

4th IAH CEG CONFERENCE (Central European Group of IAH)



ON

"TOWARDS SUSTAINABLE MANAGEMENT OF GROUNDWATER RESOURCES"

Danube Gorge (Iron Gate), Donji Milanovac, Serbia
18 - 20 June 2019

Organized by:

International Association of Hydrogeologists
National Chapter of Serbia



IN SCIENTIFIC PARTNERSHIP WITH

University of Belgrade – Faculty of Mining and Geology
Serbian Geological Society



2nd Announcement

**CONFERENCE MANAGEMENT
ORGANIZERS**

**INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS - NATIONAL CHAPTER OF SERBIA
UNIVERSITY OF BELGRADE – FACULTY OF MINING AND GEOLOGY
SERBIAN GEOLOGICAL SOCIETY, KARST COMMISSION**

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Saša Stojadinović

CONFERENCE TOPICS

1. Water supply and sustainable groundwater management
2. Groundwater protection
3. Karst and fractured-rock hydrogeology
4. Mineral waters and geothermal energy

PRELIMINARY PROGRAM – 19 June 2019, Donji Milanovac, Visitor Centre of Djerdap National Park

	REGISTRATION	08:00-08:30
	CONFERENCE OPENING, WELCOME NOTE AND PRESENTATION	08:30-09:30
1.	<i>Aleksandra Maran Stevanović</i> – Geoheritage of Djerdap area - An aspiring UNESCO geopark	08:30-08:45
	KEY PRESENTATIONS	
1.	<i>Petar Milanović</i> – Dams - Geological Risk and Environmental Impact	08:45-09:00
2.	<i>Zoran Stevanović</i> – Geology and hydrogeology of Carpathian-Balkanides of Serbia – An overview	09:00-09:15
3.	<i>Veselin Dragišić, Vladimir Živanović</i> – Geological and hydrogeological characteristics of Djerdap area	09:15-09:30
	<i>Coffee break</i>	
	Session 1 – Topics 1 & 3	10:00-11:50
1.	A new regional conceptual model on the hydrogeology of Southern Dobrogea based on seismic surveys and hydro-geological data revisiting <i>Iulian Popa, Marius Mocuța, Adrian Iurkiewicz</i>	10:00-10:10
2.	Groundwater drought – case study from Dravsko Ptujsko polje <i>Mihael Brenčić, Simona Adrinek</i>	10:10-10:20
3.	Management of the phreatic aquifer resources in the Buzău area, Romania <i>Valentina Adriana Manea, Daniel Scărădeanu</i>	10:20-10:30

4.	Needs for better monitoring and studying of groundwater in Cijevna transboundary river basin (Montenegro – Albania) <i>Momčilo Blagojević</i>	10:30-10:40
5.	Microbial water quality indicators monitoring at Buzgó karstic spring in Slovenský kras Mts. (West Carpathians) <i>Peter Malík, Peter Bajtoš, Alexandra Vasilenková, Juraj Michalko, Jaromír Švasta, Natália Bahnová</i>	10:40-10:50
6.	The catastrophic decline of Prespa Lake level and lakeside karst phenomenon <i>Romeo Eftimi</i>	10:50-11:00
7.	Post mining hydrodynamics of the karst aquifers in Kizel coal basin (the West Urals, Russia) <i>Petr Rybnikov, Liudmila Rybnikova, Nikolay Maksimovich</i>	11:00-11:10
8.	Influence of reservoir and dam utilization on karst aquifer behavior - Example of Bilečka reservoir (Trebinje, Bosnia and Herzegovina) <i>Saša Milanović, Ljiljana Vasić</i>	11:10-11:20
9.	Hydrogeochemical pathways of the karst-fissured aquifer system, Pirot (Serbia) <i>Marina Ćuk, Jemcov Igor, Todorović Maja, Mladenović Ana</i>	11:20-11:30
10.	Groundwater turbidity dynamics in karst hydrogeological system. Case study: Suva planina Mt., SE Serbia <i>Branislav Petrovic, Veljko Marinović</i>	11:30-11:40
11.	Stylolites: when they became conduits for fluid pathway? <i>Silvana Magni</i>	11:40-11:50
Coffee break and Poster session I		
Session 2 – Topics 2 & 4		12:30-14:30
1.	Delineation of protection zones in karst aquifers: A case study from Epirus area, NW Greece <i>Konstantinos Voudouris, Nerantzis Kazakis</i>	12:30-12:40
2.	Drinking water protection through efficient land use practices – South Dalmatia case study <i>Matko Patekar, Jasmina Lukač Reberski, Ivana Boljat, Ivona Baniček, Ana Selak, Josip Terzić, Josip Rubinić</i>	12:40-12:50
3.	Protection of mineral groundwater resources in Harghita County, Romania <i>Liviu Nicolae</i>	12:50-13:00
4.	Vulnerability assessment and mapping in relation to climate change - Kupa River catchment <i>Ana Selak, Ivana Boljat, Josip Terzić, Ivona Baniček, Matko Patekar, Jasmina Lukač Reberski, Josip Rubinić</i>	13:00-13:10
5.	Use of a process-based method to assist mineral water resource protection - case of hazardous threatens in Sanraieni -Ciuc area, Romania <i>Iulian Popa, Adrian Iurkiewicz, Danchiv Alexandru, Adrian Feru</i>	13:10-13:20
6.	The origin of ammonia in carbonated mineral waters and its underground transport in the north-eastern part of Eastern Carpathians <i>Marin Palcu, Gheorghe Witek</i>	13:20-13:30
7.	Understanding and importance of rare earth elements in hydrogeological systems <i>Maja Todorović, Marina Ćuk, Jana Štrbački, Petar Papić, Igor Jemcov</i>	13:30-13:40
8.	Benchmarking methodology to foster energy production efficiency <i>Teodóra Szócs, Nina Rman, Milankovic Darko, Tamara Marković, Ágnes Rotár-Szalkai, János Szanyi, Andrej Lapanje, Nóra Gál, Natalija Samardžić, Anca-Marina Vijdea, Dejan Milenić, László Ádám, Annamária Nádor</i>	13:40-13:50
9.	Chemical and isotopic characteristics of thermal waters in northwestern part of Croatia <i>Tamara Marković, Dragana Šolaja, Ozren Larva</i>	13:50-14:00

