

	Arengo	Tempio1	Tempio2	Marina	Parco	Borgo
	Plenary Appel					
08.30-09.15						
09.15-09.30						
09.30-09.45	Alvaro	Tiraboschi	Marshall	Hovis	Gunter	Cruz-Hernández
09.45-10.00	Crivellaro	Smye		Grevel		Aparicio
10.00-10.15	Kendrick	Locatelli	Fritsch	Geiger	Andreozzi	Bello
10.15-10.30	Dutrow	Bayet	Bačik	Majzlan	Balirano	Cánovas
10.30-10.45	Goncalves	Bryden	Pignatelli	Mahmoud	Belluso	Caraballo
10.45-11.15			Coffee Break			
11.15-11.30	George	Cannaò	Marshall		Rasmeni	Carrero
11.30-11.45	Spruzeniece	Tumiati	Giuliani	Palke	Pollastri	Carbone
11.45-12.00	Ortolano	Dasgupta	Karampelas	Waterphul	Bursi Gandolfi	Bogush
12.00-12.15	Brown		Palke	Carnetti	Sanchez	Crouzet
12.15-12.30	Weller	Sieber	Turner	Gori	Michalik	Kasina
12.30-14.00			Lunch Break			
14.00-14.15	Lotout	Capizzi	Rondeau	Beirau	Mantovani	Kowalski
14.15-14.30	Möller	Pohlenz	Adamo	Lenz	Wilczyńska	Eisen
14.30-14.45	Chopin	Carter	Chauviré	Mihallova	Giehl	Carroll
14.45-15.00	Godard	Avanzinelli	Simmons	Goethals	Vigliaturo	Tyszka
15.00-15.15	Massonne	Lustrino	Pizzorusso	Balitsky	D'Orazio	Zanelli
15.15-15.45			Coffee Break			
15.45-16.30	Plenary Scambelluri					
16.30-17.00	Closing Ceremony					

Thursday, September 15th

ORAL SESSIONS

MORNING

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

Conveners: Jörg Hermann, Timm John and Marco Scambelluri

(09.30-10.45) Room - Tempio 1

5-5 09.30 – 09.45

Tiraboschi C.*, Tumiati S., Ulmer P., Pettke T. & Poli S.: HIGH-PRESSURE FLUIDS IN THE MS + COH SYSTEM: AN EXPERIMENTAL STUDY ON FORSTERITE, ENSTATITE AND MAGNESITE SOLUBILITY IN MIXED H₂O-CO₂ FLUIDS AT fO₂ BUFFERED CONDITIONS

5-6 09.45 – 10.00

Smye A.*, Jackson C., Konrad-Schmolke M., Parman S. & Ballentine C.: NOBLE GASES TRACE EARTH'S SUBDUCTED WATER FLUX

5-7 10.00 – 10.15

Locatelli M.*, Verlaquet A., Agard P. & Federico L.: ECLOGITIC BRECCIA FROM THE MONVISO META-OPHIOLITE COMPLEX: FIELD AND PETROGRAPHIC EVIDENCES OF MULTIPLE-STAGE ECLOGITE-FACIES BRECCIATION

5-8 10.15 – 10.30

Bayet L.*, Menneken M., John T., Agard P. & Gao J.: COHERENT RAMAN SPECTROSCOPY-BASED PT ESTIMATES TO UNRAVEL THE METAMORPHIC EVOLUTION OF A HP/UHP UNIT (SOUTHERN TIANSHAN METAMORPHIC BELT / SW CHINA)

5-9 10.30 – 10.45

Bryden C.D.*, Jamieson R.A. & Robinson P.: STABLE ISOTOPE CHEMISTRY OF SCAPOLITE IN ULTRA-HIGH-PRESSURE ROCKS: A MONITOR OF SUBDUCTION ZONE FLUIDS?

(11.15-12.30) Room - Tempio 1

5-10 11.15 – 11.30

Cannaò E.*, Bebout G.E., Agostini S. & Scambelluri M.: TEXTURAL AND GEO-CHEMICAL EVOLUTION OF OPHICARBONATES FROM OCEAN TO DEEP SUBDUCTION.

