

**WRW**  
2014



**2<sup>nd</sup> International Conference**

# **Water resources and wetlands**

Programme  
and  
**Book of Abstracts**

11-13 September, 2014 Tulcea (Romania)



**Editors: Petre Gâstescu, Włodzimierz Marszelewski,  
Petre Bretcan**





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**Water resources and wetlands**  
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**Editors: Petre Gâștescu, Włodzimierz Marszelewski  
and Petre Bretcan**

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**Programme and Book of Abstracts to the 2<sup>nd</sup> International Conference Water resources and wetlands**

**Tulcea, Romania, 11-13 September 2014**

**Editors: Petre Gâştescu, Włodzimierz Marszelewski and Petre Breţcan**

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10 September 2014	Arrivals of participants, transfer Bucharest airport - Tulcea			
	Registration			
		Rivers and lakes ecosystem ecology	Climate changing and water resources & Coastal environment	Deltas and wetlands & Water policies
11 September 2014	8:00-9:00	Registration		
	9:00-10:30	Opening ceremony / Official Addressing - Mihail Kogalniceanu Hall, Tulcea County Council		
	10:30-11:00	Coffee break		
	11:00-13:00	Plenary session - Mihail Kogalniceanu Hall, Tulcea County Council		
	13:00-15:00	Lunch, Hotel Delta		
	15:00-17:40	Oral presentation Hotel Delta - Room A (1 <sup>st</sup> floor)	Oral presentation Hotel Delta - Room B (1 <sup>st</sup> floor)	Oral presentation Hotel Delta - Room C (6 <sup>th</sup> floor)
	17:40-18:00	Coffee break		
	18:00-19:20	Oral presentation Hotel Delta - Room A (1 <sup>st</sup> floor)	Oral presentation Hotel Delta - Room B (1 <sup>st</sup> floor)	Oral presentation Hotel Delta - Room C (6 <sup>th</sup> floor)
20:00	Gala Dinner, Hotel Delta			
12 September 2014	9:00-10:40	Oral presentation Hotel Delta - Room A (1 <sup>st</sup> floor)	Oral presentation Hotel Delta Room B (1 <sup>st</sup> floor)	Oral presentation Hotel Delta - Room C (6 <sup>th</sup> floor)
	10:40-11:00	Coffee break		
	11:00-13:00	Oral presentation Hotel Delta - Room A (1 <sup>st</sup> floor)		Oral presentation Hotel Delta - Room C (6 <sup>th</sup> floor)
		Workshop organized by National Society Mineral Water, Romania Hotel Delta Room B (1 <sup>st</sup> floor)		
	13:00-15:00	Lunch, Hotel Delta		
	15:00-16:00	Posters viewing Hotel Delta		
	16:00-17:40	Plenary session - Hotel Delta, Room A (1 <sup>st</sup> floor)		
	17:40-18:00	Coffee break		
18:00-19:00	Conference closing			
20:00	Dinner, Hotel Delta			
13 September 2014	8:30-9:00	Boarding the ship		
	9:00-18:00	Field trip in the Danube Delta		
	13:00	Lunch on board		
14 September 2014	7:00	Departures Tulcea-Bucharest airport		
	9:00	Departures Tulcea-Bucharest airport		

## **Program**

### **Wednesday, 10 September 2014**

Arrivals of participants, transfer Bucharest airport - Tulcea  
Registration, Hotel Delta

