WEDNESDAY 14/09/16

	Arengo	Tempio1	Tempio2	Marina	Parco	Borgo
08.30 09.15	**Plenary Galán**					
09.15 10.00	**Awards Ceremony**					
10.00 10.45	**Plenary Ewing**					
10.45 11.15	Coffee Break					
11.15 11.30	Artioli	Engelhardt	**Rosso**	**Marquardt**	**Frezzotti**	**Downes**
11.30 11.45	Geisweid	Schmitt		Buchen		
11.45 12.00	Germinario	**Kylander-Clark**	Lu	Angel	Berkesi	Hezel
12.00 12.15	Giustetto		Aeppli	Woodland	Shchepetova	Bonadiman
12.15 12.30	Possenti	Jamieson	Brown	Pavese	Mazzucchelli	Di Rocco
12.30 14.00	Lunch Break					
14.00 14.15	Berthold	Reddy	Morris	Reali	Moulas	Murri
14.15 14.30	Rodler	Koreshkova	Kuippers	Jahn	Kiseeva	Carli
14.30 14.45	Mozgai	Molnár	Cleary	Speziale	Kotková	Stangarone
14.45 15.00	Rose	Brandt	Li	Belmonte	Bartoli	Serventi
15.00 15.15	Warchulski	van Schijndel	Kimber	Gouriet	Esposito	Gemelli
15.15 15.45	Coffee Break					
15.45 16.00	Maritan	**Plümper**	Kothe	**Blanchard**	Scambelluri	Wood
16.00 16.15	Ionescu		Medas	Ohmann	Griffiths	Green
16.15 16.30	Bajnóczi	Peters	Consani	Kowalski	Zhong	Zeh
16.30 16.45	Rossano	Gilio	Marescotti	Kéri	Musiyachenko	Koeberl
16.45 17.00	Mastelloni	Malaspina	Chovan	Evans	Hermann	Folco
17.00 18.30	**Poster Sessions**					
18.30 20.00						
20.00 22.00	Conference Dinner					

Wednesday, September 14th

ORAL SESSIONS

MORNING

S9. Inclusions in minerals as record of geological processes: new analysis methods and applications

Conveners: Matteo Alvaro, Silvio Ferrero and Ross Angel

(11.15-12.30) Room - Parco

9-1 11.15 – 11.45
(KEYNOTE) Frezzotti M.L.*: DIAMONDS-BEARING FLUID INCLUSIONS REVEAL CARBON SPECIATION AND SOLUBILITY IN SUBDUCTION ZONE FLUIDS

9-2 11.45 – 12.00
Berkesi M.*, Park M., Szabó C., Jung H. & Kil Y.: MELT AND FLUID INCLUSIONS IN MANTLE XENOLITHS BENEATH THE RIFT SHOULDER (ADAM'S DIGGINGS) OF RIO GRANDE RIFT: EVIDENCES FOR METASOMATISM

9-3 12.00 – 12.15
Shchepetova O.*, Korsakov A.V., Mikhailenko D. & Mikhno A.: RAMAN GEOBAROMETRY OF SOLID AND FLUID INCLUSIONS IN MINERALS FROM THE KOKCHETAV DIAMONDIFEROUS KYANITE GNEISSES

9-4 12.15 – 12.30
Mazzucchelli M.L.*, Burnley P., Angel R.J., Domeneghetti M.C., Nestola F. & Alvaro M.: ELASTIC GEOBAROMETRY: UNCERTAINTIES ARISING FROM THE SHAPE OF THE INCLUSION

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S14. Advances in computational and experimental mineralogy: A journey from the surface to the deep Earth and beyond

Conveners: Azzurra Zucchini, Catherine McCammon, Paola Comodi and Mainak Mookherjee

(11.15-12.30) Room - Marina

14-1 11.15 – 11.30
(KEYNOTE) Marquardt H.*, Kurnosov A., Boffa Ballaran T., Marquardt K., Frost D., Liermann H.-P., Speziale S., Miyagi L., Merkel S., Immoor J., Buchen J. & Schulze K.: INSIGHTS INTO THE NATURE OF EARTH'S MANTLE FROM ELASTICITY AND RHEOLOGY MEASUREMENTS AT HIGH-PRESSURE/HIGH-TEMPERATURE

14-2 11.30 – 11.45
Buchen J.*, Marquardt H., Kurnosov A., Speziale S., Kawazoe T. & Boffa Ballaran T.: INTERNALLY CONSISTENT SINGLE-CRYSTAL ELASTICITY OF IRON-BEARING WADSLEYITE AT HIGH PRESSURES AND HIGH TEMPERATURES

14-3 11.45 – 12.00
Angel R.J.*, Alvaro M., Gonzalez-Platas J. & Nestola F.: NEW FEATURES IN EosFit: FITTING ELASTIC MODULI AND PHASE TRANSITIONS

14-4 12.00 – 12.15
Woodland A.B.*, Uenver-Thiele L. & Boffa Ballaran T.: HIGH P-T STABILITY OF

Fe_5O_6 AND ITS COEXISTENCE WITH OTHER Fe-OXIDES

14-5 12.15 – 12.30
Merli M., Bonadiman C., Diella V., Sciascia L. & Pavese A.*: H*P*-H*T* (Mg,Fe)O SUB-SOLIDUS REACTION MODELLING: IMPLICATIONS FOR LOWER MANTLE GEO-CHEMICAL HETEROGENEITIES

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S18. Planetary materials: from dust to planets and Early Earth

Conveners: Luigi Folco, Armin Zeh and Christian Koeberl

(11.15-12.30) Room - Borgo

18-1 11.15 – 11.45
(KEYNOTE) Downes H.* & Herrin J.S.: Fe-SILICIDE-BEARING METEORITES: FEEDING BODIES FOR REDUCED TERRESTRIAL PLANETS?

18-2 11.45 – 12.00
Hezel D.C.*, Wilden J., Frank-Richter S. & Wombacher F.: Fe ISOTOPE COMPOSITION OF CHONDRULES FROM THE MURCHISON (CM) CHONDRITE

18-3 12.00 – 12.15
Bonadiman C.*, Cruciani G., Franceschelli M., Marchi M., Taricco C., Colombetti P., Bhandari N., Sinha N., Rubinetti S., Romero A., Tassinari R. & Lugari C.: PRELIMINARY PETROLOGICAL STUDY AND GAMMA-ACTIVITY MEASUREMENTS OF SINNAI METEORITE

18-4 12.15 – 12.30
Di Rocco T.*, Nava J., Gemelli M., D'Orazio M., Domeneghetti M.C., Alvaro M., Pack A. & Folco L.: THE METAL-RICH EUCRITE ALH 12073

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S24. The petrology-geochronology connection

Conveners: Robert Anczkiewicz, Daniela Rubatto and Igor Villa

(11.15-12.30) Room - Tempio 1

24-1 11.15 – 11.30
Engelhardt J.*, Sudo M., Stockhecke M. & Oberhänsli R.: CORES FROM ICDP PALEOVAN LINK FELDSPAR TEXTURES TO $^{40}Ar/^{39}Ar$ RESULTS TAKING A LIMNOLOGIC AGE-MODEL INTO ACCOUNT

24-2 11.30 – 11.45
Schmitt A.K.*, Cisneros de León A. & Trail D.: PROTACTINIUM PARTITIONING IN SYNTHETIC AND NATURAL ZIRCON

24-3 11.45 – 12.15
(KEYNOTE) Kylander-Clark A.R.C.*: Laser-ABLATION SPLIT-STREAM PETROCHRONOLOGY

