

5th International Conference "HYDRUS Software Applications to Subsurface Flow and Contaminant Transport Problems, Prague, 2017

Introduction

5th International Conference "HYDRUS Software Applications to Subsurface Flow and Contaminant Transport Problems"

March 30-31, 2017.

Prague, Czech Republic

Organized by:



Aims and Scope

The Conference “HYDRUS Software Applications to Subsurface Flow and Contaminant Transport Problems” will focus on applications of advanced numerical models simulating variably-saturated flow, heat transport, and transport of various contaminants (nutrients, pollutants, pathogenic organisms) in soils and groundwater. Similarly as the very successful earlier workshops in this series (Utrecht in 2006, Prague in 2008, Tokyo in 2008, and Prague 2013) the 5th conference will bring together world-leading and junior scientists and engineers from different branches of the soil, hydrologic, and environmental communities.

The conference is not limited to applications involving the use of HYDRUS and its modules. Applications of other numerical tools (e.g., Tough2, SWAP, MACRO) are encouraged and welcomed also.

Topics

1. **Variably-Saturated Water Flow**
Modeling of various agricultural, hydrologic, and environmental problems at different scales, including preferential/nonequilibrium flow.
2. **Heat Transport**
Modeling the transport of energy, including vapor flow, and issues related to freezing/thawing.
3. **Transport of Contaminants and Particle-Like Substances**
Transport of pollutants, colloids, viruses, bacteria, and nanoparticles. Colloid-facilitated solute transport.

4. **Biogeochemical Transport and Reactions**

Applications of the HYDRUS modules HP1/2/3, UnsatChem, C-Ride, DualPerm, and Wetlands, as well as other models with similar capabilities.

5. **Inverse Problems**

Inverse modeling and parameter estimation using different optimization tools (e.g., Marquardt, AMALGAM, DREAM).

Conference Conveners

Rien van Genuchten, Federal University of Rio de Janeiro, Brazil
Jirka Šimůnek, University of California Riverside, USA
Radka Kodešová, University of Life Sciences, Prague, Czech Republic
Miroslav Šejna, PC-Progress, Prague, Czech Republic
Diederik Jacques, SCK•CEN, Belgium
Günter Langergraber, BOKU, Vienna, Austria

Local Organizing Committee

Radka Kodešová, University of Life Sciences, Prague, Czech Republic
Miroslav Šejna, PC-Progress, Prague, Czech Republic
Contact: Kodesova@af.czu.cz

Call for Abstracts

Authors are invited to submit a one-page abstract for oral or poster presentation by email (to Jiri.Simunek@ucr.edu). Please underline the name of the presenting author, specify the topic, and indicate preference for presentation (oral or poster). Authors will be notified of acceptance of the reviewed abstract before January 31, 2017. Full papers are required before the event and will be published in the **Conference Proceedings**.

Deadline for abstract submission: January 31, 2017

Proceedings

A book of abstracts will be distributed to the participants at the beginning of the conference. Proceedings with the full papers in electronic form (open access) will be distributed to the participants after the conference (after the papers are edited and formatted for uniformity by the proceedings editors).

Registration info

Registration fees:

Early registration (before January 31 2017): **200 EUR** (100 EUR when also registering for the short course).

Student registration (requires proof of enrollment) (before January 31 2017): **100 EUR**

Late registration (after February 1 and before March 20 2017): **275 EUR** (100 EUR when also registering for the short course).

The fee includes coffee breaks, lunches, welcome reception, the booklet of abstracts, and a social event. A confirmation (including an invoice for the registration fee) will be sent to the participants.

Registration form available on December 1, 2017

Program

Available January 31, 2017

Hotel & Travel info

Since hotels require Credit Card information for booking, the organizers cannot arrange accommodations for the participants. However, we suggest the following hotels close to CULS (Czech University of Life Sciences).

Hotel **WIENNA – GALAXIE**, situated in the villa quarter of Prague–Suchdol is recommended. The hotel has been refurbished completely in a luxurious fashion and provides 150 rooms. There is a Prague local transport bus stop in front of the hotel complex. From there, buses no. 107 and 147 run daily to Dejvická Metro Station on line A of the Prague Metro. For detail information and contact see: <http://www.hotelwienna.cz/index.php?lang=4>.

Hotel **Penzion JaS**, situated partly in the villa quarter of Prague–Suchdol is a small but cozy hotel (providing 40 beds). There is a Prague local transport bus stop in front of the hotel complex. From there, buses no. 107 and 147 run daily to Dejvická Metro Station on line A of the Prague Metro. For detail information and contact see: <http://www.penzionjas.cz/>.

VISA

Please kindly note that you are responsible to ensure that all entry requirements for the Czech Republic are fulfilled.

Please take all necessary steps to obtain a visa, if necessary.

Participants receive a confirmation of the registration by email, which can be used a part of the visa application package.

Organizers cannot help you in obtaining a visa.

Venue

University of Life Sciences, Prague, Czech Republic