



1st ČAG Workshop on Field Survey Methods in Geomorphology

We would like to invite you to the 1st ČAG Workshop focused on the field geomorphological survey methods, which will be held before the annual ČAG conference State of geomorphological research in 2019.

The workshop will take place at the conference venue, Parkhotel Skalní město and in the surrounding sandstone landscape area of Prachovské skály, from **April 2nd to 3rd 2019** (approximately from 12 AM to 12 AM).

All Interested in participating must confirm their interest by ticking the field „Workshop 2.4.“ in the conference registration form. The deadline is the same as for the conference: 28. 2. 2019

Workshop will be focused on selected field methods commonly used by the experts of the organizing Institute of Rock Structure of Mechanics in their research in the sandstone areas. The IRSM researchers perform in this unique landscape studies aimed at the assessment of the stability of the rock landforms, long-term monitoring of the behaviour in relation to various environmental conditions, slope processes dynamics and structural geomorphological analyses of the sandstones. The area of the Prachovské skály offers an ideal terrain for demonstration of the applied methodological complex.

WORKSHOP PROGRAMME:

The **workshop programme** will be split into two parts:

(I) Tuesday April 2nd: Fieldwork – a practical demonstration of data obtaining:

- **UAV photo data acquiring** of the selected rock tower
- **Terrestrial laser scanning** of the rock tower
- **Applied-geophysical methods** and insight into the underground:
 - electrical resistivity tomography (ERT)
 - shallow seismic refraction (SSR)
 - dipole electromagnetic profiling (DEMP)
 - ground penetrating radar (GPR)
- **Methods of displacement and dynamics measurements** (crack gauges, extensometers etc.)

(II) Wednesday April 3rd (half-day): Data processing and interpretation:

- UAV data and their post-processing and 3D DEM construction
- laser scanner and creation of the final DEM model and its uses
- assessment of the structure and lithology by means of applied geophysical method
- assessment of a stability derived from 3D DEM and geophysical models
- complex evaluation of **a stability and hazard assessment** of studied landforms (a rock tower in our case).

Further information:

- the workshop is **free of charge**. The participants will however pay the accommodation and meals in the Parkhotel (same conditions as for the Conference)
- minimal number of participants to open the workshop is 5
- the participants are asked to bring their own laptop
- the workshop is primarily intended for students of master or postgraduate programme and early-career researchers (post-docs)
- the workshop will be organized and lead by researchers of the Institute of Rock Structure and Mechanics CAS, v.v.i.
- contact address for any information is the same as for the conference: cag2019@irsm.cas.cz

The organizing committee
cag2019@irsm.cas.cz