

	Arengo	Templo1	Templo2	Marina	Parco	Borgo
08.15 - 8.30			Opening Ceremony			
8.30 - 09.15			Plenary Benning			
09.15 - 09.30						
09.30 - 09.45	Weinberg	Vola	Biró	Hatert	Jollands	Thalhammer
09.45 - 10.00		Dapiaggi	Stalder	Frlis		Tredoux
10.00 - 10.15	Kriegsman	Zöll	Nazzareni	Hälienius	Sunde	S22
10.15 - 10.30	White	D'Elia	Bolfan-Casanova	Juroszek	Li	Bindi
10.30 - 10.45	Racek	Kern M		Zhitova	Rodler	Schertl
10.45 - 11.15		Coffee Break	Stüken		Coffee Break	
11.15 - 11.30	Yakymchuk	Sindern	Ferriss	Makovicky	Lindner	Bowles
11.30 - 11.45		Signori	Massuyeau	Biagioni	Cuesta-Mayorga	Tsikoures
11.45 - 12.00	Ferrero	Novak M	Ding	Cámara	Rulz-Agudo	Escayola
12.00 - 12.15	Dyck	Lotti	Mair	Mugnaioli	Fischer	Mishra
12.15 - 12.30	Daczko	Arietti	Norris	Sokolova	Lacinska	Martin
12.30 - 14.00						
			Lunch Break			
14.00 - 14.15	Petford	Jones		Kahlenberg	Andersson	Kislov
14.15 - 14.30	Wolfram	Nimis		Krzatala	Jonsson	Ariskin
14.30 - 14.45	Fiannacca	Rudloff-Grund	Technical Session	Sharygin	Marlen	Junge
14.45 - 15.00	Tavazzani	Rustioni	S16	Stasiak	Menéndez	Karimova
15.00 - 15.15	Rocchi	Agrosi		Vereshchagin	Quevedo-González	Roqué-Rosell
15.15 - 15.45						
			Coffee Break			
15.45 - 16.00	Kovács	Chinn		Hazen	Sundblad	Villanova
16.00 - 16.15		Litvin		Uher	Onuk	Pushkarev
16.15 - 16.30		Palot	Technical Session	Franz	Barros	Kobé
16.30 - 16.45		Smith		Pankova	Romppanen	Klötzli
16.45 - 17.00		Anzolini		Hazen	Plotinskaya	Vymazalová
17.00 - 18.30			Poster Sessions			

Monday, September 12th

ORAL SESSIONS

MORNING

S3. Volatiles in the deep Earth: storage, mobility and implications

Conveners: *Marc Blanchard, Dan Frost and István Kovács*

(09.30-11.15) Room - Tempio 2

3-1 09.30 – 09.45

Biró T.*, Kovács I., Karátson D., Király E., Falus G., Fancsik T. & Sándorné Kovács J.: SYSTEMATIC DECREASE OF HYDROXYL DEFECT CONCENTRATION IN QUARTZ PHENOCRYST FRAGMENTS WITHIN IGNIMBRITES: IMPLICATIONS FOR POST-DEPOSITIONAL DIFFUSIONAL LOSS OF HYDROGEN

3-2 09.45 – 10.00

Stalder R.*: STABILITY OF HYDROUS DEFECTS IN QUARTZ AT UPPER CRUSTAL CONDITIONS

3-3 10.00 – 10.15

Nazzareni S.*, Barbarossa V., Skogby H., Zanon V. & Petrelli M.: MAGMATIC WATER CONTENT OF PICO VOLCANO (AZORES ISLAND, PORTUGAL) AS RECORDED BY CLINOPYROXENE PHENOCRYSTS

3-4 10.15 – 10.45

(KEYNOTE) Bolfan-Casanova N.*, Schiavi F., Martinek L., Novella D., Bureau H., Raepsaet C. & Demouchy S.: WATER STORAGE IN THE TRANSITION ZONE

3-5 10.45 – 11.15

Stüeken E.E.*: NITROGEN CYCLING IN THE EARLY PRECAMBRIAN: A MAJOR PLAYER IN EARLY EVOLUTION AND GREENHOUSE WARMING

(11.15-12.30) Room - Tempio 2

3-6 11.15 – 11.30

Ferriss E.*, Plank T. & Walker D.: SITE-SPECIFIC HYDROGEN DIFFUSIVITY IN CLINOPYROXENE AND IMPLICATIONS FOR MANTLE XENOLITHS

3-7 11.30 – 11.45

Massuyeau M.*, Le Trong E., Gardés E., Aulbach S., Morizet Y. & Gaillard F.: THERMODYNAMIC MODELING CONSTRAINTS ON INCIPIENT MELT COMPOSITIONS IN THE CARBONATED UPPER MANTLE

3-8 11.45 – 12.00

Ding S.* & Dasgupta R.: THE FATE OF SULFIDE DURING ADIABATIC DECOMPRESSION MELTING – IMPLICATIONS FOR SULFUR BUDGET OF MORB AND OIB SOURCE MANTLE

3-9 12.00 – 12.15

Mair P.*, Tropper P., Manning C.E. & Harlov D.: QUENCH pH MODELLING OF Ce-PO₄-MONAZITE AND YPO₄-XENOTIME-KCl-H₂O SOLUBILITY EXPERIMENTS AT 800° C AND 1 GPa

3-10 12.15 – 12.30

Norris C.A.* & Wood B.: MEASURED VOLATILITIES OF IMPORTANT TRACE ELEMENTS IN THE EARTH

S6. Metamorphism, crustal melting and granite magmas from start to stop and from inclusions to intrusions

Conveners: Antonio Acosta Vigil, Michael Brown, Sergio Rocchi and Richard White

(09.30-10.45) Room - Arengo

6-1 09.30 – 10.00

(KEYNOTE) Weinberg R.F.*: THE ORIGIN OF HIMALAYAN LEUCOGRANITES AND HOW THEY INTERACTED WITH THE OROGEN

6-2 10.00 – 10.15

Kriegsman L.M.*, Dharmapriya P.L. & Malaviarachchi S.P.K.: UHT GRANULITES ABOVE A PALAEO-MOHO: THE SRI LANKAN EXAMPLE OF CRUSTAL DIFFERENTIATION

6-3 10.15 – 10.30

White R.W.* & Palin R.M.: PARTIAL MELTING IN ARCHAEOAN HIGH-GRADE GNEISS TERRAINS

6-4 10.30 – 10.45

Racek M.*, Hasalová P., Závada P., Štípská P., Jeřábek P. & Weinberg R.F.: METAMORPHISM AND MELTING OF METAGRANITOIDS UNDER (U)HP CONDITIONS, EGER CRYSTALLINE COMPLEX (BOHEMIAN MASSIF)

(11.15-12.30) Room - Arengo

6-5 11.15 – 11.45

(KEYNOTE) Yakymchuk C.* & Brown M.: GENERATION, SEGREGATION AND FRACTIONATION OF ANATECTIC MELT IN THE CONTINENTAL CRUST: INSIGHTS FROM WEST ANTARCTICA

6-6 11.45 – 12.00

Ferrero S.*, Wunder B., O'Brien P., Ziemann M.A., Wälle M. & Remusat L.: MELTING OF GRANITES AT MANTLE DEPTHS: TRACE ELEMENTS GEOCHEMISTRY OF NEAR UHP NANOGRANITES AND THEIR PRESERVED WATER, CHLORINE AND CO₂ CONTENTS

6-7 12.00 – 12.15

Dyck B.*, Waters D.J., St-Onge M.R. & Searle M.P.: MUSCOVITE DEHYDRATION MELTING: REACTION MECHANISMS, TEXTURES, AND IMPLICATIONS FOR MELT TRANSFER

6-8 12.15 – 12.30

Daczko N.*, Piazzolo S., Meek U., Stuart C.A. & Elliot V.: THE CURIOUS CASE OF THE IMPOSTER AMPHIBOLE CUMULATES – IDENTIFYING ZONES OF SIGNIFICANT MASS TRANSFER THROUGH THE LOWER CRUST

S10. Mineral reaction kinetics: microstructures, textures, chemical and isotopic signatures

Conveners: Rainer Abart, Wilhelm Heinrich and Encarnación Ruiz Agudo

(09.30-10.45) Room - Parco

10-1 09.30 – 10.00

(KEYNOTE) Jollands M.C.*: LINKING EXPERIMENTAL AND NATURAL STUDIES OF DIFFUSION: CURRENT UNDERSTANDING AND FUTURE CHALLENGES

