



2<sup>ND</sup> IAH-CEG CONFERENCE



on

**“GROUNDWATER RISK ASSESSMENT IN URBAN AREAS”  
(GRAUA)**

**Constanta, ROMANIA**  
October 14<sup>th</sup>-16<sup>th</sup>, 2015

**CONFERENCE PROGRAM**

<b>Tuesday – October 13, 2015</b>			
• <i>Registration</i> (Bavaria Blu Hotel)		18:00 – 20:00 h	
• <i>Welcome &amp; Icebreaker party</i> (Bavaria Blu Hotel)		19:30 - 21:30 h	
<b>Wednesday - October 14, 2015</b>		<b>Thursday – October 15, 2015</b>	
08:00 – 09:30	Registration	09:00 – 10:30	IAH – NC meetings
09:30 – 10:00	Opening Ceremony. Welcome address	10:30 – 11:00	Coffee break
10:00 – 11:00	Key note lectures	11:00 – 12:30	Session 4
11:00 – 11:30	Coffee break	12:30 – 13:30	Lunch
11:30 – 13:00	Session 1	13:30 – 14:45	Session 5
13:00 – 14:00	Lunch	14:45 – 15:15	Coffee break
14:00 – 15:30	Session 2	15:15 – 16:00	Closing session
15:30 – 16:00	Coffee break	16:15 – 17:45	Technical Visit – Treatment Plant
16:00 – 17:30	Session 3	19:30 – 22:00	Banquet
19:30 -21:30	Dinner		
<b>Friday, October 16, 2015</b>			
9:00 – 17:00 <i>Field trip</i>			

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• <i>Registration (Bavaria Blu Hotel)</i>	18:00 – 20:00 h
• <i>Welcome &amp; Icebreaker party (Bavaria Blu Hotel)</i>	19:30 - 21:30 h

**Wednesday, October 14, 2015**

• <i>Registration (Bavaria Blu Hotel)</i>	08:00 – 09:30
• <b>Opening Ceremony. Welcome address</b> Chairman: Daniel Scrădeanu	09:30 – 10:00
• <b>Key note lectures</b> Aurel Presură – SC Raja SA Constanta, Deputy Director “SC RAJA SA CONSTANTA – Important operator in the exploitation of groundwater in south-eastern Romania” Nicolae Pitu - SC Raja SA Constanta, Counselor “Short presentation of the aquifers that are being exploited in South Dobrogea and their evolution in the last 50 years”	10:00 – 11:00
<b>Coffee break (11:00 - 11:30)</b>	
<b>Session 1 – Chairmans: A. Witkowski, M. Palcu</b> <b>ANTROPIC PRESURES ON URBAN GROUNDWATER SUPPLY SYSTEMS</b>	
<i>Groundwater abstraction induced seawater intrusion at Liepaja Town, Latvia</i> Aija Delina, Janis Bikse, Inga Retike, Konrads Popovs	11:30 – 11:45
<i>Inverstigation of urban aquifers based on environmental tracers</i> Branka Trcek, A. Leis	11:45 – 12:00
<i>Urban development and its implications over exploitation of groundwater aquifers Upper Jurassic-Lower Kretacic - Case Study Constanta Metropolitan Area</i> Pitu N, Verioti Al	12:00 – 12:15
<i>Groundwater resources in Raciu-Piscu synclitorium from the southern slope of Bucegi mountains for urban systems of Ialomita Valley</i> Istrate Al	12:15–12:30
<i>Groundwater pollution with trichlorethylene in Pipera-Voluntari area, Ilfov county</i> Neagu D	12:30-12:45
<i>Potable water supplying aquifers of Constanta harbor platform (South Dobrogea – Romania)</i> Pitu N, Caraivan G	12:45-13:00
<b>Lunch break (13:00 - 14:00)</b>	

**Session 2 – Chairmans: A. Benderev, A. Iurkiewicz**  
**HYDROGEOLOGICAL RISKS DUE TO URBAN INFRASTRUCTURE**

<i>King Oscar's Road - Urban Hydrological and Hydrogeological 3-D Modelling</i> Kim Rudolph-Lund	14:00 – 14:15
<i>Environmental isotopic study on balneo-therapeutical groundwater from Tuşnad Spas, Romania.</i> Țenu A, Scradeanu D, Popa I, David A	14:15 - 14:30
<i>Dewatering efficiency and groundwater control in urban areas.</i> <i>Case study: Otopeni-Bucharest</i> Scradeanu D, Scradeanu M	14:30 - 14:45
<i>The interference conditions assessment in north-western part of Timisoara Town, in case of operating the production wells with variables flow rates</i> Palcu M, Witek Gh, Mihaela Alexandru	14:45 - 15:00
<i>Specific Aspects of Groundwater Flow and Contaminant Migration Pathways in Loess Deposits</i> Onofrei I, Gheorghiu FI, Borda M, Congiu B	15:00 – 15:15

**Coffee break (15:30 - 16:00)**

**Session 3 – Chairmans: I. Forisz, Branka Trcek**  
**HYDROGEOLOGICAL RISKS GENERATED BY GEOTHERMAL/GEOTHERMIC HEATING/ COOLING SYSTEMS**

