

**5<sup>th</sup> INTERNATIONAL CONFERENCE  
ENVIRONMENTAL ENGINEERING  
AND MANAGEMENT**

*Sustainable production and  
consumption*

**CONFERENCE PROGRAM**

**September 15 – 19, 2009,  
Tulcea, Danube Delta, ROMANIA**



5<sup>th</sup> International Conference on Environmental Engineering  
and Management, September 15 – 19 2009,  
Tulcea, Danube Delta, Romania

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## ORGANIZERS

“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAȘI  
FACULTY OF CHEMICAL ENGINEERING AND  
ENVIRONMENTAL PROTECTION,  
DEPARTMENT OF ENVIRONMENTAL ENGINEERING AND  
MANAGEMENT, **ROMANIA**

PANNON UNIVERSITY OF VESZPRÉM, **HUNGARY**

With the support of:

*Academy of Romanian Scientists, Romania*

*Danube Delta Biosphere Reservation Authority, Romania*

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

*Intermediu Department, “Gheorghe Asachi” Technical University of  
Iasi, Romania*

*Event financially supported by National Authority for Scientific  
Research (ANCS), Romania*



5<sup>th</sup> International Conference on Environmental Engineering  
and Management, September 15 – 19 2009,  
Tulcea, Danube Delta, Romania

### Conference Chairpersons

<b>Prof.dr.eng. Matei Macoveanu</b> <i>Technical University of Iasi, Romania</i>	<b>Prof.dr.eng. Carmen Teodosiu</b> <i>Technical University of Iasi, Romania</i>
<b>Prof.dr.eng. Akos Redey</b> <i>University of Veszprém, Hungary</i>	<b>Assoc.Prof.dr.eng. Igor Cretescu</b> <i>Technical University of Iasi, Romania</i>

### International Scientific Committee

<b>Prof.dr.eng Maria Gavrilescu</b> <i>Technical University of Iasi, Romania</i>	<b>Prof.dr.eng. Dan Cascaval</b> <i>Technical University of Iasi, Romania</i>
<b>Prof. dr. eng., dr.h.c. Thomas Lindhqvist</b> <i>IIIEE, Lund University, Sweden</i>	<b>Prof. dr., dr.h.c. Yusuf Chisti</b> <i>Massey University, New Zealand</i>
<b>Prof. dr., dr.h.c. Gheorghe Duca</b> <i>State University Chisinau, Moldova</i>	<b>Prof. dr.ir., dr.h.c. Jurek Duszcyk</b> <i>Delft University of Technology, The Netherlands</i>
<b>Prof. dr.eng. Emil Dumitriu</b> <i>Technical University, Iasi, Romania</i>	<b>Prof. dr.eng., dr. h.c. Peter A. Wilderer</b> <i>Technical University of Munchen, Germany</i>
<b>Prof. dr. Anne Giroir</b> <i>Claude Bernard University Lyon 1, France</i>	<b>Prof.dr.ing Ilie Siminiceanu</b> <i>Technical University of Iasi Romania</i>
<b>Prof. dr.eng., dr.h.c. Michael S. Jorgensen</b> <i>Technical University of Denmark</i>	<b>Assoc.Prof. dr. Eugenio Campos Ferreira</b> <i>University of Minho, Portugal</i>
<b>Prof.dr.eng. Scott Weber</b> <i>State University of New York at Buffalo, USA</i>	<b>Prof. dr.eng. Valentin I. Popa</b> <i>Technical University, Iasi, Romania</i>
<b>Prof.dr. Angheluta Vadineanu</b> <i>Bucharest Univesity, Romania</i>	<b>Prof. dr. Philip Nyden</b> <i>Loyola University of Chicago, USA</i>
<b>Prof.dr.eng. Ioan Vida Simiti</b> <i>Technical University of Cluj Napoca, Romania</i>	<b>Prof.dr.eng. Anca Duta</b> <i>Transilvania University of Brasov, Romania</i>
<b>Prof.dr.Ahmet Aktas</b> <i>Akdeniz University, Antalya, Turcia</i>	<b>Prof.dr.eng. Virgil Petrescu</b> <i>Technical University of Civil Engineering of Bucharest, Romania</i>



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**Prof.dr. Maria Madalena dos Santos  
Alves**  
*University of Minho, Portugal*

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**Prof.dr.,dr.h.c. Anton Friedl**  
*Technical University Vienna, Austria*

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**Dr.eng. Grigore Baboianu**  
*Danube Delta Biosphere Reserve  
Authority, Romania*

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**Dr.biol. Nicolae Papadopol**  
*Museum Complex of Natural Sciences,  
Constanta, Romania*

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**Dr. eng. Simion Nicolaev**  
*National Institute for Marine Research and Development, Constanta, Romania*

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### Conference Secretariat

Dr.eng. Brindusa Robu	Dr.eng. Florentina Caliman
Eng. Adela Buburuzan	Eng.George Barjoveanu
Biol. Camelia Smaranda	Geogr. Camelia Ciubota-Rosie
Eng. Lucian Pavel	Eng. Roxana Apreutesei
Eng. Daniela Cailean	Eng. Daniela Arsene
Eng. Claudia Cojocariu	Dr.eng. Catalin Balan