10-2 10.00 – 10.15

Sunde Ø.*, Friis H., Andersen T. & Selbekk R.S.: PRELIMINARY MAJOR- AND TRACE-ELEMENT DATA OF WÖHLERITE FROM MIASKITIC AND MILDLY AGPAITIC PEGMATITES OF THE LARVIK PLUTONIC COMPLEX, OSLO REGION, NORWAY

10-3 10.15 – 10.30

Li C.*, Griffiths T.A., Pennycook T.J., Mangler C., Götze L.C., Jeřábek P., Meyer J., Habler G. & Abart R.: INTERFACE MIGRATION MECHANISM ON CORUNDUM/SPINEL/PERICLASE: ATOMIC STUDY VIA SCANNING TRANSMISSION ELECTRON MICROSCOPY

10-4 10.30 – 10.45

Rodler A.S.*, Baldermann A., Dietzel M. & Frei R.: CHROMIUM ISOTOPE FRACTIONATION DURING COPRECIPITATION WITH CALCITE USING CO₂-DIFFUSION TECHNIQUE

(11.15-12.30) Room - Parco**10-5 11.15 – 11.30**

Lindner M.*, Saldi G.D., Schott J. & Jordan G.: CRYSTAL GROWTH KINETICS IN THE Ba-Mg-CO₃ SYSTEM: NEW INSIGHTS INTO LOW-TEMPERATURE Mg-CARBONATE GROWTH AND THE DOLOMITE PROBLEM

10-6 11.30 – 11.45

Cuesta-Mayorga I.*, Astilleros J.M., Roncal-Herrero T., Grattoni C.A., Fernández-Díaz L. & Benning L.G.: CARBONATION OF GYPSUM AND ANHYDRITE: INFLUENCE OF THE CARBONATE BEARING SOLUTION CONCENTRATION ON ITS REACTION PATHWAYS AND POROSITY

10-7 11.45 – 12.00

Ruiz-Agudo C.*, Ruiz-Agudo E., Putnis C.V. & Putnis A.: REPLACEMENT PROCESSES IN EVAPORITES: GYPSUM TO BARITE REACTIONS

10-8 12.00 – 12.15

Fischer C.* & Lutge A.: A NEW PATHWAY TO PREDICT WATER-ROCK REACTION RATES

10-9 12.15 – 12.30

Lacinska A.M.*, Styles M.T., Bateman K., Wagner D., Hall M.R., Gowing C. & Brown P.D.: THE IMPACT OF INTRINSIC MICRO-PROPERTIES OF SERPENTINE MINERALS ON REACTION KINETICS AND Mg EXTRACTION EFFICIENCY IN THE CONTEXT OF ACID-TREATMENT FOR CARBON CAPTURE AND STORAGE

S13. Ores, minerals and geomaterials in industrial processes and human activities

Conveners: Piergiulio Cappelletti, Jan Elsen, Bernard Grobety and Jussi Liipo

(09.30-10.45) Room - Tempio 1**13-1 09.30 – 09.45**

Vola G.*, Cruciani G., Rodeghero E., Natali C., Bianchini G. & Brignoli G.: INVESTIGATION AND PREDICTION OF LIME AGGLOMERATION, STICKING TENDENCY, AND BLOCKS FORMATION IN VERTICAL DOUBLE SHAFT REGENERATIVE KILNS FOR THE PRODUCTION OF HIGH-CALCIUM OR MAGNESIUM-RICH QUICKLIME

13-2 09.45 – 10.00

Dapiaggi M.*, Pavese A., Pagliari L., Maffioli A., Sciascia L., Merli M., Diella V. & Francescon F.: INFLUENCE OF ALTERNATIVE MINERALISERS IN TRADITIONAL CE-

RAMICS

13-8 10.00 – 10.15

Zöll K.*, Kahlenberg V. & Tropper P.: INVESTIGATION ON THE STABILITY FIELD OF FCAM-I, AN ISO-STRUCTURE TO SFCA-I

13-4 10.15 – 10.30

D'Elia A.*, Pinto D., Eramo G. & Laviano R.: EFFECTS OF MECHANICAL AND THERMAL ACTIVATION METHODS ON REACTIVITY OF CALCAREOUS CLAYS AS PRECURSORS FOR GEOPOLYMERS

13-5 10.30 – 10.45

Kern M.*, Kästner J. & Gutzmer J.: LITHOLOGICAL UNITS AND Sn DEPARTMENT OF A COMPOSITIONALLY COMPLEX SKARN ORE (HÄMMERLEIN, ERZGEBIRGE, GERMANY)

(11.15-12.30) Room - Tempio 1**13-6 11.15 – 11.30**

Gronen L., Sindern S.*, Meyer M. & Hellmann A.: RARE METAL AND REE DEPARTMENT IN ALKALINE GRANITES AND SYENITES: CHANCES AND CHALLENGES FOR GEOMETALLURGY

13-7 11.30 – 11.45

Signori G.*, Zucali M., Migliazza R., Lucchelli A. & Sturaro E.: QUANTITATIVE ANALYSIS OF CRYSTAL/GRAIN SIZES AND THEIR DISTRIBUTIONS IN 2D AND 3D AIMED TO PREDICTING TECHNICAL PROPERTIES OF DIMENSION STONES

13-8 11.45 – 12.00

Novak M.*, Jež J., Šolc U. & Bavec M.: PLATY LIMESTONE AS CHARACTERISTIC NATURAL AND CULTURAL HERITAGE ALONG THE ADRIATIC KARSTIC COAST

13-9 12.00 – 12.15Lotti P.*, Joseph B., Gatta G.D., Comboni D., Lausi A., Merlini M. & Pastero L.: HIGH-*P* BEHAVIOR OF ZEOLITES IN "PENETRATING" FLUIDS: RECENT INSIGHTS AND NEW OPPORTUNITIES FROM *X*PRESS, THE HIGH-*P* DEDICATED DIFFRACTION BEAMLINE AT ELETTRA**13-10 12.15 – 12.30**

Arletti R.*, Ronchi L., Quartieri S., Vezzalini G., Ryzhikov A., Nouali H., Daou T.J. & Patarin J.: NON-WETTING FLUID INTRUSION IN HYDROPHOBIC MEDIA: STRUCTURAL INTERPRETATION OF THE ENERGETIC PERFORMANCE OF PURE-SILICA FERRIERITE

S16. New minerals, modular structures and mineral groups*Conveners: Luca Bindi, Stuart Mills, Marco Pasero and Igor Pekov***(09.30-10.45) Room - Marina****16-1 09.30 – 09.45****(KEYNOTE)** Hatert F.*, Mills S.J., Pasero M. & Hålenius U.: NEW CHALLENGES IN MINERAL NOMENCLATURE AND CLASSIFICATION**16-2 09.45 – 10.00**

Friis H.*: HEXANIOBATES, A NEW GROUP OF MINERALS

16-3 10.00 – 10.15Hålenius U.*, Panikorovskii T.L. & Shilovskikh V.V.: ELECTRONIC *d-d* TRANSITIONS AND INTERVALENCE CHARGE TRANSFER PROCESSES IN 3d-CATIONS IN CYPRINE

AND CHEMICALLY RELATED VESUVIANITE GROUP MINERALS

16-4 **10.15 – 10.30**

Juroszek R.*, Galuskina I.O., Vapnik Y.A. & Galuskin E.V.: Se-BEARING THAUMASITE FROM PYROMETAMORPHIC ROCKS OF THE HATRURIM COMPLEX IN JORDAN

16-5 **10.30 – 10.45**

Zhitova E.S.*, Krivovichev S.V., Pekov I.V. & Yakovenchuk V.N.: HYDROTALCITE-GROUP AND QUINTINITE-GROUP MINERALS: STRUCTURAL CHARACTERIZATION AND IDENTIFICATION FEATURES

(11.15-12.30) Room - Marina

16-6 **11.15 – 11.30**

(KEYNOTE) Makovicky E.*, Topa D. & Stroeger B.: NEW MODULAR PRINCIPLES AND STRUCTURES DEFINED FOR THE SARTORITE HOMOLOGOUS SERIES OF Pb-AND(Sb)-Ag-Tl SULFOSALTS

