

CRETE 2010

*2nd International
Conference on
Hazardous and Industrial
Waste Management*

CONFERENCE

PROGRAM

*5-8 October 2010
Chania, Crete,
Greece*

Organized by:

Technical University of Crete (GR)

University of Padua (IT)

Hamburg University of Technology (DE)

IWWG –

International Waste Working Group

Conference Chairmen



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Technical University of Crete (GR)



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University of Padua (IT)



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Hamburg University of Technology (DE)

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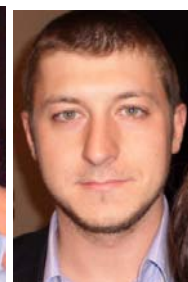


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***Hellenic Petroleum** holds a strong position in the international energy sector, mainly in SE Europe and is the largest industrial and commercial company in Greece. The main current business activities are: Refining & Marketing of petroleum products (R&M), Petrochemicals/Chemicals, Oil & Gas Exploration & Production (E&P), Power Generation Production and Trading and Natural Gas. In the R&M sector the Group holds the three of the four refineries in Greece and operates 1.262 retail stations.*

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*Athens Hospital Wastes Incinerator has been in operation since 2002. Since February 2007, when the international tender was completed, the Joint Venture HELECTOR S.A.- PANTECHNIKI S.A.- ARSI S.A is responsible the operation and maintenance of the Plant. The above Joint Venture in collaboration with Environmental Protection Engineering S.A., has established **APOTEFROTIRAS S.A.** for the purpose of operation and maintenance of the Plant.*



***Environmental Protection Engineering S.A.** was established in Piraeus in 1977. By continuously investing in research and development and implementation of new technologies, EPE S.A. is one of the major companies in the field of environmental protection, offering a variety of services and products in the marine anindustrial field. Institutions such as the Athens Academy, the Hellenic Marine Environment Protection Association (HELMPEPA) and the Chamber of Commerce of Piraeus recognize EPE's demonstrated capability and responsibility, as well as the quality of its services and its social contribution.*

SPONSORS



ZYGOS publishing company was established in 1986 based in Thessaloniki. It mainly publishes academic books. Its publication production counts about 150 book titles, with a subject selection covering a wide range of academic fields.



TECHNICAL CHAMBER OF GREECE The Technical Chamber of Greece established in 1923, is an institution functioning under public law and supervised by the Ministry of Public Works. The Technical Chamber of Greece is by law the Technical Consultant to the State and the corporate body of all qualified engineers in Greece, its main objective is to promote, in general, the technological level in our country.

PRESENTATION

CRETE 2010 Conference aims at the establishment of an international meeting of scientists and practitioners, that work in the field of hazardous and industrial waste management and treatment and have valuable knowledge and experience, which can be exchanged and readily available to professional communities worldwide.

The 2nd International Conference on Hazardous and Industrial Waste Management includes oral presentations, special workshops and sessions, as well as poster presentations focusing on the main controversial aspects of hazardous and industrial waste management and treatment.

Selection of papers and session destination are based on several factors, including scientific quality of the paper, relevance of the topic, nature of the paper (case study, preliminary work, conceptual work, design, etc.), specificity of the topic and novelty.

All papers are organized and published on a CD-ROM, according to the session order. In addition, a book has been printed with the extended executive summaries of the conference papers, in order to allow a better attendance of the different sessions. Last minute changes in the conference program may have resulted unconformity with the printed book of executive summaries.

Selected papers, presented (orally or as a poster) during CRETE 2010 Conference, will be published in a Special Issue of the Journal of Hazardous Materials, Global NEST Journal and also in Waste Management.

During the closing ceremony, awards will be given to the three best posters, as evaluated by a three member committee. The full papers of these presentations will be published in one of the aforementioned Special Issues and take a prize of 1.000, 500 and 300 euros, respectively.



Background and goals

Future waste management programs must be put into practice in conjunction with sound policies that restrict the use of fossil fuels and natural resources and contribute to the reduction of emissions into the environment. Such a strategy should be based in a sound scientific basis, without ideology, politics or financial interests. It should be implemented on a world-wide basis and not limited to industrialized countries. To achieve this goal, existing waste management options must be evaluated for implementation, new strategies must be formulated and new, innovative solutions have to be found.

Based on this need, the IWWG (International Waste Working Group) was established in 2002, not to contrast or to compete with existing professional organizations but to set up a network with existing national and international organizations with similar goals.

The IWWG aims to provide an intellectual platform to encourage and support integrated and sustainable waste management and to promote practical scientific development in the field.

In order to achieve these goals Task Groups on the following topics are currently active: Sustainable Landfilling; Landfill Aeration; Landfill Gas Emissions to the Atmosphere (CLEAR); Management of MSWI Residues (PHOENIX);

Developing Countries; Compost Quality (HumOr); Leaching Tests; Law and Waste; Hydrogen Production; Landfill Modeling; Thermal Treatments; Industrial Waste Management; Hospital Waste.

The activities of the Task Groups will provide the opportunity to fully exploit the tremendous amount of knowledge and experience that has been accumulated so far.

For further information and for joining:

www.iwwg.eu

info@iwwg.eu

16:00 – 20:00

Registration

16:00 – 19:00 IWWG TASK GROUP
MEETING:
INDUSTRIAL WASTE
MANAGEMENT
Room – Grand Imperial

Chairman: *E. Gidakos (GR)*

Evangelos Gidakos

Technical University of Crete (Greece)

*“Controversial issues in industrial waste
management practices”*

Hans Van der Sloot

Hans Van der Sloot Consultancy (The
Netherlands)

*“State of developments in industrial waste
management”*

Discussion

20:00 – 23:00

Welcome Drink

(Pool Bar – MINOA PALACE)

8:30 – 9:00

Registration

9:00 – 10:00 OPENING CEREMONY –
WELCOME ADDRESSES
Room – Grand Imperial

Chairmen: *E. Gidakos (GR), R. Cossu (IT),
R. Stegmann (DE)*

10:00 – 11:00 **INVITED SPEAKERS**

Room – Grand Imperial

Thomas Rummler

Federal Ministry for the Environment, Natural
Conservation and Nuclear Safety (Germany)

*“Circular economy and resource efficiency - a
challenge for hazardous and industrial waste
management”*

Jorge Gardea - Torresdey

University of Texas at El-Paso (USA)

*“Biotransformation of nanoparticles in the
environment: Is it a hazard?”*

Discussion

11:00 – 11:30 Coffee Break

11:30 – 13:00 Room –Imperial I

SESSION A1: HAZARDOUS AND INDUSTRIAL WASTE REGULATIONS AND CONTROL

Chairman: T. Rummeler (DE)

Butti L. (Italy)

General criteria for classification of waste containing hydrocarbons: the Italian case

Fischer C. (Denmark)

Data availability on transboundary shipments of waste based on the European Waste List