24-4 12.15 – 12.30
Butler J.P., Jamieson R.A.*, Robinson P., Dunning G.R. & Pecha M.: 15 MILLION YEARS OF ULTRA-HIGH-PRESSURE METAMORPHISM IN WESTERN NORWAY: INSIGHTS FROM U-Pb ZIRCON GEOCHRONOLOGY, NORDØYANE DOMAIN

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S25. Biogeochemical interfaces and environmental (bio) mineralogy

Conveners: Giovanni De Giudici, Jonathan Lloyd and Caroline Peacock

(11.15-12.30) Room - Tempio 2

25-1 11.15 – 11.45
(KEYNOTE) Rosso K.M.*: PATHWAYS AND KINETICS OF BIOGEOCHEMICAL REDOX REACTIONS AT THE MOLECULAR SCALE

25-2 11.45 – 12.00
Lu A.*, Li Y., Ding H. & Wang C.: PHOTOELECTRONS TRANSFER BETWEEN MINERALS AND MICROORGANISMS TOWARDS CARBON DIOXIDE FIXATION

25-3 12.00 – 12.15
Aeppli M.*, Brown A.R., Voegelin A., Hofstetter T.B. & Sander M.: REDUCTIVE DISSOLUTION OF IRON(OXYHYDR-)OXIDES AS ASSESSED BY MEDIATED ELECTROCHEMICAL ANALYSIS

25-4 12.15 – 12.30
Brown A.R.*, Aeppli M., Voegelin A., Sander M. & Hofstetter T.B.: ELECTROCHEMICAL CHARACTERISATION OF MICROBIAL Fe(III) REDUCTION

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S27. Mineral sciences for the understanding of cultural heritage

Conveners: Gilberto Artioli, Corina Ionescu and Sabine Klein

(11.15-12.30) Room - Arengo

27-1 11.15 – 11.30
Addis A., Artioli G.*, Marzaioli F., Passariello I., Preto N., Secco M., Terrasi F. & Zorzi F.: RADIOCARBON DATING OF HISTORICAL AND ARCHAEOLOGICAL MORTARS: TASK IMPOSSIBLE?

27-2 11.30 – 11.45
Geisweid J.*, Hofmeister W. & Schaaff H.: ORIGIN AND PROVENANCE OF TUFF FOR THE ROMAN EMPIRE IN *GERMANIA INFERIOR*

27-3 11.45 – 12.00
Germinario L.*, Hanchar J.M., Maritan L., Mazzoli C. & Sassi R.: BULK GEOCHEMISTRY *VS.* MICROCHEMISTRY OF PHENOCRYSTS FOR PROVENANCING VOLCANIC STONES FROM THE SAME QUARRY BASIN – THE CASE OF EUGANEAN TRACHYTE

27-4 12.00 – 12.15
Giustetto R.*, Venturino M., Barale L., d'Atri A. & Compagnoni R.: AN ARCHAEOMETRIC STUDY OF THE NEOLITHIC GREENSTONE INDUSTRY OF BRIGNANO FRASCATA (ITALY): ARCHAEOLOGICAL/MINERO-PETROGRAPHIC IMPLICATIONS AND POSSIBLE SUPPLY SOURCES

27-5 12.15 – 12.30
Possenti E.*, Colombo C., Conti C., Gatta G.D., Merlini M. & Realini M.: CHARACTERIZATION OF NEWLY-FORMED CALCIUM PHOSPHATES STRATIGRAPHIES CRYSTALLIZED ON CALCIUM CARBONATE SUBSTRATES: A MULTI-ANALYTICAL APPROACH

Wednesday, September 14th

ORAL SESSIONS

AFTERNOON

S5. The cycling of hydrogen, carbon, and mobile elements in the subduction factory

Conveners: Jörg Hermann, Timm John and Marco Scambelluri

(15.45-17.00) Room - Tempio 1

5-1 15.45 – 16.15
(KEYNOTE) Plümper O.*, John T., Podladchikov Y., Vrijmoed J.C. & Scambelluri M.: CHANNELIZING REACTIVE POROSITY CONTROLLS FLUID ESCAPE FROM SUBDUCTION ZONES

5-2 16.15 – 16.30
Peters D.*, John T., Scambelluri M. & Pettke T.: FLUID-ROCK INTERACTIONS IN SERPENTINITES SUBDUCTED TO 60-80 KM DEPTH

5-3 16.30 – 16.45
Gilio M.*, Scambelluri M., Agostini S., Pettke T. & Godard M.: SERPENTINITE-DRIVEN EXHUMATION OF THE UHP LAGO DI CIGNANA UNIT IN THE FOSSIL ALPINE PLATE INTERFACE

5-4 16.45 – 17.00
Malaspina N.*, Langenhorst F., Tumiati S., Frezzotti M.L. & Poli S.: THE REDOX BUDGET OF CRUST-DERIVED FLUID PHASES AND IMPLICATIONS FOR THE SLAB-TO-MANTLE ELEMENT TRANSFER

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S9. Inclusions in minerals as record of geological processes: new analysis methods and applications

Conveners: Matteo Alvaro, Silvio Ferrero and Ross Angel

(14.00-15.15) Room - Parco

9-5 14.00 – 14.15
Moulas E.*, Podladchikov Y. & Tajčmanová L.: PHASE TRANSITIONS IN NUMERICAL MODELS

9-6 14.15 – 14.30
Kiseeva E.S.*, Vasiukov D.M., Wood B., Stachel T., McCammon C.A., Chumakov A., Harris J.W. & Dubrovinsky L.: HIGHLY OXIDISED MAJORITIC INCLUSIONS IN DIAMOND

9-7 14.30 – 14.45
Kotková J.* & Čopjaková R.: KINOSHITALITE-BEARING MULTIPHASE INCLUSIONS – CRUSTAL CONTAMINATION OF THE MANTLE

9-8 14.45 – 15.00
Bartoli O.*, Acosta-Vigil A., Ferrero S. & Cesare B.: NANOGRANITOID INCLUSIONS IN HIGH-GRADE METAMORPHIC ROCKS

9-9 15.00 – 15.15
Esposito R.*, Lamadrid H.M., Redi D., Steele-MacInnis M., Bodnar R.J., Manning C.E., De Vivo B., Cannatelli C. & Lima A.: BUBBLE-BEARING MELT ICLUSIONS AS

MINI MAGMA CHAMBERS TO STUDY MELT-VOLATILE EVOLUTION

(15.45-17.00) Room - Parco

9-10 15.45 – 16.00
Scambelluri M.*, Pettke T. & Cannaò E.: POLYPHASE INCLUSIONS IN ALPINE HIGH-PRESSURE PERIDOTITE MONITOR SUBDUCTION-ZONE DEHYDRATION OF SERPENTINIZED MANTLE (CIMA DI GAGNONE, SWISS ALPS)

9-11 16.00 – 16.15
Griffiths T.A.*, Habler G. & Abart R.: USING HOST-INCLUSION CRYSTALLOGRAPHIC ORIENTATION RELATIONSHIPS TO EXTRACT PETROLOGICAL INFORMATION: NEW INSIGHTS FROM LARGE EBSD DATASETS

9-12 16.15 – 16.30
Zhong X.*, Moulas E., Vrijmoed J.C. & Tajčmanová L.: A COUPLED MODEL ON CHEMICAL DIFFUSION AND MECHANICAL DEFORMATION WITH APPLICATION TO AN INCLUSION-HOST SYSTEM

9-13 16.30 – 16.45
Musiyachenko K.A.* & Korsakov A.V.: RAMAN BASED QUARTZ GEOBAROMETRY OF K-BEARING TOURMALINE

9-14 16.45 – 17.00
Hermann J.* & Stepanov A.S.: MULTIPHASE SOLID INCLUSIONS IN DIAMOND-BEARING GNEISSES DOCUMENT DIFFERENT STYLES OF MELTING DURING SUBDUCTION AND EXHUMATION