16-7 **11.30 – 11.45**

Biagioni C.*, Dini A., Merlino S., Mořlo Y., Orlandi P., Paar W.H., Pasero M. & Zaccarini F.: JORDANITE HOMOLOGUES FROM THE POLLONE MINE (APUAN ALPS, ITALY): THE GEOCRONITE-JORDANITE ISOTYPIC PAIR AND THE NEW N = 3.5 HOMOLOGUE MARCOBALDIITE

16-8 **11.45 – 12.00**

Cámara F.* & Ciriotti M.E.: POLYTYPISM, TOPOLOGICAL AND CRYSTALCHEMICAL RELATIONS AMONG NATROCHALCITE GROUP AND BRACKEBUSCHITE GROUP MINERALS

16-9 **12.00 – 12.15**

Mugnaioli E.*, Rozhdestvenskaya I.V., Czank M., Depmeier W., Schowalter M., Rosenauer A. & Schmidt M.U.: STRUCTURE, POLYTYPISM AND DISORDER OF DENISOVITE, $K_{14}Ca_{42}Na_6Si_{60}O_{167}F_{16}(OH)_4 \cdot 2H_2O$, OBTAINED BY A COMBINATION OF (S) TEM IMAGING, ELECTRON DIFFRACTION TOMOGRAPHY AND X-RAY POWDER DIFFRACTION

16-10 **12.15 – 12.30**

Sokolova E.* & Cámara F.: FROM CHEMICAL COMPOSITION TO STRUCTURE TOPOLOGY IN TITANIUM SILICATES (TS-BLOCK MINERALS)

S22. Platinum group minerals and accessory minerals: development in their characterisation

Conveners: Oskar Thalhammer, Anna Vymazalova and Federica Zaccarini

(09.30-10.45) Room - Borgo

22-1 **09.30 – 09.45**

Thalhammer O.A.R.*, Zaccarini F., Strauss V. & Gallas P.: MELLINIITE, SECOND DISCOVERY OF THIS RARE PHOSPHIDE FROM AN ARGENTINIAN Fe-Ni-METEORITE

22-2 **09.45 – 10.15**

(KEYNOTE) Tredoux M.*: THE PGE: ARE THEY PARTY ANIMALS OR LONE DOGS? A LOOK AT WHAT THEIR MINERALOGY HAS TO SAY

22-3 **10.15 – 10.30**

Bindi L.*, Lin C., Ma C. & Steinhardt P.J.: LATEST NEWS FROM THE KHATYRKA METEORITE

22-4 10.30 – 10.45

Schertl H.-P.*, Hertwig A., Maresch W. & Li X.-P.: PETROLOGICAL SIGNIFICANCE OF MINERAL INCLUSIONS IN ACCESSORY MINERALS OF HP AND UHP ROCKS: THE PROBLEM OF INCLUSIONS AND "PSEUDO-INCLUSIONS"

(11.15-12.30) Room - Borgo

22-18 11.15 – 11.30

Bowles J.F.W.*, Suárez S., Prichard H.M. & Fisher P.C. :ALTERATION OF PRIMARY PLATINUM-GROUP MINERALS DURING WEATHERING OF THE FREETOWN LAYERED COMPLEX, SIERRA LEONE

22-6 11.30 – 11.45

Tsikouras B.*, Sharif A.H., Ifandi E., Hamdan H., Tarif R., Sulaiman H. & Teo C.H.: SPINEL CHEMISTRY FOR THE CHARACTERISATION OF PERIDOTITES FROM SABAH (BORNEO ISLAND, MALAYSIA)

22-7 11.45 – 12.00

Escayola M.*, Pimentel M. & Ramos V.A.: ZIRCON AND MONAZITE REVEAL THE METAMORPHIC EVOLUTION OF THE EASTERN PAMPEAN RANGES, ARGENTINA

22-8 12.00 – 12.15

Mishra B.*, Ozha M.K. & Pal D.C.: GEOCHEMICAL AND TEMPORAL EVOLUTION OF ACCESSORY URANINITE FROM THE PUR-BANERA BASIN, NORTHWESTERN INDIA: EVIDENCE OF HREE+Y-METASOMATISM

22-9 12.15 – 12.30

Barkov A.Y., Shvedov G.I., Polonyankin A.A. & Martin R.F.*: UNUSUAL PALLADIUM-THALLIUM MINERALIZATION IN THE ANOMAL'NYI DEPOSIT, KONDYOR RING COMPLEX, NORTHERN KHABAROVSKIY KRAY, RUSSIA

Monday, September 12th

ORAL SESSIONS

AFTERNOON

S1. Diamonds: open windows in the Earth's mantle

Conveners: H el ene Bureau, Fabrizio Nestola and Mikhail Sami

(14.00-15.15) Room - Tempio 1

1-1 14.00 – 14.15

Jones A.*, Alvaro M. & Nestola F.: DIAMOND: MESSENGERS FROM DEEP SPACE AND DEEP TIME AND OLDER THAN THE EARTH?

1-2 14.15 – 14.30

Nimis P.*, Alvaro M., Nestola F., Angel R.J., Marquardt K., Rustioni G. & Harris J.W.: HYDROUS SILICIC FLUID FILMS AROUND SOLID INCLUSIONS IN GEM-QUALITY DIAMONDS

1-3 14.30 – 14.45

Rudloff-Grund J.*, Brenker F.E., Marquardt K., Howell D., O'Reilly S.Y. & Kaminsky F.V.: NH-BEARING NANOINCLUSIONS IN MILKY DIAMONDS FROM JUINA AREA, MATO GROSSO, BRAZIL

1-4 14.45 – 15.00

Rustioni G.*, Angel R.J., Mazzucchelli M.L., Milani S., Nimis P., Domeneghetti M.C., Marone F., Harris J.W., Nestola F. & Alvaro M.: PRESSURE RELEASE FOR HOST – INCLUSION SYSTEMS: THE INTERPLAY BETWEEN BRITTLE FAILURE AND FLUID PHASE

1-5 15.00 – 15.15

Agrosi G.*, Tempesta G., Mele D., Allegretta I., Terzano R., Hutchison M.T. & Nestola F.: X-RAY DIFFRACTION TOPOGRAPHY, MICRO-TOMOGRAPHY AND MICRO X-RAY FLUORESCENCE OF DIAMONDS AND THEIR TRAPPED INCLUSIONS: A MULTI-ANALYTICAL APPROACH FOR NON-DESTRUCTIVE ANALYSES

(15.45-17.00) Room - Tempio 1

1-6 15.45 – 16.00

Chinn I.*, Perritt S. & Stiefenhofer J.: CARBON ISOTOPE, NITROGEN ABUNDANCE AND NITROGEN AGGREGATION STATE DATA FOR DIAMONDS FROM ORAPA MINE: A CLEAR SUBDUCTION SIGNATURE?

1-7 16.00 – 16.15

Litvin Y.A.*, Kuzuya A.V. & Spivak A.V.: MANTLE-CARBONATITE CONCEPT OF DIAMOND ORIGIN AT 150-800 KM LEVELS

1-8 16.15 – 16.30

Palot M.*, Jacobsen S.D., Townsend J.P., Nestola F., Marquardt K., Harris J.W., Stachel T., McCammon C.A. & Pearson D.G.: EVIDENCE FOR H₂O-BEARING FLUIDS IN THE LOWER MANTLE FROM DIAMOND INCLUSION

1-9 16.30 – 16.45

Smith E.M.*, Shirey S.B., Nestola F. & Wang W.: METALLIC INCLUSIONS IN UNIQUE TYPE IIA DIAMONDS

1-10 16.45 – 17.00

Anzolino C.*, Drewitt J.W.E., Lord O.T., Walter M.J. & Nestola F.: JEFFBENITE (EX-

"TAPP"): A HIGH-PRESSURE MARKER IN DIAMONDS

S6. Metamorphism, crustal melting and granite magmas from start to stop and from inclusions to intrusions

Conveners: Antonio Acosta Vigil, Michael Brown, Sergio Rocchi and Richard White

(14.00-15.15) Room - Arengo

6-9 14.00 – 14.15

Petford N.*: FORCE AND MOMENTUM IN GRANITE EMPLACEMENT

6-10 14.15 – 14.30

Wolfram L.C.*, Weinberg R.F. & Becchio R.: ROLE OF MELT SEGREGATION STYLE ON GRANITE CHEMISTRY AND MULTIPLE MELTING EVENTS IN THE SIERRA DE QUILMES, NW ARGENTINA