Hegemann M., Becker C., Koß K.-D., Oberdörfer M. (Germany)

Online-control of hazardous waste transports on the road with IPA-KON

Striegel K.-H., Becker C., Bousselmi Y., Merdassi M., Pfaff-Simoneit W. (Tunisia)

Implementation of the national hazardous waste information system in Tunisia

Stevanović Čarapina H., Bogdanovic M., Mihajlov A., Kasanin-Grubin M., Žugić-Drakulic N. (Serbia)

Local environmental health indicators: focus on hazardous waste practice and governance

Discussion

11:30 – 13:00 Room – Imperial II

SESSION B1: HAZARDOUS AND INDUSTRIAL WASTE TREATMENT I

Chairmen: H. Grassl (DE), M.Fedorov(RU)

Velasco Trejo J.A., Ramírez Islas M.E., Hernández S., Revah S., Schmidt W. (Mexico)

Treatment of chromite ore processing residue using sodium sulfide

Katsou E., Malamis S., Tzanoudaki M., Haralambous K.J., Loizidou M. (Greece)

Regeneration of zeolite loaded with lead and zinc after wastewater treatment

Patel H., Pandey S. (India)

Evaluation of physical stability and leachability of chemical sludge from textile wastewater treatment plants stabilized / solidified using portland pozzolana cement (PPC)

Stepanović M., Vlahović M., Jovanić J. (Serbia)
Optimization of the inorganic adsorbents content for the used oil emulsion treatment at the Djerdap dam

Nehrenheim E., Odlare M., Mutere O. (Sweden)
Treatment of TNT contaminated sludge by using a pilot scale bioreactor

Lancellotti I., Kamseu E., Barbieri L., Leonelli C. (Italy)

Geopolymers as matrix for hazardous wastes inertization

Discussion

11:30 – 14:00 Room – Grand Imperial

SPECIAL SESSION 1:

**ΑΞΙΟΛΟΓΗΣΗ ΚΑΙ ΑΠΟΚΑΤΑΣΤΑΣΗ
ΑΝΕΞΕΛΕΓΚΤΩΝ ΡΥΠΑΣΜΕΝΩΝ ΧΩΡΩΝ /
ΕΓΚΑΤΑΣΤΑΣΕΩΝ – EVALUATION AND
RESTORATION OF UNCONTROLLABLE
CONTAMINATED SITES / FACILITIES
(IN GREEK ONLY)**

Chairmen:

V. Stoilopoulos, I. Mahairas P. Romanas, Hellenic
Ministry of Environment, Energy and Climate
Change (GR)

M. Aivalioti, E. Gidarakos, Technical University of
Crete (GR)

-Μεθοδολογικός οδηγός για την προσέγγιση
ρυπασμένων χωρών- Διοικητικές διαδικασίες
(General criteria for the approach of contaminated
sites – Administrative processes)

- Κατάρτιση καταλόγου εν δυνάμει ρυπογόνων
δραστηριοτήτων (Organization of potential
contaminating activities list)

- Διαδικασία χαρακτηρισμού ρυπασμένων χώρων
–στάδια εντοπισμού (Contaminated sites
characterization process – spotting stages)

- Πλαίσιο για τη λήψη απόφασης στη διαχείριση
ρυπασμένων χώρων και εφαρμογή μέτρων
αποκατάστασης (Decision making framework for
contaminated sites management and remediation
measures application)

- Τεχνολογίες αποκατάστασης ακόρεστων και
κορεσμένων εδαφών (Saturated and unsaturated
soils restoration technologies)

- Μετέπειτα φροντίδα (Aftercare)

Συζήτηση (Discussion)

13:00 – 15:00 Lunch Break

15:00 – 15:30 Poster Session

15:30 – 16:00 **INVITED SPEAKER**
Room – Grand Imperial

Chairman: *B. Bilitewski (DE)*

Nicolas Moussiopoulos

Aristotle University of Thessaloniki (Greece)

“Integrated end-of-life management of electrical
and electronic equipment”

Discussion

16:00 – 17:30 Room – Imperial I
**SESSION A2: WASTE / CONTAMINATED
SITES CHARACTERIZATION**

Chairmen: *B. M. Bussian (DE),
M. Aivalioti (GR)*

Bussian B.M., Furtmann K., Vanhoof C., Cleven
R.F.M.J. (Germany)

*Chemical characterization of waste by screening
techniques - rapid and reliable or quick and dirty?*

Iordanopoulos-Kisser M. (Austria)
*Testing programme for characterization of waste -
overview of European standards for sampling,
sample preparation and analysis of waste*

Holschbach-Bussian K., Vanhoof C., Furtmann K.
(Germany)
*Applicability of handheld XRF systems for waste
characterization*

Stanisavljević N., Vujić G., Batinić B., Ubavin D., Kovačević S. (Serbia)

Material flow analysis as a basis for hazardous waste management in tranzicion economies - power company distribution case study

Marzocchini M., Tatàno F., Moretti M., Antinori C., Orisili S. (Italy)

Proposal and application of a regional methodology of comparative risk assessment for contaminated sites

Drolc A. (Slovenia)

Development of methodology for assuring comparable results of toxicity testing

Discussion

16:00 – 17:30 Room – Grand Imperial

SESSION B2: HAZARDOUS AND INDUSTRIAL WASTE TREATMENT II

Chairmen: K.E. Lorber (AT), P. Lievens (BE)

Lorber K.E., Antrekowitsch H. (Austria)

Treatment and disposal of residues from aluminum dross recovery

Lievens P., Verbinnen B., Bollaert P., Alderweireldt N., Mertens G., Elsen J., Vandecasteele C. (Belgium)

Study of solidification of flue gas cleaning residue from industrial waste incineration in a fluidized bed incinerator

Pensaert S., De Puydt S. (Belgium)

Remediation of the acid tar lagoons in the port of Ghent

Moraci N., Calabro P., Bilardi S. (Italy)

Efficiency of zero valent iron/ pumice granular mixture in simultaneous removal of copper and nickel

Velegraki T., Tsantaki E., Mantzavinos D., Katsaounis A. (Greece)

Electrochemical degradation of textile effluents by anodic oxidation on boron doped diamond

Kosma C. I., Lambropoulou D. A., Albanis T. A. (Greece)

Occurrence and removal of pharmaceutically active compounds in wastewaters in Greece

Discussion

16:00 – 17:30 Room – Imperial II

WORKSHOP 1: WEEE

Chairman: S.Salhofer (AT)

Bigum M., Brogaard L. (Denmark)

LCA modelling of metal recovery from 1 tonne high grade WEEE

Salhofer S., Tesar M. (Austria)

Removal of components containing hazardous substances from small WEEE in Austria

Rotter V.S., Siebel M., Janz A., Bilitewski B.
(Germany)

*Effect of the removal of hazardous substances from
WEEE on emissions of treatment and recycling*

