

**3rd EMAW
PAVIA 2018**

3rd EUROPEAN MANTLE WORKSHOP

Pavia, 26-28th June



POSTER SESSION 1

June 26th all day – 27th morning, 2018 – Cortile Sforzesco

01: Ashchepkov I., Ntaflos T., Tostov A.

SDEEP MANTEL ROOTS BENEATH ZARNITSA PIPE, RUSSIA

02: Bhanot K. K., Downes H., Petrone C. M., Humphreys-Williams E.

MICRO-CT SCANNING OF GARNET-SPINEL CLUSTERS IN MANTLE PERIDOTITE XENOLITHS

03: Bianchini G., Bonadiman C.

MANTLE DOMAINS INTERLAYERED AT CRUSTAL DEPTH: EVIDENCE PROVIDED BY PERIDOTITE XENOLITHS FROM COFRENTES, IBERIAN PENINSULA

04: Birski L., Słaby E., Wirth R., Koch-Müller M., Simon K., Wiedenbeck M., Wudarska A.

VOLATILES IN EARLY ARCHEAN MANTLE, INSIDE GIVEN BY APATITE FROM KOMATII FORMATION (SOUTH AFRICA)

05: Borghini G., Fumagalli P., Rampone E.

MELT-ROCK INTERACTIONS IN A VEINED MANTLE: PYROXENITE-PERIDOTITE EXPERIMENTS AT 2 GPa

06: Boschi C., Früh-Green G., Rouméjon S., Schwarzenbach E.

SERPENTINIZATION, METASOMATISM AND MELT IMPREGNATION AT THE ATLANTIS MASSIF (30N, MAR). NEW STUDIES FROM THE IODP EXPEDITION 357

07: Brombin V., Bonadiman C., Coltorti M., Alard O., Gréau Y., O'Reilly S. Y., Griffin W. L., Marzoli A.

IN-SITU Re-Os ANALYSES OF SULFIDES IN MANTLE XENOLITHS: NEW CONSTRAINTS ON THE CRATONIC SIGNATURE OF THE VENETO VOLCANIC PROVINCE (NORTH-EAST ITALY)

08: Buczko D., Matusiak-Matek M., Upton B., Ntaflos T., Puziewicz J., Gregoire M.

ORIGIN OF NON-PERIDOTITIC XENOLITHS AND MEGACRYSTS FROM LOCH ROAG MONCHIQUITE (OUTER HEBRIDES, UK) – PRELIMINARY STUDIES

09: Bussweiler Y., Grützner T., Rohrbach A., Klemme C.

EXPERIMENTAL INVESTIGATION OF THE INTERACTION OF SALINE FLUIDS WITH THE LITHOSPHERIC MANTLE

10: Bussweiler Y., Gervasoni F., Rittner M., Klemme S.

TRACE ELEMENT MAPPING OF EXPERIMENTAL SAMPLES WITH LA-ICP-TOFMS

11: Campos T., Brunelli D., Maia M., Motoki K., Sichel S., Petta R.

GEOCHEMISTRY OF EMERGED ULTRAMAFIC MANTLE ROCKS FROM ST. PETER AND ST. PAUL ARCHIPELAGO, EQUATORIAL ATLANTIC, BRAZIL

12: Casalini M., Avanzinelli R., Elliott T., Tommasini S., Conticelli S.

MOLYBDENEUM ISOTOPES AS TRACERS OF SEDIMENT RECYCLING INTO THE MANTLE

13: Chen H., Ingrin J., Xia Q. K., Deloule E., Gu X. Y., Bi Y.

INFLUENCE OF THE RECYCLED OCEANIC CRUST ON THE INTRAPLATE BASALTS IN SOUTHERN MASSIF CENTRAL, FRANCE: CONSTRAINTS FROM IN-SITU OXYGEN ISOTOPE COMPOSITION AND WATER CONTENT

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14: Consuma G., Braga R., Forster B., Konzett J., Lo Pò D., Tropper P.

CARBONATED VEINS IN OROGENIC PERIDOTITES FROM THE ULTEN ZONE (EASTERN ALPS, ITALY): INSIGHT INTO CARBON TRANSFER THROUGH THE MANTLE WEDGE

15: Corvò S., Langone A., Zanetti A., Padròn-Navarta J. A., Tommasi A.