5-11 11.30 – 11.45

Tumiati S.*, Miozzi F., Pettke T., Tiraboschi C., Ulmer P. & Poli S.: EXPERIMENTAL CONSTRAINTS ON THE COMPOSITION OF FLUIDS INTERACTING WITH A GRAPHITE-BEARING, CARBONATE-FREE SUBDUCTION MELANGE

5-12 11.45 – 12.15

(KEYNOTE) Dasgupta R.*, Duncan M.S., Tsuno K. & Muth M.: SUBDUCTION EFFICIENCY OF CARBONATES THROUGH GEOLOGIC TIME AND THE ROLE OF SLAB-DE-RIVED MELTS IN TRANSPORTING CO₂ TO VOLCANIC ARCS

5-13 12.15 – 12.30

Sieber M.*, Yaxley G.M. & Hermann J.: ANALYSES OF CO₂ IN FLUIDS FROM PISTON CYLINDER EXPERIMENTS

S11. Reading and understanding metamorphic rocks

Conveners: Lukas Baumgartner, Pavel Pitra and Dave Waters

(09.30-10.45) Room - Arengo

11-1 09.30 – 09.45

Alvaro M.* , Angel R.J., Mazzucchelli M.L. & Nestola F.: NEW CONSTRAINTS ON PT EVOLUTION OF METAMORPHIC ROCKS FROM SINGLE INCLUSION PIEZOBAROMETRY

11-2 09.45 – 10.00

Crivellaro M.* , Bartoli O., Cesare B., Acosta-Vigil A., Petrelli M. & Garrido C.J.: APPLICATION OF Ti-IN-QUARTZ, Ti-IN-ZIRCON AND Zr-IN-RUTILE THERMOMETERS TO METAPELITIC GRANULITES FROM JUBRIQUE SEQUENCE (BETIC CORDILLERA, S SPAIN)

11-3 10.00 – 10.15

Kendrick J.* & Indares A.: THE BEAUTY AND COMPLEXITY OF PARTIALLY MELTED ALUMINOUS ROCKS: DISEQUILIBRIUM RECORDED BY Ti-IN-QUARTZ

11-4 10.15 – 10.30

Hoffmann T., Dutrow B.* & Foster C.T.: PLAGIOCLASE CORONAS AROUND GARNETS: IMPLICATIONS FOR PRESSURE-TEMPERATURE PATHS IN ALUMINOUS GNEISSES AND SCHISTS

11-5 10.30 – 10.45

Goncalves P.* , Raimondo T. & Santos de Souza J.: INTERPRETATION(S) OF GARNET DISTRIBUTION AND CHEMICAL ZONING: INSIGHTS FROM MAJOR AND TRACE ELEMENT LA-ICPMS MAPPING. AN EXAMPLE FROM PELITIC MIGMATITES OF SALVADOR DA BAHIA (BRAZIL)

(11.15-12.30) Room - Arengo

11-6 11.15 – 11.30

George F.R.* & Gaidies F. : RATES AND MECHANISMS OF PORPHYROBLAST CRYSTALLISATION: INSIGHTS FROM A GARNET-GRADE SCHIST OF THE LESSER HIMALAYA

11-7 11.30 – 11.45

Spruzeniece L.* , Piazzolo S., Putnis A., Daczko N. & Kilburn M.R.: SYMPLECTITE FORMATION IN THE PRESENCE OF A REACTIVE FLUID: INSIGHTS FROM HYDROTHERMAL EXPERIMENTS

11-8 11.45 – 12.00

Ortolano G.* , Cirrincione R., Visalli R. & Godard G.: THERMODYNAMIC MODELLING AND QUANTITATIVE PETROLOGICAL ANALYSIS OF METAMORPHIC ROCKS: AN ESSENTIAL INTEGRATED TOOL TO INVESTIGATE THE PTX EVOLUTION OF OROGENIC PROCESS

11-9 12.00 – 12.15

Brown M.*: READING AND UNDERSTANDING THE PRECAMBRIAN METAMORPHIC RECORD

11-10 12.15 – 12.30

Weller O.M.* & St-Onge M.R.: HIGH-P ECLOGITE IN THE TRANS-HUDSON OROGEN, CANADA: MODERN-DAY PLATE TECTONIC PROCESSES IN THE PALEOPROTEROZOIC

S15. Structural behavior and energetic properties of minerals

Conveners: Charles Arthur Geiger, Matteo Ardit and Alan Woodland

(09.30-10.45) Room - Marina

15-1 09.30 – 09.45

Hovis G.L.*: SYSTEMATIC BEHAVIOR OF K-Na MIXING ENTHALPIES WITH Al-Si ORDER IN ALKALI FELDSPARS AND IMPLICATIONS FOR PHASE EQUILIBRIA

