

"Characterization and Engineering of Karst Aquifers"

CEKA 2023

By

Centre for Karst Hydrogeology – CKH and
Geological Survey of Republic of Srpska – GSRS

Tentative schedule of the 10th CEKA 2023 to be held in Trebinje, Bosnia & Herzegovina from 29 May to 04 June 2023

Day	Activity	
28 May	Arrival to Trebinje	
29 May	Opening ceremony and Celebration of 10 years of CEKA and 15 years of CKH (HET*)	
	9:00 -10:00 Registration 10:00 – 11:00 Welcome speech Saša Milanović Zoran Stevanović Representative of Geological Survey of Republika Srpska – Cvijetko Sandić Representative of HET – Gordan Mišeljić Representative of Trebinje Municipality – Dragoslav Banjak 11:00 – 12:30 Invited speakers 11:00 – 11:30 - Petar Milanović <i>Karst Istočne Hercegovine</i> 11:30 – 12:00 – Augusto Auler <i>Karst Hydrogeology Applied to Oil Reservoirs</i> Welcome Cocktail party in Atrium of HET Headquarters	
30 May	CEKA – Lectures (HET)	
9:00 – 10:30	Historical development of karstology and karst hydrogeology and karst distribution worldwide Porosity and permeability of karstic rocks; Groundwater circulation in karst: recharge, flow types and directions, discharge	Z. Stevanović
10:30– 10:45	Coffee break	
10:45– 12:15	Methods in karst hydrogeology – an overview; geology, remote sensing, geophysics, water points inventory, groundwater tapping, hydrogeological properties and field tests	Z. Stevanović
12:15– 14:00	Lunch Break	

14:00-15:30	Spring hydrology: catchment delineation, inventory, assess, manage springs ecosystems	A. Springer
15:30– 15:45	Coffee break	
15:45-17:15	Specific investigation and research techniques of complex karst systems as a base for hydrotechnical construction and remediation problems in karst - monitoring, tracing tests, speleodiving, spatial modeling etc	S. Milanović
31 May	CEKA – Lectures (HET), Half day field trip	
09:30– 11:00	Problems related to construction of dams, reservoirs and other structures and buildings in karst; Investigation, design, corrective measures, case studies.	P. Milanović
11:00-15:00	Half-day field trip to Grančarevo and Gorica dams, and intake for water supply of Trebinje (“Oko” spring)	Guided by: P. Milanović
15:00-16:30	Lunch Break	
16:30-17:45	Presentation on the HE system Trebišnjica; DVD movie “Trebišnjica” waters. Other movies and case studies, Discussion	
01 June	One-day field trip and seminar	
9:30-17:30	All-day excursion: Klinje dam, Cerničko polje and Ključka River (Surface flow of only 300 m from karst spring in Vilina pećina cave to ponor of Ključka River). Fieldwork demonstrations: Hydrometry, Tracer tests, Borehole logging, Physico-chemical measurements...	Guided by: S. Milanović, A. Springer, Lj. Vasić, B. Petrović, V. Marinović, P. Vojnović
02 June	CEKA – Lectures (HET)	
9:00-10:30	Natural tracers and natural responses of springs: monitoring strategies and hydrogeochemical and isotopic approaches to characterize the functioning of karst aquifers	Matías Mudarra Martínez
10:30-10:45	Coffee break	
10:45-12:15	Karst geomorphology and speleology related to karst evolution, hydrogeological processes and climate change	A. Auler
12:15-14:00	Lunch Break	

14:00-15:15	Mining hydrogeology in complex karst systems - related to tailings, waste dumps, water supply etc.	D. Evans
15:15-16:30	Transboundary aquifers in karst: specifics, challenges and experience	N. Kukurić
16:30-16:45	Coffee break	
16:45-18:00	Modeling of karst aquifer – Springs hydrograph analysis and stochastic models	V. Ristić Vakanjac
03 June	All-day excursion to Eastern Herzegovina karst area	
9:30-17:30	All-day excursion to Eastern Herzegovina karst area: Visiting of the Vjetrenica cave, Buna karst spring, Mostar, Karst poljes: Popovo, Dabarsko and Fatničko. Bileća reservoir	
04 June	Exam, Farewell party	
9:30 – 13:00	Exam: Written test and verbal discussion (Mandatory for Master students of FMG)	S. Milanović Lj. Vasić Z. Stevanović B. Petrović V. Marinović P. Vojnović V. Ristić Vakanjac
14:00-15:00	The end of the course and closing ceremony with awarding of Certificates	
20:00 - ?	Farewell party (Restaurant “Studenac”)	
05 June	Leaving of Trebinje	

***HET – Hydro-Energy System of Trebišnjica, Obala Luke Vukalovića 2, Trebinje**