



**BABEȘ-BOLYAI UNIVERSITY
FACULTY OF GEOGRAPHY
DEPARTMENT OF PHYSICAL AND
TECHNICAL GEOGRAPHY
and
AIR AND WATER ASSOCIATION**

in cooperation with

“SOMEȘ - TISA” Basin Water Administration

organize

**THE INTERNATIONAL CONFERENCE
AIR AND WATER - COMPONENTS OF THE ENVIRONMENT**

11th Edition

Partners

**”SOMEȘ” WATER COMPANY CLUJ
HIDROELECTRICA CLUJ BRANCH**

**22 – 24 March 2019
CLUJ-NAPOCA, ROMANIA**

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PROGRAM

Friday, March 22, 2019

- 08.00 – 09.00: *Registration (Hall 43, 1st floor)*
- 09.00 – 10.00: *Opening ceremony (Hall 43, 1st floor)*
- 10.00 – 10.30: *Coffee break (Hall 27, Groundfloor)*
- 10.30 – 12.15: *Plenary session (Hall 43, 1st floor)*
- 12.15 – 12:50: *Poster session (Hall 43 and 46, 1st floor)*
- 13.00 – 14.30: *Lunch (Haşdeu University Restaurant, Petru Friciu Hall)*
- 14.45 – 16.30: *Communication sessions*
- 16.30 – 17.00: *Coffee break (Hall 27, Groundfloor)*
- 17.00 – 18.00: *Communication sessions*
- 18.00 – 18.30: *Conclusions (Hall 43, 1st floor)*
- 19.00 – 22.00: *Official dinner (Haşdeu University Restaurant, Petru Friciu Hall)*

Saturday, March 23, 2019

08.00 – 20.00 *Field trip itinerary*

Cluj-Napoca – Gilău –Tarnița dam – Mărișelu – Beliș – Căpuș – Cluj-Napoca

Sunday, March 24, 2019

09.30 – 12.30 *Cluj-Napoca city tour*

Friday, March 22, 2019

Opening Ceremony

Hall 43, Amphitheatre „George Vâlsan”, 1st floor

- 09.00 - 09.05:** Organizers welcome
09.05 - 09.15: Prof. Dănuț PETREA - Dean of the Faculty of Geography
09.15 - 09.25: Assoc. Prof. Florin MOLDOVAN - World Meteorological Day - 2019
09.25 - 09.35: Lect. Răzvan BĂTINAȘ - World Water Day - 2019
09.35 - 09.45: Dipl. Eng. Ioan ROȘU – Presentation of Someș - Tisa Water Branch Administration
09.45 - 09.55: PhD. Eng. Călin NEAMȚU - Presentation of ”Someș” Water Company
09.55 - 10.00: Organizers speech
10.00 - 10.30 **Coffee break**

Plenary Session

Hall 43, ”George Vâlsan” Amphitheatre, 1st floor

Chairmen: Martina ZELENKOVA, Roman TANDLICH

10.30 - 11.05

Paul-Adrian BULZU, Adorján CRISTEA, Dorian M. BUDA, Horia L. BANCIU:
*Asgardarchaeota – A Novel Prokaryotic Group Discovered in Aquatic Sediments that
Might Shed Light on the Origin and Early Evolution of Eukaryotes*

11.05 – 11.40

Ionel Sorin RÎNDAȘU-BEURAN, Anemari Luciana CIUREA, Ramona
DUMITRACHE, Bogdan ION, Diana ACHIM, Petrișor MAZILU, Răzvan Dan
BOGZIANU: *Flood Risk Assessment in the Tisa River Basin*

