

April 25th-26th, 2025
Vienna, Austria

2nd Alpine Workshop
on

**“Fire- induced geohydrological processes
in mountainous areas”**

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Program:

Friday April 25th, 2025:

Venue: IAN BOKU University, Vienna, Austria

9.00 am-9.15 am: Welcome- Sandra Melzner, GEOCHANGE Consulting e.U., Vienna and Klagenfurt, Austria/ IAN BOKU, Vienna, Austria

9.15 am-10.00 am: “40 years of landslide research”- Fausto Guzzetti, CNR-IRPI, Perugia, Italy

10.00 am-10.45 am: „Post wildfire debris flow hazard in Colorado, USA”- Francis Rangers, US Geological Survey, Colorado, USA

10.45 am-11.00 am: Coffee break

11.00 am-11.30 am: “Forest fire fighting operations in Lower Austria”- Stephan Kreuzer, Landeswamzentrale Niederösterreich, Austria

11.30 am-12.00 pm: “Disturbance impacts on protective forests in mountain areas – current knowledge and future research directions”- Michaela Teich, BFW, Innsbruck, Austria

12.00 am-12.30 pm: „Spatial and temporal occurrence of forest fires in Austria”- Mortimer Müller and Harald Vacik, Institute of Silviculture, BOKU University, Vienna, Austria

12.30 am-1.00 pm: „The 2022 wildfire in the karst- lessons learned”- Milan Kobal and Zeno Petrovich, Biotechnical Faculty, Department of Forestry and Renewable Forest Resources, University of Ljubljana, Slovenia/ Stazione Forestale di Duino-Aurisina, Italy

1.00 pm -2.30 pm: Lunch break

2.30 pm-3:00 pm: “„An adapted USGS burn severity index for the Alpine region”- Federica Fiorucci and Sandra Melzner, CNR-IRPI, Italy/ GEOCHANGE Consulting e.U., Vienna and Klagenfurt, Austria/ IAN BOKU, Vienna, Austria

3.00 pm-3:30 pm: “Quantitative analysis of post-fire resistance and resilience of alpine protection forests”- Massimiliano Schwarz, Bern University of Applied, Bern, Switzerland

3:30 pm- 4:00 pm: “Back-analysis of a post-fire debris flow happened in Bussoleno, Torino province (Italy) in 2018”- Giulia La Porta, Department of Structural Engineering, Construction and Soil Mechanics, Politecnico di Torino, Italy

4:00 pm-4:30 pm: “Shared mechanisms and risks: Parallels between post-wildfire debris flows and extreme runoff over frozen soil”- Ivo Baselt, Research Group Alpine Streams and Natural Hazards, University of the Bundeswehr Munich

4.30 pm-5.00 pm: Coffee break

5:00 pm-5:30 pm: “Experimental analysis of the fire-induced effects on the physical, mechanical, and hydraulic properties of sloping pyroclastic soils of southern Italy”- Dario Peduto, Salerno University, Italy

5:30 pm- 6.00 pm: “Long-term effects of wildfires on rock weathering and soil stoniness in the Mediterranean landscapes”- Nurit Shtober-Zisu and Lea Wittenberg, Haifa University, Israel

6:30 pm- 7:00 pm: “Post wildfire rockfall inventory in Spain”- Roberto Sarro, Spanish Geological Survey

7:00 pm- 7:30 pm: open discussion about further activities

8:00 pm-open end: Dinner

Saturday April 26th, 2025:

Field trip “Post wildfire processes in the “Hirschwang” study site”

Leading of field trip: S. Melzner, J. Hübl, ...

Timetable:

8:00 am: departure from Vienna

9:15 am: meeting point: Bäckerei Cafe Konditorei Nöbauer, Schloßplatz 6, 2651 Reichenau an der Rax, Austria

9:30 am -1pm: excursion to “Hirschwang” wildfire affected area

1.30 pm: lunch break at Rax mountain cable car station “Raxalm- Berggasthof”

2.30 pm- 4.00pm: walk on Rax plateau with short presentations by

- Ela Segina, Geological Survey of Slovenia, Slovenia
- Franz Goldschmidt and Dieter Tanner, Federal State Government of Carinthia, Austria
- Tomaso de Cola, DLR, Germany
- Gianni Boris Pezzatti, WSL, Switzerland

4.30 pm: Departure to Vienna

Many thanks to the sponsor of the workshop:

Martin Rasmussen, Copernicus.org <https://www.copernicus.org/>

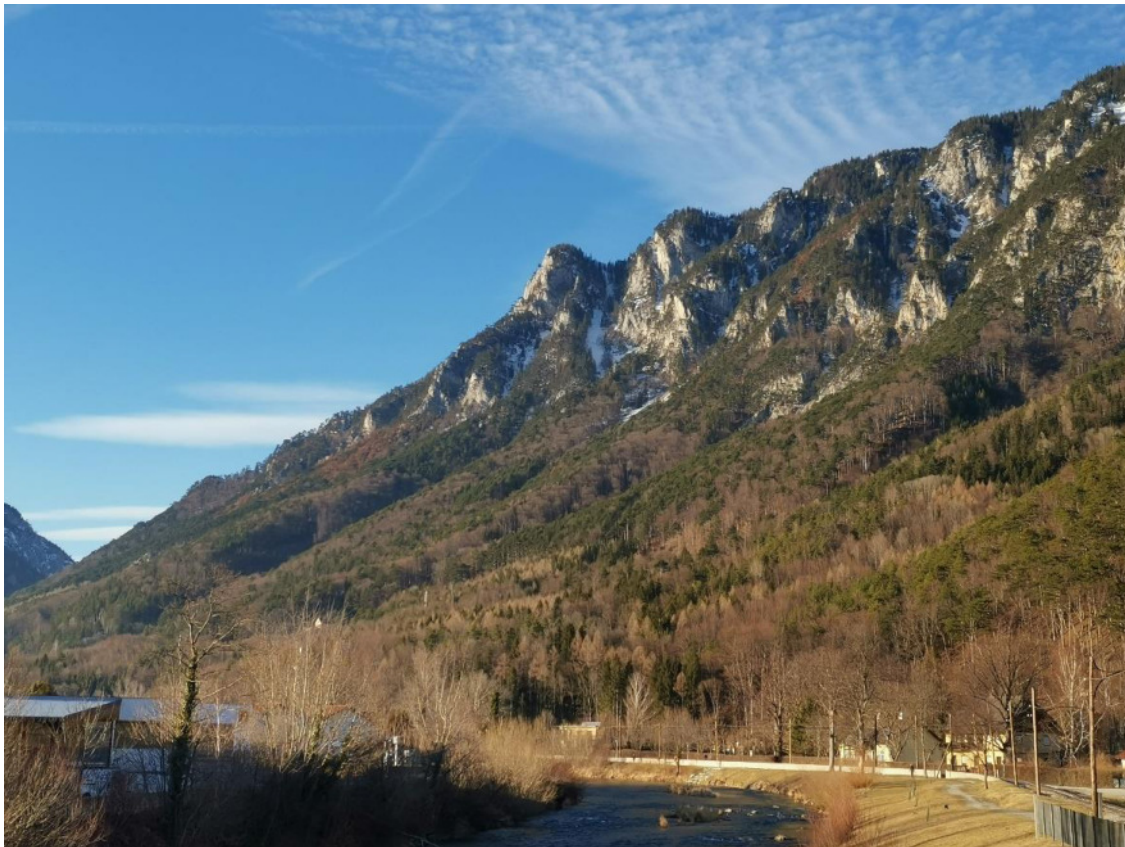
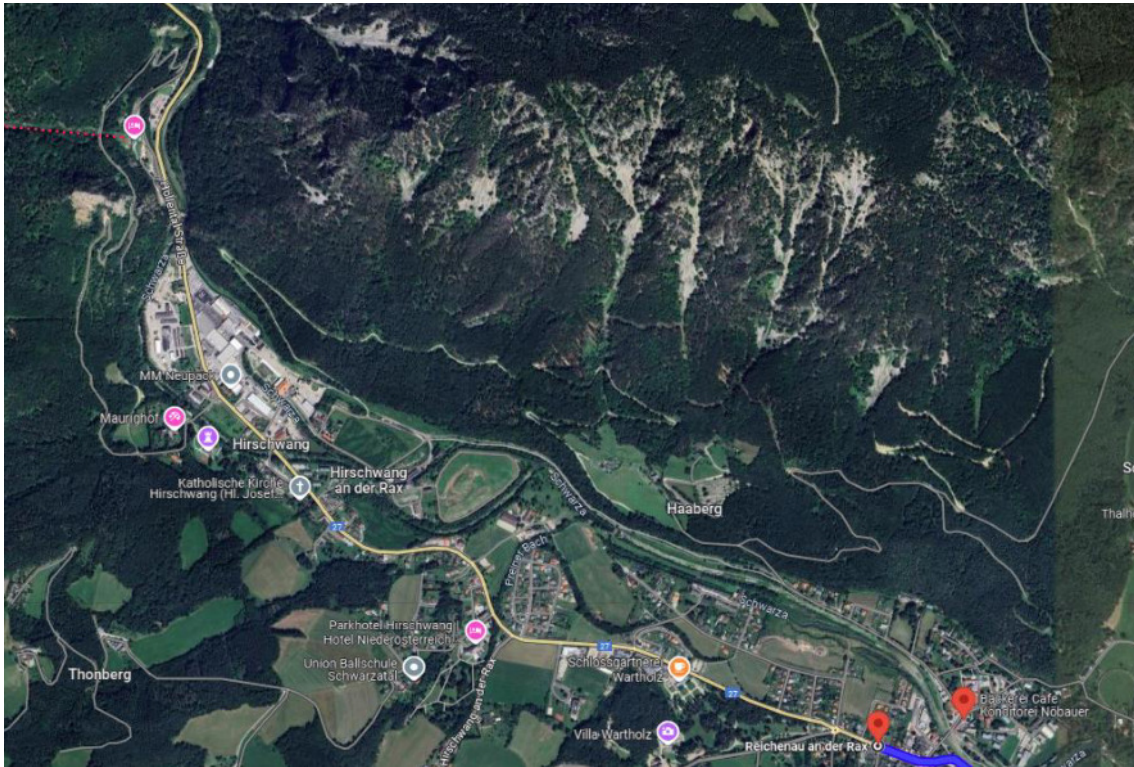


Foto: Field trip to “Hirschwang” in Reichenau, Lower Austria (Source: Sandra Melzner).