A GEOCHEMICAL CHARACTERISATION (EMPA AND LAICPMS) OF FINERO PERIDOTITE (SOUTHERN ALPS, ITALY)

16: Corvò S., Padròn-Navarta J. A., Langone A., Zanetti A., Tommasi A.

WATER CONTENT IN NOMINALLY ANHYDROUS MINERALS (NAMS) FROM PERIDOTITE BODIES OF THE IVREA-VERBANO ZONE (SOUTHERN ALPS, ITALY).

17: Ćwiek M., Puziewicz J., Matusiak-Matek M., Ntaflos T., Gregoire M.

EVOLUTION OF THE LITHOSPHERIC MANTLE UNDERLYING NORTHERN HESSIAN DEPRESSION

18: Eslami A., Grieco G., Montanini A., Cavallo A., Aradi L. E., Szabó C., Marchesi C.

MINERALOGY OF CU-RICH HYDROTHERMALLY ALTERED PYROXENITES IN THE CHESHMEH-BID CHROMITITE DEPOSIT, KHAJEH-JAMALI OPHIOLITIC MASSIFS, IRAN: A FIRST REPORT

19: Farré-De-Pablo J., González-Jiménez J. M., Proenza J. A., Colás V., Camprubí A., Centeno E., García-Casco A.

COMMON LINK FOR THE MANTLE SECTION OF OPHIOLITES FROM THE PACIFIC COAST OF MEXICO?

20: Ferrando C., Godard M., Lynn K., Ildefonse B.

RETRIEVING TIMESCALES OF CRUSTAL EVOLUTION AND MANTLE DYNAMICS FROM DIFFUSION PROFILES: THE CASE OF ATLANTIS MASSIF (IODP SITE U1309D, MAR 30°N)

21: Ferrari E., Sbaffi M., Tribuzio R., Zanetti A.

HIGH-PRESSURE RELICS WITHIN A MANTLE BODY ENCLOSED IN THE MIDDLE CONTINENTAL CRUST OF THE IVREA CRUSTAL SECTION (SOUTHERN ALPS)

22: Fiorentini M., Denyszyn S., Dering G., Maas R.

CAMPING IN THE IVREA ZONE, ITALY

23: Gianola O.

THE CRUST-MANTLE TRANSITION OF THE KHANTAISHIR OPHIOLITE (WESTERN MONGOLIA)

24: Giovanardi T., Freddo I., Mazzucchelli M.

THE CLASSIFICATION OF PHLOGOPITE-BEARING ULTRAMAFIC ROCKS: A NEW PROPOSAL

25: Giovanardi T., Mazzucchelli M., Lugli F., Girardi V. A. V., Correia C. T., Tassinari C. C. G., Cipriani A.

CONTAMINATION PROCESSES DURING THE INTRUSION OF THE TONIAN GOIÁS STRATIFORM COMPLEX: A MULTI-ISOTOPE INVESTIGATION

26: Gromilov S., Afanasiev V.

MOISSANITES OF THE POPIGAI IMPACT CRATER

27: Grützner T., Bussweiler Y., Klemme S., Prelević D.

EXPERIMENTS ON MELT FORMATION AND METASOMATISM FROM A MIXED LHERZOLITE + KAERSUTITE-RICH MANTLE SOURCE

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28: Grützner T., Hopp T., Rohrbach A., Klemme S., Kleine T.

EXPERIMENTAL EVIDENCE FOR RUTHENIUM ISOTOPE FRACTIONATION BETWEEN LIQUID METAL AND LIQUID SILICATE

29: Henry H., Ceuleneer G., O'Reilly S. Y., Griffin W. L., Kaczmarek M. A., Gregoire M., Tilhac R.

MICROSTRUCTURE OF LAYERED ULTRA MAFIC CUMULATES: CASE STUDY OF THE BEAR CREEK INTRUSION, TRINITY OPHIOLITE, CALIFORNIA, USA

30: Hidas K., Dilissen N., Garrido C. J., Vizcaíno V. L. S., Kahl W. A., Román-Alpiste M. J.

