



**“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAȘI
FACULTY OF CHEMICAL ENGINEERING AND ENVIRONMENTAL
PROTECTION**

***DEPARTMENT OF ENVIRONMENTAL ENGINEERING
AND MANAGEMENT***

With the support of:

- *OAIMDD - Academic Organization for Environmental Engineering and Sustainable Development*
- *InterMEDIU Information, Consultancy and ODL Department*
- *SIWMANET Project – Sustainable and Integrated Water Resources Management Network, contract no. 115 / 2006 within the CEEEX Research for Excellency Programme*
- *Calitatea – Acces la Succes – Media Partner*

4th INTERNATIONAL CONFERENCE

**ENVIRONMENTAL ENGINEERING
AND MANAGEMENT**

ICEEM 04

Sustainable Use of Natural Resources

CONFERENCE PROGRAM

September 12 – 15, 2007, Iasi, ROMANIA



Conference Chairpersons:

Prof.dr.eng. Matei Macoveanu Technical University of Iasi, Romania	Prof.dr.eng. Carmen Teodosiu Technical University of Iasi, Romania
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International Scientific Committee:

Prof.dr.ing Maria Gavrilescu <i>Technical University of Iasi</i>	Prof. dr., dr.h.c. Yusuf Chisti Massey University, New Zealand
Prof. dr., dr.h.c. Gheorghe Duca <i>State University Chisinau, Moldova</i>	Prof. dr.ing. Ion Balasanian <i>Technical University, Iasi, Romania</i>
Prof. dr.ing., dr. h.c. Peter A. Wilderer <i>Technical University of Munchen, German</i>	Prof. dr.ing. Emil Dumitriu Technical University, Iasi, Romania
Prof. dr. ing., dr.h.c. Thomas Lindqvist IIIEE, Lund University, Sweden	Prof.dr.ing Ilie Siminiceanu <i>Technical University of Iasi Romania</i>
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Prof. dr.ing. Michael S. Jorgensen Technical University of Denmark	Prof.dr.ing. Ákos Rédey <i>University of Veszprém, Hungary</i>
Prof. dr.ing. Valentin I. Popa <i>Technical University, Iasi, Romania</i>	Prof. dr. Philip Nyden Loyola University of Chicago, USA
Prof. dr. Han Brezet Delft University of Technology, The Netherlands	Assoc. Prof. dr. Eugenio Campos Ferreira <i>University of Minho, Portugal</i>
Prof. dr.ing. Georgeta Burtica <i>Politehnica University, Timisoara, Romania</i>	Prof. dr. ing. Marcel Popa Technical University, Iasi, Romania

Conference Secretariat

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Drd. biol. Camelia Bețianu	Drd.ing. Adela Haleta
Drd.ing. Corina Musteret	Drd.ing. Irina Anita



CONFERENCE PROGRAM

Wednesday, September 12, 2007

15 ⁰⁰ - 19 ⁰⁰	Registration and Poster display	Orizont Hall, Faculty of Chemical Engineering and Environmental Protection Blvd. D. Mangeron, no. 71A, Iasi
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Thursday, September 13, 2007

8 ⁰⁰ - 9 ³⁰	Registration and Poster display	Orizont Hall, Faculty of Chemical Engineering and Environmental Protection Blvd. D. Mangeron, no. 71A, Iasi
10 ⁰⁰ - 11 ⁰⁰	Opening Ceremony New Senate Hall (<i>Rectorate Building</i>) Blvd. D. Mangeron, no. 67, Iasi	Welcome Speeches
11 ⁰⁰ - 11 ³⁰	Coffee break	
11 ³⁰ - 13 ³⁰	Plenary Session New Senate Hall (<i>Rectorate Building</i>) Blvd. D. Mangeron, no. 67, Iasi	<i>Sustainability Dimensions</i> - key note lectures by: Prof. Adisa Azapagic Prof. Michael Sogaard Jørgensen Prof. Thomas Lindqvist Prof. Donald Huisingh
13 ³⁰ - 15 ⁰⁰	Lunch Caraffa Restaurant, Iulius Mall	
15 ⁰⁰ - 16 ³⁰	Plenary Workshop CH II Room, Faculty of Chemical Engineering and Environmental Protection	<i>The Vision, Concepts and Reality of ZERO EMISSIONS in Industrial Production: Real Progress in Improving the Efficiency in Use of Energy, Water and Materials</i> Workshop organized and conducted by Prof. dr. Donald Huisingh, USA
16 ³⁰ - 17 ⁰⁰	Coffee break Orizont Hall, Faculty of Chemical Engineering and Environmental Protection	
17 ⁰⁰ - 18 ³⁰	Parallel Sessions of ICEEM / 04 Professorial CH II Room and CH III Room	1. <i>Environmental Pollution and Monitoring</i> 2. <i>Analytik Jena Presentation</i>
20 ⁰⁰	Cocktail	<i>“La Boieri”</i> Restaurant, 27 Carol I Blvd. (Chamber of Commerce Iasi, Copou)



