

11 - 15 September

rimini, italy

Minerals, rocks and fluids: alphabet and words of planet Earth

PROGRAMME



Committees:

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*Editing: Omar Bartoli, Bernardo Carmina, Bernardo Cesare, Giuseppe Cruciani,
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Plenary Lectures

Monday, September 12th 2016

08.30-09.15, Room Anfiteatro

Liane G. Benning (GFZ, German Research Center for Geosciences, Germany / University of Leeds, UK):

"The joys of making or breaking bonds in minerals: a molecular perspective"

Tuesday, September 13th 2016

08.30-09.15, Room Anfiteatro

Frank Melcher (University of Leoben, Austria):

"Nb-Ta-Sn mineralization in pegmatites and granites"

Wednesday, September 14th 2016

08.30-09.15, Room Anfiteatro

Emilio Galán (University of Sevilla, Spain):

"A new methodological approach for the evaluation of soil pollution by trace elements"

10.00-10.45, Room Anfiteatro

Rodney C. Ewing (Stanford University, USA):

"Radiation effects in minerals"

Thursday, September 15th 2016

08.30-09.15, Room Anfiteatro

Karen Appel (European XFEL, Hamburg, Germany):

"New perspectives for mineral sciences using fourth generation light sources"

15.45-16.30, Room Anfiteatro

Marco Scambelluri (University of Genova, Italy):

"Fluids, mass transfer and tectonics in subduction zones: what do we learn from serpentinite?"

Award Talks

Monday, September 12th 2016

10.45, Room Tempio 2

DMG Victor-Moritz-Goldschmidt-Preis (DMG)

Eva E. Stüken (University of Washington, USA)

"Nitrogen cycling in the early precambrian: a major player in early evolution and greenhouse warming"

15.45, Room Arengo

EMU Research Excellence Medal 2015

István János Kovács (Geological and Geophysical Institute of Hungary)

"Quantitative infrared spectrometry of water in nominally anhydrous minerals: facts, doubts and beliefs"

Tuesday, September 13th 2016

9.30, Room Marina

Honorary Fellow 2015 (SIMP)

Frank C. Hawthorne (University of Manitoba, Canada)

"Silicate minerals and the structural hierarchy hypothesis: sheet silicates"

Wednesday, September 14th 2016

11.15, Room Tempio 2

Hallimond Lecturer (MinSoc)

Kevin M. Rosso (Pacific Northwest National Laboratory, USA)

"Pathways and kinetics of biogeochemical redox reactions at the molecular scale"

Award Ceremony

Wednesday, September 14th 2016, 9.15-10.00 - Room Anfiteatro

Chair: Heidi Höfer (Frankfurt)

Citationist: President SEM - Juan Jiménez Millán (Jaén)

SEM Honorary Member

Emilio Galán

(Universidad de Sevilla, Spain)

Citationist: President MinSoc - Hilary Downes (London)

Mineralogical Society-Schlumberger Award

Liane G. Benning

(University of Leeds, UK; GFZ, Potsdam, Germany)

Citationist: Jon Lloyd (Manchester)

Hallimond Lecturer

Kevin M. Rosso

(Pacific Northwest National Laboratory, USA)

Citationist: Roland Stalder (Innsbruck)

EMU Research Excellence Medal 2015

István János Kovács

(Geological and Geophysical Institute of Hungary)

Citationist: President DMG - Francois Holtz (Hannover)

DMG Abraham-Gottlob-Werner-Medaille

Gerhard Brey

(University of Frankfurt, Germany)

DMG Victor-Moritz-Goldschmidt-Preis 2015

Eva E. Stüken

(University of Washington, USA)

DMG Victor-Moritz-Goldschmidt-Preis 2016

Christoph Burkhardt

(University of Münster, Germany)

DMG Georg-Agricola Medaille

Ulrich Förstner

(Technical University Hamburg-Harburg, Germany)

Citationist: President SIMP - Alessandro Pavese (Milan)

SIMP Honorary Fellow

Frank C. Hawthorne

(University of Manitoba, Canada)

SIMP Honorary Fellow

David L. Bish

(Indiana University, USA)

Citationist: President IMA - Sergey Krivovichev (St. Petersburg)

IMA 2015 Medal

Rodney C. Ewing

(Stanford University, USA)

Technical Sponsor Sessions

Monday, September 12th 2016

(14.00-15.15)

Room - Tempio 2

14.00-14.30 (*ZEISS*)

Graham S.D., Hil E.* & Wittge J.: GEOSCIENCE EDUCATION IN A DIGITAL WORLD WITH DIGITAL MICROSCOPY

14.30-14.45 (*PerkinElmer*)