Lolos G., Lolos T., Tsombanidis C., Raptis C.
(Greece)

*Production of waste electric and electronic
equipment (WEEE) in Greece and the
environmental burden per WEEE category*

Radfar M., Novin A., Mousae R., Harati H. (Iran)
Management of computer wastes in Iran and world

Discussion

16:00 – 17:30 **Room – Imperial III**

SPECIAL COURSE 1:

**ORGANIZATION OF HAZARDOUS WASTE
MANAGEMENT**

Chairman: G. Rettenberger (DE),
Technical University of Trier

- Estimation of quantity and quality of the waste and sources
- Development of the necessary plants for treating the waste
- Permission and control
- Organization private or public
- Necessary public frame for institution and laws
- Examples

Discussion

17:30 – 18:00 Coffee Break

18:00 – 20:00 **Room – Grand Imperial**
**SESSION A3: INDUSTRIAL WASTE
MANAGEMENT STRATEGIES**

Chairmen: L. Butti (IT), P. Kassomenos (GR)

Stamatis V., Seferlis S., Kamenopoulou V.,
Potiriadis C., Koukouliou V., Kehagia K., Dagli
C., Georgiadis S., Camarinopoulos L. (Greece)
*Decommissioning a phosphoric acid production
plant: a radiological protection case study*

Curran A., Williams I.D. (UK)

*A zero waste vision for industrial networks in
Europe*

Pertl A., Obersteiner G., Scherhauser S.,
Den Boer J. (Austria)

*Ecological and economic assessment of formal
versus informal waste management strategies - a
case study*

Nassour A., Majanny A., Kamoun M., Nelles M.
(Germany)

*Actual and future concept of waste management
the industrial city Alsheikh Najjar of Aleppo*

Panagopoulos J., Karagiannis A., Floros N.,
Kassomenos P. (Greece)

*Integrated industrial hazardous waste
management plan - results of a full scale industrial
application in the Asopos basin area*

Lolos Th., Raptis C., Lolos G., Tsombanidis C.,
Fragkakis P. (Greece)
*The waste oil management plan of Cyprus
Republic: technical and financial aspects of the
proposed strategy*

Saltabaş F., Yildiz Ş., Kiriş A., Yenilmez E.,
Tombul B. (Turkey)
Hazardous waste management: Istanbul case

Discussion

18:00 – 19:30 Room – Imperial I
SESSION B3: LANDFILLING ISSUES I

Chairman: *H. Van der Sloot (NL)*

Christensen T.C, Terkel C., Vendrup M., Van
Ermen S. (Denmark)
*Removing Sb, Mo, Se, U and Ba from wastewater
and leachate*

Šír M., Podhola M., Patočka T., Honzajková Z.,
Kocurek P., Kubal M., Kuraš M. (Czech Republic)
*Treatment of hazardous waste landfill leachate
using reverse osmosis*

Chalvatzaki E., Lazaridis M. (Greece)
*Estimation of greenhouse gas emissions from
municipal solid waste landfills in Greece*

Alibardi L., Cossu R., Stoppa A. (Italy)
*Pre-treatment of tannery sludge for a sustainable
landfill disposal*

Discussion

18:00 – 19:30 Room – Imperial II
**WORKSHOP 2: MICROWAVES AND WASTE
MANAGEMENT**

Chairman: *C. Leonelli (IT)*

Leonelli C. (Italy)
*Rapid waste vitrification with MW and RF
techniques*

Barba A.A., D' Amore M., Acierno D. (Italy)
*Use of microwaves for in-situ removal of pollutant
compounds from solid matrices*

Kingman S. (UK)
*Microwave technology for remediation of
contaminated drill cuttings and pyrolysis of
municipal wastes*

Discussion

8:30 – 9:00 Registration

9:00 – 10:30 **INVITED SPEAKERS**

Room – Grand Imperial

Chairman: L. Butti (IT)

Rainer Stegmann

Technical University of Hamburg (Germany)

“Release of landfills from aftercare”

Bernd Bilitewski

Technical University of Dresden (Germany)

“Why is the incineration of hazardous and industrial waste a necessity of a successful recycling society?”

Discussion

10:30 – 11:30 Coffee Break

11:00 – 13:00 **Room – Imperial II**

SESSION A4: THERMAL PROCESSES

Chairmen: B. Bilitewski (DE),

A. Karamanov (BG)

Luciano A., Viotti P., Mancini G. (Italy)

Car fluff disposal: atmospheric effluent analysis in a full scale experiment of thermo-valorization process

Hoffmann G., Bilitewski B., Schramm K.-W. (Germany)

Shredder residues- characterization and combustion in a fluidized bed

Karamanov A. (Bulgaria)

Sintered iron-rich glass ceramics from harmful industrial residues: summary

Pandelova M., Stanev I., Henkelmann B., Lenoir D., Schramm K.-W. (Germany)

Inhibition of PCDD/F and PCB formation in combustion of wood and hospital waste

Wils A., Calmano W., Dettmann P., Kaltschmitt M., Ecke H. (Germany)

Reduction of fuel side costs due to biomass co-combustion

Vermeulen I., Block C., Dewulf W., Vandecasteele C. (Belgium)

Energetic valorization of automotive shredder residue by co-incineration in a fluidized bed combustor

Discussion

11:00 – 13:00 **Room – Imperial I**

SESSION B4: LANDFILLING ISSUES II

Chairman: M. Ritzkowski (DE)

Bachiri K., Bodenhagen A. (Germany)

Sustainable landfill – case study on solar landfill covers

Cossu R., Lai T., Pivnenko K. (Italy)

Waste washing pre-treatment of municipal and special waste

Ritzkowski M., Stegmann R. (Germany)

Landfill aeration in the framework of climate protection

Dall'Ara A., Bonoli A., Marroni V., Ferri F., Billi L., Grilli S., Modarelli G., Sangiorgi S. (Italy)
Assessment of an innovative low impact bioremediation technology in reducing explosion risk related to biogas presence in dump

Discussion

11:00 – 13:00 Room – Imperial III
WORKSHOP 3: AGRO-INDUSTRIAL WASTE MANAGEMENT

Chairman: T. Albanis (GR)

Pizzichini M., Russo C., Pizzichini D., Vitagliano M. (Italy)
New olive mill wastewater process to eliminate the environmental load and to recover several fine chemicals as poliphenols and purified water

Chroni C., Kyriacou A., Lasaridi K. (Greece)
Interpreting respiration activity and microbial counts as stability indicators during composting of various organic wastes

Georgeaud V., Diamand A., Coste M., Grange D. (France)
Selective electro-reduction of nitrate to nitrogen with boron-doped diamond cathode: pilot scale tests on agro-industrial wastewater

Chroni C., Kyriacou A., Lasaridi K. (Greece)
Valorization of a co-composting process: mixtures of sludge derived from non alcoholic beverage production industry