## CONFERENCE PROGRAM

<b>Tuesday, September 15, 2009</b>		
14 <sup>00</sup> - 16 <sup>00</sup>	Registration	Delta Hotel, Tulcea
16 <sup>00</sup> - 17 <sup>00</sup>	Opening Ceremony	Delta Hotel, Tulcea
17 <sup>00</sup> - 18 <sup>00</sup>	Keynote lectures	Delta Hotel, Tulcea
18.30	Visit to Romanian winery (optional)	Tulcea
20 <sup>00</sup>	Cocktail	Delta Hotel, Tulcea
<b>Wednesday, September 16, 2009</b>		
9 <sup>00</sup> – 10 <sup>30</sup>	Plenary lectures <i>Session 1</i>	Conference room A, Delta Hotel, Tulcea
10 <sup>30</sup> - 10 <sup>45</sup>	Coffee break	Delta Hotel, Tulcea
10 <sup>45</sup> - 12 <sup>45</sup>	Plenary lectures <i>Session 2</i>	Conference room A, Delta Hotel, Tulcea
13 <sup>00</sup> - 14 <sup>30</sup>	Lunch	Delta Hotel, Tulcea
14 <sup>30</sup> - 16 <sup>00</sup>	<b>Work shop - <i>Challenges for sustainability in environmental research and education</i></b>	Conference room A, Delta Hotel, Tulcea
	<b>Parallel Poster Session I</b>	Conference room B Delta Hotel Tulcea
16 <sup>00</sup> – 16 <sup>15</sup>	Coffee Break	Delta Hotel, Tulcea
16 <sup>15</sup> - 18 <sup>00</sup>	<b>SORT IT - Round table</b>	Conference room A, Delta Hotel, Tulcea
	<b>Parallel Poster Session I</b>	Conference room B Delta Hotel Tulcea
19 <sup>00</sup>	Gala dinner	Delta Hotel, Tulcea




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### Thursday, September 17, 2009

9 <sup>00</sup> – 10 <sup>50</sup>	<b>Oral communications</b>	Conference room A Conference room B Delta Hotel, Tulcea
11 <sup>00</sup> - 13 <sup>00</sup>	<b>Case Study of Natural Sciences in Danube Delta</b>	Museum of Danube Delta, Tulcea
13 <sup>00</sup>	Lunch	Delta Hotel, Tulcea
13 <sup>45</sup>	<b>Departure to Crisan conference location</b>	Danube Delta Conference tour
15 <sup>00</sup> -17 <sup>00</sup>	<b>Poster session II</b>	Delta 1 Ship
17 <sup>00</sup> -17 <sup>30</sup>	Coffee Break	Delta 1 Ship
20 <sup>00</sup>	<b>Arrival in Crisan conference location</b>	Sunrise Hotel, Crisan
21 <sup>00</sup>	Dinner	Sunrise Hotel, Crisan

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### Friday, September 18, 2009

10 <sup>30</sup>	<b>Departure to Sulina conference location</b>	Danube Delta Conference tour
11 <sup>00</sup> -13 <sup>00</sup>	<b>Poster Session III</b>	Delta 1 Ship
13 <sup>00</sup> -14 <sup>30</sup>	Lunch	Delta 1 Ship
15 <sup>00</sup> -17 <sup>00</sup>	<b>Poster session IV</b>	Delta 1 Ship
17 <sup>00</sup> -17 <sup>30</sup>	Coffee Break	Delta 1 Ship
18 <sup>30</sup>	<b>Arrival to Sulina conference location</b>	Hostels
19 <sup>30</sup> -20 <sup>30</sup>	Welcome from the Mayor of Sulina city  Historical presentation of Sulina's evolution – NGO – Friends of Danube Delta	“Marea Neagra” conference location
20 <sup>30</sup>	Dinner	Marea Neagra

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### Saturday, September 19, 2009

9 <sup>00</sup> -11 <sup>00</sup>	<b>Closing ceremony</b>	“Marea Neagra”
11 <sup>00</sup>	<b>Excursion to confluence of Danube River with Black Sea</b>	
14 <sup>00</sup>	<b>Departure to Tulcea</b>	Delta 1 Ship
18 <sup>00</sup>	<b>Arrival to Tulcea</b>	Delta Hotel
18 <sup>15</sup>	<b>Departure to Bucharest</b>	

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## DETAILED CONFERENCE PROGRAM

**Tuesday, September 15, 2009**

<b>14<sup>00</sup>- 16<sup>00</sup></b>	<b>Registration</b>	<b>Delta Hotel, Tulcea - Romania</b>
<b>16<sup>00</sup>-17<sup>00</sup></b>	<b>Opening Ceremony</b>	<b>Conference Room I</b>
	<b>Welcome Address:</b> <b>Prof. dr. eng. Matei Macoveanu</b>	Head of the Department of Environmental Engineering and Management, Iasi Romania
	<b>Prof. dr. eng. Carmen Teodosiu</b>	Vice-Rector of the "Gheorghe Asachi" Technical University, Iasi Romania
	<b>Dr. eng. Grigore Baboianu</b>	Danube Delta Biosphere Reserve Authority, Romania
	<b>Dr. eng. Simion Nicolaev</b>	National Institute for Marine Research and Development, Constanta, Romania
<b>17<sup>00</sup> – 17<sup>30</sup></b>	<i>An Integrated Approach for Environmental Education and Research at the Technical University of Iasi, Romania</i>	<b>Carmen Teodosiu, Matei Macoveanu, Ion Giurma</b> <i>"Gheorghe Asachi" Technical University of Iasi, Romania</i>
<b>17<sup>00</sup> – 17<sup>30</sup></b>	<i>Green technologies and sustainable development</i>	<b>Akos Redey</b> <i>Veszprem University of Pannon, Hungary</i>
<b>18.30</b>	<b>Visit to Romanian winery (optional)</b>	<b>Tulcea, Romania</b>
<b>20<sup>00</sup></b>	<b>Cocktail</b>	<b>Delta Hotel, Tulcea - Romania</b>