Baccolo G., Clemenza M.*, Delmonte B. & Magarini R. : SOLUBLE AND INSOLUBLE ELEMENTAL CONTENT IN ANTARCTIC ICE CORES: NEW ADVANCES USING A NEW GENERATION ICP-MS

14.45-15.00 (*Bruker Nano Analytics*)

Wittkopp A.*: ADVANCED MINERAL IDENTIFICATION AND CHARACTERISATION BY MICRO-XRF

15.00-15.15 (*Panalytical*)

Casini E.*, Nénert G., Prugovecki S., Isobe M., Dadivanyan N., Belik A. & Slobodin B.V. : THE EMPYREAN PLATFORM AND NON AMBIENT STUDIES: FEW EXAMPLES FOCUSED ON PYROXENES, BLOSSITE

Monday, September 12th 2016

(15.45-16.45)

Room - Tempio 2

15.45-16.00 (*Assing/Rigaku*)

Ohbuchi A., Shiramata Y., Konya T., Yamano A., Fujinawa G. & Grässlin J.* : STRUCTURE ANALYSIS FROM POWDER FOR SAMPLES WITH STRONG ANISOTROPY IN CRYSTAL MORPHOLOGY USING A GANDOLFI ATTACHMENT

16.00-16.15 (*Agilent*)

Scardina P.* & Pasini V. : ONE MICRON HIGH SPATIAL RESOLUTION FT-IR IMAGING: APPLICATIONS IN THE GEOLOGICAL DOMAIN

16.15-16.30 (*Horiba*)

Fabris D.* & Gai S.: NEW SOLUTIONS IN RAMAN TECHNOLOGY

16.30-16.45 (*xplorex*)

Kinneying A.J.*, Verbruggen R. & Huber N.: THE PLANET. A PORTABLE, HIGH-RESOLUTION XRPD

16.45-17.00 (*SOGIN*)

Chiaravalli F., Uras S. & Ventura G.*: THE ITALIAN NATIONAL REPOSITORY FOR DISPOSAL OF RADIOACTIVE WASTES: LEARNING FROM THE DURABILITY OF ARCHAEOLOGICAL ANALOGUES OF MODERN BUILDING MATERIALS

Oral Scientific Sessions Timetable

		Arengo	Tempio1	Tempio2	Marina	Parco	Borgo
Monday 12	09.30 - 10.45	S6	S13	S3	S16	S10	S22
	11.15 - 12.30	S6	S13	S3	S16	S10	S22
	14.00 - 15.15	S6	S1	<i>Technical Session</i>	S16	S20	S22
	15.45 - 17.00		S1	<i>Technical Session</i>	S17	S20	S22
Tuesday 13	09.30 - 10.45	S12	S2	S4	S17	S8	S23
	11.15 - 12.30	S12	S2	S4	S17	S8	S23
	14.00 - 15.15	S12	S2	S4	S28	S7	S23
	15.45 - 17.00	S12	S2	S4	S28	S7	
Wednesday 14	11.15 - 12.30	S27	S24	S25	S14	S9	S18
	14.00 - 15.15	S27	S24	S25	S14	S9	S18
	15.45 - 17.00	S27	S5	S25	S14	S9	S18
Thursday 15	09.30 - 10.45	S11	S5	S19	S15	S26	S21
	11.15 - 12.30	S11	S5	S19	S15	S26	S21
	14.00 - 15.15	S11	S5	S19	S15	S26	S21

Oral Scientific Sessions – When and Where

S1 Diamonds: open windows in the Earth's mantle

ORAL SESSION

Room - Tempio 1

Monday 12th (14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Monday 12th

S2 Evolution of the Earth's mantle and melt generation through time

ORAL SESSION

Room - Tempio 1

Tuesday 13th (09.30-10.45)(11.15-12.30)
(14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Tuesday 13th

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

ORAL SESSION

Room - Tempio 2

Monday 12th (09.30-10.45)(11.15-12.30)

POSTER SESSION

Poster Area

Monday 12th

S4 Fluids in the crust

ORAL SESSION

Room - Tempio 2

Tuesday 13th (09.30-10.45)(11.15-12.30)
(14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Tuesday 13th

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

ORAL SESSION

Room - Tempio 1

Wednesday 14th (15.45-17.00)
Thursday 15th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Wednesday 14th

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

ORAL SESSION

Room – Arengo

Monday 12th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area 12

Monday 12th

S7 From deep magmatic processes to volcanic eruption

ORAL SESSION

Room – Parco

Tuesday 13th (14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Tuesday 13th