Discussion

11:00 – 13:30 Room – Grand Imperial
SPECIAL SESSION 2:
IATPIKA ΑΠΟΒΛΗΤΑ –
MEDICAL WASTE (IN GREEK ONLY)

Chairmen:

E. Voudrias (GR)
Democritus University of Thrace
E. Gidarakos (GR)
Technical University of Crete

Voudrias E. (Greece)
Technologies for treatment of health care waste : a review

Gidarakos E. (Greece)
Hazard evaluation of bottom ash from incinerated hospital waste

Sabatakakis S. (Greece)
Dealing with the problem of mercury in health care

Papaderou M., Varthalitis I. (Greece)
Infectious risks of health care wastes

Discussion

13:00 – 15:00 Lunch Break

15:00 – 15:30 Poster Session

15:30 – 16:00 INVITED SPEAKER

Room – Grand Imperial

Chairman: K-W. Schramm (DE)

Raffaello Cossu

University of Padua (Italy)

“Sustainable landfilling of industrial waste”

Discussion

16:00 – 17:30 Room – Grand Imperial

SESSION A5: COMBUSTION RESIDUES I

Chairman: R. Stegmann (DE)

Krüger O., Kalbe U., Berger W., Lopez Meza S., Simon F.-G. (Germany)

Leaching experiments on the release of heavy metals and PAH from C&D waste and MSWI bottom ashes

Van Caneghem J., Vermeulen I., Block C., Van Brecht A., Wauters G., Vandecasteele C. (Belgium)

Destruction and formation of PCDD/Fs in a fluidized bed combustor co-incinerating automotive shredder residue with refuse derived fuel and wastewater treatment sludge

De Boom A., De Lavene M., Degrez M., Pierre C., Staquet S. (Belgium)

A one-month characterization campaign of electrostatic precipitator fly ashes from municipal solid waste incinerator

Grosso M., Rigamonti L., Biganzoli L., Schiona G. (Italy)

Metals recovery from incineration bottom ashes: future opportunities in Italy

Barbosa R., Lapa N., Boavida D., Lopes H., Mendes B., Gulyurtlu I. (Portugal)

Chemical and ecotoxicological properties of ashes produced in the co-combustion of coal and sewage sludge

Discussion

16:00 – 17:30 Room –Imperial I
SESSION B5: INDUSTRIAL WASTEWATER TREATMENT

Chairmen: M. Kuras (CZ), D. Mantzavinos (GR)

Mantzavinos D. (Greece)

AOPs for water treatment: Dos and Don'ts for process integration

Mousa I., El-Rakshy N. (Egypt)

Paints industry wastewater treatment through biological aerated filtering technology, case study

Pellera F., Giannis A., K. Anastasiadou, D. Kalderis, D. Pentari, Gidarakos E. (Greece)

Adsorption of Cu(II) ions from aqueous solutions using biochar prepared from agricultural by-products

Kastanek F., Sobek J., Solcova O., Hajek M. (Czech Republic)

Dehalogenation of polyhalogenated compounds dissolved in organic solvents with the help of AOPs in a two phase solvent - water system under the influence of ultrasound

Kalmykova Y., Perez-Holberg J., Abbas Z.,
Steenari B-M. (Sweden)

*Utilization of paper industry waste in
contaminated water treatment*

Chang F.-C., Ko C.-H., Chen P.-J., Chen K.-K
(Taiwan)

*Removal of copper, chromium, and arsenic from
CCA-treated wood onto chelating agents*

Discussion

16:00 – 17:30 Room – Imperial II

**SESSION C1: HAZARDOUS AND
INDUSTRIAL WASTE
RECYCLING I**

Chairmen: Th. Lekkas (GR), F. Kastanek (CZ)

Menad N. (France)

*Utilization of organic part contained in auto
shredder residues as reducing agent in blast
furnace*

Ioannides T.A. (Greece)

*Waste tire treatment - an alternative use of tires,
fly ash and marble dust as construction materials*

Selivanovskaya S., Galitskaya P., Kuritsin I.,
Gumerova R. (Russia)

*Beneficial utilization of composted sewage sludge:
effects on biomass and activity of microbial
community of halpic greyzem*

Quaranta N., Caligaris M., López H., Unsen M.,
Lalla N. (Argentina)

*Ceramic materials production as a promising
route for recycling metallurgical wastes*

Kouloumpis V., Tsoutsos Th., Constantopoulos G.
(Greece)

*Life cycle assessment and costing of a detached
house in Crete*

Discussion

16:00 – 17:30 Room – Imperial III

SPECIAL COURSE 2:

**STATISTICAL MODEL BUILDING FOR
INDUSTRIAL POLLUTION CONTROL AND
HAZARDOUS WASTE MANAGEMENT**

Chairmen: P. Mac Berthouex, University of
Wisconsin – Madison (USA)

L.C. Brown, Tufts University (USA)

- Methods for building mechanistic and empirical
statistical models

- Experiments design

- Fitting of mechanistic or empirical models to
experimental data

- Diagnosing the goodness of fit of mode

- Assessment of precision parameters

Discussion

17:30 – 18:00 Coffee Break

18:00 – 19:30 *Room – Grand Imperial*
SESSION A6: COMBUSTION RESIDUES II

Chairmen: *R. Cossu (IT), K. Lazaridi (GR)*

Cappai G., Cara S., Muntoni A., Piredda M. (Italy)
Application of accelerated carbonation of MSWI fly ash for metal immobilization and CO₂ sequestration

Moustakas K., Mavropoulos A., Haralambous K.J., Loizidou M. (Greece)
Leaching properties of slag generated by the operation of gasification / vitrification unit for waste treatment

Bernardo M.M., Lapa N., Gonçalves M., Barbosa R., Mendes B., Pinto F. (Portugal)
Characterization of chars produced in the co-pyrolysis of different wastes: decontamination study

Ahmed A.T., Khalid H.A., Allen R., Ward C. (UK)
Influence of treatment on the release and mobility of soluble constituents of incinerator bottom ash waste

Hu Y.Y., Zhou B., Chen D.Z., Li J.Y. (China)
Hydrothermal treatment of municipal solid waste incineration fly ash

Matsouka V., Konsolakis M., I.V. Yentekakis (Greece)
Novel electropositively – promoted catalytic materials for efficient nitrogen oxide emission control: a drifts – aided study on the role of promoter

Discussion

18:00 – 19:30 *Room – Imperial I*
SESSION B6: ASBESTOS

Chairman: *L. Lancellotti (IT)*

Dimitriou A., Theodosis Ch., Lymperis A. (Greece)
Tearing down of 1,150 tones of asbestos at the Faliron power station and desposing it abroad

Axiotis D., Anastasiadou K., Kalderis D., Gidarakos E. (Greece)
Hydrothermal conversion of chrysotile asbestos using supercritical steam

Anastasiadou K., Gidarakos E., Lancellotti I., Leonelli C. (Greece)
Hydrothermal treatment of chrysotile asbestos and its recycling in refractory composition