## Wednesday, September 16, 2009

### Plenary lectures: Session I

Conference Room I,  
Delta Hotel

#### Chairpersons:

**Prof. dr. Carmen Teodosiu**

**Prof. dr. Akos Redey**

9 <sup>00</sup> – 9 <sup>30</sup>	<i>Biomass for Renewable Energy, Fuels and Chemicals</i>	<b>Anton Friedl</b> Technical University of Vein, Austria
9 <sup>30</sup> - 10 <sup>00</sup>	<i>Biotechnology In Water And Energy Saving Processes</i>	<b>Madalena Alves</b> University of Minho, Portugal
10 <sup>00</sup> -10 <sup>30</sup>	Biodiesel From Microalgae	<b>Yusuf Chisti</b> Massey University, New Zealand
10 <sup>30</sup> - 10 <sup>45</sup>	<b>Coffee break</b>	Delta Hotel, Tulcea

### Plenary lectures: Session II

Conference Room I,  
Delta Hotel

#### Chairpersons:

**Prof. dr. Maria Gavrilescu**

**Prof. dr. Thomas Lindqvist**

10 <sup>45</sup> -11 <sup>15</sup>	<i>Alternatives to diffuse pollution control at landscape scale</i>	Angheluta Vadineanu, <b>Carmen Postolache</b> Polytechnic University of Bucharest, Romania
11 <sup>15</sup> -11 <sup>45</sup>	<i>Fly Ash- Based Substrates for Advanced Wastewater Treatment</i>	<b>Anca Duta</b> Transilvania University of Brasov, Romania
11 <sup>45</sup> -12 <sup>15</sup>	<i>The Economic Recession – Opportunity For Metissage Based Sustainable Innovation</i>	<b>Johannes C. Brezet</b> Delft University of Technology, The Netherlands
12 <sup>15</sup> -12 <sup>45</sup>	<i>Laser Mass Spectrometry Analysis Of Soot Particles Adsorbed Phase: From Laboratory Experiments To Field Campaigns</i>	<b>Focsa Cristian,</b> University of Lille, France
13 <sup>00</sup> -14 <sup>30</sup>	<b>Lunch</b>	Delta Hotel, Tulcea





14 <sup>30</sup> - 16 <sup>00</sup>	<i>Challenges for sustainability in environmental research and education – Workshop</i>	<b>Conference Room I, Delta Hotel</b>
	<b>Chairpersons:</b> <b>Prof. dr. Carmen Teodosiu</b> <b>Prof. dr. Matei Macoveanu</b>	
16 <sup>00</sup> - 16 <sup>15</sup>	<b>Coffee Break</b>	Delta Hotel, Tulcea
	<b>SORT IT - Round table</b>	<b>Conference Room I, Delta Hotel</b>
	<b>Chairpersons:</b> <b>Prof. dr. Elena Bobu</b> <b>Prof. dr. Dan Gavrilescu</b>	
16 <sup>15</sup> - 16 <sup>30</sup>	<i>Recovered Paper Sorting With Innovative Recovered Paper Sorting With Innovative Technologies – Sort It</i>	Jean-Yves Escabasse
16 <sup>30</sup> - 16 <sup>45</sup>	<i>EU Legislation Impacting Paper Recyclng</i>	Jori Ringman
16 <sup>45</sup> - 17 <sup>00</sup>	<i>Overview On Paper And Board Recycling In Europe</i>	Elena Bobu, Dan Gavrilescu
17 <sup>00</sup> - 17 <sup>15</sup>	<i>Assesing Sustainability Of Recovered Paper Sorting: Goal Definition And Scoping</i>	Elena Bobu, Florin Ciolacu, Alina Iosip
17 <sup>15</sup> - 17 <sup>30</sup>	<i>Assessing Environmental Impact Of Paper Recycling</i>	Tatjana Karpenja, Cathrine Löfgren
17 <sup>30</sup> - 17 <sup>45</sup>	<i>Assessing Economical And Social Impact Of Paper Recycling</i>	B. Ferreira Pozo, A. Dobón López, C. López López
17 <sup>45</sup> - 18 <sup>00</sup>	<i>Discussion</i>	
19 <sup>00</sup>	<b>Gala dinner</b>	<b>Delta Hotel, Tulcea</b>



## List of posters

14 <sup>30</sup> -18 <sup>00</sup>	Parallel Poster Session I	Conference Room B Delta Hotel, Tulcea
<b>Section: Pollution and Monitoring</b>		
	Comparative Study Of Some Heavy Metals Dynamics (Pb, Cd) Into Soil Planted With Vegetables	V. Stoleru, N. Munteanu, D. Bulgariu
	Emerging processes for soil and groundwater cleanup - potential benefits and risks	M. Gavrilesco
	Remanant Effects Of Polymeric Materials Used To Soils Conditioning From Glass Houses	D. Bulgariu, L. Bulgariu, C. Rusu, F. Filipov
	Agricultural Soil Mapping	V. M. Muraru, C. Muraru- lonel, I. Pirnă, I. Tenu
	The carbohydrates synthesis in calendula officinalis L. Leaves influenced by some mutagene substances	Constantin Leonte, Roxana Vatavu, Teodor Robu, Irina Volf
	Speciation And Distribution Of Microelements (Zn, Cu, Co, Cr, Mn) In Soil From Glass Houses	D. Bulgariu, L. Bulgariu, N. Buzgar
	Impact Reduction Of Mechanization Technologies On Soil Structure	I. Țenu, G. Jițareanu, C. Muraru-lonel, P. Cojocariu
	Anthropogenic Influences On Some Components Of The Environment In Bicaz - Hășmaș National Park, Eastern Carpathians – Romania	Mihai Brânzilă, Constantin Rusu, Dumitru Bulgariu, Sorin Baci, Crina Miclăuș
	Physiological Changes In Seedling Germination And Growth Plant Under Chemical Stress Conditions	Alina Stingu, Irina Volf, Valentin I. Popa
	Researches On The Improvement Of The Fertilizations With Nitrogen And Phosphorous Related To Soil Protection And Their Influence On Quality Proprieties At The Winter Wheat	Mihai Axinte, Costel Moglan, Teodor Robu, Marius Zaharia
	Evaluation Of Petroleum Contaminants In Soil By Fluorescence Spectroscopy	L. Cristescu, G. Pavelescu, E.M. Carstea, D. Savastru
	Effects Remanant Of Cultivation Technology Of The Vine On Terrace Soil - Case Study: Vine Terraces Roșcani Iași, Romania	Feodor Filipov, Dumitru Bulgariu, Adrian Asănica
	Study Of Copper And Cadmium Accumulation By Bean For Phytoremediation Applications	Alina Stingu, Irina Volf, Valentin I. Popa
	A New Real-Time Monitoring Technique Of The Biochemical Constituents Of The Environment	P. Zamora Iordache, N. Petrea, V. Șomoghi, I. Savu, M. Mureșan, R. Petre, L. Rece, R. Lungu, A. Pretorian, G. Mitru, B. Dionezie, L. Mutihac