Friday, September 14, 2007

9³⁰ – 11³⁰	Plenary Session New Senate Hall (<i>Rectorate Building</i>) Blvd. D. Mangeron, no. 67, Iasi	<i>Sustainable Use of Resources-</i> Key note lectures by : Assoc.Prof. Magnus Enell Prof. Carmen Teodosiu Dr.eng. Ilie Vlaicu Prof. Ákos Rédey
11³⁰ - 12⁰⁰	Coffee break New Senate Hall (<i>Rectorate Building</i>) Blvd. D. Mangeron, no. 67, Iasi	
12⁰⁰ - 13³⁰	Parallel Sessions of ICEEM / 04 CH II and CH III Rooms, Faculty of Chemical Engineering and Environmental Protection	3. <i>Water Supply and Wastewater Treatment</i> 4. <i>Socrates MASS-MOD Project Workshop</i> Workshop organized and conducted by Prof.dr. Camelia Drăghici 5. <i>Sustainability and Resources Conservation</i>
13³⁰ - 15⁰⁰	Lunch Caraffa Restaurant, Iulius Mall	
15⁰⁰ – 16³⁰	Parallel Sessions of ICEEM / 04 Workshop CH II Room, Faculty of Chemical Engineering and Environmental Protection	6. <i>SIWMANET CEEEX Project: Thematic correlations and future project cooperation</i> Workshop organized and conducted by Prof.dr. Carmen Teodosiu 7. <i>Poster presentations</i>
16³⁰ – 17⁰⁰	Coffee break	
20⁰⁰	Galla Dinner	<i>“Clubul Bursei”</i> Restaurant No. 3 Lăpuşneanu Street Iaşi

Saturday, September 15, 2007

New Senate Hall (Rectorate Building)
Blvd. D. Mangeron, no. 67, Iasi

10⁰⁰ – 10⁴⁵ **Plenary Closing Ceremony of ICEEM / 04**

11⁰⁰ **Doctor Honoris Causa Award Ceremony for Prof.dr.eng Ákos Rédey (Hungary) and Prof.dr.eng. Michael Søgaard Jørgensen (Denmark)**



DETAILED CONFERENCE PROGRAM

SEPTEMBER 13, 2007

8⁰⁰ - 9³⁰	Registration and Poster display	Orizont Hall, Faculty of Chemical Engineering and Environmental Protection Blvd. D. Mangeron, no. 71A, Iasi
10⁰⁰ - 11⁰⁰	Opening Ceremony	New Senate Hall (Rectorate Building), Blvd. D. Mangeron, no. 67, Iasi
	Welcome Address:	
	Prof.dr.eng. Nicolae Badea	Rector of the "Gheorghe Asachi" Technical University of Iași
	Prof.dr.eng Ion Balasanian	Dean of the Faculty of Chemical Engineering and Environmental Protection
	Prof.dr.eng. Matei Macoveanu	Head of the Department of Environmental Engineering and Management
	Prof.dr.eng. Carmen Teodosiu	Conference Chairperson, Department of Environmental Engineering and Management
11⁰⁰ - 11³⁰	Coffee break	
Plenary Session: <i>Sustainability Dimensions</i>		
New Senate Hall (Rectorate Building), Blvd. D. Mangeron, no. 67, Iasi		
Chairperson: Prof. dr. eng. Carmen Teodosiu		
11³⁰ - 11⁵⁰	Adisa Azapagic The University of Manchester, United Kingdom	<i>"Energy from Municipal Solid Waste: Identifying Sustainable Technologies"</i> Key note lecture
11⁵⁵ - 12¹⁵	Michael Søgaard Jørgensen Technical University of Denmark, Denmark	<i>Organic food in Denmark – from grass root initiative to market niche: Potentials and barriers for further sustainable transition</i> Key note lecture
12²⁰ - 12⁴⁰	Thomas Lindhqvist Institute for Industrial Environmental Economics (IIIEE), Lund University, Sweden	<i>Corporate Management Tools to Address Sustainability Challenges- A reflection on the progress and difficulties experienced during the last decade</i> Key note lecture
12⁴⁵ - 13⁰⁵	Donald Huisingh Institute for a Secure and Sustainable Environment University of Tennessee, U.S.A.	<i>Emerging Academic Responsibilities and Opportunities for Promoting Regional Sustainability</i> Key note lecture
13¹⁰ - 13³⁰	Photo Session	Faculty of Chemical Engineering and Environmental Protection
13³⁰ - 15⁰⁰	Lunch	