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S14. Advances in computational and experimental mineralogy: A journey from the surface to the deep Earth and beyond

Conveners: Azzurra Zucchini, Catherine McCammon, Paola Comodi and Mainak Mookherjee

(14.00-15.15) Room - Marina

14-6 14.00 – 14.15
Reali R.*, Boioli F., Gouriet K., Carrez P. & Cordier P.: MODELING PLASTICITY OF MgO AT THE MESOSCALE USING 2.5D DISLOCATION DYNAMICS

14-7 14.15 – 14.30
Jahn S.* & Koch-Müller M.: PHASE BEHAVIOR AND VIBRATIONAL PROPERTIES OF CALCITE-DERIVED $CaCO_3$ POLYMORPHS UP TO 30 GPa: A COMBINED COMPUTATIONAL AND EXPERIMENTAL STUDY

14-8 14.30 – 14.45
Gentili S., Speziale S.*, Zucchini A., Comodi P., Reichmann H.J. & Wunder B.: THE EFFECT OF CATIONS ORDER/DISORDER ON THE ELASTIC PROPERTIES OF DOLOMITE

14-9 14.45 – 15.00
Belmonte D.*: CAN WE PREDICT MELTING BEHAVIOUR OF MINERALS AT DEEP MANTLE CONDITIONS?

14-10 15.00 – 15.15
Gouriet K.*, Boioli F., Devincre B., Carrez P. & Cordier P.: MODELING THE CREEP PROPERTIES OF OLIVINE IN THE LITHOSPHERIC MANTLE FROM DISLOCATION DYNAMICS MODELS

(15.45-17.00) Room - Marina

14-11 15.45 – 16.00
(KEYNOTE) Blanchard M.*: CRYSTAL-CHEMICAL AND ISOTOPIC PROPERTIES OF MINERALS BY COMBINING COMPUTATIONAL AND SPECTROSCOPIC TECHNIQUES

14-12 16.00 – 16.15
Ohmann S.*, Ufer K., Dohrmann R. & Kaufhold S.: DATA RECONCILIATION BETWEEN XRD AND CHEMICAL COMPOSITION DATA FOR QUANTITATIVE ANALYSIS BY LINEAR PROGRAMMING

14-13 16.15 – 16.30
Kowalski P.M.*, Beridze G., Ji Y. & Li Y.: RELIABLE AND EFFICIENT *AB INITIO* SIMULATIONS OF COMPUTATIONALLY CHALLENGING MATERIALS

14-14 16.30 – 16.45
Kéri A.*, Dähn R., Krack M. & Churakov S.: COMBINED *AB INITIO* AND EXAFS SPECTROSCOPY STUDY ON THE CHARACTERISTICS OF IRON UPTAKE BY CLAY MINERALS

14-15 16.45 – 17.00
Evans R.J.* & Groat L.A.: CHARACTERIZING THE DISTORTIONS AND BOND TOPOLOGY OF TETRAHEDRAL AND OCTAHEDRAL GROUPS IN MINERAL CRYSTAL STRUCTURES

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S18. Planetary materials: from dust to planets and Early Earth

Conveners: Luigi Folco, Armin Zeh and Christian Koeberl

(14.00-15.15) Room - Borgo

18-5 14.00 – 14.15
Murri M.*, Scandolo L., Fioretti A.M., Nestola F., Domeneghetti M.C. & Alvaro M.: NEW INSIGHTS ON THEO'S FLOW LAVA USING INTRACRYSTALLINE THERMOMETRY ON AUGITES

18-6 14.15 – 14.30
Carli C.*, Moggi-Cecchi V., Pratesi G. & Capaccioni F.: VNIR REFLECTANCE OF HEDs: SPECTRAL VARIABILITY FROM POWDERS TO SLABS

18-7 14.30 – 14.45
Stangarone C.*, Tribaudino M., Prencipe M., Helbert J., Maturilli A., D'Amore M. & Ferrari S.: MODELLING OF HT-IR SPECTRA OF FORSTERITE FOR REMOTE SENSING

18-8 14.45 – 15.00
Serventi G.*, Carli C., Altieri F., Geminale A., Sgavetti M., Grassi D., Orosei R. & Bellucci G.: SPECTRAL CLASSIFICATION AND MINERALOGICAL CHARACTERIZATION OF NILI FOSSAE (MARS) FOR A BETTER UNDERSTANDING OF HYDRATED MINERALOGIES

18-9 15.00 – 15.15
Gemelli M.*, Di Rocco T., Iacoviello F., Shearing P. & Folco L.: I-TYPE COSMIC SPHERULES: AN X-RAY MICRO-CT STUDY

(15.45-17.00) Room - Borgo

18-10 15.45 – 16.00
Wood B.* & Harrison T.: CONDENSATION TEMPERATURES OF VOLATILE ELEMENTS

AND THEIR ABUNDANCES IN SILICATE EARTH

18-11 16.00 – 16.15
Green E.C.R.*, Artacho E. & Connolly J.A.D.: COSMOCHEMISTRY OF NEAR-CRITICAL SILICATE FLUIDS

18-12 16.15 – 16.30
Zeh A.* & Laurent O.: LINEAR Hf ISOTOPE-AGE ARRAYS OF ARCHEAN CRUSTAL ROCKS: WHAT DO THEY REFLECT? AN EXAMPLE FROM THE PIETERSBURG BLOCK (SOUTH AFRICA)

18-13 16.30 – 16.45
Koeberl C.*: THE IMPACT BOMBARDMENT HISTORY OF THE EARLY EARTH

18-14 16.45 – 17.00
Folco L.*, D'Orazio M., Gemelli M., Rochette P., Gattacceca J. & Glass B.P. : STRETCHING OUT THE AUSTRALASIAN MICROTEKTITE STREWN FIELD IN VICTORIA LAND TRANSANTARCTIC MOUNTAINS: AN UPDATE

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S24. The petrology-geochronology connection

Conveners: Robert Anczkiewicz, Daniela Rubatto and Igor Villa

(14.00-15.15) Room - Tempio 1

24-5 14.00 – 14.15
Reddy S.M.*, Peterman E.M., Saxey D.W., Rickard W.D.A., Fougerouse D., Snoeyenbos D.R. & Kylander-Clark A.R.C.: ATOM PROBE ANALYSIS OF DISCORDANT ZIRCON REVEALS PRESERVATION OF $^{207}Pb/^{206}Pb$ CRYSTALLISATION AGES IN NANOSCALE DISLOCATION LOOPS

24-6 14.15 – 14.30
Koreshkova M.* & Downes H.: ZONING IN GARNETS AND ZIRCONS FROM LOWER CRUSTAL XENOLITHS FROM NW RUSSIA

24-7 14.30 – 14.45
Molnár K.*, Harangi S., Dunkl I., Lukács R., Kiss B., Seghedi I. & Schmitt A.K.: ERUPTION CHRONOLOGY OF A LONG DORMANT VOLCANIC SYSTEM IN THE EASTERN CARPATHIANS

24-8 14.45 – 15.00
Brandt S.*, Raith M.M., Schenk V., Sengupta P., Srikantappa C. & Gerdes A.: DETECTION OF DISTINCT CRUSTAL DOMAINS IN THE SOUTHERN GRANULITE TERRANE (SOUTH INDIA) BY LA-ICP-MS ZIRCON DATING, AND IMPLICATIONS FOR THE GONDWANA FORMATION

24-9 15.00 – 15.15
van Schijndel V.*, Stevens G., Frei D. & Lana C.: MESOARCHAEAN POLYMETAMORPHISM OF THE DWALILE SUPRACRUSTAL SUITE OF THE ANCIENT GNEISS COMPLEX, SWAZILAND

