦΩΝ**

**SOIL- SEDIMENT POLLUTION**

<b>E1 Bethanis S., Paraskeva P. and Diamadopoulos E.</b>	<b>PCT</b>
Preliminary results on activated carbon production from bagasse and rice husks	
<b>E2 Mastral A.M., Callen M.S., Murillo R., Lopez J.M., Alvarez R., Clemente M.C. and Diaz-Bautista M.A.</b>	<b>PCT</b>
New fuels. Zn and PM pollution from waste tire combustion	
<b>E3 Ponchel A., Cassez A., Bricout H., Fourmentin S., Landy D. and Monflier E.</b>	<b>PCT</b>
Eco-efficient catalytic dechlorination of gaseous effluents in aqueous cyclodextrin solutions	
<b>E4 Rahmani A.R. and Mahvi A.H.</b>	<b>PCT</b>
Use of ion exchange for removal of ammonium: biological regeneration of zeolite	
<b>E5 Sarioglu M. and Atay U.A.</b>	<b>PCT</b>
Removal of methylene blue by using biosolid	
<b>E6 Schmidt B., Wolters R., Kaplin J., Schneiker T., López-Delgado A. and Alguacil F.J.</b>	<b>PCT</b>
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<b>E7</b>	<b>Son S.R. and Kim S.D.</b> Chemical-looping combustion with inherent CO <sub>2</sub> separation in an annular circulating fluidized bed reactor	<b>PCT</b>
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<sup>10</sup> SSP – Soil / Sediment Pollution – Ρύπανση ιζημάτων και εδαφών

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