Plenary Workshop

CH II Room,
Faculty of Chemical Engineering and Environmental Protection

Chairperson: Prof.dr.eng. Donald Huisingh

15⁰⁰ – 16³⁰ *The Vision, Concepts and Reality of ZERO EMISSIONS in Industrial Production: Real Progress in Improving the Efficiency in Use of Energy, Water and Materials*

16³⁰ – 17⁰⁰ **Coffee Break**

Parallel Session 1

Environmental Pollution and Monitoring CH II Room

Chairperson: Dr.eng. Cezar Catrinescu

17⁰⁰ – 17¹⁰	Simona Dobrinas , Alina Soceanu, Semaghiul Birghila, Valentina Coatu	Content of Polycyclic Aromatic Hydrocarbons and Organochlorine Pesticides in Tap Water and Surface Waters
17¹⁰ – 17²⁰	Laura Cochei , Aurel Iovi, Rodica Pode, Eveline Popovici	Modelling of Sorption Equilibrium of Cr(VI) on Isomorphic Substituted Mg/Zn-Al – Type Hydrotalcites
17²⁰ – 17³⁰	Paulovits Gábor, Borbély Gábor , G. Tóth László, Kováts Nóra	Effects of Water Level Fluctuation on Reproduction and Spawning Habits of Fish Species in Lake Balaton
17³⁰ – 17⁴⁰	Ioan Ivanov Dospinescu, Carmen Zaharia and Matei Macoveanu	Study of Increasing Soil Fertility Into a Site with High Electric Field around Using Polymeric Conditioning Agent
17⁴⁰ – 17⁵⁰	Marius Branzila, Carmen Alexandru, Codrin Donciu, Alexandru Trandabat, Cristina Schreiner	Virtual Environmental Measurement Center Based on Remote Instrumentation
17⁵⁰ – 18⁰⁰	Karin Popa	Radioactive Waste Management: Is Cerium a Good Surrogate for Plutonium?
18⁰⁰ – 18¹⁰	Liliana-Mihaela Chirilă , Helmut Papp, Wladimir Suprun, Ion Balasanian	Synthesis, Characterization and Catalytic Reduction of NOX Emissions over Lamno3 Perovskite
18¹⁰ – 18²⁰	Codrin Donciu, Marinel Temneanu, Marius Brînzilă	Urban Traffic Pollution Reduction using an Intelligent Video Semaphoring System
18²⁰ – 18³⁰	Alexandru Trandabat , Marius Branzila, Marius paslaru, Codrin Donciu, Romeo Cristian Ciobanu	Using GPSTechnology and Distributed Measurement System for Air Quality Mapping or Residential Area



Parallel Session 2 - Analytik Jena Presentation
CH III Room

17 ⁰⁰ – 17 ³⁰	Sergiu Porumboiu	Analytik Jena Presentation: contraAA® – High-Resolution Continuum Source Atomic Absorption Spectrometry
17 ³⁰ – 18 ⁰⁰	Poster Presentations	

20 ⁰⁰	Cocktail	“La Boieri” Restaurant 27 Carol I Blvd. (Chamber of Commerce Iasi, Copou)
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**4th International Conference Environmental Engineering and Management
Sustainable Use of Natural Resources
ICEEM / 04, September 12 – 15 2007, Iasi, Romania**



SEPTEMBER 14, 2007

Plenary Session: Sustainable Use of Resources

New Senate Hall (*Rectorate Building*)

