

***6<sup>th</sup> INTERNATIONAL CONFERENCE ON  
ENVIRONMENTAL ENGINEERING AND  
MANAGEMENT – ICEEM06***

**GREEN FUTURE**



**CONFERENCE PROGRAM**

**1 - 4 SEPTEMBER 2011**

**BALATONALMÁDI, HUNGARY**



## ICEEM 06 ORGANIZERS

### ***DEPARTMENT OF ENVIRONMENTAL ENGINEERING AND MANAGEMENT,***

*FACULTY OF CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION,*

*"GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IAȘI, ROMANIA*

### **UNIVERSITY OF PANNONIA, VESZPRÉM, HUNGARY**



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*"Complex Development of Student, Institutional and  
Labour Market Services at the University of Pannonia"*



***InterMediu*** – *Information, Consultancy and DL Department, Gheorghe Asachi  
Technical University of Iasi, Romania*

***OAIMDD*** - *Academic Organization for Environmental Engineering and Sustainable  
Development, Iasi, Romania*

### **ICEEM 06 VENUE:**

***Ramada Hotel & Resort Lake Balaton,***

**8220 Balatonalmádi, Bajcsy-Zsilinszky u. 14.**



**CONFERENCE CHAIRPERSONS**

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Adela Buburuzan

Elisabeta Pomeanu

Viola Somogyi

Corina Musteret



**Thursday, September 1, 2011.**

16.00-18.00	Registration, arrival, occupancy of the accomodation	Reception
16.00-18.00	OPTIONAL visit to Veszprém	
19.00-	Welcome dinner	Restaurant Levante

**Friday, September 2, 2011.**

Time			Place
8.30 -9.00	Registration		Reception
9.00-10.00	Opening ceremony	9.00- Opening speeches: Prof. Ferenc Friedler rector, Prof. Carmen Teodosiu, Prof. Ákos Rédey, Dr. Irina Golubeva, Prof. Maria Gavrilescu, Prof. Matei Macoveanu	Tramontana
10.00-11.00	Plenary session 1	<b>Session chair persons: Prof. Ákos Rédey and Prof. Carmen Teodosiu</b>	
		10.00-	1. keynote: Friedl Anton: Lignocellulosic biorefinery
		10.30-	2. keynote: Gavrilescu Maria: Biosorption and bioaccumulation of persistent pollutants on dead and living biomass.
11.00-11.30	Coffee break	CONFERENCE OFFICIAL PHOTO	
11.30-13.00	Plenary session	<b>Session chair persons: Prof. Ákos Rédey and Prof. Carmen Teodosiu</b>	
		11.30-	3. keynote: Dumitriu Emil: Mesostructured materials for eco-friendly catalytic applications
		12.00-	4. keynote: Teodosiu Carmen: Bridging disciplinary perspectives in sustainable water resources management in Romania
		12.30-	5. keynote: Rédey Ákos: Impact assessment of Hungarian red mud catastrophe of 2010
13.00-14.00	Lunch		Restaurant Levante
14.00-15.20	Conference – Poster session	1 <sup>st</sup> round	Nevera 1
14.00-15.20	Impact, risk and life-cycle assesment	<b>Session chair person: Prof. Maria Gavrilescu</b>	
		14.00-	Barjoveanu George: Life cycle assessment of wine production: focus on water use impact assessment
		14.20-	Gavrilescu Dan: Environmental impact of pulp and paper mills
		14.40-	Gergen Iosif: The impact of organic and mineral fertilizers on the yield and mineral contents of fabaceae from permanent grassland
		15.00-	Iosip Alina: Assesing environmental impact of packaging paper production based on recycled fibre raw material
14.00-15.20	Catalysis	<b>Session chair person: Prof. Emil Dumitriu</b>	Sky Board



Friday, September 2, 2011.