11.40 – 12.15

Sorin CHEVAL: *WRF Simulations of Urban Heat Island in Bucharest (Romania)*

12.15 – 12.50: *Poster session (Hall 43 and 46, 1st floor)*

13.00 – 14.30: *Lunch (”Petre Friciu” Hall, Hașdeu University Restaurant)*

14.45 – 18.00 *Thematic sessions*

18.00 – 18.30 *Conclusions*

Session I.A. Poster session

12.15 – 12.50

Hall 43 1st Floor

Chairmen: Iulian HOLOBĂCĂ, Narcisa MILIAN

1. Liviu-Marian ALBU, Andrei ENEA, Marina IOSUB, Constantin-Cristian STOLERIU, Lilian NIACȘU: *Remote Sensing of Snow Cover – a Comparative Analysis*
2. Alexandra CHELU: *A Typology of Indices for Drought Assessment*
3. Adina Eliza CROITORU, Mugurel SIDĂU: *Comparative Analysis of Extreme Values of Precipitation and Temperatures from the Grid Data Series Available for the North-East of Romania, with the Measured Values*
4. Elena GRIGORE, Dana Maria CONSTANTIN (OPREA), Marius-Alin CRISTEA, Nicoleta IONAC, Adrian Amadeus TIȘCOVSCHI, Florina TATU, Dan Vasile ARDELIAN: *The multi-criteria assessment of the thermic comfort satisfaction degree in a general dentist's office*
5. Ines GRIGORESCU, Dana MICU, Monica DUMITRAȘCU, Bianca MITRICĂ, Irena MOCANU, Paul ȘERBAN, Cristina DUMITRICĂ, Loredana HAVRIȘ, Gheorghe KUCSICSA: *Renewable Energy Sources in Romania: Progress and Perspectives Towards the EU Targets*
6. Narcisa MILIAN: *2017-2018 Winter - Favorable Avalanche Conditions in Southern Carpathians*
7. Larisa PAVELUC, Gianina COJOC, Alina TIRNOVAN, Bogdan GHINDĂOANU: *Representative Basin Trebeș-Negel - Analysis of Air Temperature Variation*
8. Clara RONCEA: *The Summer of 2018 in Southwestern Romania-Contrasts and Trends*
9. Otilia RUSZ: *Some Characteristics of Precipitation in the Central Region of Romania in the 1961-2017 Period*
10. Bogdan URIȚESCU, Georgiana GRIGORAȘ, Nicoleta IONAC: *The Influence of Urban Morphology on the Urban Microclimate*

Session I.B. Poster session

12.15 – 12.50

Hall 46 1st Floor

Chairmen: Csaba HORVATH, Valentina-Mariana MĂNOIU

1. Liviu-Marian ALBU, Andrei ENEA, Constantin Cristian STOLERIU, Lilian NIACȘU: *G.I.S. Implementation on Dam-Break Flood Vulnerability Analysis – A Case Study of Cătămărăști Dam, Botoșani, Romania*
2. Daniel BOICU, Ionuț MINEA, Oana-Elena CHELARIU, Marina IOSUB: *Evaluation on Groundwater Recharges Capacity Using the AHP Method - Case Study: The Moldavian Plain*
3. Petre BREȚCAN, Dănuț TANISLAV, Cristiana RADULESCU, Mihaela SENCOVICI, Andra COSTACHE: *Spatial analysis of shallow groundwater quality from Targoviste Plain using Water Quality Index and GIS analyses*
4. Elena HUȚANU, Andrei URZICĂ, Vasile Bogdan GHINDĂOANU: *Water Parameters Physico-Chemical Variation in the Phreatic Aquifer of Băiceni Locality, Botosani County*
5. Valentina-Mariana MĂNOIU, Alexandru-Ioan CRĂCIUN: *Water Management on Board Disney Cruise Line Company Ships: Methods and Legislation*
6. Ioana Corina MOGA, Gabriel PETRESCU, Bogdan Iulian DOROFTEI, Roxana BUZEA: *Water Management Applied in Recirculating Aquaculture Systems*
7. Gabriela Adina MOROȘANU, Liliana ZAHARIA, Philippe BELLEUDY: *Applying Colorimetric and Image Analysis Methods to Identify the Coal Areas Contributing to the Hydro-Sedimentary Dynamics in Jiu River Basin*
8. Lucica NICULAE: *Environmental Impact of Mining in the Banat Mountains*
9. Carina STRAPAZAN, Ionel HAIDU, Istvan KOCSIS: *Assessing Land Use/Land Cover Change and its Impact on Surface Runoff in the Southern Part of the Țibleș and Rodnei Mountains*
10. Ionuț ȘOREA, Cristian Constantin STOLERIU, Adrian URSU: *Road Traffic Noise Modeling. Case Study: Vaslui Town, North-Eastern Romania*
11. Andreea-Violeta TUDORACHE: *Current Possibilities for Elaborating Flash Flood Warnings in Romania. Case Study: The Flood Produced on 30 June 2018 in the Trotuș River Basin*
12. Andrei URZICĂ, Elena HUȚANU, Claudiu PRICOP, Alin MIHU-PINTILIE: *GIS Modeling for Dam Reconstruction. Case Study: Nichiteni Dam, Botoșani County*
13. Melinda VIGH: *The Mineral Springs of Malnaș Băi*