Device For Rapid Preparation Of Samples In Order To Identify The Toxic Compounds	N. Petrea, P. Zamora Iordache, V. Șomoghi, G. Epure
Mobile (And / Or) Portable Laboratory Used To Determine And Survey The Electromagnetic Pollution Of The Environment	Liviu Coșoreanu, Nicolae Năcioiu, Petre Voicu
Monitoring Of Environmental Low Frequency Magnetic Fields	Valeriu David, Ionut Nica, Liviu Breniuc
Complex System For Climatic Changes Surveillance Based On The Thermo-Graphic Methods Of A Certain Area (Modernized Terargus)	Liviu Coșoreanu, Nicolae Năcioiu, Petre Voicu
Traffic- Related Air Pollution In The Municipality Of Craiova, Dolj County	Dorin Petrișor, Lucrețiu Radu, Cătălin Adrian Petrișor
Contribution To The Study Of The Environmental Heritage Of A Former Chemical Plant	Florin Dumescu, Ladislau Klein, Aurica Grec
The Oil Composition Of The Seeds Of Certain Cucurbitaceae For Sustainable Use Of Their Natural Properties For Industry	Natalia Bordei, Andreea Cozea, Liliana Cruceanu, Gabriel Ivopol
Halotherapy: From Ethnoscience To Modern Science	Ion Sandu, Marius Alexianu, Roxana-Gabriela Curcă, Olivier Weller, Constantin Pascu
<b>Section: Modeling, Simulation and Optimization</b>	
Modeling And Simulation Of An Ultrafiltration Process For The Removal Of Suspended Solids And Colloids From Synthetic Wastewaters	George Barjoveanu, Carmen Teodosiu
Ethanol From Lignocellulosic Biomass – Optimization By Process Simulation	Philipp Kravanja, P. Bösch, Anton Friedl
The Investments Alternatives Analysis For Sustainable Agriculture	Camelia Burja
Clean Energy From Waste Incineration In Dolj County	Maria Brojboiu, S.M. Digă, Ivanov Virginia, Radu Ghinea, Alina Chirea
Numeric Simulation Of Air Pollution Due To Naval Engines	Nicolae Buzbuchi, Liviu Constantin Stan
Effects Of Electromagnetic Environment On Human Beings – Modelling And Simulation	Valeriu David, Ionut Nica, Alexandru Salceanu
Considerations On The Secondary Processes For Desulphurization Of The Combustion Gases Derived From Energetic Boilers	Maria Brojboiu, Silvia-Maria Digă, Virginia Ivanov
The Product's Anticipated Success Ratio On The Turbulent Markets:A Genuine Tool For The Agile Enterprises	Ion Verzea, Gabriel-Petru Luca, Irina Cozminca



Modeling And Simulation Of Quality Characteristics Of Surface Waters	Valerian Antohe, Constantin Stanciu
Transfer Inter-Cities Of A Transportation Project Based On Environmental Efficiency	Cătălin Popescu, Tatiana Cucu, Luminita Ion, Augustin Mitu, Daniela Uță
Optimization And Statistical Modeling Of Environmentally Friendly Electroplating Of Nickel	Maria Poroch-Serițan, Sonia Gutt, Gheorghe Gutt, Igor Crețescu, Corneliu Cojocaru, Traian Severin
<b>Section: Water Supply and Wastewater Treatment</b>	
Hydroxyapatite/Polyurethane Composite Membranes For Lead Ions Removal	Gabriela Ciobanu, Dorina Ignat, Gabriela Carja, Gabriela Lehotu, Constantin Luca
Catalytic Wet Hydrogen Peroxide Oxidation Of 4-Chlorophenol Over Iron-Exchanged Clays	Daniela Arsene, Cezar Catrinescu, Adrian Ungureanu, Carmen Teodosiu
Porous Matrices Of Anionic Clays For The Efficient Removal Of Heavy Metals From Water	Gabriela Carja, Sofronia Dranca, Gabriela Ciobanu, Maurice Onyango, Simona Nichitus, Ion Balasanian
Removal Of 4-Chlorophenol By Surfactant Modified Zeolites And Surfactant Modified Alkali-Treated Natural Zeolites	Roxana Elena Apreutesei, Cezar Catrinescu, Adrian Ungureanu, Carmen Teodosiu
Autocatalytic Reduction Of Cr(VI) On Platinum Electrode In Acid Solution	Gabriela Badea
Nitrogen Adsorption Of Shale For Use As Media In Constructed Wetland	Amara Daothaisong, Jareeya Yimrattanabovorn
Using Of Homogenous Oxidation With Hydrogene Peroxide For Textile Wastewater Treatment	Carmen Zaharia, Daniela Suteu, Augustin Muresan, Rodica Muresan, Alina Popescu
Arsenate Removal By Micro-Particles Of Dried Plant In Batch Reactor	M. Chiban, G. Lehotu, F. Sinan, G. Carja
Using Of Industrial Waste Materials For Textile Wastewater Treatment	Daniela Suteu, Carmen Zaharia, Augustin Muresan, Rodica Muresan, Alina Popescu
Fuel Oxygenates In Drinking Water Sources: Analysis, Occurrence And Treatment	Ilie Siminiceanu, Constantin Burciu, Maria Bobu