Time			Place	
		14.00-	Urda Adriana: Catalytic total oxidation of light alkanes over LnMgAlO (Ln = Ce, Sm, Dy, Yb) mixed oxides	
		14.20-	Yuzhakova Tatiana: Thermal stability and surface structure of SNO <sub>2</sub> -CEO <sub>2</sub> impregnated catalysts	
		14.40-	Vasile Anca: Elimination of gas pollutants using SNO <sub>2</sub> -CEO <sub>2</sub> catalysts	
		15.00-	Scurtu Mariana: In situ study of the electrical/dielectric properties of alumina supported vanadia used as combustion catalysts	
15.20-16.00	Coffee break			
16.00-18.00	Conference – Poster session	2 <sup>nd</sup> round		Nevera 1
16.00-18.00	Modeling, simulation and optimization	<b>Session chair person: Prof. Anton Friedl</b>		Nevera 2
		16.00-	Ani Elisabeta-Cristina: Mathematical models to help pollution counteraction in case of accidents	
		16.20-	Szabolcs Szilveszter: Activated sludge floc characterization by confocal laser scanning microscopy	
		16.40-	Dumitran Gabriela Elena: Eutrophication modelling of Golesti reservoir in Romania	
		17.00-	Melenti Laura: A GIS-based approach for identifying potential runoff around Valea Şesei tailing pond, Romania	
		17.20-	Sorin Ilie: Modeling the impact of road traffic on air pollution in urban environment. Case study	
		17.40-	Somogyi Viola: Optimizing calculation of wastewater treatment models	
16.00-18.00	Environmental, integrated management and policy making	<b>Session chair person: Dr. Brindusa Robu</b>		Sky Board
		16.00-	Gavrilesco Maria: Analysis and management of specific processes from environmental engineering and protection based on sustainability indicators	
		16.20-	Pomeanu Elisabeta: Assessment of tourism development in Romania: environmental issues and challenges in north of Moldova	
		16.40-	Bucur Roxana Dana: Individualization of homogeneous areas from the point of view of artificial energy demand for plants growing in covered spaces from Romania	
		17.00-	Kovács Zsófia: New direction in terms of water quality monitoring application	
		17.20-	Laslo Éva: The management of n and p nutrition of plants using nitrogen fixing and phosphorus solubilizing bacteria	
		17.40-	Tamás Éva: Natural alternative soil fertilization by organic nitrogen and phosphorus mobilizing bacteria	
19.00-	Dinner at the ship			



Saturday, September 3, 2011.				
Time			Location	
9.00-10.40	Pollution and monitoring I.	<b>Session chair person: Assoc. Prof. Igor Cretescu</b>		Nevera 1
		9.00-	Cretescu Igor: Solid ion selective membranes based on n-hydroxy succinimide for determination of cuprum (II) ions from aqueous solutions	
		9.20-	Alhafez Livia: Polycyclic aromatic hydrocarbons in wastewater sewerage system from the Cluj-Napoca area	
		9.40-	Carstea Elfrida: Real-time monitoring of a petroleum product contamination on an urban river	
		10.00-	Ghervase Luminita: Human daily activities reflected by the ecological state of natural water resources	
		10.20-	Simina Dreve: Measurements of radium content in some spring waters from Romania	
9.00-10.40	Water supply and wastewater treatment I.	<b>Session chair person: Prof. Carmen Teodosiu</b>		Nevera 2
		9.00-	Brinzila Carmen: Effect of experimental parameters on cristal violet mineralization by electro-fenton processes	
		9.20-	Motoc Sorina: Electrochemical degradation of pharmaceutical effluent on carbon-based electrodes	
		9.40-	Orha Corina Ileana: Silver doped natural and synthetic zeolites for removal of humic acid from water	
		10.00-	Ildikó Bartalis: Enhancement of phenol oxidation by ozone in wastewater II. Kinetic modeling	
		10.20-	Cristina Orbeci: A new photo-fenton procedure applied in oxidative degradation of organic compounds from wastewater	
9.00-10.40	Materials science	<b>Session chair person: Dr. Tatiana Yuzhakova</b>		Sky Board
		9.00-	Baciu Anamaria: Carbon nanotubes composite for environmental friendly sensing	
		9.20-	Simona Ilisei: New polyurethane - hydroxyapatite composites membranes	
		9.40-	Ciopec Mihaela: Studies regarding chromium ions adsorption on dehp-a-impregnated XAD7 using design of experiments for optimizing the chemical process	
		10.00-	Badara Nicolae: The behavior of the ferrous materials magnetized in extreme conditions related to the communication systems	
		10.20-	Laura Bulgariu: Equilibrium and kinetics study of nitrate removal from water by purolite A520-E resin	
10.40-11.10	Coffee break			