II. Climatic and Hydrological Hazards

14.45 - 16.30

Hall 43 1st Floor

Chairmen: Vlasta Ondrejka HARBULAKOVA, Zeineddinne NOUACEUR

14.45 - 15.00

Rastislav FIJKO, Martina ZELENÁKOVÁ: *Verification of the Hydrodynamic Model of the Slatvinec River in Kružlov*

15.00 - 15.15

Vlasta Ondrejka HARBULAKOVA, Martina ZELENÁKOVÁ, Maria SUGAREKOVA: *Assessment of the Preparedness for Flood Protection of Municipalities in Presov Region Based on the Questionnaire Survey*

15.15 - 15.30

Vlad-Alexandru ILIE, Adina-Eliza CROITORU, Titus MAN: *Mediterranean Cyclones tracks in Europe with special view over Romania region (1986-2015)*

15.30 - 15.45

Jeevan KUMAR, István GERESDI: *Fog and Smog Experience Over Northern India In Winter Time*

15.45 - 16.00

Mihnea Cristian POPA, Daniel Constantin DIACONU: *Effects of Deforestation on Flooding in the Moldova River Basin*

16.00 - 16.15

Cristian RUSU: *Severe Convective Wind in North-Western Romania*

16.15 - 16.30

Lidia SĂLĂJAN, Daniela Elena GOGOĂȘE NISTORAN: *The Characteristics of the Historical Floods from the Years 1974 and 1975 in the Bâsca Basin*

16.30 - 16.50 Coffee break

III. Water Resource Management

14.45 - 16.30

Hall 30, Groundfloor

Chairmen: Mustafa DEMIRCI, Katarzyna KUBIAK-WÓJCICKA

14.45 - 15.00

Cristina BĂLĂCEANU, George SUCIU, Romulus CHEVEREȘAN, Marius DOBREA, Andreea IOSIF, Raluca IOSU, Ioana MARCU: *Monitoring Solutions for Smart Agriculture*

15.00 - 15.15

Simon CAILLIEZ, Francesco DONATI, Laurent TOUCHART, Pascal BARTOUT, Galina KAPANEN, Agata MARZECOVA, Jaanus TERASMAA, Tiiu KOFF, Egert VANDEL, Quentin CHOFFEL, Camille MILLOT, Véronique MALEVAL, Zoudiba QSAIR: *The Chemical Properties of Pond Sediments and the Operations of River Restoration*

15.15 - 15.30

Mustafa DEMIRCI, Yunus Ziya KAYA: *Estimation of Keban Dam Reservoir Level in Turkey Using Artificial Neural Network and Support Vector Machines*

15.30 - 15.45

Yunus Ziya KAYA, Bestami TAŞAR: *Evapotranspiration Calculation for South Carolina, USA and Creation Different ANFIS Models for ET Estimation*

15.45 - 16.00

Katarzyna KUBIAK-WÓJCICKA: *Long-Term Variability of Runoff of Vistula River in 1951-2015*