Adsorption Of Humic Acids And Of Some Metal Ions From Aqueous Solutions On Activated Carbons	T. Lupascu, M. Ciobanu
Ballast Water Treating By Advanced Oxidation Technology	Nicolae Buzbuchi, Liviu Constantin Stan, Feiza Memet
New Complexes Used To Increase The Dying Process Efficiency Of The Textile Materials In The Context Of Sustainable Development And Their Importance As Nanocomposites Used In Electronics	Doina Sibiescu, Laura Chirila, Ioan Rosca, Romen Butnaru, Mihaela Vizitiu , Gabriela Carja
<b>Section: Air Pollution</b>	
Particulate Matter Emission In A University Area	Monica Filice, Pierantonio De Luca, Giuseppe Piero Guido
Kinetics Modelling Of The Oxidation Of Aromatic VOCs On V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> Commercial Catalyst	Liliana Lazăr, Heinz Köser, Ion Balasanian
Diesel Particulate Matter: The Role Of Fuel	Monica Filice, Pierantonio De Luca
Carbon Dioxide Capture By Absorption Into New Solvents	Ilie Siminiceanu, Oana Irimia, Ramona Tataru-Farmus
Distribution Of Formaldehyde Emission In Particle Boards	Valeriu Petrovici
Reducing Of Pollutants Emissions And Heavy Liquid Fuels Consumption In Boilers By Using Of Additives	Aurel Gaba, Stefania Iordache, Mircea Vladescu, Dan Ungureanu, Petrica Vizureanu
Heterogeneous Reactions Of Chlorine Reactive Species With Model Aerosol Particles In The Marine Boundary Layer	Raluca Ciuraru, Sylvie Gosselin, Nicolas Visez, Denis Petitprez
Abiotic And Biotic Mitigation Of Volatile Methyl Siloxanes In Anaerobic Gas-Phase Biomatrices	Gabriela Soreanu, Patricia Falletta, Michel Béland, Kara Edmonson, Peter Seto
<b>Section: Solid Waste Management</b>	
Driving Forces And Barriers For Sustainable Use Of Recovered Paper In Papermaking	Dan Gavrillescu, Elena Bobu
Wastes Used In Obtaining Polymer Composite	Marinela Bărbuță, Nicolae Taranu, Maria Harja
Valorization Of The Forms Of Fine Ceramic Molding By Plaster Production	Liliana Lazar, Ion Balasanian
Research Regarding The Development Of A New Technology To Obtain Ecological Steels	Olimpia Ghermec, Cristian Ghermec, Traian Popescu



Regarding The Recycling Of The Auto-Vehicles Products	Petrica Corabieru, Ștefan Velicu, Dumitru Zait, Anisoara Corabieru, Dan Dragos Vasilescu
Leaching Of Copper From Cement-Based Waste Materials	Constantin Bobirică, Liliana Bobirică, Rodica Stănescu
The Treatment And Minimization Of Metallurgical Slag As Waste	Maria Cioroi , Licuta Nistor Cristea, Igor Cretescu
<b>Section: Impact, Risk and Life Cycle Assessment</b>	
The Life And Working Conditions On The Marine Oil Platforms	Hilda Herman, Greta Nita, Nuti Deliu, Rodica Calot
The Submarine Environment And The Human Organism In Simulated Diving And Real Diving Into The Sea	Hilda Herman, Constantin Ovidiu Pastuch
Environmental impacts generated from rubber processing activity	Aurica Grec, Florin Dumescu, Corneliu Maior
Interactions Within The High Complexity System "Bridge-Obstacle-Road" With References To The Traversed Obstacle	Constantin Ionescu, Rodian Scînteie
The impact of some chemicals on the derivatives with important therapeutic activity in the calendula officinalis L. Flores	Teodor Robu, Roxana Vatavu, Constantin Leonte, Brindusa Robu
Developing Impact Of Iași City On The Slope Stability – Landslides From Iași City, Romania	Corneliu Horaicu, Odeh Nael Moh'd Kamel, Constantin Catalin Calu
<b>Section: Environmental integrated management and policy making</b>	
Risk Assessment As Part Of Health And Safety Management At Enterprises	Marina Järvis, Piia Tint
Assessment Of Water Quality In The Prut River Basin, Romania	Carmen Teodosiu, Claudia Cojocariu, Corina Petronela Musteret, Ioana Gabriela Dascalescu, Ionut Caraene
Economic And Environmental Sustainability Of Project Effects	Luminița Horhotă
Institutional Capacities Assessment For Cooperation On The Prut River Basin Management, Romania	Claudia Cojocariu, Luminita Lupu, Carmen Teodosiu, Simona Andreea Ene, Corina Petronela Musteret
Water Footprint And Its Application To Integrated Water Resources Management	Simona-Andreea Ene, Carmen Teodosiu



