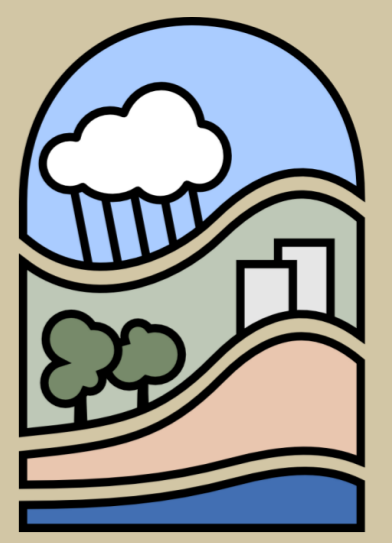


International Conference On Integrated Hydrosystem Modelling



Programme

Tuesday, 3 April 2018

Welcome and Introduction

14:00 **Welcome & Introducing Remarks**
Olaf Cirpka, University of Tübingen

Topic I: How Important is Realistic Geology in Hydrological Modelling?

14:30 **Does Geological Realism of Heterogeneous
Aquifers Pay Off?**
Philippe Renard, University of Neuchâtel

Coffee Break

16:00 **Accounting for Geological Uncertainty in
Subsurface Modelling**
Florian Wellmann, RWTH Aachen

17:00 **Can Hydrogeological Models Work without
Geology?**
*Jesus Carrera, IDAEA, Spanish National Research
Council*

Wednesday, 4 April 2018

Topic II: Controls of Reactive Transport on Scales Relevant for Management

09:00 **Wrestling with Recharge: Quantifying
Surficial Mass Flux for Diffuse Pollution
Problems**
David L. Rudolph, University of Waterloo

Coffee Break

10:30 **Modelling Nutrient Legacies and Dynamics in
Human Dominated Catchments**
Nandita Basu, University of Waterloo

11:30 **Water Cycling across Aquatic Interfaces: How
it Works and why it Matters from the Pore to
the Continental Scale**
Bayani Cardenas, University of Texas at Austin

Lunch Break

13:30 **Poster Session on Topics I and II**

Coffee Break

16:00 **Model Complexity and Simplicity from a
Reactive-Transport Perspective: When,
where, and why does Mechanistic
Biogeochemistry Matter?**
Li Li, Pennsylvania State University

17:00 **Informing Reactive Transport Models with
Molecular-Biological Data: Opportunities and
Challenges**
*Nicholas Bouskill, Lawrence Berkeley National
Laboratory*

Location: Hölderlinstrasse 12, Lecture Hall (S 320)
Further info: www.uni-tuebingen.de/hydromod2018

Thursday, 5 April 2018

Topic III: Modelling Soil-Plant Interactions

09:00 **The Accuracy of Crop Model Predictions.
Understanding, Evaluating, Improving**
*Daniel Wallach, INRA, French National Institute for
Agricultural Research*

Coffee Break

10:30 **New Developments in Crop and Land Surface
Modelling**
Thilo Streck, University of Hohenheim

11:30 **It is in the Soil! Revealing the Impediments to
Root-Water Uptake in Complex Models Using
Thermodynamics**
Anke Hildebrandt, University of Jena

Lunch Break

13:30 **Poster Session on Topics III to V**

Coffee Break

Topic IV: Travel-Time Based Modelling of Transport in Hydrological Systems

16:00 **Pathway-Based Water Travel-Time and Age
Distributions from Aquifers to Catchments**
Vladimir Cvetkovic, KTH Royal Institute of Technology

17:00 **Age Distributions to Model River
Hydrochemistry: Theory and Lessons
Learned from 5 Years of Applications**
Gianluca Botter, University of Padova

Friday, 6 April 2018

Topic V: PDE-Based versus Conceptual Integrated Models

08:30 **Is Finer Better? Challenges with Model
Complexity in Hydrology**
Günter Blöschl, Vienna University of Technology

09:30 **Is Simpler Better? Making a Case for PDE-
Based Simulation of Coupled Surface and
Groundwater Flow**
René Therrien, Laval University

Coffee Break

Closure

11:00 **General Discussion and Closure**
Olaf Cirpka, University of Tübingen

***Students are welcome to attend the
presentations (no registration requested)!***

