

Seminář Katedry fyzické geografie a geoekologie, letní semestr 2021

Geografické kolokvium studentů postgraduálního studia (čtvrtky, 14:50, Google Meet)

Departmental seminar series, summer term 2021 (Thursday, 14:50, Google Meet)

4.3. **Gisela Domej** (University of Milano-Bicocca)

Earthquake site effects: How to localize ground motion amplification, and what does it tell us?

Site effects – i.e., ground motion amplification or damping due to prevalent stratigraphic and topographic conditions – are common phenomena on small and large scales. They are often responsible for a sequence of hazards following earthquakes, such as landslides, GLOFs, damage to infrastructure, fires, etc.

In the first part of this presentation, we will discover the physics of site effects and some examples of resulting hazards. In the second part, we will have a look at how a site effect profile in 2D can be established with a simple MATLAB routine, and we apply it to a real case scenario on a landslide in Spain affecting a motorway.

1.4. 3rd year PhD students

Tereza Dlabáčková

Slope Evolution in the Western Tatra Mountains since the Last Glacial

Benjamin Stoker

'The deglaciation of the Laurentide and Cordilleran ice sheets in the Mackenzie Mountains, Canada

8.4. Martin Margold

How to write a paper, part 1 (author's perspective)

15.4. Radan Huth

How to write a paper, part 1 (author's perspective)

22.4. 4EU seminar afternoon

More information soon

29.4. **Sazeda Begam** (School of Water Resources, IIT Kharagpur)

Glacial Lake Outburst Flood (GLOF) modeling with a multidisciplinary approach

The study includes spatio-temporal characterization of moraine dammed glacial lakes to find susceptibility towards GLOF using secondary data. The analysis of the moraine dam breaching under different conditions was performed using physical laboratory experiments and numerical model simulations. The numerical model is based on the combination of a hydrodynamic model with algorithms concerning sediment erosion and transportation, and accurate fundamental laws of hydraulics. That numerical model was validated with the laboratory experimental data as well as real-time field-scale data. Then the validated model was applied to the field-scale hypothetical outburst.

6.5. **Ryszard Kaczka** (new research fellow at our department)

Tree-ring evidence of the climate and human impact on treeline dynamics in Polish Tatra Mts.

3.6. 1st year PhD students *starts at 10:00*