Alignment Of The Manufacture Technologies Of Metallic Component Parts For Auto-Vehicles To The Environment European Directives	Ștefan Velicu, Petrica Corabieru, Dumitru Zait, Anisoara Corabieru, Dan Dragos Vasilescu
Social enquiry assessment of innovative equipment for water disinfection	Daniela Suteu, Irina Volf, Carmen Cătălina Ioan, Carmen Teodosiu
The Innovative Solutions Creates Environmental Advantages	Florin Negoescu , Eugen Axinte, Gheorghe Nagit, Adrian Iosub
Public Management And Local Policy Regarding City Environment	Augustin Mitu, Cătălin Popescu, Daniela Uță
Assessment Of Water Supply And Wastewater Infrastructure In The North - East Region Of Romania	Camelia Ardeleanu, Ionut Caraene, Carmen Teodosiu
Link Between Environmental And Economic Efficiency	Horhotă Luminița
<b>Section: Environmental Friendly Materials</b>	
Utilization of coal fly ash from power plants III. Geopolymer characterization	Maria Harja, Lăcrămioara Rusu, Marinela Bărbuță, Maria Gavrilescu
Research Regarding The Possibility To Recycle Waste Of Alloyed Steel Resulted From The Finishing Operations Of Automobile Compounds	Olimpia Ghermec, Cristian Ghermec, Marin Didu
Contributions To The Improvement Of Ambient Comfort In Residential Buildings	Vladimir Corobceanu, Răzvan Giușcă, Raluca Giușcă
Studies Regarding The Potential Of Biodiesel Production In The North-East Development Region Of Romania	Teodor Robu, Alexandru Dragos Robu, Aurel Chiran, Elena Gindu
Plasma Chemistry And The Environment	Marian I. Totolin, Ghiocel E. Ioanid, Iordana Neamtu
Researches On The Negative Effects Assessment (Slugging, Clogging, Ash Deposits) Developed At The Biomass-Coal Co-Firing	Corina Rădulescu, Tudor Prisecaru, Lucian Mihăescu, Ionel Pîșă, Gheorghe Lăzăroi, Simona Zamfir, Dănuț Văirenu, Elena Popa
The Evaluation Of Corrosive Effects In Co-Firing Process Of Biomass And Coal	Ionel Pîșă, Corina Rădulescu, Lucian Mihăescu, Gheorghe Lăzăroi, Gabriel Negreanu, Simona Zamfir, Dănuț Văirenu



The Buildings' Ambient Comfort Improvement By Using Environmental Friendly Materials And Method	Răzvan Giuşcă, Vladimir Corobceanu, Raluca Giuşcă
Optical Properties Of CeO <sub>2</sub> Nanoparticles Obtained By Green Synthesis Route	Gabriela Apostolescu, Gabriela Carja, Nicolae Apostolescu, Elena Husanu
New Carbonic Adsorbents For Industrial Sorting Purification In Vodka Production	V.M. Mukhin, N.M. Shubina, I.M. Abramova, I.D.Zubova, T.G. Lupascu
<b>Section: Sustainable Tourism</b>	
Governing Sustainable Tourism: The Relevance Of Boundary Judgments	Hans Bressers, Valentina Dinica
Suceava County - A Representative Geological Heritage For Romania	Corneliu Horaicu Anica Horaicu
Alternatives Of Organization And Promotion Of The Sustainable Agro-Tourism In The Area: Oltenia At The Bottom Of The Mountain	Mirela-Elena Mazilu, Felicia-Aurelia Stancioiu
Challenging The Assumptions Behind The Sustainable Behaviour Of Tourists	Adriana Budeanu
Tourism Innovation And Sustainable Development	Adriana Budeanu





**Thursday, September 17, 2009**

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**ORAL COMMUNICATIONS**

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**Parallel Session 1**

**Conference Room A,  
Delta Hotel**

**Chairpersons:**

**Prof. dr. Johannes C. Brezet**  
**Assoc. Prof. dr. Cezar Catrinescu**

**Section: Environmental Friendly Materials**

9 <sup>00</sup> - 9 <sup>10</sup>	Synthesis And Characterization Of Self-Bonded Ets-10 Pellets Containing Iron	<b>Pierantonio De Luca,</b> Monica Filice
9 <sup>10</sup> - 9 <sup>20</sup>	Hungarian Practice Of Biomass Utilization	A. <b>Rédey</b> , T. Yuzhakova, J. Lakó, J. Hancsók, Gy. Marton, A. Utasi

**Section: Modeling, Simulation and Optimization**

9 <sup>20</sup> - 9 <sup>30</sup>	Evaluation Of Ecological And Economical Bio-Ethanol Production	Anton <b>Friedl</b>
9 <sup>30</sup> - 9 <sup>40</sup>	The Advertising Efficiency Ratio:A Marketing Aggregate Indicator Modeling For A Noisy And Turbulent Market	Gabriel-Petru <b>Luca</b> , Ion Verzea

**Section: Environmental integrated management and policy making**

9 <sup>40</sup> - 9 <sup>50</sup>	Time For Environmentalists To Think About Distributed Economies	Thomas <b>Lindhqvist</b>
9 <sup>50</sup> - 10 <sup>00</sup>	The Management Of The "Bridge Zone" In Correlation With Specific Natural And Artificial Phenomena	Constantin <b>Ionescu</b> , Rodian <b>Scînteie</b>
10 <sup>00</sup> -10 <sup>10</sup>	Towards A Sustainable And Climate Proof Delta Of The South West Netherlands	Tjeerd S. <b>Blauw</b> , Leo A. Adriaanse

**Section: Impact, Risk and Life Cycle Assessment**

10 <sup>10</sup> -10 <sup>20</sup>	Methods For Evaluating Packaging Sustainability	M. Hortal <b>Ramos</b> , J.L. Vivancos Bono, S. Aucejo Romero
10 <sup>20</sup> -10 <sup>30</sup>	Behaviour Of Persistent Pollutants And Risks Associated With Their Presence In The Environment	Maria <b>Gavrilescu</b>

**Section: Sustainable Tourism**

10 <sup>30</sup> -10 <sup>40</sup>	Private And Social Values Of The Lower Danube Wetlands	Lars <b>Hansson</b>
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**Section: Solid Waste Management**

10 <sup>40</sup> -10 <sup>50</sup>	Impact Of Landfill Leachate On Soil Quality In Iasi City	Ana-Maria <b>Schiopu</b> , Brindusa Mihaela Robu, Ion Apostol, Maria Gavrilescu
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**Parallel Session 2**