6-11 14.30 – 14.45

Fiannacca P.*, Williams I.S. & Cirrincione R.: ORIGIN, TIMING AND ACCRETION MODES OF POST-COLLISIONAL BATHOLITHS: THE MESSAGE FROM GEOCHEMISTRY, ZIRCON OXYGEN ISOTOPES AND U-Pb AGES OF THE CRUST-DERIVED SERRE BATHOLITH (CALABRIA, SOUTHERN ITALY)

6-12 14.45 – 15.00

Tavazzani L.*, Peres S., Sinigoi S., Demarchi G., Quick J.E. & Klötzli U.S.: EMPLACEMENT AND REJUVENATION OF A GRANITIC BATHOLITH: THE VALLE MOSSO PLUTON (SESIA MAGMATIC SYSTEM)

6-13 15.00 – 15.15

Rocchi S.*, Vezzoni S. & Dini A.: SLIDING OF THERMALLY WEAKENED PLUTON OVERBURDEN AT CAMPIGLIA MARITTIMA (TUSCANY)

S16. New minerals, modular structures and mineral groups

Conveners: Luca Bindi, Marco Pasero, Igor Pekov and Stuart Mills

(14.00-15.15) Room - Marina

16-11 14.00 – 14.15

Kahlenberg V.*, Braun D.E., Krüger H., Orlova M. & Schmidmair D.: TEMPERATURE AND MOISTURE DEPENDENT INVESTIGATIONS ON ALUNOGEN AND THE CRYSTAL STRUCTURE OF META-ALUNOGEN

16-12 14.15 – 14.30

Krzątała A.*, Galuskina I.O., Galuskin E.V. & Vapnik Y.A.: POTENTIAL NEW VANADIUM MINERAL BELONGING TO THE APATITE GROUP FROM HATRURIM COMPLEX, ISRAEL

16-13 14.30 – 14.45

Sharygin V.V.*, Doroshkevich A.G., Seryotkin Y.V., Karmanov N.S., Belogub E.V. & Moroz T.N.: A NEW K-Nb-CYCLOSILICATE $K_2(Nb,Ti)_2(Si_4O_{12})O(O,F)$ FROM CHUKTUKON CARBONATITE MASSIF, CHADOBETS UPLAND, RUSSIA

16-14 14.45 – 15.00

Stasiak M.*, Galuskin E.V., Kusz J., Galuskina I.O., Krzykawski T., Vapnik Y.A., Murashko M. & Dulski M.: POTENTIALLY NEW MINERAL $\{Ca(OH_2)_2\}[Zn_2(OH)_6]$ FROM THE HATRURIM COMPLEX, DABA - SIWAQA, JORDAN

16-15 **15.00 – 15.15**

Vereshchagin O.S.*, Rozhdestvenskaya I.V., Frank-Kamenetskaya O.V. & Zolotarev A.A.: CRYSTAL CHEMISTRY OF 3d-ELEMENTS BEARING TOURMALINES: CATION DISTRIBUTION - MAXIMUM CONCENTRATION - CHEMICAL DEFORMATIONS

S17. Mineral diversity, complexity and evolution

*Conveners: Sergey Krivovichev and Edward Grew***(15.45-17.00) Room - Marina****17-1** **15.45 – 16.00****(KEYNOTE)** Hazen R.M.*, Hystad G., Golden J.J., Hummer D.R., Liu C., Downs R.T., Morrison S.M., Grew E.S. & Krivovichev S.V.: RECENT ADVANCES IN MINERAL EVOLUTION AND MINERAL ECOLOGY**17-2** **16.00 – 16.15**

Uher P.*, Kohút M., Ondrejka M. & Konečný P.: EVOLUTION OF REE MINERALS

17-3 **16.15 – 16.30**

Franz G.*, Khomenko V., Nissen J., Wirth R. & Vyshnevskiy O.: PALEOPROTEROZOIC BUDDINGTONITE FORMATION IN A PSEUDOMORPH AFTER BERYL - AN EXAMPLE OF EARLY ORGANIC-IGNEOUS INTERACTION IN THE EARTH'S HISTORY

17-4 **16.30 – 16.45**Pankova Yu.A.*, Krivovichev S.V., Gorelova L.A., Pekov I.V.: THE CRYSTAL STRUCTURE OF GINORITE, $\text{Ca}_7\text{B}_{14}\text{O}_{20}(\text{OH})_6(\text{H}_2\text{O})_8$, AND THE ANALYSIS OF DIMENSIONAL REDUCTION AND STRUCTURAL COMPLEXITY IN THE $\text{CaO-B}_2\text{O}_3\text{-H}_2\text{O}$ SYSTEM**17-5** **16.45 – 17.00**

Hazen R.M.*, Grew E.S., Origlieri M. & Downs R.T.: ON THE MINERALOGY OF THE "ANTHROPOCENE EPOCH"

S20. High-tech metal minerals in Europe

*Conveners: Krister Sundblad and Erik Jonsson***(14.00-15.15) Room - Parco****20-1** **14.00 – 14.15**

Andersson S.S.*, Wagner T. & Jonsson E.: MINERALOGY AND MINERAL CHEMISTRY OF THE OLSERUM-DJUPEDAL REE DEPOSITS, SOUTHEASTERN SWEDEN

20-2 **14.15 – 14.30**

Jonsson E.*, Majka J., Högdahl K., Harlov D. & Persson-Nilsson K.: REE IN APATITE-IRON OXIDE ORES: THE CASE OF THE PALAEOPROTEROZOIC BERGSLAGEN PROVINCE, SWEDEN

20-3 **14.30 – 14.45**

Marien C.*, Dijkstra A. & Wilkins C.: RØDBERGITE – A POTENTIAL SOURCE FOR REE WITHIN THE FEN COMPLEX, NORWAY

20-4 **14.45 – 15.00**

Menéndez I.*, Mangas J., Quevedo-González L.Á., Tauler E. & Méndez-Ramos J.: RARE EARTH ELEMENTS EXPLORATION OF FELSIC IGNEOUS ROCKS AND THEIR WEATHERING PROFILES ON GRAN CANARIA ISLAND, SPAIN

20-5 15.00 – 15.15

Quevedo-González L.Á.*, Mangas J., Menéndez I., Tauler E. & Méndez-Ramos J.: GEOCHEMICAL CONSTRAINTS ON RARE-EARTH ELEMENT DISTRIBUTION OF SEAMOUNT-DERIVED DEPOSITS FROM AMANAY, BANQUETE AND CONCEPTION BANK (CANARY ISLANDS)

(15.45-17.00) Room - Parco

20-6 15.45 – 16.00

Sundblad K.*, Valkama M., Cook N.J., Nygård R., Lohkov K. & Ivashchenko V.: INDIUM-BEARING POLYMETALLIC MINERALIZATION ASSOCIATED WITH 1.52-1.85 Ga A-TYPE GRANITES IN THE FENNOSCANDIAN SHIELD

20-7 16.00 – 16.15

Onuk P.* & Melcher F.: HIGH-TECH METAL CONTENT OF SPHALERITE FROM EASTERN ALPINE PALEOZOIC SEDIMENT-HOSTED LEAD-ZINC DEPOSITS

20-8 16.15 – 16.30

Barros R.*, Menuge J.F. & Harrop J.: SPODUMENE PEGMATITES IN SOUTHEAST IRELAND: PETROGENESIS AND ECONOMIC POTENTIAL AS A RESOURCE OF LITHIUM AND RARE METALS

20-9 16.30 – 16.45

Romppanen S.*, Kaski S., Järvinen J. & Häkkinen H.: ANALYSIS OF LITHIUM BEARING PEGMATITES BY LASER-INDUCED BREAKDOWN SPECTROSCOPY (LIBS)

20-10 16.45 – 17.00

Plotinskaya O.Y.*, Grabezhev A.I. & Seltmann R.: Re-BEARING Cu-(Mo)-PORPHYRY DEPOSITS OF THE URALS: LINKS TO TECTONIC EVOLUTION

S22. Platinum group minerals and accessory minerals: development in their characterisation

Conveners: Oskar Thalhammer, Anna Vymazalova and Federica Zaccarini

(14.00-15.15) Room - Borgo

22-10 14.00 – 14.15

Kislov E.*, Ariskin A., Danyushevsky L., Goemann K., Nikolaev G. & Malyshev A.: PGE-MINERALOGY OF THE MAIN REEF AND SULFIDE-POOR TROCTOLITE FROM THE YOKO-DOVYREN MASSIF (NORTHERN BAIKAL REGION)