Saturday, September 3, 2011.				
Time			Location	
11.10-12.50	Pollution and monitoring II.	<b>Session chair person: Assoc. Prof. Irina Volf</b>		Nevera 1
		11.10-	Marius Matache: Food chain biomagnification of some heavy metals in samples from the lower prut floodplain natural park	
		11.30-	Rusu Lacramioara: The effects of crude oil and salty water soil pollution on the germination and growth of three plant species (Triticum., Zea Mays, Phaseolus Vulgaris)	
		11.50-	Bragea Mihaela: The disequilibrium of uranium isotopes in soil and vegetation samples from tailing dumps	
		12.10-	Bulgariu Dumitru: Risk potential of some microelements (Zn, Cu, Co, Ni, Mn, Al) in soils cultivated with vegetables in traditional systems	
		12.30-	Soceanu Alina Daria: OCPS and PAHS distribution in different stages of tomato growing	
11.10-12.50	Water supply and wastewater treatment II.	<b>Session chair person: Dr. Alexandra Csavdari</b>		Nevera 2
		11.10-	Lupascu Tudor: Study of processes of groundwater treatment from hydrogen sulfide	
		11.30-	Cioroi Maria: Physico-chemical characteristics of wells water in some areas of Galati County, Romania	
		11.50-	Pacala Adina: The experimental studies and research concerning coagulation properties of aluminium coagulants	
		12.10-	Cailean Daniela: Integrated ultrasonication-ultrafiltration process for the treatment of textile effluents	
		12.30-	Pierantonio De Luca: Selective photo-degradation of pollutants in water by microporous agents based on titanium, silicon and vanadium	
11.10-12.50	Environment friendly materials	<b>Session chair person: Assoc. Prof. Cezar Catrinescu</b>		Sky Board
		11.10-	Harja Maria: Ash modified for improvement soil quality	
		11.30-	Narcisa Vrinceanu: Textural and morphological characterization of chitosan/bentonite nanocomposite used as drug matrix	
		11.50-	Puitel Adrian Catalin: Environmentally friendly vegetal fiber based materials	
		12.10-	Lenka Jaskowicová: Leaching and ecotoxicological properties of industrial by-products used in building materials	
		12.30-	Samoila Petrisor Mugurel: Catalytic oxidation of phenol over Zn <sub>1-x</sub> Mg <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> supported and unsupported catalysts	
13.00-14.00	Lunch			Restaurant Levante



Saturday, September 3, 2011.					
Time				Location	
14.00-15.20	Pollution and monitoring III.	<b>Session chair person: Assoc. prof. Carmen Zaharia</b>			Nevera 1
		14.00-	Ramona Nimirciag: Heavy metals in the soils of Rodna mining area, Romania and zeolite efficiency for remediation		
		14.20-	Csavdari Alexandra: Kinetic methods to determine inorganic pollutants from water samples		
		14.40-	Szabó Mária: Metal sensitive red fluorescent proteins in environmental monitoring		
		15.00-	Khodaei Hamidreza: Ability of common flax and tall fescue to grow in crude oil-contaminated soil and their phytoremediation potential		
14.00-15.20	Solid waste treatment and air pollution	<b>Session chair person: Prof. Ákos Rédey</b>			Nevera 2
		14.00-	Schvab Csaba Andrei: What kind of solid waste management it must to be promoted for a sustainable development of the Bucharest metropolitan zone?		
		14.20-	Buburuzan Marilena Adela: Breakthrough behavior of n-hexane vapours on hypercrosslinked polymeric resins and granular activated carbon systems		
		14.40-	Schiopu Ana-Maria: Landfill leachate treatment by reverse osmosis		
		15.00-			
14.00-15.20	Green chemistry and catalysis I.	<b>Session chair person: Dr. Adriana Urda</b>			Tramontana
		14.00-	Dumitriu Emil: Controlling the chemoselectivity in the cinnamaldehyde hydrogenation by insertion of non-noble metals in the matrix of hydroalcite-like materials		
		14.20-	Smaranda Camelia: Studies concerning the mechanism of sorption of congo red on soil		
		14.40-	Catrinescu Cezar Florin: Anatase/rutile tio <sub>2</sub> composites: influence of the mixing ratio on the photocatalytic degradation of 4-chlorophenol from wastewater		
		15.00-	Nemes Tudorita: Preparing and characterizing specific catalyzers for oxidizing CO and hydrocarbon (HC) remains		
15.20-16.00	Coffee break				
16.00-17.00	Closing ceremony		Speakers: Dr. Irina Golubeva, Prof. Ákos Rédey, Prof. Carmen Teodosiu	Tramontana	
19.30-	Gala dinner with live music			Tramontana	

