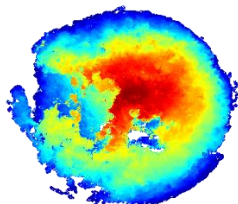


3rd Workshop on soil physics and landscape hydrology – Desná 2021



6. – 8. 10. 2021

Form:

Workshop will be held physically and online via MS Teams. The link for online participants will be distributed on Thursday morning.

Each participant is asked to prepare 5 - 10 minutes long presentation after which a discussion will follow. Presentations will be given, preferably, in English.

Online participants can connect and disconnect anytime according to their interest and availability.

In schedule if there is written (O) next to the speaker name represent that the speaker will be connected online

Program:

Thursday

10:50 - Introduction by David Zúmr

BLOCK 1 11:00 -12:45

- Adam Tejkl - Advancements in use of machine learning for erosion rill identification
- Tomáš Laburda - Soil erosion and photogrammetry
- Martin Neumann - CTU's Rainfall Simulators Journey
- Break for 15 minutes
- Jakub Stašek - Řisuty experimental area - 6 years of experiments overview
- Jakub Jeřábek - Agronomical operations affects SWC dynamics and new instrumentation in Nučice catchment
- Aswin Kumar Ilango (O) – Analytical chemistry and soils

12:45 – 13:45 Lunch break

BLOCK 2 13:45 – 15:30

- Josef Krása - Vrchlice watershed history and Risuty results summary
 - Julie Winterová - WaTEM/SEDEM calibration on Vrchlice watershed
 - Jan Devátý - E3D - from experiment to parameters catalog
- Break for 15 minutes
- Martina Sobotková - Experimental research of freezing water in porous media - new project
 - Tailin Li (O) - The soil moisture dynamics at the Nučice catchment
 - Raquel Falcao (O) – Background for the soil degradation analysis – Tudi project

BLOCK 3 16:00 – 17:45

- Jan-František Kubát - Analysis of soil aggregates and their stability measured by laser diffraction method
 - Alessandro Fabrizi - Assessing plastic input from mulching using remote sensing techniques
- Break for 15 minutes
- Nina Noreika (O) - Using SWAT to Model the Czech Landscape
 - Petr Kavka - Small catchments, rainfall data

18:00 – 20:00

open discussion (physical participants only)

Friday

BLOCK 4 9:30 – 11:15

- Saunak Sinha Ray – Introducing of SOPLAS project
 - Luděk Strouhal (O) - New Czech Soil Datasets
 - Tomáš Princ - Entrapped air in pore-network modelling
- Break for 15 minutes
- Míra Bauer (O) - WaTEM/SEDEM in Tennessee, USA / Beaver in South Moravia - GIS techniques
 - Barbora Jáchymová (O) - Modelling the significance of phosphorus sources for the Elbe River Basin - progress, new data
 - David Zumr - Dynamics of topsoil properties after a fire – experiment in Řisuty

11:15 Closing remarks by organizers – David Zumr