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S25. Biogeochemical interfaces and environmental (bio)mineralogy

Conveners: Giovanni De Giudici, Jonathan Lloyd and Caroline Peacock

(14.00-15.15) Room - Tempio 2

25-5 14.00 – 14.15
Morris K.*, Law G., Lloyd J.R., Livens F., Mosselmans F., Pattrick R., Shaw S.,

Brookshaw D., Newsome L., Rizoulis A., Masters Waage N., Williamson A. & Bots P.: THE IMPACT OF MICROBIAL PROCESSES ON TECHNETIUM, URANIUM AND NEPTUNIUM SPECIATION AND FATE – REDOX CYCLING, BIOMINERALS AND STABILITY OF REACTION PRODUCTS

25-6 14.15 – 14.30
Kuippers G.*, Bryan N., Bagshaw H., Morris K. & Lloyd J.R.: THE REMOVAL OF HEAVY METAL AND RADIONUCLIDE COMPLEXES *VIA* THE BIODEGRADATION OF ISOSACCHARINIC ACID IN NUCLEAR WASTE DISPOSAL

25-7 14.30 – 14.45
Cleary A.*, Newsome L., Lloyd J.R., Shaw S., Boshoff G., Trivedi D., Atherton N. & Morris K.: ENHANCED *IN-SITU* MICROBIAL TREATMENT OF STRONTIUM IN SEDIMENT SYSTEMS BY STIMULATION WITH GLYCEROL PHOSPHATE

25-8 14.45 – 15.00
Li Y., Lu A.* & Ding H.: SEMICONDUCTING PROPERTY OF Fe/Mn OXIDES ON EARTH SURFACE

25-9 15.00 – 15.15
Kimber R.L.*, Pattrick R., Figueroa-Garcia A. & Lloyd J.R.: THE APPLICATION OF SUBSURFACE METAL-REDUCING BACTERIA FOR THE PRODUCTION OF COPPER NANOPARTICLES

(15.45-17.00) Room - Tempio 2

25-10 15.45 – 16.00
Kothe E.*, Klose M., Meier A. & Schütze E.: MICROBIAL MECHANISMS IN BIOMINERALIZATION

25-11 16.00 – 16.15
Medas D.*, De Giudici G., Meneghini C. & Lattanzi P.: ZINC BEHAVIOUR AT THE MINERAL-ROOT INTERFACE: PLANT RESPONSE TO ZINC EXTREME ENVIRONMENTS

25-12 16.15 – 16.30
Carbone C., Consani S.*, Zotti M., Giovine M., Tolotti R., Cutroneo L., Capello M. & Lucchetti G.: MICROORGANISMS IN AMD PROCESSES AND THEIR ROLE IN METALS FATE: THE CASE OF LIBIOLA FE-CU MINE AND GROMOLO STREAM FLOW (EASTERN LIGURIA, ITALY)

25-13 16.30 – 16.45
Chiarantini L., Rimondi V., Benvenuti M., Beutel M.W., Costagliola P. & Lattanzi P.*: BIOMONITORING OF AIRBORNE Hg BY PINUS NIGRA BARKS: AN EXAMPLE FROM THE Mt. AMIATA AREA, SOUTHERN TUSCANY, ITALY

25-14 16.45 – 17.00
Chovan M.*, Števko M., Majzlan J., Radková A., Jamieson H. & Lalinská-Voleková B.: CHEMICAL PROCESSES AND POSSIBLE BIOLOGICAL CONTRIBUTION DURING WEATHERING OF TETRAHEDRITE, $(Cu,Ag)_2(Fe,Zn,Hg)_{10}(Sb,As)_4S_{13}$

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S27. Mineral sciences for the understanding of cultural heritage

Conveners: Gilberto Artioli, Corina Ionescu and Sabine Klein

(14.00-15.15) Room - Arengo

27-6 14.00 – 14.15
Berthold C.*, Bente K. & Keuper M.: NONDESTRUCTIVE CHARACTERIZATION OF

ANTIQUE OBJECTS: SYNERGY BY COUPLING X-RAY MICRODIFFRACTION, MICRO-RAMAN SPECTROSCOPY AND MICRO-X-RAY FLUORESCENCE

27-7 14.15 – 14.30
Fink-Jensen P., Rodler A.S.*, Brøns C., Skriver Hedegaard S. & Klein S.: PROVENANCE OF COPPER USED FOR EGYPTIAN BLUE PIGMENTS OF ANCIENT MEDITERRANEAN ARTEFACTS

27-8 14.30 – 14.45
Mozgai V.*, Bajnóczi B., Fórizs I., Szabó M., Dági M., Mráv Z., Nagy M. & Tóth M.: MINERALOGICAL AND STABLE ISOTOPIC COMPOSITION OF CORROSION PRODUCTS ON A LATE ROMAN COPPER CAULDRON: AN ATTEMPT TO CHARACTERISE THE BURIAL ENVIRONMENT

27-9 14.45 – 15.00
Rose T.*, Klein S. & Hoefer H.E.: MANY A MICKLE MAKES A MUCKLE: Pb ISOTOPE SIGNATURE OF COPPER ORES MAKED BY LEADED INCLUSIONS IN GANGUE MINERALS

27-10 15.00 – 15.15
Warchulski R.*, Gawęda A. & Juszczuk P.: GEOCHEMISTRY AND MINERALOGY IN SERVICE OF CULTURAL HERITAGE PRESERVATION: A CASE OF MUSEUM OF ZINC IN KATOWICE, POLAND

(15.45-17.00) Room - Arengo

27-11 15.45 – 16.00
Maritan L.*, Piovesan R., Dalconi M.C., Vidale M. & Olivieri L.: GOLDEN-SLIP WARE: MANIFACTURING TECHNOLOGY OF A GOLD-LIKE SLIP IN THE FIRST MILLENIUM BC SWAT (NORTHERN PAKISTAN)

27-12 16.00 – 16.15
Ionescu C.*, Berecki S., Hoeck V., Simon V. & Enea- Giurgiu A.: CELTIC FUNERARY POTTERY IN TRANSYLVANIA (ROMANIA): IN THE SEARCH OF RAW MATERIALS

27-13 16.15 – 16.30
Bajnóczi B.*, Szabó M. & Tóth M.: TECHNOLOGICAL STUDIES OF HISTORICAL GLAZES WITH THE USE OF RIGAKU D/MAX RAPID II MICRO-XRD

27-14 16.30 – 16.45
Rossano S.*, Khomenko V., Bedidi A., Loisel C., Ferrand J., Sarrasin L., Bertin A. & Perez A.: GLASS COLOURATIONS CAUSED BY Mn-Fe REDOX PAIR

27-15 16.45 – 17.00
Barone G., Di Bella M., Mastelloni M.A.*, Mazzoleni P., Quartieri S., Raneri S., Sabatino G. & Vailati C.: POTTERY PRODUCTION OF THE PITTORE DI LIPARI: CHEMICAL AND MINERALOGICAL ANALYSIS OF THE PIGMENTS

Wednesday, September 14th

POSTER SESSIONS

Poster Area

S5. The cycling of hydrogen, carbon, and mobile elements in the subduction factory

5-19 **Panel number 1**
Beyssac O.*: INSIGHTS INTO THE CARBON CYCLE IN THE LITHOSPHERE AND THE ROLE OF GRAPHITIC CARBON FROM SUBDUCTION TO EROSION

5-20 **Panel number 2**
Casalini M.*, Avanzinelli R., Elliott T., Tommasini S. & Conticelli S.: MOLYBDENUM ISOTOPES AS TRACERS FOR SUBDUCTION COMPONENTS: THE CASE OF ROMAN MAGMATIC PROVINCE MAGMAS