16.00 - 16.15

Gavril PANDI, Csaba HORVÁTH: *Regradation of the Somesul Mic Riverbed*

16.15 - 16.30

Fatih ÜNEŞ, Mustafa DEMİRCİ, Hakan VARÇİN: *Wall Jet Flow Simulation in a Reservoir Using a Three-Dimensional Mathematical Model*

16.30 - 16.50 Coffee break

IV. Pollution and Protection of Air and Water Environment

14.45 - 16.30

Hall 46 1st Floor

Chairmen: Christof LANZERSTORFER, Ionuț MINEA

14.45 - 15.00

Thamer Adnan ABDULLAH, Noor ALJAMMAL, Ali D. SALMAN, Mohammed AL-ASADI, Ahmed Mosa JAFAR, Roquia RIZK, Endre DOMOKOS: *Removal of Hydrocarbons from Waters Using MWCNTs after Modification with Nano Zinc- Oxide*

15.00 - 15.15

Hallo Angaleni Nameya ANGALA, Roman TANDLICH, Nosiphiwe P. NGQWALA, Bongumusa Msisi ZUMA, Sylvester MOYO: *Citizen Science, Treatment and Compliance Monitoring of Microbial Water Quality in Namibia*

15.15 - 15.30

Gertrud ANZENGRUBER, Christof LANZERSTORFER: *Remediation of Hexachloro-1,3-Butadiene Contaminated Groundwater* Gertrud ANZENGRUBER, Christof LANZERSTORFER: *Remediation of Hexachloro-1,3-Butadiene Contaminated Groundwater*

15.30 - 15.45

Ali Dawood SALMAN, Tatjana JUZSAKOVA, Igor CRETESCU, Brindusa SLUSER, Le Phuoc CUONG: *Process Development for Recovery of Rare Earth Elements from Red Mud*

15.45. - 16.00

Iolanda-Veronica GANEA, Alexandrina NAN, Rodica TURCU, Marin ȘENILĂ, Iulia NEAMȚIU: *Comparative study of new types of materials for improved heavy metals removal from contaminated water and reduced human health impact*

16.00 - 16.15

Tatjana JUZSAKOVA, Noor AL-JAMMAL, Thamer Adnan ABDULLAH, Igor CRETESCU, Viktor SEBESTYÉN, Le Phuoc CUONG, Endre DOMOKOS: *Modified Carbon Nanotubes for Water Cleaning*

16.15 - 16.30

Simion BELDEAN GALEA, Sorin POP, Vlad PĂNESCU, Cătălina Mihaela HERGHELEGIU: *The assessment of contamination and source of polycyclic aromatic hydrocarbons from the sediments of the Someș River*

16.30 - 16.50 Coffee break

V. Air and Water Environment Monitoring

17.00 – 18.00

Hall 43 1st Floor

Chairmen: Lucian SFÎCĂ, Gavril PANDI

17.00 - 17.15

Hallo Angaleni Nameya ANGALA, Roman TANDLICH, Nosiphiwe P. NGQWALA, Bonugmusa Mlisi ZUMA: *Efficiency of a Decentralised System in the Treatment of Rainwater in South Africa*

17.15 - 17.30

Zeineddinne NOUACEUR, Ovidiu MURARESCU: *Comparative Analysis on the Rainfall Variability in two Regions of North Africa: the Moroccan Middle Atlas and the Northern East of Tunisia (PHC Maghreb Transversal Project 2017- 2020)*

17.30 - 17.45

Lucian SFÎCĂ, Ionela NICURIUC1, Andrei NIȚĂ: *Boundary Layer Temperature Stratification as Result of Atmospheric Circulation Within the Western Side of Braşov Depression*

17.45 - 18.00

Simona PÎNZARU CINTĂ, Lucian Barbu TUDORAN, Dorina PODAR, Fran NEKVAPIL: *Confocal Raman micro-spectroscopy and SERS: sensitive tools for fast detection of microorganisms accumulated in water dispenser filters*