### **Thursday, 11 September 2014**

8:00-9:00 Registration, Mihail Kogălniceanu Hall, Tulcea County Council

**9:00-10:30 Opening ceremony – Official addressing**

**Opening of the Conference by Mr. Petre Gâştescu, President of Romanian  
Limnogeographical Association**

**Welcoming address by Mr. Włodzimierz Marszelewski, President of Polish  
Limnological Society**

**Welcoming address by Mr. Martin Rulik, President of Czech Limnological  
Society**

**Welcoming address by Mr. Lucian Eduard Simion, Governor, Danube Delta  
Biosphere Reserve Authority**

**Welcoming Address by Mr. Horia Teodorescu, President, Tulcea County  
Council**

**Welcoming address by Mr. Constantin Hogeă, Mayor, Tulcea City**

**Welcoming address from:**

**Institute of Geography, Romanian Academy**

**University of Bucharest (Romania)**

**Babeş-Bolyai University, Cluj-Napoca (Romania)**

**Alex. I. Cuza University, Iaşi (Romania)**

**Hyperyon University (Romania)**

**Romanian Waters National Administration**

**Danube Delta National Institute, Tulcea (Romania)**

**National Research Council CNR – ISE (Italy)**

**Institute of Geography - University Pécs (Hungary)**

**Nanjing University (PR China)**

**National Institute for Environmental Studies (Japan)**

**Dalhousie University (Canada)**

**The University of Jerusalem (Israel)**

**10:30-11:00 Coffee break**

**11:00-13:00 Plenary session - Mihail Kogalniceanu Hall, Tulcea County Council**  
**Chairpersons: Włodzimierz Marszelewski, Liliana Zaharia, Martin Rulik**

11:00-11:25 UNEXPECTED TOXIC CYANOBACTERIA BLOOM IN AN OLIGOTROPHIC DEEP LAKE AS ULTIMATE CONSEQUENCE OF WATER LEVEL FLUCTUATIONS

Cristiana Callieri, Roberto Bertoni, Mario Contesini (Italy)

11:25-11:50 RIVER REHABILITATION IN HUNGARY

Dénes Lóczy, Ervin Pirkhoffer, József Dezső (Hungary)

11:50-12:15 INTEGRATED BUFFER ZONES – A NEW TOOL TO REDUCE NUTRIENT LOAD TO RECIPIENTS

John A. Strand, Peter Feuerbach (Sweden)

12:15-12:40 NATURAL AND ANTHROPOGENIC CHANGES OF STANDING WATER BODIES IN THE WEST POLESIE (EASTERN POLAND)

Katarzyna Mięsiak-Wójcik, Marek Turczyński (Poland)

13:00-15:00 Lunch, Hotel Delta

**15:00-16:40 Oral presentations (Hotel Delta)**

**Session 1: Rivers and lakes ecosystem ecology, Hotel Delta, Room A**

**Chairpersons: Victor Sorocovschi, Dénes Lóczy, Gheorghe Romanescu, Tadanobu Nakayama**

15:00-15:20 EVALUATION OF SHALLOW LAKE METABOLISM USING HIGH-FREQUENCY OXYGEN MEASUREMENTS

Mark Honti, Vera Istvánovics (Hungary)

15:20-15:40 INNOVATIVE SOLUTIONS FOR WATER MONITORING

Sorin Bogdan (Romania)

15:40-16:00 GROUNDWATER SEEPAGE PATTERNS IN A CLOSED-BASIN LAKE BEFORE AND AFTER AN INCREASE IN GROUNDWATER PUMPING RATES FROM AN UNCONFINED AQUIFER IN THE KURTNA KAME FIELD, ESTONIA

Marko Vainu, Jaanus Terasmaa, Tiit Vaasma, Egert Vandel (Estonia)

16:00-16:20 ASSIGNATION OF FLOODING PRONE AREA TO 5% AND 1% PROBABILITY OF DEBIT USING UAV TECHNOLOGY - LOWER RĂCĂȚĂU RIVER (SOMEȘUL MIC BASIN)

Gheorghe Șerban, Ioan Rus, Dănuț Petrea, Petre Brețcan, Dan Vele, Mircea Alexe (Romania)

16:20-16:40 PONDS: CONSERVATION THROUGH A BETTER MANAGEMENT OF ENVIRONMENTAL IMPACTS. DIVERSION: AN OPTIMAL MANAGEMENT? THE CASE OF SOUTH CENTRE REGION (FRANCE)

Camille Millot, Laurent Touchart, Pascal Bartout, Abdelhamid Azaroual, Rachid Nedjai, Mohammad Aldomany (France)



**Session 2: Climate changing and water resources & Coastal environment, Hotel Delta, Room B**

**Chairpersons: Gavril Pandi, John A. Strand, Martina Zeleňáková**

15:00-15:20 SEASONALITY LEVEL OF HYDROLOGICAL DROUGHT IN RIVERS AND ITS VARIABILITY

Edmund Tomaszewski (Poland)

15:20-15:40 AVERAGE FLOW PARTICULARITIES IN RÂUL NEGRU CATCHMENT AREA AND THE CLIMATIC CONDITIONING

Gavril Pandi, Victor Sorocovschi, Malinda Vigh (Romania)

15:40-16:00 CHANGES IN THE FREQUENCY AND MAGNITUDE OF FLOODS IN THE BUCEGI MOUNTAINS (ROMANIAN CARPATHIANS)

