

# EGER RIFT 2024:

## current geoscience research and its applications for society

**October 31, 2024, 9:00 - 16:30, Institute of Geophysics of the Czech Academy of Sciences**

The goal of the informal seminar is to present and discuss results of recent geoscience research in the Cenozoic Eger Rift, as well as work in progress in basic and applied research in this important geological province. The seminar is part of activities related to the Czech Science Foundation (GAČR) project 22-13980S but the invited contributions come from teams and individuals from a range of Czech institutions and their industry partners. The seminar is open to interested professional public and geoscience students. All presentations will be in English.

### Programme:

9:00 **Welcome and Introduction**, D. Uličný 10-15 min.

#### SECTION 1: STRUCTURAL INHERITANCE AND PALEOSTRESS

9:20	D. Uličný, V. Cajz, K. Mach, L. Špičáková, M. Machek, S. Čech, R. Grygar, J. Mrlina, F. Havlíček <b>Structural inheritance and the evolution of the Eger Rift</b>
9:40	M. Rajchl, K. Mach, F. Havlíček, D. Uličný, and M. Machek <b>Early relief growth at the Krušné Hory edge of the Eger Graben</b>
10:00	K. Mach, R. Grygar, R. Gramblička, T. Novotný <b>Insights into Miocene paleostress history of the Eger Rift from mining-related structural datasets in the Most Basin</b>
10:20	F. Havlíček, D. Uličný, O. Krýza, M. Machek, M. Warsitzka, and P. Závada <b>Modelling the effects of changing extension directions in a segmented rift: application to the Eger Graben</b>
10:40	J. Plomerová, V. Babuška, H. Žlebčíková, L. Vecsey <b>Control of Cenozoic intra-plate volcanic phenomena by healed boundaries of ancient micro-continents</b>

11:00-11:20 coffee break

#### SECTION 2: NEWS ON VOLCANISM AND PALAEOBOTANY

11:20	V. Rapprich, P. Čáp, Y.V. Erban Kochergina, E. Kadlecová, Zs. Benkó, J. Sakala, Z. Rodovská, J. Matějů, D.A. Petrash <b>Interactions between distal epiclastic and bio-chemogenic sedimentation at the foothills of a mafic alkaline volcano: The case of the Oligocene Doupovské Hory Volcanic Complex</b>
11:40	F. Tomek, J. Černý, M. Lutovský, L. Pospíšil, P. Vitouš, E. Danielová, Z. Hájková <b>Did Forefather Bohemus know he stood on an ancient lava lake? The Oligocene Říp Hill volcano, Central Bohemia volcanic field</b>
12:00	V. Koutecký & J. Sakala <b>New findings from a decade of research on fossil wood from the Paleogene of České středohoří and Doupovské hory Mts.</b>

12:20-13:20 Lunch break (booking of lunches in the cafeteria of the Institute of Geophysics will be offered; after Oct. 21 check on website <https://www.ig.cas.cz/> for menu and pricing)

## Afternoon session

### SECTION 3: CURRENT PROJECTS IN APPLIED GEOSCIENCE

13:20	T. Fischer, P. Dědeček, L. Janků, V. Peřestý, J. Řihošek, J. Šafanda, J. Vlček <b>Review of recent and planned research in the Ringen geothermal centre at the eastern edge of the Eger Rift</b>
13:50	I. Prachař, P. Špaček <b>Evaluation of Quaternary activity of the Střezov fault for the purposes of siting of the Small Modular Reactor (SMR) at the Tušimice power plant</b>
14:10	Nádaskay, R., Bohadlo, J., Vít, J., Skácelová, Z., Rapprich, V. <b>Structure and evolution of the Zittau Basin - preliminary data and interpretations based on multi-method investigation in Czech surroundings of the Turów coal mine</b>

14:30 short coffee break

### SECTION 4: WESTERN EGER RIFT

14:40	P. Hrubcová, T. Fischer, T. Dahm, V. Rapprich, J. Valenta, J. Mrlina, R. Beránek, P. Tábořík, T. Vylita <b>Drilling in western Eger Rift and surveying of Bažina Maar</b>
15:00	P. Štěpančíková, J. Flašar, T. Rockwell, Jakub Stemberk, P. Tábořík, Ch. Goswami, F. Hartvich, H. Sana, N. Brown <b>Variability of neotectonic activity along the Mariánské Lázně fault</b>
15:20	P. Tábořík, P. Štěpančíková, Jakub Stemberk, L. Findžová, T. Fischer, J. Valenta <b>Discovering the Čirá-Kopanina Fault: Bridging the Gap Between Surface Evidence and Seismic Activity?</b>
15:40	J. Flašar, P. Štěpančíková <b>Geomorphological evidence of tectonic activity of the Mariánské Lázně Fault (Czech Republic) and its influence to stream network evolution</b>
16:00	M. Coubal, M. Šťastný, P. Štěpančíková, Jakub Stemberk, J. Schweigstillová, F. Veselovský, D. Kořínková <b>Study of faulted volcanic bodies – a specific way to reconstruct the paleostress events during the Plio-Pleistocene. A case study from the Komorní Hůrka Volcano, Bohemian Massif</b>

16:20 End of seminar; discussion with refreshments



INSTITUTE OF GEOPHYSICS  
OF THE CZECH ACADEMY OF SCIENCES

Location: Geofyzikální ústav AVČR / Institute of Geophysics of the CAS

Boční II/1401, Praha 4; access: <https://www.ig.cas.cz/kontakty/>

Check news at <https://www.ig.cas.cz/>

Convener: David Uličný, ulicny@ig.cas.cz