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4th International conference

Catchment processes in regional hydrology: from plot to regional scales – monitoring catchment processes and hydrological modelling

Vienna, 27 October, 2016

Organizers:

- Vienna University of Technology, Austria;
- Slovak University of Technology in Bratislava;
- University of West Hungary, Sopron, Hungary;
CONFERENCE TOPICS

Studying the interactions between hydroclimatic and socioeconomic drivers and hydrological environments from plotting to regional scales is an essential prerequisite for the successful understanding and modelling of hydrological processes in catchments and addressing practical water resources management problems. Confrontations of plot, hillslope and catchment experiments with the results from process modelling help us to respect the complexity and multiscale nature of the interactions between the drivers and runoff generation in comparative and regime studies.

The utilization of new data sources is helpful in the study and generalization of hydrological regimes, both locally and regionally, and has therefore continuously attracted the attention of the hydrological community in recent years. The increasing availability of data and its assimilation into hydrological models based on the latest developments in radar meteorology, geophysics, experiments on hillslopes, and tracer studies in catchments has given hydrologists the opportunity to critically examine process representations in hydrological catchment models and evaluate and compare different models of the same type (e.g., distributed) or different types of models (e.g., distributed vs. lumped, process-based vs. conceptual) on plot, hillslope and regional scales. This activity has supported better process representations in hydrological models in diverse environments and enabled more reliable predictions in ungauged basins as well. Against this background, this conference series continues to welcome contributions on local and regional Carpathian hydrology focusing on the following issues:

- Presentation of results from plot, hillslope and catchment experiments.
- Confrontation of hydrological hillslope and catchment models with new types of data.
- Comparisons of similar as well as different model types (conceptual, process-based, distributed, lumped) in the catchments of the broad region of the Carpathians.
- Regionalisation and generalisations of hydrological regimes on various temporal and spatial scales using new data and increased process knowledge.
- Applications of models and model ensembles for improved predictions: impacts of land use and climate change on the water cycle of the Carpathians.

ORGANISATION

The conference will include both oral and poster presentations. Each session will benefit from the participation of an invited speaker. The oral sessions will be organised around the main conference topics. The oral contributions will be selected by the conveners for the presentations of the state-of-the-art research. Special discussion rounds will be scheduled after each of the sessions. The official language of the conference will be English.

PRELIMINARY SCHEDULE AND DEADLINES

Call for abstracts: 31st July 2016
Call for abstracts closure: 15th September 2016
Paper submission deadline: 30th September 2016
Conference: 27th October 2016

GUIDELINES FOR CONTRIBUTION

Prepare an abstract in your favorite text editor. Your abstract should contain the following units, separated by a blank line, strictly in the same order: title, name of author(s), affiliation of author(s), corresponding author e-mail address and the abstract text up to 180 words. Please submit your abstract as an e-mail attachment no later than 15th September 2016 to hydrocarpath@nyme.hu. The e-mail message to which you attach your abstract should contain the subject line: “Abstract submission”. Confirmation letter of abstract which includes the instructions for proceedings paper will be sent to the corresponding author via e-mail.

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