

Hydrology Seminar

(Seminar für Hydrologie)

Wednesday, 13th November 2013, 9.00 – 16.15 Uhr
ETH Zentrum, MM C78.1 (GEP Alumni Pavillon)

Oral programme

9:00	Paolo BURLANDO <i>Hydrology and Water Resources Manag., IfU ETH Zurich</i>	Welcome
9:05	Jan RAJCZAK <i>Climate and Water Cycle, IAC ETH Zurich</i>	Projections of extreme precipitation events in regional climate simulations for Europe and the Alpine region
9:30	Lukas GUDMUNDSSON <i>Land-Climate Dynamics, IAC ETH Zurich</i>	Do land parameters matter in large-scale terrestrial water dynamics?
9:55	Maria STAUDINGER <i>Hydrology and Climate, Dept. of Geography, Univ. of Zurich</i>	Quantifying sensitivity to droughts – a modelling experiment
10:20	<i>Coffee break / Posters</i>	
10:50	Christoforos PAPPAS <i>Hydrology and Water Resources Manag., IfU ETH Zurich</i>	Spatial representation of vegetation dynamics: the role of local climate, topography, and initial conditions
11:15	Franziska MÖBIUS <i>Soil and Terrestrial Environmental Physics, ITES, ETH Zurich</i>	Pore scale characterization of the displacement front dynamics in porous media: Interfacial jumps, pressure bursts and acoustic emissions
11:40	Xiaohai ZHOU <i>Groundwater and Hydromechanics, IfU, ETH Zurich</i>	Numerical analysis of thermal behaviour at degrading mountain permafrost
12:05	<i>Lunch break and Posters</i>	
13:45	Behnam DOULATYARI <i>Hydrogeology, Dept. Water Resources and Drinking Water, EAWAG</i>	River flow regimes and vegetation dynamics along a river transect
14:10	Carlos WYSS <i>Mountain Hydrology, WSL</i>	Estimating bedload grain size from the Swiss plate geophone system
14:35	<i>Coffee break / Posters</i>	
15:05	Dirk RADNY <i>Hydrogeology, Dept. Water Resources and Drinking Water, EAWAG</i>	Using flood water for artificial groundwater recharge to dampen flood peaks and droughts – Investigations in the Thur catchment (Switzerland)
15:30	Linwei HU <i>Engineering Geology, Geological Institute, ETH Zurich</i>	A numerical study of hydraulic tomography for characterizing a CO ₂ plume in a deep saline aquifer
15:45	Jaime RIVERA <i>Engineering Geology, Geological Institute, ETH Zurich</i>	Observations and Simulations of Subsurface Urban Heat Islands
16:00	<i>Concluding remarks</i>	
16:15	<i>Closure</i>	

Posters

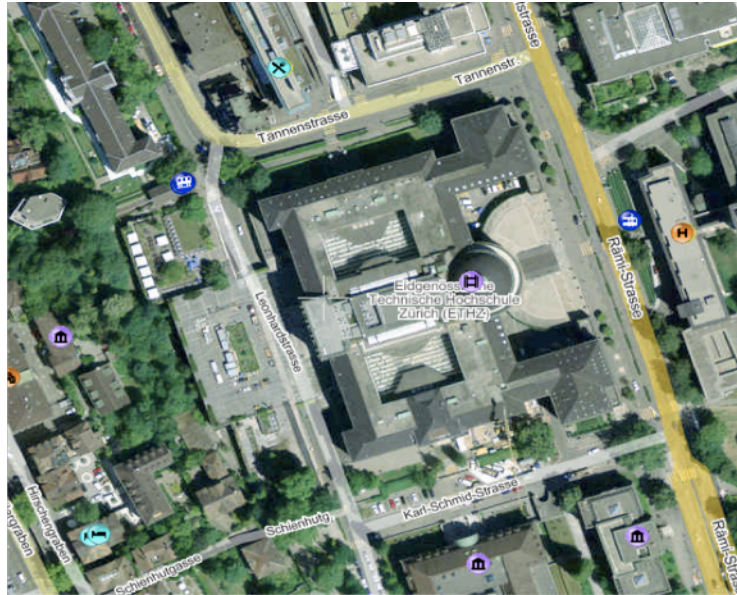
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| 1 | Stefano BASSO
<i>Hydrogeology, Dept. Water Resources and Drinking Water, EAWAG</i> | Small run-of-river hydropower: Tradeoff among energy production, profitability and hydrologic impact |
| 2 | Silviya NIKOLOVA
<i>Hydrology and Climate, Dept. of Geography, Univ. of Zurich</i> | Robustness of low and high flow simulations under contrasted climate conditions |
| 3 | Erfan HAGHIGHI
<i>Soil and Terrestrial Environmental Physics, ITES ETH Zurich</i> | Surface thermal signatures of turbulent evaporative fluxes |
| 4 | Linfeng FAN
<i>Soil and Terrestrial Environmental Physics, ITES ETH Zurich</i> | Hillslope Mechanical Damage History Affects Characteristics of Rainfall-induced Landslide Triggering |
| 5 | Florian HEIMANN
<i>Mountain Hydrology, WSL</i> | Impact of climate change on the brown trout in the Kleine Emme mountain river |
| 6 | Matthias SPEICH
<i>Mountain Hydrology, WSL</i> | Exploring the Use of Bivariate Mapping for Classification and Visualization of Hydrological Data |
| 7 | Philipp SCHNEIDER
<i>Hydrology and Climate, Dept. of Geography, Univ. of Zurich</i> | Development and evaluation of a water level proportional water sampler |
| 8 | Heidi MITTELBACH
<i>Land-Climate Dynamics , IAC ETH Zurich</i> | Comparison of soil moisture dynamics across different land covers |
| 9 | Nadine NICOLAI-SHAW
<i>Land-Climate Dynamics , IAC ETH Zurich</i> | Representativeness of soil moisture at different scales using remote sensing data |
| 10 | Rene ORTH
<i>Land-Climate Dynamics , IAC ETH Zurich</i> | Using soil moisture forecasts for sub-seasonal summer temperature predictions in Europe |

Organisation: Chair of Hydrology and Water Resources Management, IfU, ETH Zurich

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Posters can be setup from 8:30

Presentations are expected to be 20' + 5' for Q&A

Venue**Polybahn****GEP Pavillon****Hauptgebäude ETH**