Perju Elena Ruth, Zaharia Liliana (Romania)

16:00-16:20 POSSIBILITIES OF MITIGATION WHEN USING COOLING WATER OR WATER AT HYDROELECTRIC POWER STATIONS - EXPERIENCES FROM THE ELBE ESTUARY

Elith Wittrock, Marianne Rothensee (Germany)

16:20-16:40 THE USE OF CATTAIL MATERIAL IN BUILDING CONSTRUCTION – INNOVATIVE TECHNOLOGICAL DEVELOPMENT, ENVIRONMENTAL RELEVANCE AND EXAMPLES OF APPLICATION

Werner Theuerkorn, Martin Krus, Theo Grosskinsky (Germany)

**Session 3: Deltas and wetlands & Water policies, Hotel Delta, Room C**

**Chairpersons: Emilio Padoa-Schioppa, Daniel Suman, Shuqing An**

15:00-15:20 BIODIVERSITY IN CONDITIONS OF STRONG ANTHROPOPRESSURE IN THE VISTULA DELTA (POLAND)

Joanna Fac-Beneda, Izabela Chlost, Alicja Olszewska (Poland)

15:20-15:40 POTENTIAL OF CONSTRUCTED WETLAND FOR WASTE WATER TREATMENT IN RURAL AREAS IN KOSOVO (CASE STUDY)

Lavdim Osmanaj, Agon Haxhikadrija, Astriti Vokshi, Florian Klingel, Pierre-Henri Dodane (Kosovo)

15:40-16:00 CATTAIL-REINFORCED CLAY PLASTERS IN THE SUSTAINABLE BUILDING AND SPATIAL PLANNING

Georgi Georgiev, Martin Krus, Theo Grosskinsky (Germany)

16:00-16:20 BENEFITS OF DAMS FOR THE ECOSYSTEM: THE SAMPLE OF KARKAMIŞ DAM (TURKEY)

Mehmet Emin Sonmez, Zozan Kilic (Turkey)

16:20-16:40 THE ROLE OF LAKE GEOMETRIES IN ENVIRONMENTAL FLOW ASSESSMENT

Ali Torabi Haghighi, Mesert Menberu, Pouyan Keshtkaran and Bjorn Klove (Finland/Iran)

16:40-17:00 Coffee break

## **17:00 - 19:00 Oral presentations (Hotel Delta)**

### **Session 1: Rivers and lakes ecosystem ecology, Hotel Delta, Room A**

**Chairpersons: Gheorghe Şerban, Dariusz Borowiak, Neşe Yılmaz**

- 17:00-17:20 MONITORING THE DANUBE WITH ADCON TELEMETRY EQUIPMENT –  
A CASE STUDY FOR OTT HYDROMET AND ROWATER COMPANY  
Andrei Vasilescu, George Suciu, Victor Suciu (Romania)
- 17:20-17:40 DIAGNOSING THE STATE OF THE SHALLOW LAKE ZDWORSKIE, AND  
TESTING POSSIBLE RESTORATION METHODS  
Ryszard Wiśniewski (Poland)
- 17:40-18:00 HYDROTECHNOGENICAL INFLUENCE OF THE OIL SHALE MINES TO THE  
WATER QUALITY OF THE NATURAL LAKES IN THE KURTNA LAKE  
DISTRICT, ESTONIA  
Jaanus Terasmaa, Annika Mikomägi, Egert Vandel, Tiit Vaasma, Marko  
Vainu, Merilin Heinsoo (Estonia)
- 18:00-18:20 EVALUATION OF HEAVY METAL CONTAMINATION AT ÇAVUŞÇU LAKE  
BY FUZZY LOGIC  
Cengiz Akköz (Turkey)
- 18:20-18:40 THE CONTRIBUTION OF NATURAL ORGANIC MATTER TO  
CYANOBACTERIAL GROWTH IN MUSINA RAW WATER SUPPLY, LIMPOPO,  
SOUTH AFRICA  
Netshambidi Londani Konanani, Gumbo Jabulani Ray (South Africa)