**Conference Room C,  
Research Institute**

**Chairpersons:**

**Prof. dr. Yusuf Chisti**

**Assoc. Prof. dr. Igor Cretescu**

**Section: Water Supply and Wastewater Treatment**

9 <sup>00</sup> - 9 <sup>10</sup>	Restructuring Of Water And Wastewater Management In Romania: From Local To Regional Water Governance	Joanne Vinke-de <b>Kruijf</b> , Valentina Dinica
9 <sup>10</sup> - 9 <sup>20</sup>	Studies Regarding Advanced Processes Used For Reactive Dyes Removal From Textile Effluents	Daniela <b>Cailean</b> , Carmen Teodosiu, Nicolae Sulitanu
9 <sup>20</sup> - 9 <sup>30</sup>	Removal Of Phosphate From Water By Natural And Modified Kaolinite	Susmita Sen <b>Gupta</b> , Krishna G Bhattacharyya
9 <sup>30</sup> - 9 <sup>40</sup>	Application Of Several Aluminium Prehydrolysed Coagulants To A Surface Water Treatment For Potable Use	A. <b>Păcală</b> , I. Vlaicu, C. Radovan
9 <sup>40</sup> - 9 <sup>50</sup>	The Purification Of Residual Waters Using Natural Ion Exchangers	Tiberiu <b>Rusu</b> , Radu Munteanu, Andrei Rusu

**Section: Air Pollution**

9 <sup>50</sup> - 10 <sup>00</sup>	PM10 Trend Near A Cement Plant: Comparison Between Gaussian Model And Experimental Data	Monica Filice, Pierantonio De <b>Luca</b>
10 <sup>00</sup> - 10 <sup>10</sup>	SnO <sub>2</sub> -CeO <sub>2</sub> Oxidation Catalysts	T. <b>Yuzhakova</b> , A. Rédey, M. Caldararu, J. Kovács, G. Postole, C. Hornoiu, A.Vasile, E. Domokos
10 <sup>10</sup> - 10 <sup>20</sup>	Air Pollution Reduction By Using Of Low Nox Burners For Furnaces And Boilers	Aurel <b>Gaba</b>
10 <sup>20</sup> - 10 <sup>30</sup>	New Cu-Based Mixed Oxides Obtained From LDH Precursors, Catalysts For Methane Total Oxidation	Sergei <b>Tănăsoi</b> , Nathalie Tanchoux, Adriana Urdă, Ákos Rédey, Ioan <b>Săndulescu</b> , François Fajula, Ioan-Cezar <b>Marcu</b>



**Section: Pollution and Monitoring**

10 <sup>30</sup> -10 <sup>40</sup>	Trace Element Accumulation In Water, Plant And Fish Of An Urban Wetland	Nibedita Kapil, Krishna G <b>Bhattacharyya</b>
10 <sup>40</sup> -10 <sup>50</sup>	Fluorescence Assesment Of The Anthropogenic Impact On Water Systems	E.M. <b>Carstea</b> , L. <b>Cristescu</b> , D. Savastru, G. <b>Pavelescu</b>
<b>11<sup>00</sup> -13<sup>00</sup></b>	<b>Case Study of Natural Sciences in Danube Delta</b>	Museum of Danube Delta, Tulcea
<b>13<sup>00</sup></b>	Lunch	Delta Hotel, Tulcea
<b>13<sup>45</sup></b>	Departure to Crisan Conference location	Danube Delta Conference Tour
<b>15<sup>00</sup> -17<sup>00</sup></b>	<b>Poster session II</b>	<b>Delta 1 Ship</b>
	Passive Biomonitoring Of Atmospheric Pollution With Heavy Metals Using Native Epigeic Moss	I. Pata, C. Balan, S.M. Pata, M. Macoveanu
	Studies On Sorption And Transport Processes Of Cadmium In Soils	V. L. Pavel, D. Bulgariu, L. Bulgariu, R. M. Hlihor, M. Gavrilescu
	Analysis Of Factors Determining The Behaviour Of Chromium In Some Romanian Soils	V. L. Pavel, D. Bulgariu, L. Bulgariu, R. M. Hlihor, M. Gavrilescu
	Case Study of Industrial Water Polluted with Chromium (VI) and its Impact to River Recipient in Western Serbia	M. Cvijovic, P. Djurdjevic, S. Cvetkovic, I. Cretescu
	Kinetic Study Of Cobalt (II) Adsorption On Peat Activated By Simple Chemical Treatments	C. Caramalău, L. Bulgariu, M. Macoveanu
	Sphagnum Moss Peat: A Green And Economical Sorbent For Removal Of Heavy Metals (Cd And Cr) From Wastewaters	C. Balan, P. Bulai, D. Bilba, M. Macoveanu
	Studies On The Biosorption Of Terasil Dye By Aspergillus Niger Dead Biomass	I. Cretescu, M. Diaconu, A. Dughila, A. Stefanache, C. Pohontu
	Adsorption Characteristics Of Co (II) Ions From Aqueous Solutions On Romanian Peat Moss	C. Caramalău, L. Bulgariu, M. Macoveanu
	Sorption Behaviour Of Acid Orange 7 From Aqueous Solution On Surface Soil	C. Smaranda, M. Gavrilescu
	Equilibrium And Kinetic Studies Of Copper (II) Removal On Purolite S930 Resin	P. Bulai, C. Balan, C. Scripcariu, M. Macoveanu
	Influence Of Soil Particle Size Onto Sorption Of Tartrazine From Aqueous Solutions	A. F. Caliman, L. C. Apostol, M. Gavrilescu
<b>17<sup>00</sup> -17<sup>30</sup></b>	<b>Coffee Break</b>	<b>Delta 1 Ship</b>
<b>20<sup>00</sup></b>	<b>Arrival in Crisan Conference location</b>	<b>Sunrise Hotel</b>
<b>21<sup>00</sup></b>	<b>Dinner</b>	<b>Sunrise Hotel</b>