5-21 **Panel number 3**
Chariton S.*, Bykova E., Cerantola V., Bykov M., Ismailova L., Kupenko I., Aprilis G., McCammon C.A. & Dubrovinsky L.: THE BEHAVIOR OF RHODOCHROSITE ($MnCO_3$) AT EXTREME CONDITIONS

5-22 **Panel number 4**
Clément M.*, Padrón-Navarta J.A., Tommasi A. & Mainprice D.: LOCAL STRESS FIELD DURING SERPENTINE DEHYDRATION INFERRED FROM ORTHOPYROXENE INVERSION TO CLINOENSTATITE

5-23 **Panel number 5**
Förster B.*, Bebout G.E., Bianchini G., Natali C., Aulbach S., Braga R. & Scambelluri M.: MULTI-STAGE CARBONATION AND DECARBONATION IN THE MANTLE-WEDGE: STABLE-ISOTOPE COMPOSITIONS OF CARBONATE PHASES IN ULTRAMAFIC ROCKS OF THE ULTEN ZONE (EASTERN ALPS, ITALY)

5-24 **Panel number 6**
Gudelius D.*, Aulbach S., Seitz H.-M. & Braga R.: METASOMATISM IN THE MANTLE WEDGE: MULTIPLE ISOTOPE CONSTRAINTS FROM OROGENIC PERIDOTITES OF THE ULTEN ZONE (N ITALY)

5-25 **Panel number 7**
John T.* & Vrijmoed J.C.: HYDRATION OF ECLOGITE AT THE PLATE INTERFACE: AN EXAMPLE OF FLUID INFILTRATION INTO A DRY ROCK

5-26 **Panel number 8**
Kovács Z., Patkó L., Aradi L.E., Klébesz R., Hidas K., Garrido C.J., Creon-Bocquet L.* & Szabó C.: ORTHOPYROXENE-ENRICHED, DUNITE VEINED UPPER MANTLE XENOLITHS FROM MINDSZENTKÁLLA (BAKONY-BALATON HIGHLAND, WESTERN PANNONIAN BASIN): TRACES OF A SUBDUCTED SLAB?

5-27 **Panel number 9**
Piccoli F.*, Vitale Brovarone A., Beyssac O., Martinez I., Ague J.J. & Chaduteau C.: CARBONATION BY FLUID-ROCK INTERACTIONS AT HIGH-PRESSURE CONDITIONS: IMPLICATIONS FOR CARBON CYCLING IN SUBDUCTION ZONES

5-28 **Panel number 10**
Poli S.*: EXPERIMENTAL MODELLING OF DISSOLUTION AND MELTING OF SUBDUCTED PELAGIC CARBONATES

5-29 **Panel number 11**
Rosa A.D.*, Mathon O., Pasternak S., Jacobs J., Cardon H., Krstulovic M., Merkulova M., Louvel M., Tsay A., Ghosh S., Liebske C., Irifune T., Munoz M. & Wilke M.: DEVELOPMENT OF AN EXAFS SETUP AT THE BEAMLINE BM23 OF THE ESRF OPTIMIZED FOR STUDYING TRACE ELEMENTS *IN-SITU* UNDER EXTREME *P*/*T* CONDITIONS

5-30 **Panel number 12**
Scambelluri M., Bebout G.E.*, Belmonte D., Gilio M., Campomenosi N. & Crispi-

ni L.: CARBONATION OF SUBDUCTION-ZONE SERPENTINITE (HIGH-PRESSURE OPHICARBONATE; LIGURIAN WESTERN ALPS) AND IMPLICATIONS FOR THE DEEP CARBON CYCLING

5-31 Panel number 13

Secchiari A., Montanini A.*, Bosch D., Macera P. & Cluzel D.: SUBDUCTION-RELATED ULTRADEPLETED MELTS IN A NASCENT ARC: GEOCHEMICAL AND ISOTOPIC EVIDENCE FROM THE INTRUSIVE SEQUENCE OF THE NEW CALEDONIA OPHIOLITE

5-32 Panel number 14

Soder C.*, Romer R.L. & Altherr R.: ORIGIN AND GEODYNAMIC SIGNIFICANCE OF POST-COLLISIONAL K-RICH MAFIC MAGMATISM OF THE VARISCAN OROGEN

5-33 Panel number 15

Wojtulek P.*, Puziewicz J. & Ntaflos T. : DESERPENTINIZATION PHASES IN SERPENTINITES AS METAMORPHISM INDICATORS: A CASE STUDY OF THE LOWER SILESIA (SW POLAND, CENTRAL EUROPE) VARISCAN OPHIOLITES

*****

S9. Inclusions in minerals as record of geological processes: new analysis methods and applications

9-15 Panel number 16

Ageeva O.*, Habler G., Pertsev A. & Abart R.: ORIENTATION RELATIONS OF Fe-Ti-OXIDE MICRO-INCLUSIONS AND THEIR HOSTS IN THE OCEANIC GABBRO

9-16 Panel number 17

Braga R.*, Ferrero S., Wälle M. & Remusat L.: GENESIS AND EVOLUTION OF THE LATE MIOCENE MAGHREBIAN GRANITOIDS UNRAVELED THROUGH THE NANOGRANITES OF LA GALITE ARCHIPELAGO (TUNISIA)

9-17 Panel number 18

Fischer L.A.*, Charlier B., Namur O., Roberts J. & Holtz F.: MELT INCLUSIONS REVEAL IMMISCIBILITY IN THE UPPER ZONE OF THE BUSHVELD COMPLEX

9-18 Panel number 19

Jakubová P.*, Kotková J. & Wirth R.: MICRODIAMONDS AND PIEZOBAROMETRY: POLYCRYSTALLINE AND MULTIPHASE INCLUSIONS REVEALED BY FIB-TEM

9-19 Panel number 20

Kátai O.R.*, Tóth A., Káldos R. & Szabó C.: PETROGRAPHIC AND FLUID INCLUSION STUDY OF BADENIAN SALT ROCKS FROM THE TRANSYLVANIAN BASIN (ROMANIA)

9-20 Panel number 21

Koneyev R.*: MICRO-NANOMINERAL ENSEMBLES – INDICATORS OF FORMATION AND DIRECT EVIDENCES OF VARIOUS TYPES OF GOLD ORES (UZBEKISTAN)

9-21 Panel number 22

Milani S.*, Nestola F., Cerantola V., Anzolini C., McCammon C.A., Novella D., Kupenko I., Chumakov A., Rüffer R. & Harris J.W.: FIRST *IN-SITU* MEASUREMENTS OF Fe^{3+}/Fe_{tot} FOR OXIDES AND SILICATES INCLUDED IN NATURAL DIAMONDS WITH SYNCHROTRON MÖSSBAUER SOURCE

9-22 Panel number 23

Shishkina T.*, Portnyagin M., Botcharnikov R., Almeev R.R. & Holtz F.: EXPERIMENTAL CALIBRATION AND IMPLICATIONS OF OLIVINE-MELT VANADIUM OXYBAROMETRY FOR HYDROUS MAGMAS FROM MUTNOVSKY VOLCANO (KAMCHATKA)

*****

S11. Reading and understanding metamorphic rocks

11-12 Panel number 24

Bucher K.* & Weisenberger T.B.: POLYMETAMORPHIC GARNET PORPHYROBLASTS IN ECLOGITE-FACIES GARNET-PHENGITE SCHISTS FROM THE ZERMATT AREA, CENTRAL ALPS

11-16 Panel number 25

Colás V.*, Tassara C.S., Padrón-Navarta J.A., González-Jiménez J.M., Griffin W.L.,