IMPACT OF FLUID-INFILTRATION ON THE MORPHOLOGY OF PROGRADE OLIVINE DURING HIGH-PRESSURE ATG-SERPENTINITE DEHYDRATION

31: Hidas K, Garrido C. J., Marchesi C., Bodinier J. L., Dautria J. M., Louni-Hacini A., Azzouni-Sekkal A., Román-Alpiste M. G.

DEFORMATION AND MELT-ROCK REACTIONS IN THE SHALLOW SUBCONTINENTAL LITHOSPHERIC MANTLE BENEATH ORAN (TELL ATLAS, N-ALGERIA)

32: Ishimaru S., Saikawa Y., Parlak O., Miura M., Arai S.

PETROLOGY OF ULTRAMAFIC ROCKS OF THE MERSIN OPHIOLITE, SOUTHERN TURKEY; DECIPHERING MANTLE-WEDGE PROCESSES

33: Kargin A., Nosova A., Sazonova L., Lebedeva N., Tretyachenko V.

MULTISTAGE MANTLE METASOMATISM DURING THE GENERATION OF KIMBERLITE MELTS: EVIDENCE FROM GARNET PERIDOTITE XENOLITHS AND MEGACRYSTS, GRIB KIMBERLITE PIPE, ARKHANGELSK DIAMOND PROVINCE, RUSSIA

34: Karkalis C., Magganas A.

Ca-METASOMATISM DURING SERPENTINIZATION IN EXHUMING MANTLE ROCKS WITHIN THE CLOSING TETHYS: THE CASE OF RODINGITE DYKES INTRUDING OLISTOSTROMATIC ULTRAMAFIC BODIES OF KIMI FLYSCH, EVIA ISLAND, GREECE

35: Koutsovitis P., Magganas A., Ntaflos T., Koukouzas N., Rassios A. E.

PETROGENETIC CONSTRAINTS ON THE ORIGIN OF THE HELLENIC TRIASSIC RIFT AND SUBDUCTION-RELATED VOLCANICS

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POSTER SESSION 2

June 27th afternoon – 28th all day, 2018 – Cortile Sforzesco

01: Gürsu S., Köksal S., Möller A., Göncüoğlu M. C.

ANDEAN-TYPE LATE NEOPROTEROZOIC SUBALKALINE MAGMATISM IN SOUTHERN TURKEY: EVIDENCE FOR AN ACTIVE CONTINENTAL MARGIN IN THE PERI-GONDWANAN REALM

02: Gürsu S., Möller A.

CONTINENTAL RIFT RELATED EARLY CAMBRIAN THOLEIITIC MAGMATISM IN THE TAURIDE-ANATOLIDE PLATFORM, WESTERN TURKEY

03: Luoni P., Rebay G., Spalla M. I., Zanon D.

UHP TI-CHONDRODITE IN THE ZERMATT-SAAS SERPENTINITE: CONSTRAINTS ON A NEW TECTONIC SCENARIO

04: Magott R., Berthod C., Chalot-Prat F.

RELATIONSHIPS BETWEEN HYDROTHERMALISM, VOLCANISM AND BRITTLE DEFORMATION ALONG A LARGE DETACHMENT FAULT PRESERVED IN A FOSSIL OCEANIC CORE COMPLEX: INSIGHT FROM THE CHENAILLET OPHIOLITE

05: Mikrut J., Matusiak-Matek M., Johansson L., Ntaflos T., Puziewicz J., Grégoire M.

DIVING BENEATH CRATON – PRELIMINARY RESULTS ON MAFIC AND ULTRAMAFIC XENOLITHS FROM SCANIA (S SWEDEN)

06: Moroni M., Sessa G., Tumiati S., Ferrari E., Langone A.

CARBONATES AND MELT-ROCK REACTIONS IN SULPHIDE-BEARING ULTRAMAFIC INTRUSIONS OF THE IVREA-VERBANO COMPLEX

07: Munnikhuis J. K., Daczko N., Langone A., Piazzolo S.

TRACKING THE SOURCES OF METASOMATIC MELTS IN THE FINERO MAFIC COMPLEX, IVREA-VERBANO ZONE

08: Nformidah-Ndah S. S., Tollan P. M. E., Hermann J.

EVIDENCE OF METASOMATIC PROCESSES IN THE LITHOSPHERIC MANTLE BELOW THE CAMEROON VOLCANIC LINE

09: Ofierska W., Rzegocka S., Manecki M., Awdankiewicz M.