22-11 14.15 – 14.30

Ariskin A.*, Danyushevsky L., Nikolaev G., Gilbert S., Fiorentini M.L., Kislov E. & Barmina G.: GEOCHEMICAL EVOLUTION OF PGM-BEARING SULFIDES IN LOW-MINERALIZED ROCKS FROM THE YOKO-DOVYREN LAYERED INTRUSION, RUSSIA

22-12 14.30 – 14.45

Junge M.*, Oberthür T. & Osbahr I.: PLATINUM-GROUP ELEMENTS AND MINERALS IN THE LOWER AND MIDDLE GROUP CHROMITITES OF THE BUSHVELD COMPLEX, SOUTH AFRICA

22-13 14.45 – 15.00

Karimova O.*, Zolotarev A.A. & Kojonen K.: CRYSTAL STRUCTURE REFINEMENT OF MERTIEITE-II, Pd₈(Sb,As)₃

22-14 15.00 – 15.15

Roqué-Rosell J.*, Aiglsperger T., Portillo J., Plana-Ruiz S., Mendoza J., Trifonov

T. & Proenza J.A.: SUBMICRON STRUCTURAL DETERMINATION OF "TOO-SMALL-TO-STUDY" PGM WITH PRECESSION ELECTRON DIFFRACTION: THE EXAMPLE OF ZACCARINIITE (RhNiAs)

(15.45-17.00) Room - Borgo

22-15 15.45 – 16.00

Aiglsperger T., Villanova-de-Benavent C.*, Rius J., Galí S., Font-Bardia M. & Proenza J.A.: SYNCHROTRON TTS- μ XRD: A POWERFUL TOOL FOR *IN-SITU* MINERALOGICAL IDENTIFICATION OF PGM INCLUDED IN POLISHED THIN SECTION

22-16 16.00 – 16.15

Pushkarev E.*, Ballhaus C., Kamenetsky V. & Wirth R.: MICRO-, AND NANOSCALE FABRICS OF PGM FROM THE VOLCANIC ANKARAMITE AND Pt-RICH CHROMITITE OF THE URAL-ALASKAN-TYPE ULTRAMAFIC COMPLEXES: SEM AND TEM STUDY

22-17 16.15 – 16.30

Kotzé E.*, Schuth S., Oppermann L., Holtz F., Junge M. & Botcharnikov R.: MOBILITY OF PLATINUM AND PALLADIUM UNDER SUPERGENE WEATHERING CONDITIONS IN THE PRESENCE OF ORGANIC MATERIAL: FIRST EXPERIMENTAL RESULTS

22-5 16.30 – 16.45

Klötzli U.S.* : USING ACCESSORY MINERALS TO SHED LIGHT ON THE EVOLUTION OF ROCKS

22-19 16.45 – 17.00

Vymazalová A.* & Pašava J.: PGE OCCURENCES IN THE BOHEMIAN MASSIF: AN OVERVIEW

Monday, September 12th

POSTER SESSIONS

Poster Area

S1. Diamonds: open windows in the Earth's mantle

1-11 Panel number 1

Bureau H.*, Remusat L., Esteve I., Pinti D.L., Cartigny P. & Frost D.: ISOTOPIC CHARACTERIZATION OF DIAMOND GROWTH IN FLUIDS

1-12 Panel number 2

Cavallo F.*, Romano C., Vona A. & Nestola F.: *IN-SITU* HIGH-RESOLUTION MICRO-RAMAN SPECTROSCOPY ON MINERAL INCLUSIONS STILL TRAPPED WITHIN DIAMONDS

1-13 Panel number 3

Melai C.*, Marquardt K., Armstrong K. & McCammon C.A.: EXPLORING A NEW GEOBAROMETER FOR FERROPERICLASE INCLUSIONS IN DIAMOND FROM THE LOWER MANTLE

1-14 Panel number 4

Nasdala L.*, Dobrzhinetskaya L.F., Korsakov A.V., Massonne H.-J., Reissner C. & Steger S.: UHP PHASES VERSUS PREPARATION MATERIALS – BE CAUTIOUS WHEN USING MICRO-RAMAN SPECTROSCOPY

1-15 Panel number 5

Nestola F.*, Angel R.J., Nimis P., Alvaro M., Milani S. & Harris J.W.: THE CRYSTALLOGRAPHIC ORIENTATIONS BETWEEN DIAMOND AND ITS Mg-CHROMITE INCLUSIONS

1-16 Panel number 6

Pinti D.L.*, Bureau H., Ishida A., Sano Y. & Cartigny P.: CARBON ISOTOPIC COMPOSITION OF A JUINA DIAMOND WITH A CARBONATE INCLUSION DETERMINED BY NANOSIMS

1-17 Panel number 7

Scandolo L.*, Milani S., Mazzucchelli M.L., Alvaro M., Di Prima M., Domeneghetti M.C., Nestola F., Geiger C.A. & Stagno V.: THERMOELASTIC PROPERTIES OF SILICATE GARNETS AND THEIR USE IN THE STUDY OF DIAMOND FORMATION

S3. Volatiles in the deep Earth: storage, mobility and implications

3-11 Panel number 8

Blanchard M.*, Ingrin J., Balan E., Kovács I. & Withers A.C.: EFFECT OF IRON AND TRIVALENT CATIONS ON OH-DEFECTS IN OLIVINE

3-12 Panel number 9

Demouchy S.*: HYDROGEN DISTRIBUTION AND DIFFUSION IN UPPERMOST MANTLE ROCKS

3-13 Panel number 10

Kovács I.*, Demény A., Czuppon G., Lécuyer C., Fourel F., Xia Q.-K., Liu J., Pintér Z., Király E., Török K., Szabó Á., Deloule E., Falus G., Fancsik T., Zajacz Z., Sándorné Kovács J. & Udvardi B.: WATER CONCENTRATIONS AND HYDROGEN ISOTOPE COMPOSITIONS OF ALKALINE BASALT HOSTED CLINOPYROXENE MEGACRYSTS: THE IMPORTANCE OF STRUCTURAL HYDROXYL GROUPS AND MOLECULAR WATER

3-14 Panel number 11

Stagno V.*, Ziberna L., Andreozzi G., Lenaz D., Lustrino M., Mollo S. & Scarlato P.:

REDOX CONDITIONS OF A CO₂-BEARING SPINEL PERIDOTITE AS FUNCTION OF COMPOSITION, PRESSURE AND TEMPERATURE, AND THE ARCHAEOAN DEEP CARBON CYCLE

3-15 Panel number 12

Szabó Á.*, Tóth A., Hidas K., Kovács Z., Patkó L. & Szabó C.: SUBDUCTION-RELATED MANTLE METASOMATISM BENEATH THE EASTERN TRANSYLVANIAN BASIN?

3-16 Panel number 13

Weis F.A.*, Lazor P. & Skogby H.: ANALYSIS OF HYDROGEN IN NOMINALLY ANHYDROUS MINERALS BY TRANSMISSION RAMAN SPECTROSCOPY

S6. Metamorphism, crustal melting and granite magmas from start to stop and from inclusions to intrusions

6-14 Panel number 14

Acosta-Vigil A.*, Barich A., Bartoli O., Garrido C.J., Cesare B., Remusat L., Poli S. & Raepsaet C.: THE COMPOSITION OF NANOGRANITOIDS IN MIGMATITES OVERLYING THE RONDA PERIDOTITES (BETIC CORDILLERA, S SPAIN): THE ANATECTIC HISTORY OF A POLYMETAMORPHIC BASEMENT

6-15 Panel number 15

Berzina A.N.*, Berzina A.P. & Gimón V.O.: GEOCHRONOLOGY AND PETROGENESIS OF GRANITOID INTRUSIONS RELATED TO THE AKSUG COPPER PORPHYRY DEPOSIT IN THE ALTAI-SAYAN FOLD BELT, RUSSIA

6-16 Panel number 16

Conte A.M.*, Naitza S., Oggiano G., Secchi F., Cifelli F., Cuccuru S. & D'Antonio M.: POST-COLLISIONAL LATE VARISCAN GRANITES OF SOUTHERN SARDINIA: EVIDENCES OF CONTRASTING SUITES