Blvd. D. Mangeron, no. 67, Iasi

Chairperson: Prof. Dr. Eng. Dr.h.c. Thomas Lindhqvist

9³⁰ – 9⁵⁰	Magnus Enell International Institute for Industrial Environmental Economics (IIIEE), Lund University, Sweden	<i>Business and the Millennium Development Goals - Water, Corporate Social Responsibility and the Future</i> Key note lecture
9⁵⁵ – 10¹⁵	Carmen Teodosiu Gheorghe Asachi Technical University of Iasi, Romania	<i>Challenges for Integrated Water Resources Management in Romania</i> Key note lecture
10²⁰ – 10⁴⁰	Ilie Vlaicu AQUATIM WaterWorks Timisoara, Romania	<i>Practical Application and Evaluation of New Technologies in Drinking Water Treatment</i> Key note lecture
10⁴⁵ – 11⁰⁵	Tatiana Yuzhakova, Ákos Rédey , Caldararu Monica, Scurtu Mariana, Munteanu Cornel, Kovács József	<i>Electrical Properties Of SnO₂-Pt/Al₂O₃ In Reduction Atmosphere</i> Key note lecture
11¹⁰ – 12⁰⁰	Coffee break	

Parallel Session 3

Water Supply and Wastewater Treatment

CH II Room,

Faculty of Chemical Engineering and Environmental Protection

Chairperson: Prof.dr.eng. Maria Gavrilescu

12⁰⁰ – 12¹⁰	Mihaela Mihai, Gabriel Dabija, Cristina Costache	Polyelectrolyte – Surfactant Complexes Used in the Coagulation Flocculation Processes
12¹⁰ – 12²⁰	Marcela Mihai, Luminita Ghimici, Ecaterina Stela Dragan	Application of Polycations in Separation Processes
12²⁰ – 12³⁰	Katalin Bodor , Adina Păcală, I. Vlaicu, Dalila Marșavina, Mihaela Anghel, Alina Anghelina	Pilot Plant Treatment of Water for Drinking Purpose by PAC
12³⁰ – 12⁴⁰	Florica MANEA, Ciprian Radovan, Aniela Pop , Georgeta Burtica, Ilie Vlaicu, Marcel Morariu, Joop Schoonman	Simultaneous Voltametric Detection of Organics from Wastewater on a Copper Oxide- Copper Electrode
12⁴⁰ – 12⁵⁰	Dan Gavrilescu, Adrian Puițel	Zero Discharge: Technological Progress Towards Eliminating Pulp Mill Liquid Effluent
12⁵⁰ – 13⁰⁰	Cezar Catrinescu , Carmen Teodosiu	Wet Hydrogen Peroxide Catalytic Oxidation of Para-Chlorophenol Over Clay Based Catalysts



Parallel Session 4 – Socrates MASS-MOD Project Workshop

CH II Room,
 Faculty of Chemical Engineering and Environmental Protection

Chairperson: Assoc. Prof.dr. Camelia Draghici

13⁰⁰ – 13³⁰

Workshop: Curricula Development for
 Environmental Master of Science Programs

13³⁰ – 15⁰⁰ **Lunch**

Parallel Session 5

Sustainability and Resources Conservation

CH III Room,
 Faculty of Chemical Engineering and Environmental Protection

Chairperson: Prof.dr.eng. Michael Sogård Jørgensen

12 ⁰⁰ – 12 ¹⁰	Lars Hansson	Municipal Pricing of Water Considering that Water Is Both an Economic and a Social Good - A Pricing Reform with Implications for Romania
12 ¹⁰ – 12 ²⁰	Mihaela Mihai, Ioana Lacatusu, Alina Murariu, Aurelia Meghea, Aurelian Stanescu	Quantification of Lead Pollution in Bucharest Area and Potential Risks for Human Health
12 ²⁰ – 12 ³⁰	Marius Pîslaru, Silvia Avasilcăi, Alexandru Trandabăţ	Environmental Sustainability Assurance Based on Fuzzy Model
12 ³⁰ – 12 ⁴⁰	Codrin Donciu, Marinel Temneanu	Sustainable Irrigation Based on Intelligent Optimization of Nutrients Applications
12 ⁴⁰ – 12 ⁵⁰	Ana-Maria Şchiopu , Ion Apostol, Maria Gavrilescu, Monica Hodoreanu	Waste Management and Treatment in Romania and Pollution Prevention Practices
12 ⁵⁰ – 13 ⁰⁰	Carpus Eftalea; Visileanu Emilia; Scarlat Razvan	Ecological Management for Textile Wastes Processing
13 ³⁰ – 15 ⁰⁰	Lunch	