15-2 09.45 – 10.00

Grevel K.-D.*, Nowak W., Majzlan J., Fockenberg T. & Theye T.: THE ENTHALPY OF FORMATION OF MAGNESIOCARPHOLITE ($\text{MgAl}_2[\text{Si}_2\text{O}_6](\text{OH})_4$)

15-3 10.00 – 10.15

Geiger C.A.* & Dachs E.: A THERMODYNAMIC STUDY OF END-MEMBER ANDRADITE AND ANDRADITE ($\text{Ca}_3\text{Fe}_2\text{Si}_3\text{O}_{12}$) – GROSSULAR ($\text{Ca}_3\text{Al}_2\text{Si}_3\text{O}_{12}$) SOLID SOLUTIONS

15-4 10.15 – 10.30

Majzlan J.*, Grevel K.-D., Kiefer B., Dachs E., Benisek A., Grube E. & Nielsen U.G.: THERMODYNAMICS AND CRYSTAL CHEMISTRY OF RHOMBOCLASE, (H_5O_2) $\text{Fe}(\text{SO}_4)\cdot 2\text{H}_2\text{O}$, AND THE PHASE (H_3O) $\text{Fe}(\text{SO}_4)_2$

15-5 10.30 – 10.45

Mahmoud A.*, Lacivita V., Erba A., D'Arco P. & Mustapha S.: HYDROGROSSULAR, $\text{Ca}_3\text{Al}_x(\text{SiO}_4)_{3-x}(\text{H}_4\text{O}_4)_x$: AN *AB INITIO* INVESTIGATION OF ITS STRUCTURAL AND ENERGETIC PROPERTIES

(11.15-12.30) Room - Marina

15-6 11.15 – 11.45

(KEYNOTE) Palke A.C.* & Geiger C.A.: SHORT-RANGE ORDER/DISORDER IN ROCK-FORMING MINERALS: INVESTIGATIONS BY NUCLEAR MAGNETIC RESONANCE AND OTHER SPECTROSCOPIC TECHNIQUES

15-7 11.45 – 12.00

Watenphul A.*, Lensing-Burgdorf M., Schlüter J. & Mihailova B.: TEMPERATURE AND PRESSURE EVOLUTION OF PHONON VIBRATIONS OF DIFFERENT TOURMALINE SPECIES

15-8 12.00 – 12.15

Cametti G.* & Armbruster T.: CRYSTAL STRUCTURE AND PHASE TRANSITION IN NOELBENSONITE $\text{BaMn}^{3+}_2[\text{Si}_2\text{O}_7](\text{OH})_2\cdot\text{H}_2\text{O}$

15-9 12.15 – 12.30

Gori C.*, Tribaudino M., Mantovani L., Skogby H., Hålenius U., Dondi M., Delmonte D., Gilioli E., Mezzadri F. & Calestani G.: CERAMIC AND MAGNETIC PROPERTIES OF SYNTHETIC COBALT-DOPED DIOPSIDE

S19. Gem materials

Conveners: Gaston Giuliani, Lee Groat and Federico Pezzotta

(09.30-10.45) Room - Tempio 2

19-1 09.30 – 10.00

(KEYNOTE) Marshall D.*, Giuliani G., Groat L.A., Fallick A.E. & Branquet Y.: RE-

CLASSIFICATION OF EMERALD DEPOSIT FORMATIONAL MODELS BASED ON TECTONIC AND METAMORPHIC CONDITIONS

19-2 10.00 – 10.15

Fritsch E.*, Rondeau B. & Pinsault L.: WHY ARE SOME MINERAL GEM QUALITY? CRYSTAL GROWTH CONSIDERATIONS

19-3 10.15 – 10.30

Bačík P.*, Fridrichová J., Malíčková I., Milovský R., Luptáková J. & Škoda R.: SPECTROSCOPIC CHARACTERIZATION OF Cr AND V AS CHROMOPHORES IN SELECTED GEM MINERALS

19-4 10.30 – 10.45

Pignatelli I.*, Giuliani G., Chatagnier P.-Y.: COLOMBIAN EMERALD AND EUCLASE: TRAPICHE *VERSUS* TRAPICHE-LIKE TEXTURES?