6-17 Panel number 17

Čopjaková R., Škoda R.*, Vašinová Galiová M. & Novák M.: COMPLEX EVOLUTION OF MIXED (NYF + LCT) KRACOVICE PEGMATITE (MOLDANUBIAN ZONE, CZECH REPUBLIC); AN EVIDENCE FROM Li AND REE CONTENTS IN ROCK FORMING MINERALS

6-18 Panel number 18

Lobjoie C.*, Wei L., Trap P., Goncalves P. & Marquer D.: THE ULTRA-HIGH TEMPERATURE METAMORPHISM OF THE KHONDALITE BELT, NORTH CHINA CRATON: NEW EVIDENCE FOR A LARGE PARTIALLY MOLTEN OROGENIC CRUST

6-19 Panel number 19

Muñoz R.* & Castro A.: MAGMATISM FROM THE LOWER CONTINENTAL CRUST: MELTING EXPERIMENTS ON GRANULITE XENOLITHS FROM PASO DE INDIOS, ARGENTINA

6-20 Panel number 20

Ratschbacher B.C.*, Paterson S.R. & Anderson L.: INVESTIGATING MAGMATIC AND TECTONIC PROCESSES FROM 5 TO 30 KM DEPTH IN A THICK CONTINENTAL ARC, ~ 90 MA MAGMATISM IN THE CASCADES, WASHINGTON, USA

6-21 Panel number 21

Reche J.*, Martínez F.J. & Travería M.: COUPLED THERMO-CHEMICAL PHENOMENA AND GENESIS OF COR FROM LOW-K PSAMMOPELITES DURING SYN-D2 HT-LP HIGH GRADE VARISCAN METAMORPHISM AND HIDROUS MELTING (OSOR COMPLEX, CCR, NE IBERIA)

6-22 Panel number 22

Rochira F.*, Caggianelli A. & de Lorenzo S.: MODELLING THE THERMO-RHEOLOGICAL EVOLUTION OF A GRANITE INTRUSION AND WALL ROCKS: IMPLICATIONS FOR THE LARDERELLO GEOTHERMAL AREA

6-23 Panel number 23

Schmietzek K.*, Parat F., Stechern A. & Holtz F.: DETERMINATION OF MELT FRACTION IN CRYSTAL MUSHES AND TRACE ELEMENT DISTRIBUTION IN HIGHLY CRYSTALLINE DACITIC MAGMAS: EXPERIMENTAL APPROACH USING MELT TRAPS

AND LA-ICP-MS ANALYSIS

6-24 Panel number 24

Schwindinger M.* & Weinberg R.F.: MULTISTAGE MAGMA MIXING AND THE ROLE OF WATER FLUXED MELTING IN AN ANATECTIC TERRANE – KANGAROO ISLAND, SOUTH AUSTRALIA

6-25 Panel number 25

Sinigoi S.*, Quick J.E., Demarchi G., Klötzli U.S. & Tavazzani L.: HYBRID GRANITIC MAGMA ORIGINATED AT THE ADVANCING FRONT OF BASALTIC UNDERPLATING: INFERENCES FROM THE SESIA MAGMATIC SYSTEM (WESTERN ALPS)

6-26 Panel number 26

Trap P.*, Lobjoie C., Wei L., Goncalves P., Marquer D. & Bruguier O.: STRAIN PARTITIONING, UHT METAMORPHISM, PARTIAL MELTING AND S-TYPE PLUTONISM IN THE DEEP OROGENIC CRUST: THE CASE OF THE KHONDALITE BELT, NORTH CHINA CRATON

6-27 Panel number 27

Wolf M.*, Romer R.L. & Franz L.: TIN DISTRIBUTION BETWEEN MELT AND RESIDUE DURING PARTIAL MELTING OF METASEDIMENTARY ROCKS

S10. Mineral reaction kinetics: microstructures, textures, chemical and isotopic signatures

10-10 Panel number 28

Bandyopadhyay D.*, Ghosh B., Nandy S. & Palin R.M.: THERMOBAROMETRIC EVOLUTION OF REACTION MICROSTRUCTURES IN "ARCOLOGITE" – A CASE STUDY FROM THE SITTAMPUNDI LAYERED ANORTHOITE COMPLEX, INDIA

10-11 Panel number 29

Burgos-Cara A.*, Ruiz-Agudo E. & Putnis C.V.: THE USE OF CITRATE TO TUNE CALCIUM OXALATE PRECIPITATES ON CALCITE

10-12 Panel number 30

Cepedal A.*, Gayol R., Martínez-Abad I., Fuertes-Fuente M., Martín-Izard A. & Boixet L.: TEXTURES AND TRACE-ELEMENT DISTRIBUTION IN ARSENOPYRITE RECORDING POST-CRYSTALLIZATION PROCESSES IN CORCOESTO OROGENIC GOLD DEPOSIT (NW OF SPAIN)

10-13 Panel number 31

Dulski M.*, Janeczek J., Ciesielczuk J. & Krzykowski T.: IMPACT OF THE ISOMORPHIC SUBSTITUTION (As <-> P) ON THE STRUCTURE OF COPPER PHOSPHATE MINERALS DETERMINED BY CHEMICAL AND STRUCTURAL INVESTIGATIONS

10-14 Panel number 32

Fernández-González A.*, González-López J. & Jiménez A.: PRECIPITATION AND AGING OF CALCIUM CARBONATES IN THE PRESENCE OF COBALT (II)

10-15 Panel number 33

Kurganskaya I.*, Fischer C., Arvidson R.S., Lutttge A. & Churakov S.: A COMPUTATIONAL STUDY OF CARBONATE DISSOLUTION KINETICS: HOW TO DEAL WITH THE SYSTEM'S COMPLEXITY?

10-16 Panel number 34

Kwaśniak-Kominek M.*, Oknińska J. & Manecki M.: TRANSFORMATION OF CERUSITE PbCO₃ TO PHOSPHATE PHASES AT WIDE RANGE OF pH

10-17 Panel number 35

Lamarca-Irisarri D.*, Sánchez-Encinar A., Van Driessche A.E.S. & Huertas F.J.: VARIABILITY OF DISSOLUTION RATES OF SMECTITES AS A FUNCTION OF AMMONIUM ION CONCENTRATION AT CIRCUMNEUTRAL CONDITIONS

10-18 Panel number 36

Lensing-Burgdorf M.*, Watenphul A., Schlüter J. & Mihailova B.: CRYSTAL CHEMISTRY OF TOURMALINES FROM THE ERONGO MOUNTAINS, NAMIBIA, STUDIED BY

RAMAN SPECTROSCOPY

10-19 Panel number 37

Petrishcheva E.*, Jollands M.C. & Abart R.: QUANTIFYING DIFFUSION OF TITANIUM IN OLIVINE

10-20 Panel number 38

Ruiz-Agudo E.*, Ruiz-Agudo C. & Rodriguez-Navarro C.V.: AN EXPERIMENTAL STUDY OF SURFACE ALTERED LAYER FORMATION DURING CHEMICAL WEATHERING OF SILICATE MINERALS: THE ROLE OF ADDITIVES

10-21 Panel number 39

Silva D.*, Daczko N., Piazzolo S., Raimondo T. & Putnis A.: INTRACONTINENTAL OROGENY, CENTRAL AUSTRALIA: SHEAR ZONE PATTERNS AND THE ROLE OF FLUIDS IN LITHOSPHERIC WEAKENING

S13. Ores, minerals and geomaterials in industrial processes and human activities

13-11 Panel number 40

Göttlicher J.*, Zuber M., Hamann E., Steininger R. & Baumbach T.: ANTHROPOZOIC INITIATED ROCK FORMATION IN TIDAL SAND FLATS

13-12 Panel number 41

Alves P.*, Pinto A.M.M. & Pires S.: THE USE OF AUTOMATED MINERALOGY TO CHARACTERIZE MINERALURGICAL PRODUCTS OF VHMS ORES FROM THE IBERIAN PYRITE BELT: THE CASE OF ALJUSTREL MINE, SOUTH PORTUGAL

13-13 Panel number 42

Bobocioiu E.* & Kheloufi A.: SILICA CHARACTERIZATION AND BENEFICIATION DESTINED FOR SILICON SOLAR GRADE PRODUCTION

13-14 Panel number 43

Galimberti M.*, Marinoni N., Della Porta G. & Marchi M.: CORRELATIONS BETWEEN CALCITE MICROSTRUCTURE AND ORDINARY PORTLAND CEMENT CLINKER RAW MEALS BURNABILITY

