

Vienna Catchment Science Symposium, Saturday 9th May, 2020

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 | 1 st Floor Foyer |
| 8:45 | Welcome and Introduction Günter Blöschl, Vienna University of Technology, Austria | Böcklsaal |
| 9:00 | Outrageous Hypothesis: Nudgable Atmospheric rivers could control large scale surface hydrology Upmanu Lall, Columbia University, USA | Böcklsaal |
| 10:10 | Tea and coffee | 1 st Floor Foyer |
| 10:45 | Outrageous Hypothesis: Subsurface nitrogen legacies are real and delay water quality improvement Nandita Basu, University of Waterloo, Canada | Böcklsaal |
| 11:55 | Short break | |
| 12:00 | The Barcode Planet Dani Or, Swiss Federal Institute of Technology, Zurich | Böcklsaal |
| 13:10 | Lunch | 1 st Floor Foyer |
| 14:15 | Small group discussion sessions <i>Group 1: 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: NN | Festsaal |
| | <i>Group 2: Methods for testing outrageous hypotheses in hydrology</i> Aim: to brainstorm the methods (data, models, frameworks) required to explore outrageous at all scales, including regional scales Moderator: NN | Böcklsaal |
| 16:00 | Tea and coffee | 1 st Floor Foyer |
| 16:30 | Plenary: Exchange of group findings | Böcklsaal |
| 17:30 | Evening drinks reception followed by dinner | 1 st Floor Foyer |

Location: Böcklsaal, TU Wien. Karlsplatz 13, 1st floor, 1040 Vienna

To make arrangements we need to know who will attend. Please sign up no later than April 1st by sending an email to office@waterresources.at

How to reach Karlsplatz 13, Vienna University of Technology, 1040, Vienna

Karlsplatz 13 is located very close to the metro (U-Bahn) station "Karlsplatz" (U-Bahn lines U1, U2, U4).

On leaving Karlsplatz station, follow the signs to Resselpark. Karlsplatz 13 is located directly across the park (2-3 minutes walk from the U-Bahn exit).

The Vienna Catchment Science Symposium will take place in the Böcklsaal. This is located on the 1st floor. Please use the elevator located at the main entrance of Karlsplatz 13. Tea and coffee will be available from 8:30 am on the 1st floor, directly by the elevator.

Maps showing location of Karlsplatz 13:



We look forward to seeing you in Vienna!