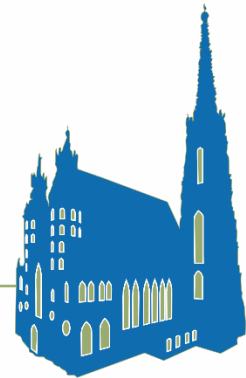
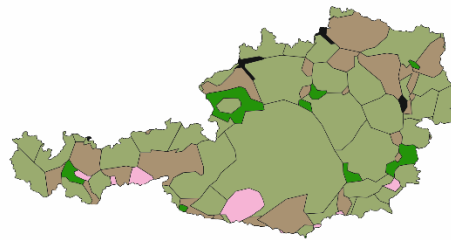
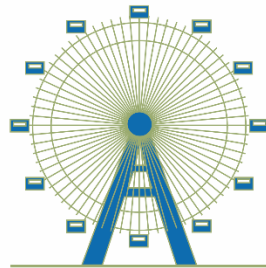


5th Earth Mantle Workshop

13 - 16 July 2025, Vienna, Austria

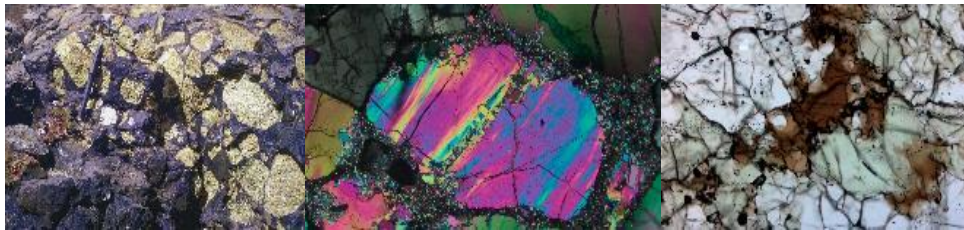
2025th



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Faculty of Earth Sciences,
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ThermoFisher
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Vienna
Meeting
Fund
2025-2028

MEETING
DESTINATION
VIENNA

TIMETABLE

| Sunday, 13.7. | | Monday, 14.7. | | Tuesday, 15.7. | | Wednesday, 16.7. | | Thursday 17.7. | |
|---------------|------------------------------|---------------|-------------------------|----------------|-----------------------|------------------|----------------------|----------------|------------|
| | | 8:00-9:00 | Registration | | | | | | |
| | | 9:00-9:20 | Introduction | 9:00-9:20 | O13 - Woodland | 9:00-9:20 | O22 - Sauvalle | | |
| | | 9:20-9:40 | O1 - Puziewicz | 9:20-9:40 | O14 - Wang | 9:20-9:40 | O23 - Szucs | | |
| | | 9:40-10:00 | O2 - Secchiari | 9:40-10:00 | O15 - Guarino | 9:40-10:00 | O24 - Seghedi | | |
| | | 10:00-10:30 | Coffee break | 10:00-10:30 | Coffee break | 10:00-10:30 | Coffee break | | |
| | | 10:30-11:00 | INV1 - Giuliani | 10:30-11:00 | INV2 - Tilhac | 10:30-10:50 | O25 - Matusiak-Malek | | |
| | | 11:00-11:20 | O3 - Fedortchouk | 11:00-11:20 | O16 - Nardini | 10:50-11:10 | O26 - Cassetta | | |
| | | 11:20-11:40 | O4 - Bonadiman | 11:20-11:40 | O17 - Zanetti | 11:10-11:30 | O27 - Niwa | | |
| | | 11:40-12:00 | O5 - Aulbach | 11:40-12:00 | O18 - Lopez Suarez | 11:30-12:00 | Open discussion | | |
| | | 12:00-13:40 | Lunch break | 12:00-13:40 | Lunch break | | | 9:00-17:00 | Field Trip |
| | | 13:40-14:00 | SPO1 - Larmier (THERMO) | 13:40-14:00 | SPO2 - Sommer (ZEISS) | | | | |
| | | 14:00-14:20 | O6 - Koutsovitis | 14:00-14:20 | O19 - Montanini | | | | |
| | | 14:20-14:40 | O7 - Mikrut | 14:20-14:40 | O20 - Eslami | | | | |
| | | 14:40-15:00 | O8 - Lavecchia | 14:40-15:00 | O21 - Ashchepkov | 12:00-18:00 | | | |
| | | 15:00-15:40 | Coffee break | 15:00-15:40 | Coffee break | | | | |
| | | 15:40-16:00 | O9 - Dominique | | Poster session | | | | |
| | | 16:00-16:20 | O10 - Rizzo | | | | | | |
| | | 16:20-16:40 | O11 - Sandoval | | | | | | |
| | | 16:40-17:00 | O12 - Forster | 15:40-18:00 | | | | | |
| | | 17:00-18:00 | Drinks | | | | | | |
| 15:00-18:00 | Registration and ice-breaker | | | | | | | | |
| | | | | | | 18:00-21:00 | Social dinner | | |