13-15 Panel number 44

Galluccio S.* & Pöhlmann H.: SYNTHESIS AND CHARACTERIZATION OF SPECIAL CEMENTS WITH REDUCED CO₂-EMISSION BASED ON NEW CLINKER MINERALS USING MINERALIZERS

13-16 Panel number 45

Signori G.* & Prodomi A.: DETERMINATION OF RESISTANCE TO BENDING OF DIMENSION STONES: FIRST RESULTS OF AN EXPERIMENTAL STUDY ON A TECHNOLOGICAL AND TESTS SPECIMENS WITH JOB DIMENSIONS FOR PAVING

13-17 Panel number 46

Welling M., Giehl C., Kögler R., Beermann O. & Duesterhoeft E.*: THE EFFECT OF ENVIRONMENTAL INFLUENCES AND CUSTOMARY CLEANSERS ON NATURAL STONES

13-3 Panel number 47

Zucchini A., Comodi P., Di Michele A., Vivani R., Brizzi E.*, Casagrande S., Santarelli G., Gentili S., Santinelli F. & Neri A.: SUSTAINABLE PORTLAND CLINKERS: NANO-MATERIALS ADDITION TO RAW MIXTURES

S16. New minerals, modular structures and mineral groups

16-16 Panel number 48

Biagioni C., Bosi F., Hålenius U. & Pasero M.*: CRYSTAL STRUCTURE OF TURNEAU-REITE AND CRYSTAL-CHEMICAL RELATIONSHIPS AMONG THE MINERALS OF THE

SVABITE SUBGROUP (APATITE SUPERGROUP)

16-17 Panel number 49

Bonaccorsi E.*: WENKITE, A REVISED STRUCTURE

16-18 Panel number 50Chernyatjeva A.P.*, Mannasova A.Z., Filatova A.A. & Krivovichev S.V.: MODULAR STRUCTURE AND TOPOLOGY OF CsNaCu(P₂O₇) AND CsNaCo(P₂O₇), AND THEIR COMPARISON WITH WOOLDRIDGEITE**16-19 Panel number 51**

Ciriotti M.E.* & Cámara F.: MINERALS DESCRIPTIONS AND HUMAN CIVILIZATION

16-20 Panel number 52Galuskin E.V.*, Galuskina I.O., Krüger B. & Vapnik Y.A.: POTENTIALLY NEW LATTIMITE GROUP MINERAL, KCa₂Al₂(SiO₄)(Si₂O₇)(PO₄) FROM LEUCITE-BEARING PARALAVA OF THE HATRURIM COMPLEX, NÉGÉV DESERT, ISRAEL**16-21 Panel number 53**

Hatert F.*, Philippo S., Ottolini L., Dal Bo F., Scholz R., Chaves M.L.S.C., Yang H., Downs R.T. & Menezes Filho L.A.D.: WILANCOOKITE, A NEW BERYLLOPHOSPHATE FROM MINAS GERAIS, BRAZIL

16-22 Panel number 54Hejny C.*, Kahlenberg V., Schmidmair D., Tribus M. & deVilliers J.: TWO NEW CHROMIC POLYSOMES OF BETA-ALUMINA OBSERVED IN SLAGS FROM THE PRODUCTION OF LOW-CARBON FERROCHROMIUM: BETA-ALUMINA-14H & BETA-ALUMINA-21R: Na_{2-x}(Al,Mg,Cr)₁₇O₂₅**16-23 Panel number 55**Kovrugin V.M.*, Aliev A., Colmont M., Mentré O. & Krivovichev S.V.: SYNTHESIS AND CRYSTAL STRUCTURE OF Mn(SeO₄)·2H₂O, A NEW MEMBER OF THE VARISCITE FAMILY OF COMPOUNDS**16-24 Panel number 56**Krüger B.*, Krüger H., Tropper P., Tribus M. & Joachim B.: FIRST NATURAL OCCURRENCE OF "KAISIO₄-O1"**16-25 Panel number 57**

Krüger H.*, Jaeger F.D. & Konrad B.: SUPERSTRUCTURE AND DISORDER IN SYNTHETIC SHULAMITITE

16-26 Panel number 58

Pekov I.V.*, Zubkova N.V., Yapaskurt V.O., Britvin S.N., Belakovskiy D.I., Vlgasina M.V., Lykova I.S., Turchkova A.G. & Sidorov E.G.: NEW ARSENATE MINERALS IN FUMAROLE EXHALATIONS OF THE TOLBACHIK VOLCANO, KAMCHATKA, RUSSIA

16-27 Panel number 59

Pinto D.* & Garavelli A.: OXO-CENTERED STRUCTURAL UNITS IN BISMUTH OXY-SULFATES FROM VULCANO, AEOLIAN ISLAND, ITALY

16-28 Panel number 60Schaller A.M.*, Stöber S. & Pöllmann H.: HIGH TEMPERATURE X-RAY DIFFRACTION STUDIES OF OXYGEN-DEFICIENT Ca(Fe,Mn,Ti)O_{3-δ} PEROVSKITES**16-29 Panel number 61**

Środek D.*, Galuskina I.O., Galuskin E.V., Dulski M., Kusz J., Książek M. & Gazeev V.M.: RAMAN SPECTROSCOPIC AND STRUCTURAL DATA OF A POTENTIALLY NEW MINERAL "CHLORELLESTADITE"

16-30 Panel number 62Yang Z.*, Giester G., Mao Q., Ma Y., Zhang D. & Li H.: DESCRIPTION AND REFINEMENT OF ZINCOBOTRYOGEN ZnFe³⁺(SO₄)₂(OH)·7H₂O, A NEW MINERAL FROM XI-TIESHAN LEAD-ZINC DEPOSIT, QINGHAI PROVINCE, CHINA**16-31 Panel number 63**Yoshiasa A.*, Nakatsuka A., Okube M., Arima H. & Sugiyama K.: AN ORDERED ARRANGEMENT FOUND IN LOCAL STRUCTURE OF PEROVSKITE-TYPE SrCo_{1-x}Mn_xO₃ SOLID SOLUTION: XAFS ANALYSIS AND SPIN STATE CHANGE OF Co⁴⁺ IONS**16-32 Panel number 64**

Zolotarev A.A.*, Zhitova E.S., Gabdrakhmanova F.A., Vladykin N.V. & Krivovichev S.V.: HIGH-TEMPERATURE BEHAVIOR OF KUPLETSKITE-(Cs)

S20. High-tech metal minerals in Europe**20-11 Panel number 65**

Ayora C.*, Macías F., Torres E., Lozano A., Pérez-López R. & Nieto J.M.: EXTRACTING RARE EARTH ELEMENTS FROM ACID MINE DRAINAGE

20-12 Panel number 66

Bauer M.E.*, Ostendorf J. & Seifert T.: RARE METAL VEIN-TYPE MINERALIZATIONS IN THE HISTORIC FREIBERG ORE DISTRICT (GERMANY)

20-13 Panel number 67

Broman C.*, Sundblad K., Valkama M. & Villar A.: DEPOSITION CONDITIONS FOR THE INDIUM-BEARING POLYMETALLIC QUARTZ VEINS AT SARVLAXVIKEN, SOUTH-EASTERN FINLAND

20-14 Panel number 68

Högdahl K.*, Jonsson E. & Kritikos A.: INDIUM-ENRICHED POLYMETALLIC MINERALISATIONS IN SVECOFENNIAN LITHOLOGIES, BERGSLAGEN, SWEDEN

20-15 Panel number 69

Kärenlampi K.*, Paulick H., Hanski E., Kontinen A. & Jylänki J.: THE OTANMÄKI REE MINERALIZATION (FINLAND) – A POTENTIAL SOURCE OF CRITICAL ELEMENTS IN EUROPE

20-16 Panel number 70

Langhof J.*, Jonsson E. & Gustafsson L.: PRIMARY VS SECONDARY BERYLLIUM-MINERALS IN PROTEROZOIC GRANITIC PEGMATITES IN SWEDEN

20-17 Panel number 71

Lima A.*, Leal S., Dias C., Dias F. & Noronha F.: LITHIUM EXPLORATION IN PORTUGAL: RESULTS FROM STREAM SEDIMENT ANALYSIS IN THE BARROSO-ALVÃO AREA