(11.15-12.30) Room - Tempio 2

19-5 11.15 – 11.30

Marshall D.*, Downes P., Ellis S. & Jones P.: PRESSURE-TEMPERATURE-FLUID CONSTRAINTS FOR THE POONA EMERALD DEPOSITS, WESTERN AUSTRALIA: FLUID INCLUSION AND STABLE ISOTOPE STUDIES

19-6 11.30 – 11.45

Giuliani G.*, Fallick A.E., Boyce A.J., Pardieu V. & Pham V.L.: PINK AND RED SPINELS IN MARBLE: TRACE ELEMENTS, OXYGEN ISOTOPES AND SOURCES

19-7 11.45 – 12.00

Karampelas S.*, Hainschwang T. & Notari F.: UPDATE ON THE HEAT TREATMENT DETECTION OF TANZANITE

19-8 12.00 – 12.15

Palke A.C.*, Renfro N.D. & Berg R.B.: MELT INCLUSIONS IN YOGO SAPPHIRES AS A CLUE TO THEIR ORIGIN

19-9 12.15 – 12.30

Turner D.*, Groat L.A., Rivard B. & Belley P.: MINERALOGICAL INSIGHTS FROM NEAR-FIELD HYPERSPECTRAL IMAGING OF SAPPHIRE-BEARING MARBLE AND ITS POTENTIAL FOR EXPLORATION, BAFFIN ISLAND, NUNAVUT, CANADA

S21. Mineralogy, geochemistry and valorization of Industrial and mining wastes

Conveners: Jose Miguel Nieto, Salvador Morales and Rafael Pérez-López

(09.30-10.45) Room - Borgo

21-1 09.30 – 09.45

(KEYNOTE) Cruz-Hernández P.*, Pérez-López R. & Nieto J.M.: TRACE ELEMENTS MOBILITY DURING IRON-PRECIPITATES DIAGENESIS

21-2 09.45 – 10.00

Aparicio P.*, Galán E. & Martín D.: MINERAL CARBONATION OF INDUSTRIAL WASTES

21-3 10.00 – 10.15

Bello M.* & Carroll M.R.: CHEMICAL AND PETROLOGICAL CHARACTERIZATION OF MUNICIPAL SOLID WASTE BOTTOM ASH: A COMPARISON WITH VOLCANIC PRODUCTS

21-4 10.15 – 10.30

Cánovas C.R.*, Pellet-Rostaing S., Chapron S. & Macías F.: FIRST STEPS FOR RARE EARTH ELEMENTS RECOVERY FROM WASTES GENERATED IN A FERTILIZER INDUSTRY

21-5 10.30 – 10.45

Caraballo M.A.*, Hochella M.F. Jr, Wanty R.B., Verplanck P.L., Ayora C., Macías F. & Nieto J.M.: REEY WATER SCAVENGING AND ENRICHMENT BY POORLY CRYSTAL-LINE ALUMINUM HYDROXYSULFATES: ALPINE NATURAL STREAMS VS AMD PAS-SIVE TREATMENT SYSTEMS

(11.15-12.30) Room - Borgo

21-6 11.15 – 11.30

Carrero S.*, Fernández-Martínez A., Pérez-López R. & Nieto J.M.: BASALUMINITE AS SCAVENGER OF CONTAMINANTS

21-7 11.30 – 11.45

Carbone C.*, Salviulo G., Vianello F., Baratella D., Magro M., Molinari S., Canepa M., Belmonte D., Dinelli E. & Brescianini C.: THE CASE OF STOPPANI SPA (GE), AN EXTREME POLLUTED CR(VI) SITE: MINERALOGICAL AND GEOCHEMICAL CHARACTERIZATION OF WASTE, SOILS, AND WATER. EFFICIENCY OF PECULIAR MAGHEMITE NANOPARTICLES FOR CR(VI) REMOVAL FROM POLLUTED WATERS

21-8 11.45 – 12.00

Bogush A.A.*, Stegemann J.A. & Roy A.: CHANGES IN COMPOSITION AND MINERALOGY OF ENERGY-FROM WASTE AIR POLLUTION CONTROL RESIDUES DUE TO WATER WASHING

21-9 12.00 – 12.15

Crouzet C.*, Brunet F., Recham N., Ferrasse J.-H. & Goffé B.: HYDROTHERMAL ALTERATION OF STEEL SLAGS: A NOVEL VALORIZATION ROUTE