Fanlo I., O'Reilly S.Y., Gervilla F., Proenza J.A., Pearson N.J., Camprubí A. & Escayola M.: THE EFFECT OF COMPOSITION ON MINOR AND TRACE ELEMENTS IN SPINELS: INSIGHTS FROM EXSOLVED CHROMITE

11-17 Panel number 26

Cruciani G.*, Franceschelli M., Massonne H.-J. & Musumeci G.: P-T CONDITIONS OF THE GARNET-KYANITE GRANULITIC GNEISS FROM TARCU, SOUTH-EAST CORSICA

11-18 Panel number 27

Da Mommio A.*, Zanchetta S., Poli S. & Zanchi A.: NAPPE STACKING AND METAMORPHIC EVOLUTION IN THE WESTERN TAUERN WINDOW

11-19 Panel number 28

Dubacq B.*, De Andrade V. & Plunder A.: TRACE ELEMENTS IN METAPELITES: PARTITIONING, IMAGING AND USE FOR THERMOBAROMETRY

11-20 Panel number 29

Elmi C., Chen J., Goldsby D. & Gieré R.*: A COUPLED ANALYTICAL AND THEORETICAL INVESTIGATION OF ROCK FULGURITES

11-21 Panel number 30

Ferrero S., Palmeri R., Godard G., Wunder B. & Cesare B.*: NANOGRANITOID INCLUSIONS IN ULTRAMAFIC HIGH-PRESSURE GRANULITES FROM DRONNING MAUD LAND, ANTARCTICA

11-22 Panel number 31

Likhanov I.I.* & Nozhkin A.D.: COUNTERCLOCKWISE P-T EVOLUTION AT ~1.75 Ga RECORDED FROM Fe- AND Al-RICH ULTRAHIGH-TEMPERATURE METAPELITIC GRANULITES (YENISEI RIDGE): IMPLICATION FOR PROTEROZOIC SUPERCONTINENT TECTONICS

11-23 Panel number 32

Masci L.*, Dubacq B., Verlaguet A., Chopin C., De Andrade V., Siebert J. & Wehr N. : CRYSTAL CHEMISTRY AND THERMODYNAMICS OF Fe-CHLORITE: SPECIATION AND SITE OCCUPANCY OF IRON

11-25 Panel number 33

Ortolano G., Visalli R.*, Cirrincione R. & Godard G.: A NEW TOOL TO DISPLAY COMPOSITIONAL CHANGES WITHIN METAMORPHIC ZONED MINERALS DUE TO THE DIFFUSION PHENOMENA: THE CASE OF MAMMOLA PARAGNEISS COMPLEX (SERRE MASSIF-SOUTHERN CALABRIA, ITALY)

11-26 Panel number 34

Palmeri R.*, Di Vincenzo G., Godard G., Sandroni S. & Talarico F.M.: PANAFRICAN(?) HP RELICS IN MAFIC-ULTRAMAFIC ROCKS FROM DRONNING MAUD LAND (ANTARCTICA)

11-27 Panel number 35

Pitra P.* & Martínez F.J.: STAUROLITE+KYANITE-BEARING PSEUDOMORPHS AFTER ANDALUSITE (CAP DE CREUS, SPAIN)

11-28 Panel number 36

Tual L.*, Möller C., Pitra P. & Whitehouse M.: TRACKING THE P–T PATH OF PRECAMBRIAN ECLOGITE USING PSEUDOSECTION, Ti-IN-QUARTZ AND Zr-IN-RUTILE THERMOBAROMETRY

11-29 Panel number 37

Waters D.J.* & Utting J.: INCLUSION SUITES IN ECLOGITE GARNETS: UNRELIABLE WITNESSES OF PROGRADE METAMORPHIC HISTORY

*****

S14. Advances in computational and experimental mineralogy: A journey from the surface to the deep Earth and beyond

14-16 Panel number 38

Caracas R.* & Bobocioiu E.: THE WURM PROJECT: COMPUTATIONAL MINERAL PHYSICS, RAMAN SPECTRA, AND A WINDOW TO NEW LOW-TEMPERATURE MINER-

ALOGY
14-17 Panel number 39
Comodi P.*, Nazzareni S., Guidoni F., Balic-Zunic T. & Prakapenka V.: HIGH PRESSURE BEHAVIOUR OF CHALCOSTIBITE
14-18 Panel number 40
Hernández-Laguna A.*, Sainz-Díaz C.I., Hernández-Haro N., Muñoz-Santiburcio D., Pérez Del Valle C., Ortega-Castro J. & Mookherjee M.: ENERGETICS AND COMPRESSIBILITY OF $2M_1$ MUSCOVITE-PHLOGOPITE SOLID-SOLUTION SERIES TO 9 GPa
14-19 Panel number 41
McCammon C.A.*, Chariton S., Cerantola V., Kupenko I., Vasiukov D.M., Aprilis G., Chumakov A. & Dubrovinsky L.: A NUCLEAR INELASTIC SCATTERING WINDOW TO THE DEEP EARTH
14-20 Panel number 42
Merlini M.*, Lotti P., Gatta G.D., Crichton W., Hanfland M., Plaisier J.R. & Lausi A.: CANDIDATE CARBONATE PHASES IN THE EARTH
14-21 Panel number 43
Mookherjee M.*, Hermann A. & Wunder B.: HIGH-PRESSURE ELASTICITY OF PHASE-Pi, $Al_3Si_2O_7(OH)_3$
14-22 Panel number 44
Pedone A., Muniz-Miranda F., Lodesani F., Malferrari D.* & Brigatti M.F.: SEPIOLITE AND PALYGORSKITE INTERACTION WITH CARBON DIOXIDE: EXPERIMENTAL EVIDENCE AND MOLECULAR DYNAMICS SIMULATION
14-23 Panel number 45
Ridolfi F., Oberti R., Zanetti A., Renzulli A.* & Perugini D.: AMFORM.XLSX - A NEW MODEL FOR AMPHIBOLE FORMULA CALCULATION FROM EMP ANALYSES
14-24 Panel number 46
Sun X.-Y., Cordier P.*, Taupin V., Fressengeas C. & Karki B.B.: INFLUENCE OF PRESSURE ON DISCLINATION STRUCTURES AND GRAIN-BOUNDARY MIGRATION OF A {310}/[001] BOUNDARY IN MgO
14-25 Panel number 47
Zucchini A.*, Prencipe M., Belmonte D. & Comodi P.: DOLOMITE TO DOLOMITE-II: A HIGH PRESSURE *AB-INITIO* STUDY

*****

S18. Planetary materials: from dust to planets and Early Earth

18-15 Panel number 48
Moggi-Cecchi V.*, Pratesi G., Caporali S. & Carli C.: PRELIMINARY DATA ON TWO NEW RUMURUTI CHONDRITES FROM NORTHWEST AFRICA
18-16 Panel number 49
Słaby E.*, Karwowski Ł., Majzner K., Wirth R., Muszyński A., Simon K., Domonik A., Moszumańska I., Schreiber A. & Orłowski R.: ALKALI FELDSPAR CRYSTALS FROM MORASKO IAB IRON METEORITE: PRODUCT OF MAGMA DIFFERENTIATION, METASOMATISM OR PROJECTILE - TARGET MATERIAL INTERACTION
18-17 Panel number 50
Ferrari M.*, Rotundi A., Rietmeijer F.J.M., Della Corte V., Baratta G.A., Brunetto R., Dartois E., Djouadi Z., Merouane S., Borg J., Brucato J.R., Le Sergeant d'Hendecourt L., Mennella V., Palumbo M.E. & Palumbo P.: WILD 2 GRAINS CHARACTERIZED COMBINING MIR/FIR/RAMAN MICRO-SPECTROSCOPY AND FE-SEM/EDS ANALYSES
18-18 Panel number 51
Mahan B.*, Siebert J., Pringle E.A. & Moynier F.: METAL-SILICATE CHEMICAL AND ISOTOPIC FRACTIONATION OF Zn AND COSMOCHEMICAL ESTIMATION OF THE S CONTENT OF THE EARTH'S CORE