### **Session 2: Climate changing and water resources & Coastal environment, Hotel Delta, Room B**

**Chairpersons: Peter Feuerbach, Elena Teodoreanu, Henning Günther**

- 17:00-17:20 ENVIRONMENTAL IMPACT STUDY IN BODVA RIVER BASIN  
Martina Zeleňáková, Lenka Zvijáková (Slovakia)
- 17:20-17:40 LIVING ISLANDS - THE DEVELOPMENT OF AUTO-BUOYANT  
VEGETATION MATS FOR WATER QUALITY IMPROVEMENT  
Henning Günther, Peter Dominik (Germany)
- 17:40-18:00 REMEDIATION OF HEAVY METAL BEARING WASTEWATER BY  
PHOTOVOLTAIC ELECTROCOAGULATION  
Konstantinos Dermentzis, Dimitrios Marmanis, Achilleas Christoforidis  
(Greece)
- 18:00-18:20 CHOICE OF THE ADEQUATE FREQUENCY MODEL FOR MAXIMUM  
RAINFALLS BY MINIMIZING THE PENALIZED CRITERIA (AIC AND BIC)  
Amel Oucherif (Algeria)

- 18:20-18:40 A NEW WATER ENERGY DISSIPATER FOR EFFICIENT ENERGY DISSIPATION, AND INCREASING THE FLOW WITH DISSOLVED OXYGEN CONTENT TOO  
Ashour M.A., Saied T, Tawfik. S (Egypt)
- 18:40-19:00 PANAMA BAY WETLANDS: ECOSYSTEM UNDER THREAT  
Daniel Suman (USA)

**Session 3: Deltas and wetlands & Water policies, Hotel Delta, Room C**  
**Chairpersons: Erik Kiviat, Alina Dumitrache, Joanna Fac-Beneda**

- 17:00-17:20 RECOMMENDATIONS FOR INTEGRATED EUTROPHICATION MANAGEMENT OF THE SOMEȘ RIVER (ROMANIA/HUNGARY) BASED ON CATCHMENT MODELING  
Vera Istvánovics, Mark Honti, Adam Kovács, Gáborné Kocsis, Isabella Stier (Hungary/Austria/Romania)
- 17:20-17:40 HUMAN IMPACT ON BRAIDED RIVERS: A SHORT-TERM ANALYSIS OF MORPHOLOGICAL PARAMETERS AND PRESSURES  
Ioana-Toroimac Gabriela, Zaharia Liliana, Minea Gabriel, Zarea Răzvan (Romania)
- 17:40-18:00 E31 SPA TOURISM RESSOURCES AND DEVELOPMENT OF LOCAL ECONOMIES IN ROMANIA  
Peptenatu Daniel, Pintilii Radu-Daniel, Draghici Cristian (Romania)
- 18:00-18:20 WATERSHED SUSTAINABILITY INDEX: DEVELOPMENT AND APPLICATION FOR THE MOTRU RIVER BASIN (SOUTH — WEST ROMANIA)  
Ionuș Oana (Romania)
- 18:20-18:40 MANAGING THE ONONDAGA LAKE WATERSHED IN NEW YORK, USA, THROUGH SCIENCE-BASED POLICY: A CASE STUDY  
Samuel H. Sage, Nasseer Idrisi (USA)
- 18:40-19:00 UTILIZING ACCLIMATED MICROBIAL SYSTEMS IN IMPROVING PERFORMANCE OF A SURFACE FLOW TYPE OF CONSTRUCTED WETLAND SYSTEM  
Florencio C. Ballesteros, Jr., Tran Hau Vuong (Philippines)
- 20:00 Gala Dinner, Hotel Delta

## Friday, 12 September 2014

### 9:00-10:40 Oral presentations (Hotel Delta)

#### Session 1: Rivers and lakes ecosystem ecology, Hotel Delta Room A

Chairpersons: **Cristiana Callieri, Gabriela Pavelescu, Katarzyna Mięsiak-Wójcik,**

09:00-09:20 CHANGES IN THE LAKE SEDIMENT COMPOSITION CAUSED BY SHORT-TERM WATER-LEVEL FLUCTUATION

Vaasma, Tiit; Terasmaa, Jaanus; Vandell, Egert; Vainu, Marko; Koff, Tiiu (Estonia)

09:20-09:40 FACTORS CONTROLLING ENCROACHMENT OF INVASIVE VINES IN RIVER FLOODPLAINS

Md H. Rashid, Takashi Asaeda (Japan)