CONFERENCE COORDINATION

Faculty of Earth Science, Geography and Astronomy, University of Vienna
emaw2025@univie.ac.at

Conference and Event Management, Universitätsring 1, 1010 Vienna
T: +43-1-4277-17677
congress@univie.ac.at

SUNDAY – 13th July 2025**Registration and ice-breaker (15:00 – 18:00)**

Faculty of Earth Sciences, Geography and Astronomy of the University of Vienna
Josef-Holaubek-Platz 2 (UZA II), 1090 Vienna

MONDAY – 14th July 2025

Scientific Programme

Faculty of Earth Sciences, Geography and Astronomy of the University of Vienna
 Josef-Holaubek-Platz 2 (UZA II), 1090 Vienna
 ROOM: Hörsaal 2

| | |
|--|---|
| 8:00-9:00 Registration | |
| 9:00-9:20 Introduction | |
| 9:20-10:00 Oral presentations slot A | |
| Convener: Theodoros Ntaflos | |
| 9:20-9:40 | Puziewicz J.* , Aulbach S., Vanderhaeghe O., Grégoire M., Ziobro-Mikrut M. - Xenolithic comment on the evolution of the Variscan orogenic mantle root in Europe |
| 9:40-10:00 | Secchiari A.* , Day J., Srivastava Y., Montanini A., Godard M. - Tracking mantle heterogeneity across the Iberia-Newfoundland conjugate margin: new insights from PGE and Re-Os isotopes |
| 10:00-10:30 Coffee break | |
| 10:30-12:00 Oral presentations slot B | |
| Convener: Federico Casetta | |
| 10:30-11:00 | (INVITED) Giuliani A.* , Howarth G., Tau M., Cai R., Liu J. - The largest diamonds are hosted in iron-rich substrate accreted at the base of the lithosphere |
| 11:00-11:20 | Fedortchouk Y.* , Chinn I. - Evolution of diamond growth and dissolution environments at the base of cratons |
| 11:20-11:40 | Bonadiman C.* , Milani L., Tassinari R., Lenhardt N., Wessels E., Delport P., Rowe L. - Characterization of an Anomalous Garnet Population from the Newlands Kimberlite, South Africa |
| 11:40-12:00 | Aulbach S.* , Hezel D., Moser L., Woodland A. - Wehrlite formation and rift-related mantle-CO ₂ degassing: News from the Eifel Volcanic Field |
| 12:00-13:40 Lunch | |