CENOZOIC VOLCANISM IN LOWER SILESIA - NEW DATA ON BASALTIC FLOWS IN GRABISZYCE QUARRY NEAR LEŚNA (SW POLAND)

10: Oliveira B., Tilhac R., Afonso J. C.

A DIFFUSION-CONTROLLED TRACE-ELEMENT DISEQUILIBRIUM MODEL FOR TWO-PHASE REACTIVE TRANSPORT IN MAFIC-ULTRAMAFIC SYSTEMS

11: Pilitsyna A., Tretyakov A., Alifirova T., Degtyarev K.

MULTISTAGE METAMORPHIC EVOLUTION OF THE LOWER PARTS OF OCEANIC LITHOSPHERE IN THE HIGH-PRESSURE ZHELTAU TERRANE (WEST PART OF THE CENTRAL ASIAN OROGENIC BELT): INSIGHTS FROM PETROLOGICAL AND GEOCHEMICAL STUDIES.

12: Pokhilenko L. N., Afanasyev V. P., Pervov V., Korolyuk V. N., Pokhilenko N. P.

THE FIRST DATA ON THE MANTLE XENOLITHS OF THE DIAMONDIFEROUS KIMBERLITE PIPE LUELE (ANGOLA)

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13: Prelević D., Buhre S., Förster M. W.

THE ORIGIN OF ALPINE-HIMALAYAN OROGENIC K-RICH LAVAS: AN INTEGRATED EXPERIMENTAL AND GEOCHEMICAL APPROACH

14: Pujol-Solà N., Proenza J. A., García-Casco A., González-Jiménez J. M., Alpiste M. J. R., Garrido C. J., Melgarejo J. C., Gervilla F.

ZIRCON CORONAS IN CRETACEOUS SUPRASUBDUCTION OPHIOLITIC CHROMITITE BODIES FROM EASTERN CUBA. AN EVIDENCE FOR AN EARLIER SUBCONTINENTAL MANTLE POSITION?

15: Putiš M., Koller F., Li X. H., Nemec O., Spišiak J.

PERMIAN PYROXENITE DYKES IN HARZBURGITE ASSOCIATED WITH CRETACEOUS ECLOGITES AT THE EASTERN AUSTRALPINE MARGIN

16: Radu I. B., Harris C., Moine B. N., Costin G., Cottin J. Y.

ARCHEAN OCEANIC CRUST AND VOLATILE RECYCLING: EVIDENCE PRESERVED IN THE SUBCRATONIC MANTLE

17: Renna M. R., Armandola S., Becker H., Wang Z., Tribuzio R., Sanfilippo A.

MELT-ROCK REACTION AT THE OCEANIC MANTLE- CRUST TRANSITION: EVIDENCE FROM HIGHLY SIDEROPHILE AND CHALCOGEN ELEMENTS IN TROCTOLITES FROM THE JURASSIC ALPINE OPHIOLITES

18: Rumbolo T., Montanini A., Bosch D., Tribuzio R.

CHEMICAL AND ISOTOPIC EVOLUTION OF MANTLE PERIDOTITES DURING PLAGIOCLASE-FACIES MELT-ROCK INTERACTION (TUSCANY OPHIOLITES, ITALY)

19: Salari G., Rahimzadeh B., Agostini S., Masoudi F., Lustrino M.

NEOGENE ULTRABASIC VOLCANIC ROCKS IN CENTRAL URUMIEH-DOHKAR MAGMATIC ARC (NW IRAN): MELILITES AND NEPHELINITES IN SUBDUCTION SETTING

20: Secchiari A., Montanini A., Bosch D., Macera P., Cluzel D.

GEOCHEMICAL AND Sr-Nd-Pb ISOTOPE INVESTIGATION OF THE NEW CALEDONIA HARZBURGITE: UNRAVELLING THE EVOLUTION OF A SUB-ARC MANTLE SOURCE

21: Sessa G., Tiepolo M., Fiorentini M. L., Moroni M., Langone A.

AMPHIBOLE AS WINDOW ON THE ARCHEAN MANTLE COMPOSITION

22: Smoliński W., Gunia P., Natkaniec-Nowak L., Khac G. N., Korybska-Sadło I.