09:40-10:00 A70 ARTIFICIAL NEURAL NETWORK VS. MULTIPLE REGRESSION: A CASE STUDY OF FRESHWATER MACROPHYTE ASSESSMENT

Gebler D., Budka A., Pietruczuk K., Kayzer D., Szoszkiewicz K. (Poland)

10:00-10:20 TEMPORAL VARIABILITY AND SPATIAL DISTRIBUTION OF SUSPENDED MATTER AND VARIOUS ORGANIC C POOLS IN THE ZAMBEZI RIVER SYSTEM

Cristian R. Teodoru, Steven Bouillon, Alberto V. Borges, and François Darchambeau (Belgium)

10:20-10:40 IMPACT OF INVASIVE MACROPHYTES ON DIVERSITY AND PRODUCTION OF FISH IN LAKE NASSER, EGYPT

Magdi M. Ali, Hussein A. Adam, Alaa El-Haweet (Egypt)

#### Session 2: Climate changing and water resources & Coastal environment, Hotel Delta Room B

Chairpersons: **Elith Wittrock, Bożena Pius, Mohamed Ashour**

09:00-09:20 RAINFALL-RUNOFF MODELLING AT MONTHLY AND DAILY SCALES USING CONCEPTUAL MODELS AND NEURAL FUZZY INFERENCE SYSTEM

Yasmine Ytoui (Algeria)

09:20-09:40 A STUDY OF THE WATER QUALITY IMPACTED BY LAND POLLUTANT WATER IN SONGDO WATER FRONT'S CANAL SYSTEM

Dong Woo Jang, Hyo Seon Park (Korea)

09:40-10:00 INFLUENCE OF HYDROLOGICAL CONDITIONS ON THE STATE OF SELECTED PLANT HABITATS IN THE SLOWIŃSKI NATIONAL PARK (NORTHERN POLAND)

Roman Cieśliński, Izabela Chlost, Alicja Olszewska, Magda Sikora (Poland)

10:00-10:20 ENTRAINMENT AND IMPINGEMENT OF FISHES FROM RIVERS AND COASTAL WATERS

Elith Wittrock, Marianne Rothensee (Germany)

10:20-10:40 THE IMPORTANCE OF HYDROPOWER FOR SUSTAINABILITY IN THE  
CASE OF DEĞIRMENDERE RIVER BASIN  
Emin Tas, Omer Yuksek (Turkey)

**Session 3: Deltas and wetlands & Water policies, Hotel Delta Room C**  
**Chairpersons: Petra Mudie, Răzvan Voicu, Luca Marazzi**

09:00-09:20 FLOODING DISTURBANCE AND HABITAT HETEROGENEITY ENHANCE  
ALGAL BIODIVERSITY IN THE OKAVANGO DELTA  
Luca Marazzi, Anson W. Mackay, Vivienne J. Jones (UK)

09:20-09:40 APPROACH TO THE PLANNING AND DEVELOPMENT OF THE DANUBE  
WATERWAY IN SERBIA  
Saša Milijić, Nikola Krunić, Marija Maksin, Jasmina Đurđević (Serbia)

09:40-10:00 THE BALNEOTOURISTIC POTENTIAL OF THE MINERAL WATERS FROM  
THE NORTHERN PART OF THE ELONGATED BASIN (DRĂGOIASA-GLODU-  
BILBOR-BORSEC-CORBU-TULGHEȘ) AND THEIR CAPITALIZATION  
George-Bogdan Tofan, Adrian Niță (Romania)

10:00-10:20 LOWER DANUBE IN PAGES OF HISTORY AND LITERARY  
Elena Teodoreanu (Romania)

10:20-10:40 BIOMASS PRODUCTION AND FINE-ROOT GROWTH OF SALIX INTEGRALIS  
ACROSS A WATER TABLE GRADIENT  
Xie Xinyun, Qian Yifu, Zhao Hongfei, Xu Xiaoniu (PR China)

10:40-11:00 Coffee break

**11:00-13:00 Oral presentations (Hotel Delta)**

**Session 1: Rivers and lakes ecosystem ecology, Hotel Delta Room A**  
**Chairpersons: Mark Honti, Cristian R. Teodoru, Krzysztof Szoszkiewicz**

11:00-11:20 MACROPHYTE DIVERSITY PATTERN IN LOWLAND RIVERS IN THE  
OLIGOTROHY-EUTROPHY GRADIENT  
Krzysztof Szoszkiewicz, Anna Budka, Karol Pietruczuk, Dariusz Kayzer  
(Poland)