21-10 12.15 – 12.30

Kasina M.*, Kowalski P.R. & Michalik M.: FLY ASH FROM MUNICIPAL SEWAGE SLUDGE INCINERATION - A SOURCE OF PHOSPHOROUS

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

Conveners: Alessandro F. Gualtieri, Mickey Gunter and Marisa Rozalen

(09.30-10.45) Room - Parco

26-1 09.30 – 09.45

Gunter M.E.*: MINERALS HAZARDS A TO Z: THE ROLE OF THE MINERALOGIST

26-2 09.45 – 10.15

(KEYNOTE) Andreozzi G.B.*, Pacella A. & Turci F.: TOPOCHEMISTRY OF IRON AND SURFACE REACTIVITY OF CROCIDLITE AND TREMOLITE AMPHIBOLE ASBESTOS: A COMPARATIVE CASE STUDY

26-3 10.15 – 10.30

Pacella A., Fantauzzi M., Atzei D., Cremisini C., Nardi E., Montereali M.R., Rossi A. & Ballirano P.*: IRON FIXED AS EXTRA-FRAMEWORK CATION POTENTIALLY PLAYS A CRUCIAL ROLE IN INDUCING CARCINOGENICITY IN ERIONITE

26-4 10.30 – 10.45

Belluso E.*, Fornero E. & Capella S.: ANALYSIS OF RESPIRED AMPHIBOLE FIBERS

(ASBESTOS AND NON-ASBESTOS CLASSIFIED): DISCRIMINATION BETWEEN NATURAL AND ANTHROPOGENIC SOURCES USING SENTINEL ANIMALS

(11.15-12.30) Room - Parco

26-5 11.15 – 11.30

Rasmeni S.K.*, Ball M. & Negota N.: MINERALOGICAL ASSESSMENT OF ABANDONED ASBESTOS MINE SITES ALONG THE ORANGE RIVER IN THE KOEGAS AREA, NORTHERN CAPE PROVINCE OF SOUTH AFRICA

26-6 11.30 – 11.45

Pollastri S.*, Gualtieri A.F., Bursi Gandolfi N., Lassinantti Gualtieri M. & Gherardini D.: DISSOLUTION OF MINERAL FIBRES IN CONTACT WITH SIMULATED LUNG FLUID SOLUTIONS

26-7 11.45 – 12.00

Bursi Gandolfi N.*, Pollastri S., Gualtieri A.F., Langenhorst F., Belpoggi F. & Vigliaturo R.: HIGH RESOLUTION TEM INVESTIGATION OF MINERAL FIBRES IN CONTACT WITH ORGANIC MEDIA

26-8 12.00 – 12.15

Sanchez M.S.*: CHARACTERIZATION OF TALC ORE AND WASTE ROCK FROM THE UPPER DORA-MAIRA MASSIF IN THE RODERETTO MINE

26-9 12.15 – 12.30

Michalik M.*, Kasina M., Kowalski P.R., Wilczyńska-Michalik W. & Pietras B.: EMISSION OF PARTICULATE MATTER FROM SEWAGE SLUDGE THERMAL UTILIZATION PLANT

Thursday, September 15th

ORAL SESSIONS

AFTERNOON

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

Conveners: Jörg Hermann, Timm John and Marco Scambelluri

(14.00-15.15) Room - Tempio 1

5-14 14.00 – 14.15

Capizzi L.S.*, Fumagalli P., Ildefonse B., Poli S. & Tumiati S.: GEOMETRY AND CONNECTIVITY OF HYDROUS-CARBONATITIC LIQUIDS IN THE MANTLE: AN EXPERIMENTAL MODEL

5-15 14.15 – 14.30

Pohlenz J.*, Pascarelli S., Mathon O., Rosa A.D., Belin S., Landrot G., Shiryaev A., Murzin V., Veligzhanin A., Wagner J., Künzel D., Irifune T. & Wilke M.: STRUCTURAL PROPERTIES OF CARBONATE-SILICATE MELTS: TRACE ELEMENT EXAFS AT HIGH-PRESSURE & TEMPERATURE

