

## **Catchment and river processes in regional hydrology: coupling experiments, remote sensing, citizen science and modelling**

9<sup>th</sup> International conference, 03 December 2020

### **ORGANIZERS:**

Slovak University of Technology in Bratislava, Slovakia (SUT)  
University of Sopron, Hungary (UoS)  
Vienna University of Technology, Austria (TUW)  
Vienna Doctoral Programme on Water Resource Systems  
University of Natural Resources and Life Sciences, Vienna, Austria (BOKU)

### **VENUE:**

Online – MS Teams

### **CONFERENCE CHAIRS**

Ján Szolgay                      Slovak University of Technology in Bratislava, Bratislava, Slovakia  
Zoltán Gribovszki              University of Sopron, Sopron, Hungary  
Günter Blöschl                  Vienna University of Technology, Vienna, Austria  
Karsten Schulz                  University of Natural Resources and Life Sciences, Vienna, Austria

### **INTERNATIONAL SCIENTIFIC COMMITTEE:**

Pavol Miklánek                  Institute of Hydrology of SAS, Bratislava, Slovakia  
Ladislav Gaál                      MicroStep-MIS, Bratislava, Slovakia  
Csaba Mátyás                      University of Sopron, Sopron, Hungary  
János Míka                          Eszterházy Károly University, Eger, Hungary  
Juraj Parajka                      Vienna University of Technology, Vienna, Austria  
Kazimierz Banasik              Warsaw University of Life Sciences, Warsaw, Poland  
Milan Kalaš                          Join Research Centre, Ispra, Italy  
Peter Molnár                        ETH Zürich, Zurich, Switzerland

### **ORGANISING COMMITTEE AND PROCEEDINGS EDITORS:**

Kamila Hlavčová                  Slovak University of Technology in Bratislava (kamila.hlavcova@stuba.sk)  
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Call for abstracts, leaflet: 20 July 2020

Deadline for abstracts: 21 September 2020

Abstract acceptance: 30 November 2020

Programme (ready): 01 December 2020

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## PROGRAMME OVERVIEW:

Date	Time	Programme
3 Dec. 2020		
	09:00 - 09:15	Opening: Zoltán Gribovszki, Günter Blöschl
	09:15 - 09:45	Solicited oral presentation: Szilágyi Jozsef Chairman: Zoltán Gribovszki
	09:45 - 10:05	1 <sup>st</sup> Block - Oral presentations (P1 – P6) Chairman: Silvia Kohnová
	10:05 - 10:20	Discussion after 1 <sup>st</sup> Block
	10:20 - 10:45	2 <sup>nd</sup> Block - Oral presentations (P7 – P14) Chairman: Péter Kalicz
	10:45 - 11:00	Discussion after 2 <sup>nd</sup> Block
	11:00 - 11:20	3 <sup>rd</sup> Block - Oral r presentations (P15 – P21) Chairman: Kamila Hlavčová and Karsten Schulz
	11:20 - 11:35	Discussion after 3 <sup>rd</sup> Block
	11:35	Closure, Jan Szolgay

## Detailed Programme, 03 December 2020

**09:15 - 09:45** Solicited oral presentation

Chairman: Zoltán Gribovszki

Jozsef Szilágyi

Recent developments in estimating large-scale terrestrial evaporation with minimal data

**09:45 - 10:05** 1<sup>st</sup> Block - Oral presentations (2 - 3 min)

Chairman: Silvia Kohnová

<i>Nr.</i>	<i>Author</i>	<i>Title</i>
P1	Jakub Mészáros (IH SAS, TUW)	Mean annual totals of atmospheric precipitation with respect to cyclonic situations in the Slovak parts of the Carpathian Mountains and Pannonian Plain
P2	Miroslav Kandra (SUT)	An application of Water Evaluation And Planning (WEAP): a solution for specific problems in the structural design of a water balance model
P3	Klaudia Négyesi and Eszter Dóra Nagy (BME)	Comparison of different hydro-meteorological data for event-based hydrological modelling
P4	Eszter Dóra Nagy and Jozsef Szilágyi (BME)	Comparative analysis of catchment response times and their definitions using measured and re-analysis rainfall data
P5	Gábor Keve (Baja)	Fluvial ice recognition by webcams
P6	Csenge Nevezi et al. (USo)	Hydro-meteorological data analysis in the Hidegvíz valley experimental catchment between 2017-2020

**10:05 - 10:20** Discussion after 1<sup>st</sup> Block

Chairman: Silvia Kohnová

**10:20 - 10:45** 2<sup>nd</sup> Block – Oral presentations (2 - 3 min)

Chairman: Péter Kalicz

<i>Nr.</i>	<i>Author</i>	<i>Title</i>
P7	Borbála. Széles et al. (TUW)	Linking field observations with hydrological model simulations in a small catchment
P8	Rui Tong at al. (TUW)	Assessing the use of ASCAT soil moisture and IUODIS snow cover maps for the calibration of the TUWmodel
P9	Firas Alsilibe and Katalin Bene (TUW)	Evaluation of the SWAT Model for simulating streamflow in the Cuhai-Bakonyér watershed, Hungary
P10	Ali Almalla and Katalin Bene (TUW)	Hydrological modeling of The Gaja catchment using a GR4J lumped conceptual model
P11	Adam Brziak and Martin Kubáň (SUT)	The parameter variances and calibration efficiencies of the two HBV types models
P12	Gergely Ámon and Katalin Bene (USz)	Impact of uncertainty about parameters on flash flood predictions in two ungauged Hungarian watersheds
P13	Marija Mihaela Labat and Gabriel Földes (SUT)	Impact of land use and climate change on design floods in selected river basins in Slovakia
P14	Miriam Bertola (TUW)	Investigating the causes of changes in flood quantiles across Europe during the past five decades

**10:45 - 11:00** Discussion after 2<sup>nd</sup> Block

Chairman: Péter Kalicz

**11:00 - 11:20** 3<sup>rd</sup> Block - Oral presentations (2 - 3 min)

Chairman: Kamila Hlavčová and Karsten Schulz

<i>Nr.</i>	<i>Author</i>	<i>Title</i>
P19	Cyril Siman (IH SAS)	The main sources of the emissions of total phosphorus and total nitrogen in the surface streams of Slovak river catchments
P16	Máté Katona et al. (USo)	Effects of urbanism on the soil of watercourses in the area of Kaposvár (Southwestern Hungary)
P17	Timea Petrová (SUT)	Reducing the negative microclimatic properties of the urban structure by restoring the resilience of the synanthropic and cultural greenery elements
P18	Zuzana Sabová et al. (SUT)	Assessment of the landscape of a small water reservoir with an evaluation of water quality indicators
P15	Viktória Tyukosová (SUT)	Assessment of the impact of anthropogenic changes, and fragmentation of forest stands on the quality of riverbanks
P20	Gréta Doláková (SUT)	Aquatic habitat quality of regulated streams
P21	Előd Szőke (USo)	Water supply impact on a wood pasture hydrology near Kőszeg (Hungary)

**11:20 - 11:35** Discussion after 3<sup>rd</sup> Block

Chairman: Kamila Hlavčová and Karsten Schulz

**11:35**

**Closure**