11:20-11:40 IS NON-LETHAL METHOD RELEVANT TO BIOLOGICAL MONITORING  
OF FLOWING WATERS? THE DESCRIPTION OF PROCEDURE TESTING  
USING BENTHIC INVERTEBRATES  
Tomasz Karasek, Magdalena Czarnecka, Joanna Galas, Paweł Koperski  
(Poland)

11:40-12:00 NEW INSIGHTS ON THE ENVIRONMENTAL FACTORS AFFECTING  
ECOSYSTEM STATUS IN THE DANUBE DELTA  
Alina Dumitrache, Mirela Moldoveanu, Larisa Florescu, Laura Parpala,  
Cristina Sandu (Romania)

- 12:00-12:20 PLANT OVERGROWTH AS AN INDICATOR OF LAKE DISAPPEARANCE –  
THE CASE OF NORTHWESTERN POLAND  
Adam Piasecki, Rajmund Skowron (Poland)
- 12:20-12:40 INVESTIGATIVE STUDIES ON CHARACTERISTIC PLUME BEHAVIOR  
DURING SPILL EPISODE INVOLVING LIGHT NON-AQUEOUS PHASE  
LIQUIDS (LNAPL)  
Eusebio, Dominador A., Ballesteros, Florencio C., Arcilla, Carlo A  
(Philippines)
- 12:40-13:00 PROTECTING MARCHES AREAS WITHIN DANUBE RIVER BASIN AS  
TOURIST LANDSCAPES – NEW PERSPECTIVES IN PLANNING AND  
MANAGEMENT IN THE REPUBLIC OF SERBIA  
Tijana Crnčević, Saša Milijić, Olgica Bakić (Serbia)

**11:00-13:00 Workshop organized by National Society Mineral Water, Romania  
Hotel Delta Room B (1<sup>st</sup> floor)**

**Chairperson: Radu Dumitru**

**Apa minerala imbuteliata - perspective in cadrul mediului socio-economic din  
Romania / Bottled mineral water - insights into socio-economic situation in  
Romania**

13:00 -15:00 Lunch, Hotel Delta

15:00-16:00 Posters viewing Hotel Delta

**16:00-17:20 Plenary session Hotel Delta - Room A (1<sup>st</sup> floor)**

**Chairpersons: Petre Gastescu, Roberto Bertoni, Elisha Tel-Or**

16:00-16:20 IMPORTANCE OF LABORATORY MESOCOSMS AND GEOLOGICAL  
STUDIES FOR MONITORING WETLANDS DIVERSITY  
Jennifer Frail-Gauthier, Petra Mudie (Canada)

16:20-16:40 APPLICATION OF AQUATIC PLANTS FOR THE REMOVAL OF TOXIC  
METALS AND ORGANIC POLLUTANTS  
Tel-Or Elisha, Sherapov-Borochoy R., Sirota N., Benyamini E. (Israel)

16:40 -17:00 ADAPTATION OF HUMAN CULTURE TO WETLAND ENVIRONMENTS  
Erik Kiviat (USA)

17:00-17:20 SURFACE-GROUNDWATER INTERACTION AND ITS EFFECT ON  
CARBON CYCLE IN TERRESTRIAL-AQUATIC CONTINUUM  
Tadanobu Nakayama, Shamil Maksyutov (Japan)

17:20-17:40 RESTORATION OF WETLANDS IN SUBURBS OF MILANO: EXPERIENCES  
AND PERSPECTIVES AFTER 5 YEARS OF APPLIED PROJECTS  
Emilio Padoa-Schioppa, Patrizia Digiovinazzo, Luciana Bottoni (Italy)

17:40-18:00 Coffee break

**18:00-19:00 Conference closing**

20:00 Dinner, Hotel Delta

## **Saturday, 13 September 2014**

8:30-9:00 Boarding the ship

9:00-18:00 Field trip in the Danube Delta

13:00 Lunch on board

## **Sunday, 14 September 2014**

7:00 Departures Tulcea-Bucharest airport

9:00 Departures Tulcea-Bucharest airport

**Friday, 12 September 2014**

**15:00-16:00 Posters viewing Hotel Delta**

### **Rivers and lakes ecosystem ecology**

OPTICAL PROPERTIES OF NORTHERN POLAND LAKES

Dariusz Borowiak, Magdalena Borowiak (Poland)

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