Discussion

18:00 – 19:30 *Room – Imperial II*

SESSION C2: HAZARDOUS AND INDUSTRIAL WASTE RECYCLING II

Chairman: *M. Loizidou (GR)*

Mitrakas M., Bakaloulis A., Gkinis K. (Greece)
Aluminum anodizing sludge as a potential As(V) adsorbent

Gaillot O., McCormack I. (Ireland)
Depollution and shredder trial on end of life vehicles in Ireland

Friday, October 8th - Morning

Falciglia P.P., Vagliasindi F.G.A. (Italy)
Effects of lead contamination level on the performance of cement - fly ash based stabilization / solidification treated polluted soils

Mäkelä M., Watkins G., Dahl O., Nurmesniemi H., Pöykiö R. (Finland)
An integrated approach in the utilization of steel, pulp and paper industry solid residues in forest soil amendment

Discussion

8:30 – 9:00 Registration

9:00 – 10:30 **INVITED SPEAKERS**
Room – Grand Imperial

Chairman: R. Cossu (IT)

Gerhard Rettenberger

Ingenieurgruppe RUK (Germany)

“The production of RDF from waste using biological drying systems”

Hans Van der Sloot

Hans Van der Sloot Consultancy (The Netherlands)

“New characterization leaching tests and associated modeling tools in assessing hazardous nature of wastes”

Discussion

10:30 – 11:00 Coffee Break

Friday, October 8th - Morning

11:00 – 13:30 **Room – Grand Imperial**
SESSION A7: CONTAMINATED GROUNDWATER

Chairmen: P. Amosov (RU), Nehrenheim E. (SW)

Melnikov N., Amosov P., Novozhilova N. (Russia)
The influence of radiation hazardous materials module orientation and dimensions of the level of underground water contamination

Papapetridis K., Paleologos E. (Greece)
Stochastic modeling of subsurface pollution in 2-D heterogeneous aquifers and detection probability for linear configuration of monitoring wells

Moraci N., Calabro P.S., Suraci P. (Italy)
Estimate of the optimum weight ration in zero-valent iron - pumice granular mixtures used in permeable reactive barriers for the remediation of nickel contaminated groundwater

Iordanopoulos-Kisser M., Zorzi M., Luschin G. (Austria)
Innovative remediation by funnel and gate system of the mineral oil contaminated site "Tuttendorfer Breite" in Austria

Aivalioti M., P. Papoulias, Gidarakos E. (Greece)
Use of diatomite as a potential filling material of a permeable reactive barrier filling material designed to treat BTEX, MTBE and TAME contaminated aquifers

Nehrenheim E., Odlare M. (Sweden)
Treatment of explosives contaminated water by using pine bark in a batch process - potentials and kinetics

Friday, October 8th - Morning

Kabiersch G., Rajäsärkkä J., Ullrich R., Tuomela M., Hofrichter M., M. Virta, Hatakka A., Steffen K. (Finland)

Treatment of bisphenol A with litter-decomposing fungi results in removal of estrogenic activity

Discussion

11:00 – 13:00 **Room – Imperial I**
SESSION B7: TOXICITY

Chairmen: *K-W Schramm (DE),
A.Kungolos (GR)*

Ribé V., Odlare M., Nehrenheim E., Berglind R. (Sweden)

Hazard screening by chemical analysis and ecotoxicity bioassays of sediment, ground and surface water sampled from a fire pond and the surrounding area at an explosives destruction site

Weltens R., Vanermen G., Tirez K., Vanparys C., Nobels I., Deprez K., Michiels L. (Belgium)
DISCRISET: biotests for classification of hazardous waste - the concept

Weltens R., Maes J. (Belgium)
DISCRISET: biotests for classification of waste - step 2 screening

Galitskaya P., Selivanovskaya S., Chursina M.A., Odemchuk G.V. (Russia)
Toxicity estimation of hazardous wastes

Marescalco P.A.C., Zanetti M. (Italy)
Impact of the contamination due to chlorinated solvents and chromium VI on the human receptors resident near an industrial area

Friday, October 8th - Morning

Discussion

11:00 – 13:00 **Room – Imperial II**
SESSION C3: HOSPITAL WASTE

Chairmen: *D. Komilis (GR), S. Mahnik (AT)*

Hoffmann M., Schrubert K. (Germany)
Waste management methods in hospitals of tertiary level - waste accumulation and disposal structure for medical waste at the Jena university hospital, Germany

Mahnik M., Horinek G. (Austria)
Problems and solutions disposing liquid waste from human medicine

Komilis D., Katsafaros N., Vasilopoulos P. (Greece)
Hazardous medical waste production rates in Greece: case studies from medical facilities in Attica and from a small insular hospital

Papadopoulos D., Bouboukas G., Galenianou O., Katsoulis A., Kouloumoundras S., Verganelakis K. (Greece)
Athens hazardous medical waste incinerator. Latest modification and compliance with the new European and national legislation

Scherhauser S., Obersteiner G., Lechner P. (Austria)
Comparability of infectious hospital waste to residual waste and industrial waste

Discussion

11:00 – 14:00 Room – Imperial III
ROUND TABLE DISCUSSION:

**ΟΙ ΠΕΡΙΒΑΛΛΟΝΤΙΚΕΣ ΕΠΙΘΕΩΡΗΣΕΙΣ
ΣΤΗΝ ΔΙΑΧΕΙΡΙΣΗ ΕΠΙΚΙΝΔΥΝΩΝ
ΑΠΟΒΛΗΤΩΝ
ENVIRONMENTAL INSPECTIONS IN
HAZARDOUS WASTE MANAGEMENT
(IN GREEK ONLY)**

*P. Merkos, I. Mahairas, K. Milioreli, P. Drougas,
E. Gidarakos*

-Έλεγχοι στα σημεία παραγωγής επικινδύνων
αποβλήτων (Α.Λ.Ε., μπαταρίες-συσσωρευτές,
απόβλητα από θερμικές επεξεργασίες, ύλεις,
ιατρικά απόβλητα)

(Inspections in the hazardous waste production
facilities)

-Έλεγχοι σε μονάδες διαχείρισης επικινδύνων
αποβλήτων(αποτέφρωση-συναποτέφρωση,
αναγέννηση ορυκτελαίων, ανακύκλωση
συσσωρευτών, επεξεργασία ιατρικών αποβλήτων,
παραγωγή και χρήση εναλλακτικών καυσίμων,
χώροι αποθήκευσης-διάθεσης επικινδύνων
αποβλήτων)

(Inspections in the hazardous waste treatment/
disposal facilities)

-Συλλογή και μεταφορά επικινδύνων αποβλήτων
(Hazardous waste collection and transport)

-Διασυνοριακή μεταφορά επικινδύνων αποβλήτων
(Transboundary transport of hazardous waste)