**Sunday, September 4, 2011.**

	OPTIONAL excursion to Keszthely (study case)
	Departure





Poster session, 1<sup>st</sup> round

Participant name	Poster title	Poster authors
Macoveanu Matei	<i>Cogeneration from waste, in the Miroslava village, Iasi County</i>	Samad Kazemi, Matei Macoveanu
Pomeanu Elisabeta	<i>Assessment of water quality in the Suceava river (N-E Romania)</i>	Oana Onofrei Carmen Teodosiu, Brândușa Robu, Gabriela Sasu
Volf Irina	<i>Phenolic acids - potential candidates in improving phytoremediation process</i>	Alina Stingu, Irina Volf, Valentin I.Popa
Duca Gheorghe	<i>The pollution sources by old pesticides in Moldova</i>	Duca Gheorghe, Bogdevich Oleg, Cadociniov Oleg, Porubin Diana
Harmanescu Monica	<i>FTIR spectroscopy - nondestructive method to monitor the impact of different fertilizers on the floristic matrix of permanent grassland</i>	Harmanescu Monica, Moisuc Alexandru, Gergen Iosif
Lazar Gabriel	<i>Environmental influence on two fish population evidenced by lipids spectral analysis</i>	Gabriel Lazar, Dorel Ureche, Irina Loredana Ifrim, Marius Stamate, Camelia Ureche, Valentin Nedeff, Ileana Denisa Nistor, Adriana Luminita Finaru, Iuliana Mihaela Lazar
Miclean Mirela	<i>Assessment of metals and organochlorine compounds levels in commonly consumed marine species in Cluj-Napoca, NW Romania</i>	Miclean Mirela, Cadar Oana, Tanaselia Claudiu, Gog Adriana, Senila Marin, Groza Ioan Stefan
Neacsu Oana	<i>The survey of electric charges pollution in the residential area and laboratory environment</i>	Oana Neacsu, Oana Beniuga, Alexandru Salceanu
Cretescu Igor	<i>Assessing the human exposure due to wireless local area networks in office environments</i>	Eduard Lunca, Valeriu David, Alexandru Salceanu, Igor Cretescu
Cretescu Igor	<i>Sensor for in situ determination of petroleum products in contaminated waters</i>	Igor Cretescu, Mihoreanu Ciprian, Doina Sibiescu, Matei Macoveanu
Constantin Filote	<i>Monitoring of groundwater quality in some vulnerable areas in Botosani County - nitrates and nitrites based pollutants</i>	Violeta Vasilache, Constantin Filote, Monica Anca Cretu, Ion Sandu, Vasile Coisin, Traian Vasilache
Kovacs Melinda	<i>Survey of humans exposure to organic pollutants coming from home produced vegetals and home grown animals - regional scale pattern</i>	Melinda Haydee Kovacs, Tania Ristoiu, Dumitru Ristoiu
Tint Piia	<i>Indoor air quality in Estonian educational institutions</i>	Piia Tint, Ada Traumann, Viuu Tuulik
Robu Brindusa	<i>Removal of CD(II) ions from aqueous solution by retention on pine bark</i>	Lavinia Tofan, Carmen Paduraru, Anca Miron, Brandusa Robu
Somogyi Viola	<i>Examples for the energy efficiency of the municipal and industrial wastewater treatment in Hungary</i>	Viktoria Pitas, Bence Fazekas, Zsuzsanna Banyai, Arpad Karpati, Karoly Reich, Krisztian Varga
Cailean Daniela	<i>Monitoring and evaluation of the performance of combined conventional treatment processes for herbicides removal from industrial wastewater effluents</i>	Bianca Weinberg, Carmen Teodosiu
Ildikó Bartalis	<i>Enhancement of phenol oxidation by ozone in wastewater I. Experimental results</i>	Bartalis Ildiko, Siminiceanu Ilie, Arany Eszter