Parallel Session 6. Workshop

CH III Room

Chairperson: Prof.dr.eng. Carmen Teodosiu

15⁰⁰ – 16³⁰ **Workshop of the Siwmanet Project Consortium: Thematic correlations and future project cooperation**

Workshop organized and conducted by Prof.dr.eng. Carmen Teodosiu

16³⁰ – 17⁰⁰ **Coffee Break**

Parallel Session 7

Poster Presentations

15⁰⁰ – 16³⁰

16³⁰ – 17⁰⁰ **Coffee Break**

20⁰⁰

Gala dinner

“Clubul Bursei” Restaurant
 No. 3 Lăpuşneanu Street Iaşi



SEPTEMBER 15, 2007

New Senate Hall (Rectorate Building)

Blvd. D. Mangeron, no. 67, Iasi

10⁰⁰ - 10³⁰ Plenary Closing Ceremony of ICEEM / 04

11⁰⁰ Doctor Honoris Causa Award Ceremony for Prof.dr.eng Ákos Rédey and Prof.dr.eng. Michael Sogård Jørgensen



**4th International Conference Environmental Engineering and Management
Sustainable Use of Natural Resources
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LIST OF POSTERS Session 7

Id. No.	Authors	Title
1.	A. Soceanu, S. Dobrinas, V. Popescu, S. Birghila, V. Magearu	Comparative Study of Some Essential Elements in Different Types of Vegetables and Fruits
2.	Ilie Siminiceanu, Carmen-Ionela Alexandru, Eric Brillas	A Kinetic Model for the Crystal Violet Mineralization in Water by the Electro-Fenton Process
3.	Archambault, Steven Ulibarri, Joseph ¹	Nonmarket Valuation of Acequias: Stakeholder Analysis
4.	Beatrice Iurascu, Ilie Siminiceanu, Miguel Vicente	Phenol Degradation in Water Through a Heterogeneous Photo-Fenton Process
5.	Liliana Lazar, Heinz Köser, Ion Balasanian, Florin Bandrabur	Study of the Non-Catalytic and Catalytic Oxidative Destruction of VOC's
6.	Liliana Lazăr, Ion Balasanian, Florin Bandrabur	Environmental Pollution with VOC's and Possibilities for Emission Treatment
7.	Mihaela Mihai , Gabriel Dabija , Cristina Costache	Polyelectrolyte – Surfactant Complexes
8.	Maria - Magdalena Bobu, Ilie Siminiceanu, Elsa Lundanes	Mineralization of Two Phenyl Urea Herbicides in Water by a Heterogeneous Photo-Fenton Process
9.	Mioara Surpățeanu, Carmen Zaharia, Georgiana G. Surpățeanu	Microwave-Assisted Chemistry. A Review of Environmental Applications
10.	Corina ORHA ¹ , Florica MANEA ¹ , Cornelia RATIU ² , Georgeta BURTICA ^{1*} , Aurel IOVI ¹	Obtaining and Characterization of Romanian Zeolite Supporting Silver Ions
11.	Ilie Siminiceanu , Ramona- Elena Tataru- Farmus, Chakib Bouallou	Kinetics of Carbon Dioxide Absorption Into Aqueous Solutions of 1, 5, 8, 12-Tetraazadodecane (Apeda)
12.	Lucian V. Pavel, Panagiotis Misaelides, Dimitrios Zabolis, Igor Cretescu, Maria Gavrilescu	Cr(VI) Removal from Aqueous Solutions by an Epichlorohydrin / Polyethylene-Imine Resin
13.	Anca-Marcela LUPASTEANU ¹ , Anca-Irina GALACTION ² , Marius TURNEA ² , Dan CASCAVAL ¹	Studies on Mixing Distribution in Bioreactors with Mobile Bed of Biocatalysts Used for Wastewater Biological Treatment
14.	Alexandru Ozunu	The APELL Technical Platform - General Presentation, Experience, Case Studies



**4th International Conference Environmental Engineering and Management
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4th International Conference Environmental Engineering and Management
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4th International Conference Environmental Engineering and Management
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