-Διασφάλιση ιχνηλασιμότητας των επικινδύνων
αποβλήτων

(Hazardous waste traceability)

-Η περιβαλλοντική ευθύνη στη διαχείριση
των επικινδύνων αποβλήτων

(Environmental liability concerning hazardous
waste management)

13:00 – 15:00 Lunch Break

15:00 – 15:30 Poster Session

15:30 – 16:00 **INVITED SPEAKER**

Room – Grand Imperial

Chairman: *E. Diamantopoulos (GR)*

Triantafyllos Albanis

University of Ioannina (Greece)

*Pesticide concentration levels and ecological risk
assessment in natural surface waters and
sediments*

16:00 – 17:30

Room – Grand Imperial

SESSION A8: CONTAMINATED SOIL

Chairmen: *W. Calmano (DE), L. Alibardi (IT)*

Syngouna V.I., Chrysikopoulos C.V. (Greece)

*Effect of aquatic chemistry on virus sorption onto
clays*

Pensaert S., Pomphrey G., Mosca D. (Belgium)

*Soil treatment centre at the site of a large
international sports event in 2010, London, UK*

Moraetis D., Nikolaidis N.P., Karatzas G.,

Kalogerakis N., Winkel L. (Greece)

*Geochemical evidences of geogenic origin of
chromium in Oropos plain Attica*

Zilic-Fiser S., Dvorsak S. (Slovenia)

*The model of an effective public communication in
remediation of acid tar dump: case of Pesniski
Dvor*

Mueller J., Przepiora A., Petounis D. (USA)
*Immobilization of arsenic and other heavy metals
in groundwater using EHC-M®*

Polychronopoulou E., Tiniakos D., Tsilemou A.,
Kavouri S., Angeli M. (Greece)
*Sustainable development in hazardous waste
management – a case study in the island of Lesbos*

Discussion

16:00 – 17:30 **Room – Imperial I**
SESSION B8: WASTE TO ENERGY
CONCEPTS

Chairmen: *H.Grassl (DE), E. Gidarakos (GR)*

Bilitewski B. (Germany)
*Waste management plan for the implementation of
the thermal treatment of waste*

Gikas P., Noll S.A., Stedman K., Tchobanoglous
G. (Greece)
*The characterization and testing of wastewater
fine screen gross solids for suitability as a
gasification feedstock*

Pico D., Kaineder A., Bartl A. (Austria)
Wind power plants - waste recycling

Zarkadas I.S., Pilidis G.A. (Greece)
*Anaerobic digestion of agricultural manures and
olive mill wastewater: the effects of co-digestion in
biogas production and organic load reduction*

Rao L., Carabin P., Holcroft G. (Canada)
*Plasma waste gasification : decentralized
approach to production of energy from waste*

Discussion

16:00 – 17:30 **Room – Imperial II**
WORKSHOP 4: HOW TO GET PUBLISHED

Chairman: *Gardea – Torresdey J. (USA)*

1. Journal information
2. Preparation of properly formatted scientific
articles

Discussion

17:30 – 18:00 Coffee Break

Friday, October 8th - Afternoon

Friday, October 8th - Evening

18:00 – 20:00 *CLOSING SESSION*
Room – *Grand Imperial*

Chairmen: *R. Stegmann (DE)*

21:00 *Gala Dinner*

INVITED SPEAKER

Hartmut Grassl

Max Planck Institute for Meteorology in Hamburg
(Germany)

*“Hazardous waste management and global
climate change”*

ROUND TABLE DISCUSSION: ENERGY IN THE FUTURE:THE ROLE OF WASTE

*B. Bilitewski (DE), R. Cossu (IT),
H. Grassl (DE), G. Rettenberger (DE)*

POSTER AWARDS

Evaluation Committee: *W. Calmano (DE),
E. Diamantopoulos (GR), K.E Lorber (AT),*

10:00

Excursions (to be announced)

POSTERS

***From Wednesday 6th to Friday 8th October 2010
(poster exhibition will be open all day long
during the Conference)***

P1 Pöykiö R., Rönkkömäki H., Nurmesniemi H., Merisalu E., Perämäki P., Keiski R.L. (Finland)
Extractability of heavy metals in fly ash by artificial sweat and gastric fluids

P2 Pöykiö R., Nurmesniemi H., Watkins G., Keiski R.L., Dahl O. (Finland)
Total and leachable heavy metal concentrations in bottom ash from a power plant (246 MW) at a Finnish pulp and paper mill complex

P3 Ilarionov R., Koleva M., Shopov N., Simeov I. (Bulgaria)
Non-contact ultrasound identification of waste plastics by wavelet symptoms' spaces generating

P4 Tzanakos K., Giannis A., Gidaracos E. (Greece)
Effect of leachate recirculation rate in solid waste bioreactors

P5 Pozzi P., Taurino R., Zanasi T., Lancellotti I. (Italy)
Characterization of polymer fractions from municipal and industrial wastes from mechanical recycling

P6 Kousaiti A., Anastasiadou K., Papoulias P., Aivalioti M., Gidaracos E. (Greece)
Asbestos treated waste as an adsorption material for petroleum contaminants

- P7** Sirotková D., Kulovaná M., Vosáhlová S., Hofman J., Kočí V., Záleská M. (Czech Republic)
Novelization of Czech approaches to ecotoxicity evaluation of hazardous wastes
- P8** Avsar E., Toroz I., Hanedar A., Uslu E. (Turkey)
Investigation of the usability of automotive industry chemical wastewater treatment sludge as an additive to brick raw material in terms of firing process stack gas emissions
- P9** Omer A. (Sudan)
An overview on the development of integrated bioenergy devices for improvement of quality of life of poor people
- P10** Pöykiö R., Nurmesniemi H., Keiski R.L. (Finland)
Management of solid process wastes at an integrated pulp and paper mill complex
- P11** Stoeberl M., Russ W. (Germany)
Fermentative production of n-butanol using waste products from the food industry
- P12** Furlani E., Tonello G., Maschio S. (Italy)
Recycling of steel slag in mortar production - influence of superplasticizer additions
- P13** Andreola F., Barbieri L., Lancellotti I., Anastasiadou K., Bignozzi M.C., Bonvicini M. (Italy)
Agricultural biomass waste: preliminary study on characterization and valorisation in construction materials
- P14** Fedorov M., Chusov A., Negulyaeva E. (Russia)
Experience of hazardous waste minimization in morphological composition of municipal solid waste
- P15** Karamanova E., Karamanov A., Andreola F., Barbieri L., Lancellotti I., Schabbach L.M. (Bulgaria)
Sintering study of new ceramic materials based on incinerator secondary raw material and refractory clay
- P16** Grilli Cicilioni A., Castellani S., Bargagli R., Carnevale L., Capannoli R., Moschini L., Bracalari M. (Italy)
Assessment of environmental behaviour of steel making Linz Donawitz slag
- P17** Gholami M., Dehgan A.K., Farzadkia M., Mobedi I. (Iran)
Performance evaluation of Iran university of medical sciences hospital wastewater treatment plants
- P18** Acchar W., Paranhos R.J.S., Segadaes AM., Mello-Castanho S.R.H (Brazil)
Using sugar cane bagasse ash in the fabrication of ceramic tiles