## Friday, September 18, 2009

<b>10<sup>30</sup></b>	<b>Departure to Sulina Conference location</b>	Danube Delta Conference tour
<b>11<sup>00</sup>-13<sup>00</sup></b>	<b>Poster Session III</b>	<b>Delta 1 Ship</b>
	Chelating Sorbent Containing Two Types Of Functional Groups – Hydroxamic Acid And Amidoxime For Lead (II) Ions Effluent Management	L. Tofan, C. Paduraru, I. Cretescu, A. Ceica, V. Neagu
	Study Regarding The Sorption Of Erythrosin From Aqueous Solution Onto Soil	A. F. Caliman, L. C. Apostol, M. Gavrilescu
	Equilibrium And Kinetic Studies On Acid Dye Adsorption On Six Different Soils From Iasi Area	C. Smaranda, D. Bulgariu, M. Gavrilescu
	Enhancement Of Separation Performances Of A New Azoic Derivative From Industrial Water And The Possibility To Recover Its Complex As Nanomaterial	D. Sibiescu, M. Tutulea, I. Cretescu, M. Vizitiu, D. Zavastin, I. Rosca
	Sorption Of Malachite Green Dye On A Romanian Natural Zeolitic Volcanic Tuff	D. Furcoi, M. S. Secula, P. Onu, I. Cretescu, M. Cioroi
	Removal Of Dunkel Blau Dye From Aqueous Solutions By Fungal And Peat Biomass In Batch Mode	I. Cretescu, M. Diaconu, C. Cojocaru, R. Benchea, C. Pohontu
	Biosorption Of Malachite Green From Aqueous Solutions Onto Biomaterials	M. Diaconu, I. Cretescu, F. A. Luca, L. R. Manea, C. Pohontu
	Photocatalytic Decolorization Of Malachite Green Dye In TiO <sub>2</sub> Aqueous Suspensions	M. Mitrofan, M. S. Secula, C. Luca, I. Cretescu, M. Dragan
	Integrated Treatment Of Leachat From Municipal Landfill	C. Pohontu, I. Cretescu, M. S. Secula, C. Paduraru, L. Tofan, M. Macoveanu
	Comparative Study Of The Adsorption-Desorption Cycles Of Hexane Over Hypercrosslinked Polymeric Adsorbents And Activated Carbon	A. M. Buburuzan, C. Catrinescu, M. Macoveanu
	Influence Of The Temperature On The Hexane Vapors Adsorption Onto MN 202 And MN 250 Polymeric Adsorbents And Granular Activated Carbon	A. M. Buburuzan, C. Catrinescu, M. Macoveanu
<b>13<sup>00</sup>-14<sup>30</sup></b>	<b>Lunch</b>	<b>Delta 1 Ship</b>
<b>15<sup>00</sup>-17<sup>00</sup></b>	<b>Poster session IV</b>	<b>Delta 1 Ship</b>
	Optimization Of Process Variables To Maximize The Copper Loading Capacity Of Purolite S930 Resin	P. Bulai, C. Balan, C. Cojocaru, M. Macoveanu
	Modeling Of Oils Extraction From White Mustard Seeds ( <i>Sinapis Alba</i> )	C. Ciubota-Rosie, T. M. Sturzu, M. Macoveanu



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Optimizing Of Technological Process Of Oil Extraction From White Seeds Mustard ( <i>Sinapis Alba</i> ) Using Dynamic Programming	C. Ciubota-Rosie, T. M. Sturzu, M. Macoveanu
Environmental Impact And Risk Considerations For Sustainable Winemaking Industry	B. Robu, I. Volf
Bioavailability Processes For Contaminants In Soils And Their Use In Risk Assessment	R. Hlihor, L. Apostol, C. Smaranda, Pavel L., A.. Căliman, B. Robu, M. Gavrilescu
European Frame For Sustainable Agriculture In Romania: Policies And Strategies	B. Robu, C. C. Ioan, E. Robu, M. Macoveanu
Strategic Environmental Assessment For Plans, Programs, Policies In Romania: Multi-Criterial Method	B. Robu, M. Macoveanu
In Vitro Corrosion Study By Electrochemical And Surface Analysis Techniques Of A Ti50Ta Alloy For Dental Applications	D. Mareci, G. Ciurescu, R. Chelariu, I. Cretescu, D. Sutiman
Management Of The Northern-Eastern Region Of Romania Viewed From The Perspective Of Ecotourism Development	F. A. Luca, I. Crețescu
Psychological Considerations Regarding Sustainable Tourism	C. C. Ioan
Ecological Education For A Sustainable Tourism In Romania's North-East Region	C. C. Ioan, B. Robu, M. Macoveanu
<b>18<sup>30</sup> Arrival to Sulina Conference location</b>	<b>Hostels</b>
<b>19<sup>30</sup>-20<sup>30</sup> Welcome from the Mayor of Sulina city</b>	<b>Marea Neagra conference location</b>
<b>Historical presentation of Sulina's evolution – NGO – Friends of Danube Delta</b>	
<b>20<sup>30</sup> Dinner</b>	<b>„Marea Neagra” Restaurant</b>



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## Saturday, September 19, 2009

<b>9<sup>00</sup>-11<sup>00</sup></b>	<b>Closing ceremony</b>	<b>“Marea Neagra” conference location</b>
<b>11<sup>00</sup></b>	<b>Excursion to confluence of Danube River with Black Sea</b>	<b>Delta 1 Ship</b>
<b>14<sup>00</sup></b>	<b>Departure to Tulcea</b>	<b>Delta 1 Ship</b>
<b>18<sup>00</sup></b>	<b>Arrival to Tulcea</b>	<b>Delta Hotel, Tulcea</b>
<b>18<sup>15</sup></b>	<b>Departure to Bucharest</b>	



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