10.	The largest geothermal investment by PannErgy in NW Hungary <i>Attila Csaba Kovács, M. Pelczéder Ágnes, Hegedűs Endre, Prohászka András, Fancsik Tamás, Csabafi Róbert, Gúthy Tibor</i>	14:00-14:10
11.	Geothermal resources of Serbia <i>Tanja Petrović Pantić, Milan Tomić, Katarina Atanasković Samolov</i>	14:10-14:20
12.	Well-logging in thermal wells and boreholes <i>András Prohászka, Gábor Szongoth, Attila Csaba Kovács, György Bernáth</i>	14:20-14:30
Coffee break and Poster session		
Posters session II		14:30-15:15
1.	Transport of pharmaceuticals in coarse gravel unsaturated zone <i>Anja Koroša, Nina Mali, Mihael Brenčič</i>	
2.	An interdisciplinary approach to understanding high nitrate concentrations in the Varaždin alluvial aquifer <i>Igor Karlović & Tamara Marković</i>	
3.	Impact of climate characteristics on groundwater in Posavina (Serbia) <i>Milan Tomić, Katarina Atanasković Samolov, Tanja Petrović Pantić</i>	
4.	Preliminary results of the physico-chemical and hydrochemical monitoring in karst springs of North Peloponnese <i>Eleni Zagana, Eleni-Anna Nanou & Konstantinos Perdikaris</i>	
5.	CHPM2030 – An innovative geothermal project of the European Union’s Horizon 2020 <i>Zoran Stevanović et al.</i>	
6.	UNEXMIN Project: An Autonomous Underwater Explorer for Flood Mines – Goals, Status, Perspectives <i>Nebojša Atanacković, Veselin Dragišić, Vladimir Živanović</i>	
7.	Metagenomic microbiome analyses of naturally carbonated mineral water from Lomnički Kiseljak, Serbia <i>Vladimir Šaraba, Olja Stanojević, Ivica Dimkić</i>	
8.	How does the dissolution kinetics affect the evolution of the solution pipes? <i>Silvana Magni, Piotr Szymczak</i>	
9.	Chemical and isotopic composition of groundwater in geothermal borehole PVGT-LT1 (Litomerice, Czech Republic): general implication of organic additives in drilling fluid <i>Jaroslav Řihošek, Lenka Rukavičková, Jan Holeček, Jiří Burda, Oldřich Myška, Jan Čuřík</i>	
10.	Metagenomic microbiome analyses of saline mineral water from Slankamen Banja, Serbia <i>Vladimir Šaraba, Olja Stanojević, Ivica Dimkić</i>	
BOAT TRIP		15:30-17:30

EXCURSION

Pre-conference excursion as a part of Geo Trip through Carpathian karst of Serbia and Romania organized by the Karst Commission of IAH, will take place on 18.06.2019. The trip comprises visit of stone bridge Valja Prerast, Rajkova Cave, a few geological sections and famous archaeological site of Lepenski Vlr.

Post-conference excursion (20.06) will include visit to Golubački grad fortress on Danube and Viminacium Roman Limes military camp archeological site. Excursion will start from Donji Milanovac by bus/car on way back to Belgrade).

Additional information is available at a web site <http://www.karst.edu.rs/en/>.

VENUE

The Conference will be held in Hotel Lepenski Vir, Donji Milanovac, Serbia and in Visitor Centre of National Park Djerdap in Donji Milanovac.

ACCOMMODATION

The CEG participants should contact directly Hotel Lepenski Vir (Donji Milanovac) where number of rooms are reserved under discount prices. Link: LEPENSKI VIR AD, e-mail: lepenskivir@mts.rs, tel. +381 20 56466302

REGISTRATION FEE

At registration desk opened on 17 June and 18 June from 6 PM in the hotel, or on 19 June in Visitor Centre from 8 AM.

Payments must be in cash.

IAH member	80 €
Non-member	100 €
Student IAH member	40 €
Student	50 €
Accompanying Person	50 €

Registration fee includes admittance to all sessions, Book of abstracts, refreshments, conference banquet and boat trip with catering, tickets.

Registration fee does not include: Gala dinner (**20 €**), and pre- and post- conference excursions (**20 + 20 €**) also payable at registration desk in cash. The accommodation is payable directly to the hotel.

FOR ADDITIONAL INFORMATION PLEASE CONTACT CONFERENCE SECRETARIAT

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OR VISIT CONFERENCE WEBSITE

<http://www.karst.edu.rs/en/>