P19 Zioris I.V., Raftopoulos C.T., Lambropoulou D.A., Danis T.G., Albanis T.A. (Greece)

Quick easy cheap effective rugged and safe (QuEChERS) approach for the determination of 100 pesticides residues in agricultural products of North Greece during last quinquenium

P20 Kochetov G., Zorya D., Heuss-Aßbichler S. (Ukraine)

Development of a technology for recovery of copper from electroplating wastewater

P21 Mateju L., Stepankova M., Zimova M., Hurka M. (Czech Republic)

An evaluation of the efficacy of hygienization during processing waste with pathogenic microorganisms

P22 Lesa B., Aneggi E., Comuzzi C., Dolcetti G., Goi D. (Italy)

Salt assisted and sonolitic supported thermal desorption of mercury from polluted dredging sludge

P23 Karatza D., Lancia A., Prisciandaro M., Musmarra D. (Italy)

Influence of oxygen on adsorption of elemental mercury vapors onto activated carbon

P24 Zimová M., Podolská Z., Matějů L., Melicherčík J., Polanský J., Krstev P. (Czech Republic)

Production and composition of healthcare waste in the Czech Republic

P25 Dvořáčková M., Geryková Z., Julinová M. (Czech Republic)

Biodegradation of polyvinylalcohol in aerobic environment after pretreatment by Fenton process

P26 Stavelova M., Muzikar M., Hermanek R., Brennerova M., Cajthaml T. (Czech Republic)

Influence of plants on PCBs removal from the soil in combination with composting and microbial degradation

P27 Mousios E., Christopoulos K., Anastasiadou K., Gidarakos E. (Greece)

Solidification / stabilization of asbestos waste from mine operation

P28 Chatzisyneon E., Diamadopoulos E., Mantzavinos D. (Greece)

Comparison and predesign cost estimation of advanced oxidation processes for olive mill wastewater treatment

P29 Frontistis Z., Brebou C., Katsaounis A., Mantzavinos D. (Greece)

Electrochemical degradation of ECDs by anodic oxidation on boron-doped diamonds

P30 Oguchi M., Kida A. (Japan)

Thermodynamic screening of mercury forms for long-term storage of excess mercury

- P31** Gallis C., Giagli K., Karypidoy V. (Greece)
Quantitative and geographical analysis of solid waste landfill data in the municipalities union of Thessaloniki greater area for the period 2004-2008
- P32** Romaniuk O., Dudok I., Dzhura N., Oshchapovsky I. (Ukraine)
The package of measures to remedy of the environment contaminated with the wastes of oil production and petrochemistry
- P33** Radfar M., Movahhed Nia M., Mousae R., Harati H., Fadaee N. (Iran)
Management of house hazardous wastes
- P34** Aulenius E., Nehrenheim E., Ribé V., Martel U., Odlare M. (Sweden)
Risk characterization of a former surface treatment and metal industry site using the triad method
- P35** Mimilidou A., Giannis A., Gidaracos E. (Greece)
Biological treatment of sewage sludge and yard trimmings with municipal solid wastes in landfill bioreactors
- P36** Fudala-Ksiazek S., Luczkiewicz A., Jankowska K., Kulbat E., Czerwionka K., Quant B., Olanczuk-Neyman K. (Poland)
Combinated treatment of landfill leachates with wastewater in a sequencing batch reactor (SBR)
- P37** Giannis A., Turro E., Cossu R., Gidaracos E., Katsaounis A. (Greece)
Electrochemical oxidation of stabilized landfill leachate over DSA® electrodes on IrO₂ and RuO₂
- P38** Cotman M., Žgajnar-Gotvajn A. (Slovenia)
Physico-chemical treatments of landfill leachate for improvement operation of SBR
- P39** Luciano A., Petrangeli Papini M., Viotti P. (Italy)
Experimental investigation on DNAPL mass reduction and dissolved plume development
- P40** Vasiliadou I., Chrysikopoulos C. (Greece)
Mathematical modeling of bacteria and clay co-transport in porous media
- P41** Hidasi J., Serényi M., Racz M. (Hungary)
Devices and measurement procedure for detecting liquid hydrocarbon derivatives floating on water
- P42** Amosov P., Novozhilova N. (Russia)
Taking into consideration the retardation factor in the assessment of ecological safety
- P43** Arapoglou D., Doula M., Kavvadias V., Iconomou D., Theocharopoulos S., Tountas P. (Greece)
Monitoring of phenols concentration in soil of olive oil mill waste disposal site

- P44** Doula M., Elaiopoulos K., Kavvadias V., Mavraganis V. (Greece)
Use of clinoptilolite to improve and protect soil quality from the disposal of olive oil mills wastes
- P45** Kavvadias V., Sarris A., Doula M., Zaharaki D., Theocharopoulos S., Komnitsas K. (Greece)
Soil quality monitoring in olive oil mill waste disposal sites
- P46** La Laina Cunha A.C., Ruiz M.S., Echevengúá Teixeira C. (Brazil)
Environmental assessment of remediation technologies: an analytical framework for a hexachlorocyclohexane (HCH) contaminated site in Brazil
- P47** Kalderis D., Juhasz A., Boopathy R., Comfort S. (Greece)
Soil contaminated with explosives – environmental fate and state of the art treatment processes
- P48** Panagopoulos I., Karayannis A., Kassomenos P., Gouvalias G., Gaki E. (Greece)
The prediction of toxic fugitive dust depression during soil remediation works using FDM model
- P49** Drolc A., Pintar A. (Slovenia)
In situ continuous monitoring of nitrate and nitrite in selected waste water matrices by UV spectroscopy
- P50** Trukhina A.I., Gladchenko M.A., Kalyuzhnyi S.V. (Russia)
Influence of nitrogen loading rate on impact of DEAMOX reaction for sulfide and organics driven DIAMOX processes
- P51** Valkenburg J., Hill D., Seech A., Mueller J. (USA)
Full scale ZVI/ organic carbon applications in soil
- P52** Pinho S.C., Almeida M.F., Nunes O.P. (Portugal)
Applicability of alkaline hydrolysis to health care wastes
- P53** Hoffmann M., Schubert K. (Germany)
Material flow management at the Jena university hospital, Germany – selected examples for a separation of uninfected from infectious waste
- P54** Kalafatis Y., Galenianou O., Katsoulis A., Kouloumoundras S., Papadopoulos D., Verganelakis K. (Greece)
Athens hazardous medical waste incinerator. A solution for several types hazardous waste produced in Attica region
- P55** Amosov P., Novozhilova N. (Russia)
Influence of hazardous waste disposal facility with hazardous wastes location depth on level of underground hydrosphere contamination