20-18 Panel number 72

Lima A.*, Leal S. & Barros J.: HIGH-TECH METALS IN THE LAGOA SALGADA DEPOSIT

20-19 Panel number 73

Marino E.*, González F.J., Lunar R., Somoza L., Ortega L., Reyes J. & Bellido E.: FERROMANGANESE CRUSTS FROM CANARY ISLAND SEAMOUNT PROVINCE AS SOURCE OF HIGH TECH METALS

20-20 Panel number 74

Rödel T.* & Borg G.: HIDDEN SKARN-HOSTED TUNGSTEN MINERALIZATION IN CENTRAL GERMANY - UNCOVERING A PREVIOUSLY UNKNOWN ORE TYPE

20-21 Panel number 75

Valkama M.*, Sundblad K., Nygård R. & Cook N.J.: INDIUM-BEARING POLYMETALLIC VEINS IN THE SARVLAXVIKEN AREA, SE FINLAND

S21. Mineralogy, geochemistry and valorization of Industrial and mining wastes**21-16 Panel number 76**

Adamczyk Z. & Nowińska K.*: MIGRATION OF ARSENIC AND CADMIUM FROM ZINC OXIDE EMITTED FROM A SINTERING MACHINE IN PYROMETALLURGICAL PROCESS OF Zn AND Pb PRODUCTION

21-17 Panel number 77

Atzori R.*, Ardaù C., Podda F., Agrosi G. & Frau F.: INDUCING THE PRECIPITATION OF LAYERED DOUBLE HYDROXIDES TO REMOVE DIVALENT METALS FROM MINE-WASTE DRAINAGES (IGLESIAS, ITALY)

21-18 Panel number 78

Ciesielczuk J.*, Misz-Kennan M. & Fabiańska M.: COMBINING SEM-EDS AND OP-

TICAL-MICROSCOPE METHODS IN INVESTIGATIONS OF THE CO-OCCURRENCE OF MINERAL- AND ORGANIC MATTER IN COAL WASTES

21-19 Panel number 79

Dimitrova D.* & Yossifova M.: ELEMENT MOBILIZATION IN WATER FROM COAL, MINING AND COMBUSTION WASTES, EAST MARITSA LIGNITE BASIN, BULGARIA

21-20 Panel number 80

Jiménez A.*, Astilleros J.M., Fernández-Díaz L., Fernández-González A., Pérez-Garrido C., Cubillas P. & Prieto M.: INTERACTION OF CU-BEARING SOLUTIONS WITH CALCITE, ARAGONITE AND GYPSUM: A COMPARATIVE STUDY

21-21 Panel number 81

Lozano A.*, Torres E., Carrero S., Fernández-Martínez A. & Ayora C.: REE MINERALOGY OF WASTES FROM ACID MINE DRAINAGE TREATMENT

21-22 Panel number 82

Macías F.*, Pérez-López R., Caraballo M.A., Cánovas C.R. & Nieto J.M.: POTENTIAL VALORIZATION OF SLUDGE FROM EXTREME METAL-POLLUTED ACID MINE DRAINAGE NEUTRALIZATION

21-23 Panel number 83

Nieto J.M.*, Macías F. & Ayora C.: HIGHLY POLLUTED ACID MINE DRAINAGE REMEDIATION BY PASSIVE TECHNOLOGY

21-24 Panel number 84

Rodríguez-Fernández D., García-Moliner D., Bagaria-Rovira F., Soler A., Rosell M. & Domènech C.*: ASSESSING CHLOROMETHANES ABIOTIC REDUCTIVE DECHLORINATION BY PYRITE AND MAGNETITE AT NEUTRAL AND ALKALINE CONDITIONS

21-25 Panel number 85

Romero-Hermida I., Morales-Flórez V., Esquivias L., Santos A. & Pérez-López R.*: CARBONATION OF KATOITE OBTAINED FROM PHOSPHOGYPSUM DISSOLUTION WITH WASTES OF THE ALUMINIUM INDUSTRY FOR MINERAL CO₂ SEQUESTRATION

21-26 Panel number 86

Yossifova M.* & Dimitrova D.: CONCENTRATION AND MODE OF OCCURRENCE OF REY, Sc, Th AND U IN MINING AND COMBUSTION WASTE PRODUCTS FROM THE EAST MARITSA LIGNITE, BULGARIA

S22. Platinum group minerals and accessory minerals: development in their characterisation

22-20 Panel number 87

Chatzipanagioutou C.*, Gervilla F. & Fontboté L.: DISTRIBUTION OF PLATINUM-GROUP ELEMENTS IN THE SAN AGUSTÍN (CHROMITE-Ni ARSENIDE ORES) AND EL GALLEGO (SULPHIDE-GRAPHITE ORES) DEPOSITS, CARRATRACA ULTRAMAFIC MASSIF, SOUTHERN SPAIN

22-21 Panel number 88

García-Guinea J. & Gervilla F.*: MINERALOGY OF "PLATINA" FROM THE FIRST-MINED PLATINUM DEPOSIT

22-22 Panel number 89

Garuti G.* & Zaccarini F.: THE ROLE OF ACCESSORY CHLORITE AS PETROGENETIC INDICATOR OF HYDROTHERMAL VMS Fe-Cu-Zn SULFIDE ORE DEPOSITS IN THE NORTHERN APENNINE OPHIOLITES (EASTERN LIGURIA AND EMILIA ROMAGNA, ITALY)

22-23 Panel number 90

Grokhovskaya T.*, Karimova O. & Magazina L.: PLATINUM GROUP MINERALS FROM THE VURUCHUAIVENCH PGE DEPOSIT, MONCHEGORSK IGNEOUS COMPLEX, KOLA PENINSULA, RUSSIA

22-24 Panel number 91

Herrera A.*, Nazzareni S. & Morales J.: GEOLOGICAL AND METALLOGENIC CHARACTERIZATION OF MASSIVE MAGNETITE IN THE MINING CONCESSION "EMILIO ALBERTO" - CASCAS DISTRICT - REGION LA LIBERTAD (PERU)

22-25 Panel number 92

Khalmatov R.* & Koneyev R.: NON-TYPICAL Pt-Pd-Au MINERALIZATION IN DIORITE-GRANODIORITE INTRUSIVES OF KURAMA VOLCANO-PLUTONIC REGION (UZBEKISTAN)

22-26 Panel number 93

Montegrossi G.*, Giaccherini A. & Di Benedetto F.: EQUILIBRIA OF THE Cu-Sn-S SYSTEM IN AQUEOUS SOLUTIONS: A NUMERICAL APPROACH

22-27 Panel number 94

Portella Y. de M.*, Zaccarini F., Luvizotto G.L., Garuti G., Angeli N., Bakker R.J. & Thalhammer O.A.R.: ACCESSORY RUTILE IN THE CEDROLINA CHROMITITES, BRAZIL: MAGMATIC OR METAMORPHIC IN ORIGIN?

22-28 Panel number 95

Princivalle F.*, Musco M.E., Petrelli M., Caldeira R., de Ignacio C., De Min A., Marzoli A., Mata J., Perugini D., Boumehdi M.A., Youbi N. & Lenaz D.: RESTITIC OR NOT? INSIGHTS FROM TRACE ELEMENT CONTENT OF SPINELS IN MANTLE XENOLITHS

22-29 Panel number 96

Shapovalova M.* & Tolstykh N.: Pt-Pd MINERALIZATION AND BEHAVIOR OF PGE, Cu, Ni, Au IN DIFFERENT ORE TYPES OF THE MONCHEGORSK PLUTON

22-30 Panel number 97

Sluzhenikin S.F.*: ISOMORPHISM AND PHASE HETEROGENEITY IN MINERALS OF NOBLE METALS IN PGE-CU-NI AND PGE ORES OF THE NORILSK REGION

22-31 Panel number 98

Tassara C.S.*, Garrido L., Romero R., González-Jiménez J.M., Reich M., Barra F., Morata D., Schilling M. & Plissart G.: NOBLE METALS IN SULFIDES AND ARSENIDES FROM ULTRAMAFIC ROCKS WITHIN THE ANDEAN SUBDUCTION FACTORY

22-32 Panel number 99

Tredoux M.*, Zaccarini F., Garuti G. & Miller D.E.: THE BON ACCORD NiO BODY, BARBERTON GREENSTONE BELT, SOUTH AFRICA: A SOURCE OF POTENTIAL NEW PHASES IN THE Ni-Sb-As SYSTEM