

Vienna Catchment Science Symposium, Saturday 20th April, 2024

On the Theme of: Outrageous hypotheses in hydrology

11th Symposium

One of the findings of the Unsolved Problems in Hydrology (UPH) initiative of IAHS, EGU-HS, AGU-HS and the IAH was the need for more discovery science and outrageous hypotheses in hydrology. In 1926, geologist William Davis exhorted his fellow scientists thus: 'Our younger members may perhaps experience a feeling of disappointment, or even of discouragement at the unanimity with which the conclusions of an elder are received by a geological audience. But to make progress, violence must be done to many of our accepted principles'. In this spirit, the aim of this symposium is to discuss new, controversial ideas about how the water cycle works to stimulate more high-risk/high-gain initiatives in hydrology.

<u>Time</u>	<u>Session</u>	<u>Location</u>
8:30	Tea, coffee, pastries and greetings	3 rd Floor Foyer
8:45	Welcome and Introduction Günter Blöschl, Vienna University of Technology, Austria	Kuppelsaal
9:00	Outrageous hypothesis: Subsurface nitrogen legacies are real and delay water quality improvement Nandita Basu, University of Waterloo, Canada	Kuppelsaal
10:20	Tea and coffee	3 rd Floor Foyer
11:10	Outrageous hypothesis: More runoff with less rain Gil Mahé, IRD, HydroSciences Montpellier, France	Kuppelsaal
12:30	Lunch	3 rd Floor Foyer
14:00	Small group discussion sessions Group 1: <i>A compilation of outrageous hypotheses in hydrology</i> Aim: to brainstorm what processes and phenomena would lend themselves to novel hypotheses and what hypotheses should be addressed Moderator: Nandita Basu Group 2: <i>Methods for testing outrageous hypotheses in hydrology</i> Aim: to brainstorm the methods (data, models, frameworks) required to explore outrageous hypotheses at all scales, including regional scales Moderator: Ross Woods	Kuppelsaal Seminar room Kuppel (4th floor)
16:00	Tea and coffee	3 rd Floor Foyer
16:30	Plenary: Exchange of group findings	Kuppelsaal
17:30	Evening drinks reception followed by dinner	3 rd Floor Foyer

Location: Kuppelsaal, TU Wien. Karlsplatz 13, 4th floor, 1040 Vienna