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| 13:40-15:00 Oral presentations slot C | |
| Convener: Costanza Bonadiman | |
| 13:40-14:00 | (SPONSOR) Larmier S.* , Lefevre N., Salazar Zambrano A., Benedictus A. - Automated Mineralogical Mapping of Serpentinized Peridotites: Implications for H ₂ Generation Potential |
| 14:00-14:20 | Koutsovitis P.* , Ntaflos T., Onuzi K., Hauzenberger C. - Petrogenetic constraints from the refertilized Krrabi massif lherzolites in the Mirdita ophiolite complex, Albania |
| 14:20-14:40 | Mikrut J.* , Matusiak-Matek M., Ceuleneer G., Grégoire M., Onuzi K. - Boninitic and FAB Magmatism in the Kukes Massif (Mirdita Ophiolite, Albania): Evidence for a Jurassic Forearc Segment in the Tethyan Realm |
| 14:40-15:00 | Lavecchia A.* , Kovács I., Koptev A., Cloetingh S. - On the Role of the Mid-Lithosphere Discontinuity in Craton Delamination |
| 15:00-15:40 Coffee break | |
| 15:40-17:00 Oral presentations slot D | |
| Convener: Massimo Coltorti | |
| 15:40-16:00 | Dominique J.* , Bolfan-Casanova N., Moine B. - Hydrogen speciation in ancient mantle |
| 16:00-16:20 | Rizzo A.L.* - Light noble gases and carbon in ultramafic xenoliths provide information of mantle processes |
| 16:20-16:40 | Sandoval-Velasquez A.* , Rizzo A., Aiuppa A., Frezzotti M., Casetta F., Ntaflos T., Boudoire G., France L., Coltorti M., Lo Forte F., Lages P., Romano P., Jackson M. - Fluid Inclusions in Mantle Xenoliths: A Key to Understanding the Deep Carbon Cycle |
| 16:40-17:00 | Forster M.* , Alard O., Demouchy S. - Mapping the distribution of volatiles in mantle xenoliths at the nanoscale with Photo-induced Force Microscopy |
| 17:00-18:00 Drinks | |

TUESDAY – 15th July 2025

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| 9:00-10:00 Oral presentations slot E | |
| Convener: Jacek Puziewicz | |
| 9:00-9:20 | Woodland A.* , Ruckes L., Seitz H. - The nature of the upper mantle beneath the Vogelsberg volcanic field (Germany) as revealed by xenoliths from Ober Widdersheim |
| 9:20-9:40 | Wang Q.* , Kopylova M., Chen Y., Yan H., Kilgore M., Peslier A., Yang J. - Fabric transition of olivine as the cause for an anisotropic seismic discontinuity in the mantle of the northern Slave craton, Canada |
| 9:40-10:00 | Guarino V.* , Bonazzi M., Nimis P., Azzone R., Cariddi B., Zanetti A. - Thermal structure and chemical composition of the subcontinental lithospheric mantle beneath the Alto Paranaíba Igneous Province: insights from xenocrysts and xenoliths trapped in the Três Ranchos kimberlite (APIP, Brazil) |
| 10:00-10:30 Coffee break | |
| 10:30-12:00 Oral presentations slot F | |
| Convener: Rainer Abart | |
| 10:30-11:00 | (INVITED) Tilhac R.* , Garbet L., König S., Garrido C. - First Lu-Hf isotope data from the ultramafic-mafic Jijal Complex, Kohistan arc (Pakistan) |
| 11:00-11:20 | Nardini N.* , Casetta F., Aulbach S., Ntaflos T., Coltorti M. - Diving into the roots of plumbing systems: ultramafic xenoliths from a Triassic diatreme in the Dolomites (Southern Alps, Italy) |
| 11:20-11:40 | Zanetti A.* , Ogunyeye A., Giovanardi T., Mazzucchelli M., Bonazzi M., Salters V., Hémond C., Sanfilippo A., Dallai L. - Post-orogenic K-metasomatism demonstrates lower continental crust recycling in the Earth's mantle |
| 11:40-12:00 | Lopez Suarez M.* , Zanetti A., Tommasi A., Langone A., Padrón Navarta J., Vauchez A., Agostini S., Cosimo Carafa M. - Nature of the mantle-crust transition in the Finero complex (Ivrea-Verbanio Zone, Southern Alps) |
| 12:00-13:40 Lunch | |
| 13:40-15:00 Oral presentations slot G | |
| Convener: Sonja Aulbach | |
| 13:40-14:00 | (SPONSOR) Sommer K* - Get the big picture out of your rock section with your automated slidescanner |

