Official Conference program

Sunday (04.10.2026)

- 7:15-7:30 – Registration and gathering in front of the HUN-REN EPSS main building (Sopron, Csatkai E. str. 6-8)

- 7:30 - 18:00 – Pre-conference Field trip

- 18:00 - 21:00 – Ice Breaker in the HUN-REN EPSS main building

Monday (05.10.2026)

- 8:00 - 9:00 – Registration (HUN-REN EPSS reception)

- 9:00 - 9:15 – Opening of the 16th Assembly of Petrology and Geochemistry (HUN-REN EPSS main building 1st floor Tárczy-Hornoch lecture room)

- 9:15 - 10:30 – 1st session (Tárczy-Hornoch lecture room)

  - Szabolcs **Harangi** et al. – Origin of Late Miocene–Quaternary Alkali Basalt Magmas in the Carpathian–Pannonian Region: Insights from Olivine Crystals
  - Réka **Lukács** et al. – Tracing Large-Volume Miocene Explosive Volcanism from the Pannonian Basin Across Central and Southern Europe
  - Abigail **Martens** et al. – Insights into the Roches-Genty ignimbrite in Martinique Island: stratigraphy, grain size distribution, geochemistry, and geochronology
  - Maylis **Dupons du Dinechin** et al. – Multi-scale constraints on magma ascent and volatile evolution during the Minoan eruption (Santorini, Greece): insights from vesicularity, Li–Cl geochemistry and Li diffusion in plagioclases
  - Péter **Gál** et al. – Eruptive sequence of the 14.9 Ma Demjén Ignimbrite (northeastern Hungary): from near-caldera-rim to relatively distal deposits

- 10:30 - 11:00 – Coffee break (HUN-REN EPSS main building 1st floor hall)

- 11:00 - 12:00 – 2nd session (Tárczy-Hornoch lecture room)

  - Gábor **Tari** – Natural hydrogen exploration in Hungary: a first look (plenary)
  - Laura **Horváth** et al. – Natural hydrogen exploration in the Pannonian Basin: Preliminary results from the Gyód serpentinite body
  - Gabriella **Obbágy** et al. – Hydrogen in fluid inclusions of the Troodos ophiolite, Cyprus: preliminary results

- 12:00 - 13:30 – Lunch break (HUN-REN EPSS main building ground floor, Károly Kántás lecture room)

- 13:30 - 15:00 – 3rd session (Tárczy-Hornoch lecture room)

- Jan **Vozár** – Integrated modelling based on joint inversion and deep petrological approach (plenary)
- Tibor **Rubóczki** – Electrical conductivity of Earth materials: a link between geophysics and petrophysics through the lithosphere
- Márta **Czuppon-Lázár** et al. – Beyond the Ca–HCO_3 facies: Multivariate identification of hydrogeochemical subsystems in the Aggtelek Karst, northeastern Hungary
- Gábor **Tari** – Robust detrital zircon age spectra from the Rechnitz(Rohonc) Window, Austria-Hungary: tectonic and paleogeographic implications
- Kristóf **Porkoláb** et al. – Large-scale rheological and tectonic effects of localized garnet breakdown: a case from the Pannonian Basin

- 15:00 - 15:30 – Coffee break (HUN-REN EPSS main building 1st floor hall)

- 15:30 - 16:45 – 4th session (Tárczy-Hornoch lecture room)

- Tamás **Spránitz** et al. – Delayed mantle degassing by decompressional garnet breakdown in the lower continental crust
- Zoltán **Taracsák** et al. – Sulfur cycling in subduction zones: from slab-mantle interaction to degassing
- Ahmad **Abudayeh** et al. – Multistage alterations from Jacupiranga carbonatite: consecutive clinohumitization and serpentinization of antiskarn olivine.
- Lavecchia **Alessio** et al. – The role of the Mid-Lithospheric Discontinuity (MLD) in plume-induced lithosphere delamination
- István **Kovács** et al. – The Role of Asthenospheric Flow in the Recent Tectonics and Volcanism of the Broader Carpathian–Pannonian Region: Don't Underestimate the "Deep" Side of the Force

- 16:45 - 19:00 – Poster session

- Barbara **Cserép** et al. – Reprocessing and re-equilibration in a crystal mush: Insights from the Ciomadul dacite
- Emese **Oelberg-Pánczél** et al. – Major, trace element and noble gas isotope composition of olivine from the alkaline basalts of the Perşani Volcanic Field, Romania: constraints on the magma source region
- Dániel **Kovács** et al. – Petrological analysis of "exotic" lithologies in the Hungarian segment of the Penninic Rechnitz Window: a first look