18-19 Panel number 52
Giera A.*, Słaby E., Wiedenbeck M., Birski L. & Lepland A.: HYDROGEN AND CHLORINE ISOTOPE RATIOS IN EARLY ARCHEAN APATITE CRYSTALS FROM THE ISUA SUPRACRUSTAL BELT, SW GREENLAND – INITIAL RESULTS

18-20 Panel number 53
Birski L.*, Słaby E., Wirth R., Giera A., Lepland A. & Schreiber A.: TRACES OF FLUIDS-APATITE CRYSTALS INTERACTIONS IN ARCHEAN BARBERTON GREENSTONE BELT

18-21 Panel number 54
Farina F.*, Albert C., Aguilar C., Moreno J.A., Narduzzi F. & Lana C.: FROM MEDIUM- TO HIGH-K GRANITOIDS: TOWARDS STABILIZATION OF THE SOUTHERN SÃO FRANCISCO CRATON

18-22 Panel number 55
Hamann C.*, Hecht L., Schäffer S., Deutsch A. & Lexow B.: DECOMPOSITION AND MELTING OF CARBONATES IN CONTACT WITH SILICATE MELTS IN MEMIN LASER MELTING EXPERIMENTS

18-23 Panel number 56
Giuli G.*, Pratesi G., Paris E. & Cibin G.: IRON OXIDATION STATE IN FULGURITE GLASS

18-24 Panel number 57
Muftakhetdinova R.*, Grokhovsky V. & Petrova E.: PRE-TERRESTRIAL SHOCK METAMORPHISM AND EXPERIMENTAL SHOCK-WAVE LOADING IN THE METEORITE MINERALS

*****

S24. The petrology-geochronology connection

24-10 Panel number 58
Cisneros de León A.*, Schmitt A.K. & Weber B.: THE ORIGIN OF BADDELEYITE, SRILANKITE, HÖGBOMITE AND ZIRCON CORONAS IN Ti-Fe ORES FROM THE MARISCAL-SOCONUSCO MASSIF-TYPE ANORTHOSITE COMPLEX, SOUTHEASTERN MEXICO

24-11 Panel number 59
Dias A.N.C.*, Chemale F. Jr, Martins-Ferreira M.A.C., Lana C. & Pereira A.A.: DETRITAL-ZIRCON GEOCHRONOLOGY AND SEDIMENTARY PROVENANCE OF THE SÃO FRANCISCO CRATON COVERS

24-12 Panel number 60
Gürsu S.*, Möller A., Usta D., Köksal S., Ates S., Sunkari E.D. & Göncüoğlu M.C.: LA-ICP-MS U-Pb DETRITAL AND MAGMATIC ZIRCON AGES OF THE LATE ORDOVICIAN GLACIAL DIAMICTITES AND PEBBLES, TAURIDES AND SOUTHEAST ANATOLIAN AUTOCHTHONE BELT, TURKEY: PROVENANCE OF THE NORTHEASTERN GONDWANA (EGYPT-SINAI PENINSULA)

24-13 Panel number 61
Gawęda A.*, Burda J., Klötzli U.S., Golonka J. & Szopa K.: HOW MANY OCEAN FLOORS? GEOCHEMICAL AND GEOCHRONOLOGICAL STUDY OF AMPHIBOLITES FROM THE WESTERN TATRA MOUNTAINS (CENTRAL WESTERN CARPATHIANS)

24-14 Panel number 62
Gilotti J.A.*, McClelland W.C., Coble M.A. & Compagnoni R.: U-Pb SIMS ANALYSIS OF JADEITE-BEARING ORTHOGNEISS AT TAVAGNASCO, SESIA ZONE, WESTERN ALPS, ITALY

24-15 Panel number 63
Giovanardi T.*, Lugli F., Girardi V.A.V., Correia C.T., Tassinari C.C.G., Sinigoi S., Cipriani A. & Mazzucchelli M.: THE LARGE LAYERED GOIAS COMPLEXES: NEW U-Pb AND PRELIMINARY Lu-Hf *IN SITU* ZIRCON ANALYSES FROM BARRO ALTO AND CANA BRAVA

24-16 Panel number 64
Hasalová P.*, Schaltegger U., Schulmann K., Weinberg R.F., Štípská P., Kyland-

er-Clark A.R.C., Holder R. & Sergeev S.: TIMESCALE OF PERVASIVE MELT MIGRATION IN THE CRUST

24-17 Panel number 65

Kiefer S.*, Majzlan J., Gerdes A. & Chovan M.: THE AGE OF HYDROTHERMAL SULFIDIC VEIN MINERALIZATIONS IN VARISCAN BASEMENT ROCKS OF THE NÍZKE TATRY MOUNTAINS (SLOVAKIA)

24-18 Panel number 66

Langone A.*, Zanetti A., Tiepolo M. & Mazzucchelli M.: DATING THE ONSET OF A LOWER CRUSTAL SHEAR ZONE: A (LUCKY) CASE FROM THE NORTHERN SECTOR OF THE IVREA-VERBANO ZONE (VAL CANNOBINA, ITALY)

24-19 Panel number 67

Lugli F., Giovanardi T., Girardi V.A.V., Correia C.T., Tassinari C.C.G., Sinigoi S., Cipriani A. & Mazzucchelli M.*: PRELIMINARY U-Pb LA-ICPMS ZIRCON ANALYSES FROM THE GOIAS COMPLEXES: SHRIMP COMPARISON AND INTRUSION AGE

24-20 Panel number 68

McClelland W.C.*, Gilotti J.A. & Compagnoni R.: DETRITAL ZIRCON GEOCHRONOLOGY OF PARAGNEISS ADJACENT TO JADEITE-BEARING ORTHOGNEISS AT TAVAGNASCO, SESIA ZONE, ITALY

24-21 Panel number 69

Sorokhtina N.V.*, Belyatsky B.V., Antonov A.V., Kononkova N.N. & Lepekhina E.N.: SOURCE OF THE RARE-METAL MINERALIZATION OF THE ELET'OZERO MASSIVE, NORTH KARELIA

*****

S25. Biogeochemical interfaces and environmental (bio) mineralogy

25-15 Panel number 70

Askhabov A.*: THE NONCLASSICAL QUATARON CONCEPT OF CRYSTAL GROWTH

25-16 Panel number 71

Bardelli F., Barone G., Costagliola P., D'Acapito F., De Giudici G., Di Benedetto F., Giuffrida A., Mazzoleni P.*, Montegrossi G. & Podda F.: CONSIDERATION ON THE MOUNT ETNA FINE ASH RAISES CONCERNS FOR THE HEALTH DUE TO THE CHEMICAL RELEASE AND THE IRON BEHAVIOR

25-17 Panel number 72

Marescotti P.*, Cecchi G., Di Piazza S., Lucchetti G., Mariotti M.G. & Zotti M.: MICROFUNGI-MINERAL INTERACTIONS IN SULPHIDE-RICH HARDPANS

25-18 Panel number 73

Haynes H.*, Pearce C., Morris K., Pattrick R., Pimblott S. & Lloyd J.R.: MICROBIAL PROCESSES WITHIN BENTONITE BARRIER MATERIALS