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| 14:00-14:20 | Montanini A.* , Luguët A., van Acken D., Tribuzio R., Schuth S., Nowell G. - From crustal protoliths to mantle garnet pyroxenites: insights from Os isotopes and highly siderophile elements |
| 14:20-14:40 | Eslami A.* , Chardelin M. - Mineralogical and textural characterization of fluid-mediated alteration in chromitite–rodingite associations, Nain Ophiolite, Central Iran |
| 14:40-15:00 | Ashchepkov I.* , Ntaflos T., Tsygankov A., Burmakina G. - Thermobarometry and geochemistry of mantle and lower crust xenoliths in Trans-Khamar-Daban Cenozoic volcanic zone |
| 15:00-15:40 Coffee break | |
| 15:40-18:00 Poster Session | |
| Conveners: Theodoros Ntaflos & Federico Casetta | |
| P1 | Casetta F., Peres S.* , Lanzafame G., Nardini N., Di Muro A. Faccini B., Coltorti M. - 3D imaging of fluid inclusions in mantle xenoliths |
| P2 | Chardelin M.* , Eslami A. - Rodingitization (Ca-metasomatism) Induced by Fluid-Assisted Deformation: A Case Study from the Nain Ophiolite, Central Iran |
| P3 | Chen M.* , Suzuki K., Tejada M., Qing C., Tian W., Hibiya Y., Kikuchi J. - Tungsten composition and isotopes in Taishan komatiites: implications for alloy saturation |
| P4 | Faccini B.* , Brenna M., Casetta F., Nardini N., Briggs R., Eftekhari N., Ntaflos T., Palin J., Coltorti M. - Calc-alkaline and alkaline metasomatism in the lithospheric mantle beneath New Zealand: clues from ultramafic xenoliths from Karioi volcano |
| P5 | Guarino V., Azzone R., Bonazzi M., de Gennaro R., Melluso L.* , Zanetti A. - New insights into the APIP petrogenesis from xenoliths and xenocrysts entrained in the Limeira I kimberlite |
| P6 | Hauzenberger C.* , Konzett J., Joachim-Mrosko B., Nguyen H. - Neogene two-stage metasomatism of the subcontinental lithosphere beneath Southeast Asia – evidence from P-REE enriched peridotite xenoliths from central Vietnam and southern Laos |
| P7 | Hauzenberger C., Kurz W.* , Ntaflos T., Onuzi K. - Occurrence of Tithonian to Early Cretaceous ophiolite mélanges in southern Albania |
| P8 | Heckel C.* , Alard O., Yaxley G. - Caught in the act: Interaction of MARID metasome with peridotite wall rock preserved in a xenolith from Kimberley (Kaapvaal craton) |

