



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Institute of Environmental Engineering

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Management

SEMINAR

Monday, November 5, 17:00 h, ETH Hönggerberg HIL E 10.1

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Stormwater Green Infrastructure: snapshots of an ongoing interdisciplinary journey

Abstract:

With the ongoing pressures of urbanisation, population growth, climate change and the emergence of novel 'green' decentralised stormwater technologies, we are faced with a planning challenge of ever-increasing complexity. The aim of this seminar is to present my journey thus far in addressing this challenge from four unique angles: (1) development of a novel planning-support tool known as UrbanBEATS, an integrated and spatial model for planning of stormwater green infrastructure, (2) communicating the effects of green infrastructure on urban heat island mitigation with urban water stakeholders, (3) understanding the current green infrastructure planning process and barriers to improvement through qualitative research and (4) leveraging novel technology such as virtual reality for data acquisition, stakeholder and community engagement. Through the research, insight has been gained on how we can better bridge science and practice and better tailor our communication to different actors and disciplines that partake in urban water planning and management.

Short Bio:

Peter Bach is a postdoctoral research fellow affiliated with the Urban Water Group at Eawag, the Chair of Urban Water Management at IfU, ETH Zurich and Monash University's Civil Engineering department. He completed his undergraduate and PhD degrees at Monash University in 2009 and 2014 respectively. His research focuses on using integrated models to support the planning of sustainable urban water systems. He tackles this challenge from both the technical side through exploratory modelling and microsimulation as well as the stakeholder engagement angle through serious gaming, problem structuring methods and qualitative research. He is also the current chair of the International Water Association (IWA) Working Group on Modelling Integrated Urban Water Systems (MIUWS) and on the management committee of the IWA Specialist Group for Modelling and Integrated Assessment (MIA).

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