<i>Abstraction and use of groundwater for heating buildings in a hard rock urban environment</i> Chambel A, Duque J	16:00 – 16:15
<i>Sustainability of Szentes Geothermal Field operations.</i> Szanyi J, Kovács B, Czinkota I, Nagygál J, Bálint A	16:15 - 16:30
<i>Assessment of hydrogeological conditions and geothermal application in Sofia Municipality (Bulgaria)</i> Hristov VI, Benderev AI, Bojadgieva KI	16:30 - 16:45
<i>Research and promotion of ground coupled heat pump systems in towns and cities throughout Croatia</i> Borović Staša, Urumović K, Terzić J	16:45 - 17:00
<i>The impact of the geothermal heat pumps system in the area of Scientific Research Centre Extreme Light Infrastructure - Nuclear Physics (ELI-NP), Bucharest –Magurele</i> Scradeanu D	17:00 – 17:15
<i>Using analytical solution related to groundwater flow and the propagation of heat in the earth's crust to assess the impact on groundwater of geothermal exchange wells in Magurele area</i> Palcu M, Scradeanu D, Neagu D, Witeck Gh, Stoichiță D, Scradeanu M, Alexandru M	17:15 - 17:30

**Diner (19:30 - 21:30)**

**Thursday, October 15, 2015**

**Session 4 - IAH National Chapters**  
**Chairmans: Teodora Szocs, Antonio Chambel**

(09:00 – 10:30)

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

**Session 5 – Chairmans: Kim Rudolph-Lund, Ruxandra Balaet**  
**URBAN GROUNDWATER AND THE EXPLOITATION OF MINERAL RESOURCES**  
**(MINING ACTIVITY)**

<i>Flash floods, sediments and groundwater aquifer regime at Ocna Mures, Romania</i> Dresmann H, Huggenberger P, Mocuta M, Popa I	11:00 – 11:15
<i>Effects of urbanization and post-mining activity on groundwater quality and resources.</i> <i>Case study: Triassic carbonate aquifer, southern Poland</i> Sitek S, Jakobczyk-Karpierz S, Kowalczyk A	11:15 - 11:30
<i>Oradea-Felix &amp; 1 May spas area: Some new data regarding conceptual model of geothermal hydrostructure</i> Țenu A	11:30 - 11:45
<i>Application of hydraulic tests to minimize the risk of pollution in mining area.</i> <i>Case study - Ocnele Mari, Romania</i> Mocuța M	11:45 - 12:00
<i>Groundwater research in the southern Suhard mountains, Romania</i> Boian V, Witek Gh, Palcu M, Popa I, Scărădeanu D	12:00 – 12:15
<i>Groundwater characteristics in Rosia Montana mining area (Romania)</i> Baciu C, Cozma Al, Olenici A, Brahaita D, Pop Cr, Lazar L, Roba C, Popita G	12:15 – 12:30

*Lunch break (12:30 - 13:30)*

**Session 6 – Chairmans: Popa I, Sitek S**  
**GROUNDWATER VULNERABILITY/RISK MAPPING**

<i>A quantitative evaluation of climate change impact on shallow groundwater conditions in Hungary</i> Kovács A, Tóth Gy, Szócs T, Marton A, Kerékgyártó T, Kun É.	13:30 - 13:45
<i>New approaches to groundwater vulnerability assessment and mapping.</i> Witkowski A	13:45 - 14:00
<i>Preliminary data concerning the dynamics of the geothermal aquifer of Felix – 1 Mai Spa, Bihor County, Romania</i> Oraseanu I, Iurkiewicz A, Malancu Fl	14:00 – 14:15
<i>Groundwater dynamics from the Beius Basin basement and the surrounding mountain areas</i> Orășeanu I	14:15 - 14:30
<i>Transboundary groundwater bodies between Romania and Bulgaria</i> Macalet R, Radu E, Radu C, Neagu D	14:30 - 14:45

*Coffee break (14:45 - 15:15)*

**Final conclusions. Closing session.**  
**Chairmans: Antonio Chambel, Daniel Scradeanu**

16:15 - 17:45

Visit to **Constanța Nord Wastewater Treatment Plant** (walk)

**Banquet (19:30-22:00)**

POSTERS and EXHIBITION STANDS

<u>1</u>	<b><i>Climate impacts upon phreatic aquifers in Dobrogea</i></b> Doina Drăgușin, Lăcrămioara Coarnă, Mihai Rădescu
<u>2</u>	<b><i>Contributions to knowledge of groundwater in Drobeta Turnu Severin municipality area</i></b> Constantin ENACHE, Maria POPESCU, Constantin CÂRLAN
<u>3</u>	<b><i>Land Use impact on Groundwater quality in Prud catchment area within Project DRINKADRIA</i></b> Marina Filipović, Jasmina Lukač Reberski, Tamara Marković, Josip Terzić, Tihomir Frangen, Ivana Boljat
<u>4</u>	<b><i>Some problems on the interaction of the urban environment and groundwater in the city of Sofia</i></b> Stoyanov N, Benderev AI, Petrov V, Ivanov I, Hristov VI
<u>5</u>	<b><i>The evolution of hydro chemical processes between 1976 and 2012 in the economically important aquifers from Southern Dobrogea</i></b> Gabriela STĂNESCU
<u>6</u>	<b>DHI Romania</b> Exhibition stand – software tools for groundwater modeling (FEFLOW, MIKE)
<u>7</u>	<b>C&amp;V WATER Treatment Technologies</b>

Friday, October 16, 2015

9:00 – 17:00 **Field trip** (by bus)

<u>1</u>	<b>Histria</b> – ancient city (around 657 BC); the oldest urban settlement on Romanian territory;
<u>2</u>	<b>Fântânele–Cogealac Wind Farm</b> : the largest wind project in Europe and the seventh biggest wind farm in the world;
<u>3</u>	Geological Reservation “ <b>Cheile Dobrogei</b> ( <i>Dobrogea Gorges</i> )” – Jurassic reef limestone outcrops;
<u>4</u>	“ <b>St. Ioan Casian</b> ” <b>Cave and Monastery</b> – sec. IV AD;
<u>5</u>	<b>Cismea 1</b> and <b>Caragea-Dermen wellfields</b> – oldest water supply of Constanța city.  - LUNCH -