18.00 - 18.30 Conclusions (Hall 43, 1st floor)

VI. Climatic Changes and Their Impact & VIII. Air- and Hydrobiology

17.00 – 18.00

Hall 46 1st Floor

Chairmen: Ştefan DOMBAY, Traian TUDOSE

17.00 - 17.15

Doriana M. BUDA, Paul A. BULZU, Adorján CRISTEA, Horia L. BANCIU: *The Saline Aquatic Systems as 'Natural Reservoirs' For Microorganisms with Current and Potential Applications*

17.15 - 17.30

Ștefan DOMBAY, Zsolt MAGYARI-SASKA: *Statistical Effect of Temperature on Tourism Seasonality in Romania*

17.30 - 17.45

Anikó CSÉPLŐ, Noémi SARKADI, Ákos HORVÁTH, Gabriella SCHMELLER, Tünde LEMLER: *Fog Climatology In Hungary*

17.45 - 18.00

Adina Eliza CROITORU, Vasile ZOTIC, Adina Viorica RUS, Diana ALEXANDRU, Ștefana BANC, Sabina SCRIPCĂ, Răzvan CHERTEȘ: *Tourism Climate Index in big cities of Romania*

18.00 - 18.30 Conclusions (Hall 43, 1st floor)

VII. Weather and Hydrological Forecast

17.00 – 18.00

Hall 30, Groundfloor

Chairmen: Liviu APOSTOL, Simion BELDEAN GALEA, Fatih UNEȘ

17.00 - 17.15

Radu-Vlad DOBRI, Liviu APOSTOL, Lucian SFÎCĂ: *Physico-Geographic Changes Produced by Air Masses Convergence Within the Central Part of Romanian Plain*

17.15 - 17.30

Ionuț MINEA: *Anomalies and trends on Grounwater level in the North-Eastert Part of Romania*

17.30 - 17.45

Vasile PRISACARIU, Sorin CHEVAL: *Using UAV-LTA for Environmental Monitoring*

17.45 - 18.00

Bestami TAȘAR, Fatih UNEȘ, Hakan VARCÎN: *Prediction of the Rainfall – Runoff Relationship Using Neuro-Fuzzy and Support Vector Machines*

18.00 - 18.30 Conclusions (Hall 43, 1st floor)

Session IX. Students

14.45 - 16.30

Hall 37, Groundfloor

Chairman: PhD. Răzvan BĂTINAȘ

14.45 - 15.00

Anca-Florina BUCUR, Remus-Ștefan COMĂNESCU, Mădălina Adriana ȚUGUI:
Impact of the thermal decontaminations of polluted soils on the environment

15.00 - 15.15

Luminița-Rodica GIURGIU, HALADA Szilard: *Extreme pluvial flood registered on the Hășdate River on July 22, 2010*

15.15 - 15.30

Marian MARIN: *The Influence of Climate Trends on Potato and Corn Production in Târgu Secuiesc and Întorsura Buzăului Depressions*

15.30 - 15.45

Elena-Lavinia PISCAN, Mădălina CHIRIȚĂ: *Waste water treatment solution*

15.45 - 16.00

Petre-Alexandru RACHIERU, Lucian GRIGORE, Alexandru-Roberto BARBU, Dumitru-Florin STĂNICĂ: *Hydropower in Romania. Case study: Paltinu Hydro Power Plant - Energy and Environment*

16.00 - 16.15

Adam REPEL: *Design of simple water retention structures in the Medzibodrozie area in Eastern Slovakia*

16.15 - 16.30

Marius PÎRTICĂ, Marina-Mădălina CĂCIULĂ: *The hydro-tourism potential of the Danube sector: Baziaș-Iron Gates - poster*

16.30 – 16.50 Coffee break

18.00 - 18.30 Conclusions (Hall 43, 1st floor)

Partners



**Administrația Bazinală de Apă Someș-
Tisa**



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