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| P9 | Ibantschitz A.* , Ntaflos T., Onuzi K., Koutsovitis P., Hauzenberger C., Kurz W. - The origin of the chromitite-bearing dunites from Tropoja ultramafic massif, northern Albania |
| P10 | Ishikawa A.* , Mori H., Yokoyama T., Kogiso T., Akizawa N. - The origin and evolution of ultra-refractory peridotites in the Kamuikotan belt, Hokkaido, Japan constrained from Re-Os isotope and highly siderophile element systematics |
| P11 | Lin Y.* , Pearce J., Ishikawa A., Buret Y., Liang Y., Wang K., Maruyama S., Chung S. - Subduction initiation at an attenuated continental margin: Geochemical evidence from the Timor peridotites and boninites |
| P12 | Mazurek H.* , Matusiak-Matek M., Pieterek B., Puziewicz J., Ciazela J., Tedonkenfack S. - The composition and origin of sulfides in lherzolite xenoliths from Befang (Cameroon Volcanic Line, W Africa) |
| P13 | Osborne W.* , Savov I., McCaig A., Agostini S., Godard M. - Volatile Element and B, Sr, O Isotope Systematics of the Serpentinized Oceanic Mantle Lithosphere: New Constraints from Recent Deep Drilling at the Atlantis Massif (IODP Exp. 399). |
| P14 | Patko L.* , Aulbach S. - Redox evolution of the lithospheric mantle beneath the Nógrád-Gömör Volcanic Field (Northern Pannonian Basin) |
| P15 | Proßegger P.* , Ntaflos T., Ackerman L., Hauzenberger C., Tran T., Erban V. - Inhomogeneous mantle lithosphere underneath Central Vietnam: petrological and geochemical aspects |
| P16 | Renk S.* , Casetta F., Ntaflos T. - Petrology and geochemistry of mantle xenoliths from Lanzarote (Canary Islands, Spain) |
| P17 | Segall Z.* , Brandl P., Katzir Y. - Source and evolution of post-subduction, potassic magmatism, NE Papua-New-Guinea |
| P18 | Sideridis A.* , Koutsovitis P., Hauzenberger C., Ntaflos T. - Chromitite petrogenesis and mantle geodynamics: insights from the Chalkidiki mantle section, Greece |
| P19 | Zheng X.* , Casetta F., Ntaflos T., Abart R. - The evolution of the Oceanic Lithospheric Mantle beneath Madeira Island: evidence from petrology and geochemistry of ultramafic xenoliths |
| P20 | Ziobro-Mikrut M.* , Puziewicz J., Aulbach S., Kaczmarek M., Ntaflos T., Grégoire M., Matusiak-Matek M. - Lithospheric mantle of the Cenozoic Upper Rhine Rift (Europe): the record in xenoliths from the Vogelsberg (Central Germany) |

WEDNESDAY – 16th July 2025

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| 9:00-10:00 Oral presentations slot H | |
| Convener: Alberto Zanetti | |
| 9:00-9:20 | Sauvalle R.* , Moreira M., Scaillet B. - Constraints on the neon isotopic composition of the lower mantle by single vesicle analyses in Icelandic glasses |
| 9:20-9:40 | Szúcs K.* , Harangi S., Molnár K., Pánczél E., Czuppon G., Konecny P., Lukács R. - Noble gas isotopic composition in olivine phenocrysts from Miocene to Pliocene basaltic rocks of the Pannonian basin |
| 9:40-10:00 | Seghedi A., Kasper H., Seghedi I.* - Neoproterozoic superchondritic OIB-like magmatism in Eastern Moesia; Cokoşu basalts |
| 10:00-10:30 Coffee break | |
| 10:30-11:30 Oral presentations slot I | |
| Convener: Alan Woodland | |
| 10:30-10:50 | Mikrut J., Matusiak-Matek M.* , Kukuła A., Puziewicz J., Aulbach S., Ntaflos T., Grégoire M., Johansson L., Buczek D., Tilhac R. - Southern Sweden's peridotitic xenoliths record the structure and evolution of Earth's mantle beneath the East European Craton margin |
| 10:50-11:10 | Casetta F.* , Ntaflos T., Aulbach S., Faccincani L., Ashchepkov I., Abart R. - Olivine trace element chemistry in spinel to garnet peridotite xenoliths from Udachnaya-East (Siberia) and the chemical log of the sub-cratonic lithospheric mantle |
| 11:10-11:30 | Niwa Y.* , Akizawa N., Alard O., Greau Y., Hirano N., Machida S. - Osmium isotope signatures in petit-spot mantle xenoliths from the northwestern Pacific reveal the presence of ancient, depleted mantle components |
| 11:30-12:00 Open discussion | |

Social dinner (18:00 – 21:00)

Ceremony: best presentation by young researcher (BSc, MSc, PhD students)

Weingut Feuerwehr-Wagner

Grinzinger Str. 53, 1190 Wien

THURSDAY – 17th July 2025

Field Trip (9:00 – 17:00)

Meeting point: Faculty of Earth Sciences, Geography and Astronomy of the University of Vienna - Josef-Holaubek-Platz 2 (UZA II), 1090 Vienna



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