5-16 14.30 – 14.45

Carter L.B.* & Dasgupta R.: CRUSTAL CARBONATE ASSIMILATION AS A SOURCE OF MAGMATIC CO₂ RELEASE AT CONTINENTAL ARCS

5-17 14.45 – 15.00

Avanzinelli R.*, Casalini M., Elliott T. & Conticelli S.: DEEP RECYCLING OF CARBONATE-RICH SEDIMENTS IN THE MANTLE SOURCE OF VESUVIUS VOLCANO

5-18 15.00 – 15.15

Lustrino M.*, Gaeta M., Palladino D.M., Rossi G. & Stagno V.: THE POLINO CALCIOCARBONATITE IS NOT A CARBONATITE

S11. Reading and understanding metamorphic rocks

Conveners: Lukas Baumgartner, Pavel Pitra and Dave Waters

(14.00-15.15) Room - Arengo

11-11 14.00 – 14.15

Lotout C.*, Pitra P. & Van Den Driessche J.: CORDIERITE PSEUDOMORPHS IN A PERALUMINOUS GRANITE: AN UNEXPECTED EVIDENCE OF HIGH PRESSURE METAMORPHISM

11-12 14.15 – 14.30

Oalman J., Möller A.* & Bousquet R.: UNRAVELLING THE P-T-t EVOLUTION OF THE GRUF COMPLEX BY *IN SITU* ACCESSORY MINERAL DATING AND THERMOMETRY COMBINED WITH P-T MODELING OF MICRODOMAINS

11-13 14.30 – 14.45

Chopin C.*, Guillot F. & Lanari P.: JADEITE AND NEPHELINE IN THE GRAN PARADISO MASSIF, W. ALPS: DECIPHERING THE HIGH-PRESSURE EVOLUTION OF CONTINENTAL CRUST

11-14 14.45 – 15.00

Bianco C., Godard G.*, Brogi A., Caggianelli A. & Liotta D.: THE LAWSONITE+

GLAUCOPHANE METAGABBROS FROM THE ELBA ISLAND (ITALY): NEW INSIGHTS INTO THE INNER NORTHERN APENNINES

11-15 **15.00 – 15.15**

Massonne H.-J.*, Cruciani G., Franceschelli M. & Musumeci G.: PRESSURE-TEMPERATURE-TIME EVOLUTION OF METAPELITES FROM THE PORTO VECCHIO REGION, VARISCAN CORSICA

S15. Structural behavior and energetic properties of minerals

Conveners: Charles Arthur Geiger, Matteo Ardit and Alan Woodland

(14.00-15.15) Room - Marina

15-10 **14.00 – 14.15**

Beirau T.*, Nix W.D., Ewing R.C., Schneider G.A., Boatner L.A., Groat L.A. & Bismayer U.: MECHANICAL PROPERTIES OF RADIATION DAMAGED ZIRCON AND TITANITE

15-11 **14.15 – 14.30**

Lenz C.*, Lumpkin G.R., Thorogood G.J., Ionescu M. & Nasdala L.: CHARACTERIZATION OF STRUCTURAL RADIATION DAMAGE BY MEANS OF REE³⁺ MICRO-LUMINESCENCE SPECTROSCOPY - THE EXAMPLE OF ZIRCON AND ZIRCONOLITE

15-12 **14.30 – 14.45**

Pina Binignat F.A., Malcherek T., Paulmann C., Schlüter J., Angel R.J. & Mihailova B.*: PRESSURE-INDUCED STRUCTURAL ALTERATION IN METAMICT ZIRCON

15-13 **14.45 – 15.00**

Goethals J.*, Tarrida M., Fourdrin C., Bedidi A., Madon M. & Rossano S.: STRUCTURAL INVESTIGATION OF Nd INCORPORATION IN CaSnO₃ PEROVSKITE

15-14 **15.00 – 15.15**

Balitsky D.V., Balitsky V.S.*, Balitskaya L.V., Setkova T.V. & Nekrasov A.N.: EXPERIMENTAL STUDY OF THE INFLUENCE OF CRYSTALLIZATION CONDITIONS ON CAPTURE AND DISTRIBUTION OF GERMANIUM IN QUARTZ CRYSTALS AND THEIR CHARACTERISTIC

S19. Gem materials

Conveners: Gaston Giuliani, Lee Groat and Federico Pezzotta

(14.00-15.15) Room - Tempio 2

19-10 **14.00 – 14.15**

Rondeau B.*, Fritsch E., Stéphant N., Boulet C. & Chauviré B.: GEM LAZULITE-BEARING BLUE QUARTZITE FROM ITREMO, MADAGASCAR: A POTENTIAL FOR NEW MINERAL SPECIES