25-19 Panel number 74

He J.*, Zhao S. & Bismayer U.: HIERARCHICAL DOMAIN STRUCTURE OF CALCIUM CARBONATES IN *PINCTADA MARTENSII* SHELLS

25-20 Panel number 75

Izatulina A.R.*, Punin Y.O., Shtukenberg A.G., Kalkura S.N. & Frank-Kamenetskaya O.V.: ON THE FORMATION OF AGGREGATION AND CRYSTALLIZATION STRUCTURES OF HUMAN OXALATE RENAL STONES

25-21 Panel number 76

Li Y.*, Li Y., Xu X., Lu A., Yang X., Wang H. & Ding C.: MINERALOGICAL CHARACTERISTICS OF IRON-MANGANESE CUTANS IN A AND B HORIZON OF SUBTROPICAL SOILS IN CHINA

25-22 Panel number 77

Nixon S.L.*, Cockell C.S. & Lloyd J.R.: MICROBIAL IRON REDUCTION IN EXTREME ENVIRONMENTS

25-23 Panel number 78

Ren G., Ding H., Li Y. & Lu A.*: PROMOTION OF MICROBIAL EXTRACELLULAR ELECTRON TRANSFER BY NATURE HEMATITE

25-24 Panel number 79
Pusceddu C.*, Medas D., De Giudici G., Meneghini C. & Giannoncelli A.: BIOGEOCHEMICAL INTERFACES IN THE HYPORHEIC ZONE OF SAN GIORGIO RIVER (SARDINIA SW, ITALY)
25-25 Panel number 80
Vettorello A.*, Frallonardo P., Nestola F., Oliviero F., Peruzzo L. & Scanu A.: A NEW MULTI-ANALYTICAL APPROACH IN THE STUDY OF SYNOVIAL FLUID CRYSTALS: A COMBINED INVESTIGATION OF ELECTRON MICROSCOPY, MICRO-RAMAN SPECTROSCOPY AND X-RAY MICRO-DIFFRACTION

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S26. Mineral-hazards. The environmental and human health problem represented by raw and man-processed mineral phases

26-15 Panel number 81
Belluso E., Capella S., Di Benedetto F.*, Bardelli F., Giaccherini A., Montegrossi G., Romanelli M., Zoleo A. & D'Acapito F.: PRELIMINARY XAS AND ESE INVESTIGATIONS ON CRYSTALLINE SILICA CONTAINED IN LUNG TISSUES
26-16 Panel number 82
Bloise A.*, Barca D., Gualtieri A.F., Pollastri S. & Belluso E.: TRACE ELEMENTS IN HAZARDOUS MINERAL FIBERS
26-17 Panel number 83
Capella S.* & Belluso E.: RECENT EXPOSURE TO INORGANIC FIBERS AIRBORNE: EVALUATION BY URINE SAMPLES
26-18 Panel number 84
Fornasaro S.*, Marescotti P., Crispini L., Comodi P., Malerba G. & Lercari M.: CHROMIUM AND NICKEL IN SERPENTINITIC SOILS AND ROCKS IN OPHIOLITE FROM DIFFERENT OROGENIC SETTINGS (LIGURIA, ITALY)
26-19 Panel number 85
Funari V.*, Mantovani L., Tribaudino M., Vigliotti L., Braga R. & Dinelli E.: ENVIRONMENTAL RELEVANCE OF SOLID BY-PRODUCTS FROM MUNICIPAL SOLID WASTE INCINERATION ASSESSED BY COMBINING MAGNETIC AND MINERALOGICAL ANALYSIS
26-20 Panel number 86
Giordani M.*, Mattioli M., Valentini L. & Ballirano P.: POTENTIALLY CARCINOGENIC ERIONITE IN ITALY: GEOLOGICAL OCCURRENCE AND RISK ASSESSMENT
26-21 Panel number 87
Giordani M., Mattioli M.*, Ballirano P., Boscardin M. & Valentini L.: PRISMATIC TO EXTREMELY FIBROUS OFFRETITE FROM NORTHERN ITALY: MORPHOLOGICAL AND CHEMICAL DATA OF A POTENTIALLY HAZARDOUS ZEOLITE
26-22 Panel number 88
Gualtieri A.F.*, Pollastri S., Bursi Gandolfi N., Perchiazzi N., Plaisier J.R., Lezzerini M. & Gialanella S.: THE CRYSTAL STRUCTURES OF MINERAL FIBRES
26-23 Panel number 89
Lepore G.O.*, Mazzuoli M., Proposito M., Trovato C. & Armiento G.: As SPECIATION IN VICAN IGNIMBRITES: PRELIMINARY XAS DATA
26-24 Panel number 90
Li Y.*, Wang C., Meng F., Li Y., Lu A., Yang C. & Li K.: MINERALOGICAL CHARACTERIZATION OF CALCIFICATION AGGREGATIONS IN CEREBRAL ARTERIES
26-25 Panel number 91
Petriglieri J.R., Tribaudino M.*, Salvioli-Mariani E., Mantovani L., Bersani D., Lottici P.P., Tomatis M. & Laporte-Magoni C.: A SURVEY OF ASBESTOS MINERALS IN NEW CALEDONIA: PRELIMINARY RESULTS

*****

S27. Mineral sciences for the understanding of cultural heritage

27-16 Panel number 93
Abu El-Enen M.M., Lorenz J., Okrusch M.*, Kamal A.A., von Seckendorff V., Schüssler U., Brätz H. & Schmitt R.-T.: *PORFIDO ROSSO ANTICO* – THE IMPERIAL DIMENSION STONE FROM THE EASTERN DESERT OF EGYPT

27-17 Panel number 94
Bajnóczi B., Györkös D.*, Mozgai V., Szabó M., Tóth M. & Burnichioiu I.: ARCHAEOMETRIC ANALYSIS OF MOSAIC TESSERAE AND A "RED MARBLE" DECORATIVE STONE FROM THE BIZERE MONASTERY (ARAD COUNTY, WESTERN ROMANIA)

27-18 Panel number 95
Barone G., Mazzoleni P., Monterosso G., Raneri S.*, Santostefano A. & Spagnolo G.: EXPLORING THE COROPLASTS "*TECHNE*" IN GREEK ARCHITECTURAL TERRACOTTAS: AN ARCHAEOMETRIC APPROACH

27-19 Panel number 96
Bruni Y.*, Demaude M., Hatert F., George P. & Strivay D.: GEMMOLOGICAL STUDY OF A RELIQUARY CROSS FROM THE LIÈGE CATHEDRAL, BELGIUM

27-20 Panel number 97
Enea-Giurgiu A.*, Ionescu C., Hoeck V. , Tămaș T. & Roman C.: TECHNOLOGICAL CONSTRAINTS FOR LATE NEOLITHIC POTTERY FOUND IN THE SOUTHERN CARPATHIANS (ROMANIA)

27-21 Panel number 98
Gatuingt L.*, Rossano S., Mertz J.-D., Lanson B., Rozenbaum O., Fourdrin C., Reguer S. & Trcera N.: DEVELOPMENT OF MANGANESE-RICH PATINAS ON THE BUILDING SANDSTONES FROM THE LUNEVILLE CASTLE: FROM INITIAL BEARING PHASES TOWARDS FINAL PHASES

27-22 Panel number 99
Kucharova A.* & Prikryl R.: "ATLAS OF CZECH MARBLES": MINERALOGICAL-PETROGRAPHIC AND ISOTOPIC REFERENCE DATABASE FOR PROVENANCE STUDIES

27-23 Panel number 100
Matau F.*, Breaban I.G., Nica V., Matricala A.-L., Bele A. & Stancu A.: CUCUTENI - A POTTERY PRODUCTION IN EASTERN ROMANIA: INSIGHTS FROM COMPOSITIONAL ANALYSIS