

**Excursion (Tour A) - Sunday, 8 Sept 2024 – Pre-conference tour
Quartz and Quartzites of the Harz Mountains**



On this pre-conference tour we'll have a look on the different rock-forming and mineralisation processes of quartzites and quartz – mostly at particular scenic places with exceptional rock exposures of the Variscan Fold-and-Thrust Belt and surroundings of the Harz Mountains.

The timetable for the excursion:

08:00	Meeting in front of the Geoscience Center Göttingen (GZG), Goldschmidtstr. 1/3, 37077 Göttingen (Venue of QUARTZ-2024)
08:15	On-time departure with mini vans
9:00 – 10:00	Carboniferous Lydites/radiolarian cherts in Lautenthal: development and deformation; syntectonic quartz veins and their significance for fold mechanisms
10:30 – 11:00	Cretaceous quartzitic ore vein mineralization close to Oberschulenberg
11:30 13:00	Carboniferous quartzites (Kammquartzite of the Ackerbruchberg-zone) at the Hammersteinklippen: sedimentation and nappe tectonics of the Rhenohercynian; short hike and including lunch (in case of bad weather in a mountain hut)
14:00 – 15:00	Silicified and vertically rotated cretaceous sandstones of the Subhercynian Basin (Teufelsmauer, devils wall) close to Neinstedt, silicification process and deformation bands; short hike
16:30 – 17:00	Optional: Triassic Quartz-sandstones as geothermal target horizons for Göttingen near Mariaspring/Eddigehausen close to Göttingen
17.30	Expected arrival at the GZG

Hiking gear and shoes are strictly advised. Be prepared for sun and rain, and temperatures between 10° and 25° C for the short hikes.

The symposium organizers will provide a lunch package. Dinner in a restaurant for a final discussion can be spontaneously organized for interested parties.

Looking forward to demonstrating some geological highlights in respect to quartz.

Bernd Leiss