Participant name	Poster title	Poster authors
Balan Catalin	<i>Removal of CR (VT) from aqueous environment using peat moss-equilibrium and kinetic study</i>	Catalin Balan, Irina Volf, Bulai Petru, Doina Bilba, Matei Macoveanu
Zaharia Carmen	<i>Options and solutions of textile effluent decolourization using some specific physico-chemical treatment steps</i>	Carmen Zaharia, Daniela Suteu, Augustin Muresan
Colar Liliana Andreea	<i>Photocatalytic activity of a silver doped TIO 2 modified zeolite in the degradation of reactive yellow 125 azo dye</i>	Liliana Andreea Colar, Elida Cristina Ilinoiu, Florica Manea, Rodica Pode, Carmen Lazau, Cornelia Ratiu
Cretescu Igor	<i>Comparativ study between electro-coagulation and chemical coagulation applied for waste water treatment</i>	Laura Zaleschi, Carmen Teodosiu, Igor Cretescu, Manuel Andres Rodrigo
Bobirica Constantin	<i>Physicochemical and rheological characterization of complex coagulants derived from the weak and medium anionic polymers and medium cationic surfactant</i>	Constantin Bobirica, Liliana Bobirica, Gabriel Dabija, Mihaela Mihai
Puitel Adrian Catalin	<i>Environmental friendly pulping and bleaching of rapeseed stalk fibers</i>	Tofanica Bogdan Marian, Puitel Adrian Catalin, Gavrilesu Dan
Sandu Iulian	<i>Pollution evaluation by using natural low-cost sorbent</i>	Iulian Sandu, Ionela Mezdrea Cojocareanu Pața, Matei Macoveanu
Luca Constantin	<i>The management of air quality at the level of Iasi city</i>	Florin Alexandru Luca, Corina AnaMaria Ioan

Poster session, 2<sup>nd</sup> round

Participant name	Poster title	Poster authors
Tatiana Yuzhakova	<i>Investigations on the thermal stability of SCR denox catalyst useable for diesel exhaust gas treatment</i>	József Kovács, Tibor Egyházy, Tatiana Yuzhakova, Ákos Rédey
Smaranda Camelia	<i>Toxicity of heavy metals on two microbial strains isolated from soil: Azotobacter sp. and Pichia sp.</i>	Pavel Vasile Lucian, Diaconu Mariana, Bulgariu Dumitru, Gavrilesu Maria, Statescu Florian
Volf Irina	<i>New natural chelating agents with modulator effects on copper phytoextraction</i>	Irina Volf, Alina Stingu, Valentin I. Popa
Luca Constantin	<i>New aryloxyalkyl carboxylic acid derivatives with potential biological action</i>	Anca Mihaela Mocanu, Constantin Luca, Lucia Odochian, Constantin Iordache
Lazar Liliana	<i>Modelling and simulation of the catalytic oxidation of volatile organic compounds in the SCR-denox monolith reactor</i>	Liliana Lazar, Heinz Koeser, Ion Balasanian
Macoveanu Matei	<i>Optimization process of cadmium and Zink removal from soil by phytoremediation using Brassica Napus and Triticales sp.</i>	Paula Caraiman (Cojocaru), Corneliu Pohontu, Gabriela Soreanu, Matei Macoveanu, Igor Cretescu
Ostace George Simion	<i>Evaluation of different control strategies of the waste water treatment plant based on a modified activated sludge model no. 3</i>	George Simion Ostace, Vasile Mircea Cristea, Paul Serban Agachi



