

### **Course lecturers**



Prof. Günter Blöschl TU Vienna

**Prof. Murugesu Sivapalan** University of Illiniois at Urbana Ch.





**Prof. Hubert Savenije** TU Delft







Dr. José Luis Salinas TU Vienna

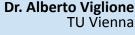






**Prof. Attilio Castellarin** University of Bologna





#### **Overview**

This Summer School is devoted to runoff prediction in ungauged basins (PUB), i.e., predicting water runoff at locations where no runoff data are available. This lack of data presents considerable challenges to catchment managers who require information on water flows for decision making. This course, based on the recently published book, "Runoff Prediction in Ungauged Basins: Synthesis across Processes, Places and Scales", will provide hydrologists with the theory and methods to address this critical challenge. The collection of speakers will bring together results from individual location-based studies and show how a comparative approach can be applied to learn from the differences and similarities between catchments around the world along gradients of climate and landscape features.

#### Who should attend

Masters and PhD students researching catchment hydrology and practising hydrologists who are challenged by making predictions in the absence of runoff data.

## What to bring

The course includes a substantial hands on component. Participants can bring their own runoff data (from around 10 catchments, over 10 years) or alternatively, runoff data will be provided.

#### Venue

The course will be held at the Vienna University of Technology, Karlsplatz 13, in the heart of the Austrian capital.



# Registration

The course fee is Euro 600-.

Included are all course material and lunch. Participants are responsible for their own transport, accommodation, health insurance, all other meals and personal expenses.

A small number of competitively selected, fee waiver places are available. To apply, send a CV and motivation letter to Dr. Gemma Carr (details below) by 1<sup>st</sup> May, 2015.

To register and for any enquiries contact: Dr. Gemma Carr

Centre for Water Resource Systems, Vienna University of Technology

Phone: +43 1 58801 406655 Email: office@waterresources.at

Centre for Water Resource Systems
Vienna University of Technology, 1040 Wien, Karlspl.13
office@waterresources.at www.waterresources.at

# **Programme**

Friday	Hands-on (Comparative analysis) Sivapalan	Hands-on (Group work)	Hands-on (Group presentations)	Synthesis and feedback Blöschl, Sivapalan
Thursday	<b>Floods</b> Salinas	Hands-on (Index-flood)	Runoff hydrographs Parajka	Hands-on (HBV, signatures)
Wednesday	Flow duration curves Castellarin	Hands-on (Classification)	Low flows Laaha	Hands-on (Regression)
Tuesday	Annual runoff Sivapalan	Hands-on (Budyko)	Seasonal runoff Parajka	Hands-on (Regime classification)
Monday	Introduction Savenije	Data and flow paths	R for PUB Viglione	R for PUB Viglione
	8:30- 10:00	10:30- 12:30	13:30- 15:00	15:30- 17:30