19-11 **14.15 – 14.30**

Adamo I.*, Zullino A., Lorenzi R., Prospero L. & Akkas B.: CHARACTERIZATION OF BLUE BANDED CHALCEDONY (AGATE) FROM YOZGAT PROVINCE, TURKEY

19-12 **14.30 – 14.45**

Chauviré B.*, Rondeau B., Mazzerro F., Ayalew D. & Chamard-Bois S.: THE PEDOGENETIC MODEL FOR THE FORMATION OF PRECIOUS OPAL DEPOSIT OF WEGEL TENA, ETHIOPIA

19-13 14.45 – 15.00

Simmons W.*, Falster A., Francis C., Felch M. & Webber K.: ACQUISITIONS BY THE NEW MAINE MINERAL & GEM MUSEUM: RECENT AND HISTORIC GEM PRODUCTION FROM MAINE PEGMATITES

19-14 15.00 – 15.15

Pizzorusso A.C.*: PARADISE BEJEWELED: THE GEMS OF DANTE'S *DIVINE COMEDY*

S21. Mineralogy, geochemistry and valorization of Industrial and mining wastes

Conveners: Jose Miguel Nieto, Salvador Morales and Rafael Pérez-López

(14.00-15.15) Room - Borgo

21-11 14.00 – 14.15

Kowalski P.R.*, Kasina M. & Michalik M.: ALUMINUM RICH PHASES IN MUNICIPAL SOLID WASTE INCINERATION (MSWI) BOTTOM ASH

21-12 14.15 – 14.30

Machiels L., Muchez P., Cappuyns V., Elsen J.*, Jones P.T. & Binnemans K.: KU LEUVEN RESEARCH PROGRAMME ON THE ZERO-WASTE RECYCLING OF MINE TAILINGS

21-13 14.30 – 14.45

Paris E., Grandinetti V., Stabile P., Radica F., Giuli G., Ansaloni F. & Carroll M.R.*: MUNICIPAL AND INDUSTRIAL GLASSES FOR THE PRODUCTION OF ECOSUSTAINABLE BUILDING MATERIALS

21-14 14.45 – 15.00

Tyszka R.*, Pietranik A. & Stankowska S.: MOBILITY OF POTENTIALLY TOXIC ELEMENTS IN THE ŚWIĘTOCHŁOWICE SLAG HEAP: EVIDENCE FROM MINERAL LIBERATION ANALYZES

21-15 15.00 – 15.15

Zanelli C.*, Iglesias C., Domínguez E. & Dondi M.: THE POTENTIAL RECYCLING OF BORON SLUDGES IN CERAMIC TILES

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

Conveners: Alessandro F. Gualtieri, Mickey Gunter and Marisa Rozalen

(14.00-15.15) Room - Parco

26-10 14.00 – 14.15

Mantovani L.*, Barraco V., Tribaudino M., Solzi M., De Munari E. & Pironi C.: MAGNETITE AS A POLLUTANT IN THE ATMOSPHERE: EVIDENCE FROM SEM-EDS AND MAGNETIC ANALYSIS OF LEAVES AND PARTICULATE FILTERS

26-11 14.15 – 14.30

Wilczyńska-Michalik W.*, Zimirska A., Dietrich A., Maszloch E. & Michalik M.: MAGNETIC COMPONENTS IN SOILS AS A RECORD OF ANTHROPOGENIC IMPACT

26-12 14.30 – 14.45

Giehl C.*, Brooker R.A., Marxer H. & Nowak M.: THE EFFECT OF VOLCANIC ASH

• COMPOSITION AND GLASS CONTENT ON JET ENGINE SAFETY

• **26-13** **14.45 – 15.00**

• Vigliaturo R.*, Dražić G. & Petruccione F.: HISTORICAL AND FUTURE ROLE OF HR-TEM AND AR-TEM IN MEDICAL MINERALOGY

• **26-14** **15.00 – 15.15**

• D’Orazio M.*, Biagioni C., Vezzoni S. & Petrini R.: THALLIUM ACCUMULATION INSIDE PIPELINES OF DRINKABLE WATER DISTRIBUTION SYSTEMS: THE CASE OF THE SOUTHERN APUAN ALPS ABANDONED MINING SITES