Participant name	Poster title	Poster authors
Mihaiescu Radu	<i>Physico-chemical characteristics of the Karst Lake Ighiu (Romania)</i>	Radu Mihaiescu, Andreea Ioana Pop, Tania Mihaiescu, Edward Muntean, Simion Beldean, Nicoleta Muntean, Livia Alhafez, Alexandru Ozunu
Gaba Radu	<i>Mathematical model and computation program of the chamber furnace of boilers for air pollution reduction</i>	Aurel Gaba, Radu Gaba
Robu Brindusa	<i>Digitization of environmental impact assessment process</i>	Brindusa Robu, Gabriel Dan Suditu
Dragus Andreea	<i>Impact evaluation of triazine pesticides used in agriculture over the well water quality</i>	Andreea Dragus, Mihail Simion Beldean-Galea, Radu Mihaiescu, Carmen Roba, Tania Mihaiescu, Dumitru Ristoiu
Vatavu Roxana	<i>Etidium bromide influence on photosynthetic pigments content in Calendula Officinalis l. Leaf.</i>	Roxana Vatavu, Constantin Leonte, Teodor Robu, Catalina Slabu-Pascal
Bodea Ciprian	<i>Using of rapid impact assessment matrix (RIAM) for environmental impact assessment (EIA) on Cluj-Napoca municipal solid waste landfill</i>	Ciprian Bodea, Octavian-Liviu Muntean, Alexandru Ozunu
Robu Teodor	<i>Phytochemical analysis of extracts from inflorescences at Calendula Officinalis L. species influenced by the treatment with mutagene substances</i>	Teodor Robu, Roxana Vatavu, Constantin Leonte, Marius Zaharia
Jiménez José Mondéjar	<i>A new statistical approach to the evolution of carbon allowances prices and his relationship with energy commodities prices</i>	José Mondéjar-Jiménez, José-Luis Alfaro-Navarro & Manuel Vargas-Vargas
Trofin Valentin Orest	<i>Environmental performance part of performance management</i>	Mihaela Luminita Lupu, Oreste Trofin, Nicolae Trofin
Marius Ciprian Brinzila	<i>SiadEnv - Environmental friendly e-building energy management system</i>	Trandabat Alexandru Florentin, Pislaru Marius
Ioan Carmen	<i>Infrasound and its impact on the quality of life and environment</i>	Carmen Cătălina Ioan, Cornelia Ursu
Macoveanu Matei	<i>Adsorption of CD(II) from aqueous solution on marine green algae biomass</i>	Mariul Lupea, Laura Bulgariu, Matei Macoveanu
Dumitriu Emil	<i>Non-noble (Bi)metallic based catalysts for the hydrogenation of cinnamaldehyde</i>	Alexandru Chirieac, Constantin Rudolf, Brindusa Dragoi, Adrian Ungureanu, Emil Dumitriu
Orha Corina Ileana	<i>Microwave-assisted hydrothermal synthesis of composite materials based on natural zeolite and TiO<sub>2</sub> nanocrystals</i>	Cornelia Bandas (Ratiu), Carmen Lazau, Virgil Tiponut, Florica Manea, Rodica Pode
Suba Mariana	<i>The behavior of alkaline-earth metal nitrate - fuel binary mixtures in solution combustion synthesis</i>	Mariana Suba, Ioan Lazau, Cornelia Pacurariu, Robert Ianos
Viñas Elena Dosal	<i>Application of multi-criteria decision - making tool to locate construction and demolition waste (C&amp;DW) recycling facilities in a northern Spanish region</i>	Elena Dosal, Maria Coronado, Iciar Muñoz, Javier R. Viguri, Ana Andrés
Luca Constantin	<i>Filtering media functionalized with monochlorotriazinyl-β-cyclodextrin</i>	Constantin Luca, Ana-Maria Grigoriu, Florin Ciolacu
Chirila Laura	<i>Water pollution reduction by using new premetallised dyes in dyeing wool</i>	Laura Chirila, Romen Butnaru, Ioan Sandu, Viorica Vasilache, Maria Marcela Tarlea