

**Programme for the OUGSME Post-exam  
Field Trip to Bavaria and Western Bohemia from  
Sunday 24<sup>th</sup> October to Sunday 31<sup>st</sup> October, 2010.  
Estimated cost, not including the journey to Munich,  
meals and drinks, Euro 440,00**

**Contact: Mike Molloy (monaco.mick@freenet.de)**

Sunday 24 October	Travel to Munich, overnight stay in the YH Munich-Thalkirchen. Meet at 18:00 in YH meeting room, dinner at ca. 19:00 in 'Asam Schloessl' in Munich-Thalkirchen.
Monday 25 October	Depart YH 08:00 for Windischeschenbach ca. 13:00 Continental Deep Drilling Project KTB. Tour Guide Dr. Frank Holzförster, Head of the KTB Geocentre. ca. 15:30 meet with Dr. Andreas Peterek and visit the Tertiary basalt cone in Parkstein. Dinner and overnight stay 'Gasthof zum Waldnaabtal' in Windischeschenbach.
Tuesday 26 October	Start field trip, 08:00: The Geology of the western border zone of the Bohemian Massif (KTB surroundings, Fichtel Mountains, Münchberg Nappe Complex) (Guided by Dr. Andreas Peterek and Dr. Johann Rohrmüller) Dinner and overnight stay 'Gasthof zum Waldnaabtal' in Windischeschenbach.
Wednesday 27 October	Start field trip, 08:00: The Geology of the Teplá-Barrandium in the Mariánské Lázně region and Neotectonics along the Mariánské Lázně fault zone. (Guided by Dr. Andreas Peterek, N.N.) Dinner and overnight stay Kaiser Ferdinand Hotel, Loket.
Thursday 28 October	Start field trip 08:00: Evolution and neotectonics of the intra-continental Eger (Ohře) Rift (Guided by Dr. Andreas Peterek, N.N.) Dinner and overnight stay Kaiser Ferdinand Hotel, Loket.
Friday 29 October	Depart 08:00 for Regensburg, sight-seeing in the city centre, UNESCO World Heritage Site. Overnight stay in the YH Munich-Thalkirchen. Dinner ca. 19:00 in 'Alter Wirt' in Munich-Thalkirchen.
Saturday 30 October	Depart YH 09:00 for Munich Mineral and Fossil Fair (Mineralientage). Dinner ca. 19:00 'Augustiner Keller' in the City centre. Overnight stay YH Munich-Thalkirchen.
Sunday 31 October	Travel home.

For more information regarding the excursions planned for 26th-28th October, see the following abstracts from Dr. Andreas Peterek.

### **The Geology of the western border zone of the Bohemian Massif (KTB surroundings, Fichtel Mountains, Münchberg Nappe Complex)**

Guided by Dr. Andreas Peterek (Bayreuth University and Geopark Bayern-Böhmen) and Dr. Johann Rohrmüller (Landesamt für Umwelt, Geological Survey)

The western border zone of the Bohemian Massif is one of the best geologically investigated regions in Central Europe due to the German Continental Drilling Project (KTB). Following the N-S direction we will present the tectonometamorphic units of the North-Bavarian basement (Moldanubian Unit, Saxothuringian Unit, Münchberg Nappe Complex) including the late-Variscan granites and will discuss one of the most spectacular fault zones in Central Europe, the Franconian Lineament.

### **The Geology of the Teplá-Barrandium in the Mariánské Lázně region and neotectonics along the Mariánské Lázně fault zone**

Guided by Dr. Andreas Peterek (Bayreuth University and Geopark Bayern-Böhmen) and N.N.

The Teplá-Barrandium belongs to the internal zone of the Variscides. Nevertheless, it is built up by supracrustal anchi- and non-metamorphic Palaeozoic rocks (Barrandium) that unconformably overly Cadomian basement units. We will discuss the tectonometamorphic evolution of the Teplá-Barrandium especially with respect to the adjacent Moldanubian and Saxothuringian units. We will also present results from our own studies dealing with the recent tectonic activity along the prominent Mariánské Lázně fault zone which is along its northern branch one of the source areas of the Northwest Bohemian swarm earthquakes.

### **Evolution and neotectonics of the intra-continental Eger (Ohře) Rift**

Guided by Dr. Andreas Peterek (Bayreuth University and Geopark Bayern-Böhmen) and N.N.

The Eger Rift with the central Eger Graben is one of the most prominent neotectonic structures in Central Europe. In its southwestern part, the Cheb Basin, strong evidence is given for active magmatic intrusions which most probably induce seismic activity in this region. We will discuss the evolution of the Eger Rift and of the Cheb Basin as it can be reconstructed from the volcano-sedimentary record as well as from neotectonic and morphotectonic criteria. The field-trip will be completed by the visit of the world-famous spa town Karlovy Vary.