- P56** Ilarionov R., Koleva M., Shopov N., Simeonov I., Demireva D. (Bulgaria)
Effect of material structure on wave propagation in non-contact ultrasound identification of waste plastics
- P57** Panagiotou K., V.A. Sakkas, Albanis T. (Greece)
Application of chemometric assisted dispersive liquid-liquid microextraction to the determination of personal care products in natural waters
- P58** Kontogianni St., Karagiannidis A., Antonopoulos I.-S., Moussiopoulos N., Schmidt J., Weidema B., Villeneuve J., Brunner P. (Greece)
Forecasting hazardous waste quantities by tracing physical flows and stocks of resources in Europe for the next 25 years
- P59** Petridis N.P., Sirioti I.T., Sakkas V.A., Albanis T.A. (Greece)
Application of leaching test and SPE method for the determination of priority PAHs in solid wastes
- P60** Elefsiniotis L., Karagiannidis A., Antonopoulos I.-S., Moussiopoulos N., Kontogianni St. (Greece)
A three-stage, steady-bed gasifier for municipal solid waste and biomass
- P61** Bilal E., Bounakhla M., Benmansour, F.M. De Mello (France)
Brazilian Phosphorogypsum
- P62** Moussiopoulos N., Koroneos C., Achillas Ch., Vlachokostas Ch. (Greece)
Hazardous waste minimisation through redesign of industrial products: the case of NETMOD
- P63** Zimová M., Podolská Z., Matějů L., Veverková M., Wittlingerová Z., P. Ševčíková P. (Czech Republic)
Existing approaches to minimize health and environmental risks in the use of energy by-products in the Czech Republic
- P64** Samaras P., Karagiannidis A., Kalogirou E., Themelis N., Moussiopoulos N., Kontogianni S. (Greece)
An inventory of characteristics and treatment processes for fly ash from waste-to-energy facilities for municipal solid wastes
- P65** Baggio H., Horn H.A., Bilal E. (Brazil)
Behavior heavy metals in the Formoso river, Minas Gerais state, Brazil
- P66** Erıçyel K., Arıkan O.A. (Turkey)
Composting of yeast industry biosolids by using shredded cornstalk and hazelnut hus
- P67** Campos-Mota L. (Mexico)
Quality of vermicompost from paper mill sludge and vegetal wastes to be used as potting media in the Netherlands
- P68** Pensaert S., Van De Velde K. (Belgium)
Storage capacity optimization of tailing ponds by means of mechanical dewatering

- P69** Radfar M., Gorbanian Tabrizi M., Roshani M., Aga Mohammadi A. (Iran)
Localizing criteria of hazardous wastes landfill in geographical information system
- P70** Christopoulos K., Mousios E., Anastasiadou K., Gidarakos E. (Greece)
Solidification / stabilization of fly and bottom ash from medical waste incineration facility
- P71** Grzesik K., Mikołajczak J. (Poland)
The extractive waste management from hard coal mines in Poland
- P72** Quaranta N., Caligaris M., López H., Unsen M., Pietri L., Vázquez P. (Argentina)
Characterization of ceramic bodies from clay and blast furnace sludge
- P73** Ruffino B., Zanetti M. (Italy)
Reuse and recycling of automotive paint sludge: a brief overview
- P74** Albadarin A.B., Al-lagtah N., Salameh Y., Ahmad M.N.M., Allen S.J., Walker G.M. (UK)
Equilibrium and kinetic studies on hexavalent chromium adsorption by lignin
- P75** Papaoikonomou K., Sakellariou S., Kungolos A. (Greece)
Recycling of waste of electrical and electronic equipment: a study on Volos, Greece
- P76** Li S., Zhang L., Pan B., Xiong G., Cang D.(China)
Study on preparation and characterization of the adsorbents with sewage sludge
- P77** Alavi N., Mesdaghinia A.R., Naddafi K., Jafarzadeh N., Mohebali G. (Iran)
Biodegradation of petroleum hydrocarbons in a soil polluted by oil-based drilling cuttings
- P78** Bhawe P., Alterak R.A. (India)
E-waste management – an Indian scenario
- P79** J.-Y. Wu, W.-S. Chen, Y.-H. Shen, M.-S. Tsai, F.-C. Chang (Taiwan)
Magnetic material produced from copper contained wastewater

CONFERENCE STRUCTURE

Tuesday 5/10/2010 evening	IWWG Task Group "Industrial Waste Management" Meeting - Welcome Drink			
Wednesday 6/10/2010 morning	OPENING CEREMONY			
	GENERAL SESSIONS	GENERAL SESSIONS / WORKSHOPS	SPECIAL SESSIONS / COURCES	
Wednesday 6/10/2010 morning	A1: Hazardous and Industrial Waste Regulations and Control	B1: Hazardous and Industrial Waste Treatment I	Invited Speaker Invited Speaker	SS1: Αξιολόγηση και Αποκατάσταση Ανεξέλεγκτων Ρυπασμένων Χώρων / Εγκαταστάσεων – Evaluation and Restoration of Uncontrollable Contaminated Sites / Facilities (in Greek only)
Wednesday 6/10/2010 afternoon	A2: Waste / Contaminated Sites Characterization A3: Industrial Waste Management Strategies	B2: Hazardous and Industrial Waste Treatment II B3: Landfill Issues I	Poster Session Invited Speaker W1: WEEE W2: Microwaves & Waste Management	SC1 : Organization of Hazardous Waste Management
Thursday 7/10/2010 morning	A4: Thermal Processes	B4: Landfilling Issues II	Invited Speaker Invited Speaker W3: Agro-industrial Waste Management	SS2: Ιατρικά Απόβλητα – Medical Waste (in Greek only)
Thursday 7/10/2010 afternoon	A5: Combustion Residues I A6: Combustion Residues II	B5: Industrial Wastewater Treatment B6: Asbestos	Poster Session Invited Speaker C1: Hazardous and Industrial Waste Recycling I C2: Hazardous and Industrial Waste Recycling II	SC2 : Statistical Model Building for Industrial Pollution Control and Hazardous Waste Management
Friday 8/10/2010 morning	A7: Contaminated Groundwater	B7: Toxicity	Invited Speaker Invited Speaker C3: Hospital Waste	ROUND TABLE DISCUSSION: “Environmental inspections in hazardous waste management” (in Greek only)
Friday 8/10/2010 afternoon	A8: Contaminated Soil	B8: Waste-to-Energy Concepts	Invited Speaker W4: How to get published	
Friday 8/10/2010 afternoon	Invited Speaker – ROUND TABLE DISCUSSION : “Energy in the future: the role of waste” Poster Awards – CLOSING CEREMONY			
Friday 8/10/2010 evening	GALA DINNER			