- Mona **Maghsoudlou** et al. – Spatial variability of soil CO_2 degassing and its stable carbon isotope ($\delta^{13}C$) signatures in the vicinity of Sár-kút spring, Nemesgulács (Bakony–Balaton Highland Volcanic Field, Hungary)
- Benedek **Koszta –** Mechanical controls on the rate of deformation-induced phase transitions: a numerical model of quartz-coesite transformation
- Xin **Wei** et al. – Effects of External Pressure on the Homogenization Temperatures of Fluid Inclusions in Various Host Minerals observed in a Hydrothermal Diamond-Anvil Cell
- Viktória **Gere** et al. – The relationship between natural radioactivity and natural hydrogen in the Sopron Mountains, preliminary results
- Judit **Mészárosné Túri** and Dóra Cseresznyés – Geochemical modeling of multistage hydrothermal fluid evolution in the Central Börzsöny
- Anna **Gajzer** et al. – The quantification of natural hydrogen generation potential with multi-criteria decision analysis (MCDA): a case study of the Gyód and Helesfa serpentinite bodies
- Mihály **Petrás** et al. – Fairy circles as indicators of natural hydrogen seepage and a potential example from SW Hungary
- Bence **Nagy** et al. – Effect of reservoir heterogeneity on reinjection well pressures – a numerical study
- Gergely **Selmeci** – Petrography of metabasites from borehole Br-4 in the Bódva Valley
- Veronika **Szilágyi** et al. – Polished stone tool procurement in the stone age Carpathian Basin

- 19:00 – Conference dinner (Deák Restaurant)

Tuesday (06.10.2026)

- 8:00 - 9:00 – Registration (HUN-REN EPSS reception)

- 9:00 - 10:30 – 5th session (Tárczy-Hornoch lecture room)

- Péter **Völgyesi** – Urban geochemistry: an integrated approach for tracing anthropogenic impacts in former hungarian industrial cities (plenary)
- Erszébet **Harmann-Tóth** et al. – Asbestos - current knowledge in the context of the recent environmental catastrophe in Western Hungary (plenary)
- István **Viczián** – Genesis of „Tokaj Earth", a historical mineral medicine
- Orsolya **Gelencsér** et al. – Fluid migration history of Miocene rock salt of the Eastern Carpathians: a detailed fluid inclusion study

- 10:30 - 11:00 – Coffee break (HUN-REN EPSS main building 1st floor hall)

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- 11:00 - 11:45 – 6th session (Tárczy-Hornoch lecture room)

  - Dávid **Karátson** et al. – Multiple Mid-Miocene ignimbrite eruptions in the North Pannonian Basin: Integrated volcanological, geochronological, and geochemical insights into the Tar–Jató tuffs
  - Ákos **Kővágó** et al. – Structural hydroxyl contents of nominally anhydrous minerals in the Miocene Laleaua Albă magmatic complex (East Carpathians, Romania): Benchmarks for the water content of parent melts
  - Levente **Patkó** et al. – Hydrous upper mantle facilitated alkali basalt genesis in the Southeastern Carpathians, Romania

- 11:45 - 12:30 – Poster session (HUN-REN EPSS main building ground floor hall and Károly Kántás lecture room)

- 12:30 - 13:30 – Lunch break (HUN-REN EPSS main building ground floor, Károly Kántás lecture room)

- 13:30 - 14:00 – Closing ceremony of the 16th Assembly of Petrology and Geochemistry

Wednesday (07.10.2026)

(https://workshop.ggki.hu/eurobig-training-school/)

- 8:00 - 9:00 – Registration (HUN-REN EPSS reception)

- 9:00 - 09:15 – Opening remarks (Tárczy-Hornoch lecture room)

- 9:15 - 10:15 – **Taras Gerya** - Introduction to geodynamic modelling (Tárczy-Hornoch lecture room)

- 10:15 - 10:30 – Coffee break

- 10:30 - 12:30 – **Taras Gerya** - Excercises (Tárczy-Hornoch lecture room)

- 12:30 - 13:30 – Lunch break

- 13:30 - 14:30 – **Zoltán Taracsák** - Introduction to thermodynamic models for high temperature processes (Tárczy-Hornoch lecture room)

- 14:30 - 15:00 – Coffee break

- 15:00 - 17:00 – **Zoltán Taracsák** - Excercises (Tárczy-Hornoch lecture room)

- 17:00 - 18:00 – General discussion and networking (Tárczy-Hornoch lecture room)

- 18:00 - 20:00 – TOPO-EUROPE Icebreaker (Károly Kántás lecture room)

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