MINERAL CHEMISTRY OF ULTRABASIC ROCKS FROM AM-TIEN HILL, NUI NUA COMPLEX (NORTH VIETNAM) – PRELIMINARY RESULTS

23: Soltanmohammadi A., Gregoire M., Rabinowicz M., Ceuleneer G.

COMPACTION POCKET: A MECHANISM TO EXPLAIN OCCURENCE OF ALKALINE ROCKES IN OROGENIC BELT

24: Tsirikou Kasimati N., Karampelas N., Pomonis P.

GEOLOGICAL AND MINERALOGICAL STUDY OF TRAGANA OPHIOLITIC ROCKS, FTHIOTIS, GREECE

25: Uenver-Thiele L., Gräf C., Woodland A. B., Seitz H. M.

CHARACTERIZATION OF THE METASOMATIC AGENT IN A COMPOSITE XENOLITH FROM MONT COUPET; FRENCH MASSIF CENTRAL (FRANCE): INSIGHTS FROM REDOX AND IN-SITU TRACE ELEMENT SIGNATURES

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26: Villaseca C., Pérez-Soba C.

COMPOSITIONAL VARIATIONS OF PERIDOTITE XENOLITHS OF THE LOS TORMOS VOLCANO (CALATRAVA VOLCANIC FIELD, SPAIN)

27: Zanetti A., Langone A., Corvò S., Tommasi A., Padron-Navarta J.A., Vauchez A., Tiepolo M., Morishita T., Giovanardi T., Mazzucchelli M.

TOWARDS A COMPREHENSIVE INTERPRETATION OF THE EVOLUTION OF THE NORTHERN IVREA-VERBANO ZONE (FINERO COMPLEX, SOUTHERN ALPS)

28: Zemlitskaya A., Prelević D., Buhre S., Förster M. W.

HIGH PRESSURE EXPERIMENTS ON THE ORIGIN OF MANTLE SOURCES FOR ULTRAPOTASSIC MAGMATISM

29: Ziobro M., Puziewicz J., Ntaflos T., Grégoire M., Matusiak-Matek M., Ćwiek M.,

MANTLE XENOLITHS FROM CENOZOIC LAVAS OF THE UPPER RHINE GRABEN: NIDDA (VOGELSBERG) CASE STUDY

30: Kowal-Linka M., Nowak M., Pécskay Z.

A NEW SITE WITH A LARGE CENOZOIC MANTLE XENOLITH-RICH NEPHELINITE DYKE IN SOUTHERN POLAND (OPOLIAN SILESIA)

31: Kowal-Linka M.,

MANTLE ROCK-DERIVED PYROPES AS DETRITAL MATERIAL IN THE LOWER TRIASSIC ARENITES FROM THE NE FORELAND OF THE BOHEMIAN MASSIF: FINDING THE HOST ROCKS

32: Kukuła A., Puziewicz J., Ntaflos T., Grégoire M., Ćwiek M., Matusiak-Matek M.

PRELIMINARY DATA ON MANTLE XENOLITHS FROM ALLEYRAS (DEVÈS VOLCANIC FIELD, FRENCH MASSIF CENTRAL)

33: Lange T. P., Sági T., Kovács I., Ntaflos T., Szabó C., Királ E., Józsa S.

HARRISITIC-LIKE TEXTURE BEARING XENOLITHS FROM THE ČAMOVCE QUARRY, NÓGRAD-GÖMÖR VOLCANIC FIELD

34: Klemme S., Ivanic T., Tordy R., Berndt J.

THE CHEMICAL COMPOSITION OF METASOMATIC MELTS IN THE DEEP LITHOSPHERIC MANTLE: EVIDENCE FROM MARID MANTLE XENOLITHS

35: Bertotto G. W., Giovanardi T., Hémond C., Mazzucchelli M., Zanetti A.

VARIABLE DEPLETION AND METASOMATISM IN MANTLE XENOLITHS FAR AWAY FROM SUBDUCTION ZONE (TORTUGA HILL, CENTRAL PATAGONIA, ARGENTINA)

36: Antonicelli M., Tribuzio R.

EVOLUTION OF MANTLE MELTS INTRUDING THE LOWER CONTINENTAL CRUST: CONSTRAINTS FROM AN ULTRAMAFIC SEQUENCE OF THE IVREA MAFIC COMPLEX