S8 Diffusion, mineral reaction and deformation mechanisms from low to high temperatures: flow and brittle processes of the Earth's interior

ORAL SESSION

Room – Parco

Tuesday 13th (09.30-10.45)(11.15-12.30)

POSTER SESSION

Poster Area

Tuesday 13th

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

ORAL SESSION

Room – Parco

Wednesday 14th (11.15-12.30)(14.00-15.15)
(15.45-17.00)

POSTER SESSION

Poster Area

Wednesday 14th

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

ORAL SESSION

Room – Parco

POSTER SESSION

Poster Area

Monday 12th (09.30-10.45)(11.15-12.30)

Monday 12th

S11 Reading and understanding metamorphic rocks

ORAL SESSION

Room – Arengo

Thursday 15th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Wednesday 14th

S12 Clays, zeolites and nanostructured minerals: from mineralogy to applications in industry and environment

ORAL SESSION

Room – Arengo

Tuesday 13th (09.30-10.45)(11.15-12.30)
(14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Tuesday 13th

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

ORAL SESSION

Room - Tempio 1

Monday 12th (09.30-10.45)(11.15-12.30)

POSTER SESSION

Poster Area

Monday 12th

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

ORAL SESSION

Room – Marina

Wednesday 14th (11.15-12.30)(14.00-15.15)
(15.45-17.00)

POSTER SESSION

Poster Area

Wednesday 14th

S15 Structural behavior and energetic properties of minerals

ORAL SESSION

Room – Marina

Thursday 15th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Monday 12th

S16 New minerals, modular structures and mineral groups

ORAL SESSION

Room – Marina

Monday 12th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Monday 12th

S17 Mineral diversity, complexity and evolution

ORAL SESSION

Room – Marina

Monday 12th (15.45-17.00)

Tuesday 13th (09.30-10.45)(11.15-12.30)

POSTER SESSION

Poster Area

Tuesday 13th

S18 Planetary materials: from dust to planets and Early Earth

ORAL SESSION

Room – Borgo

Wednesday 14th (11.15-12.30)(14.00-15.15)
(15.45-17.00)

POSTER SESSION

Poster Area

Wednesday 14th

S19 Gem materials

ORAL SESSION

Room - Tempio 2

Thursday 15th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Tuesday 13th

S20 High-tech metal minerals in Europe

ORAL SESSION

Room – Parco

Monday 12th (14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Monday 12th

S21 Mineralogy, geochemistry and valorization of Industrial and mining wastes

ORAL SESSION

Room – Borgo

Thursday 15th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Monday 12th

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

ORAL SESSION

Room – Borgo

Monday 12th (09.30-10.45)(11.15-12.30)
(14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Monday 12th

S23 The future of critical metals: mineralogy, metallogenesis and geometallurgy

ORAL SESSION

Room – Borgo

Tuesday 13th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Tuesday 13th

S24 The petrology-geochronology connection

ORAL SESSION

Room - Tempio 1

Wednesday 14th (11.15-12.30)(14.00-15.15)

POSTER SESSION

Poster Area

Wednesday 14th

S25 Biogeochemical interfaces and environmental (bio)mineralogy

ORAL SESSION

Room - Tempio 2

Wednesday 14th (11.15-12.30)(14.00-15.15)
(15.45-17.00)

POSTER SESSION

Poster Area

Wednesday 14th

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

ORAL SESSION

Room – Parco

Thursday 15th (09.30-10.45)(11.15-12.30)
(14.00-15.15)

POSTER SESSION

Poster Area

Wednesday 14th

S27 Mineral sciences for the understanding of cultural heritage

ORAL SESSION

Room – Arengo

Wednesday 14th (11.15-12.30)(14.00-15.15)
(15.45-17.00)

POSTER SESSION

Poster Area

Wednesday 14th

S28 Museums and teaching mineral sciences to new generations

ORAL SESSION

Room – Marina

Tuesday 13th (14.00-15.15)(15.45-17.00)

POSTER SESSION

Poster Area

Tuesday 13th

[illegible]

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 IGIMBRITES: 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 – 12.15

Lotti 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 *XPRESS*, 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 – 10.15

Hålenius 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.*, Galuskin 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-As(Sb)-Ag-Tl SULFOSALTS

16-7 11.30 – 11.45

Biagioni C.*, Dini A., Merlino S., Mošlo 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, $K_{14}Ca_{42}NaSi_{60}O_{160}F_{16}(OH)_4 \cdot 2H_2O$, 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: Hélène 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.*, Kuzura 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

Anzolini 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

Krzatula 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 $\{Ca(OH_2)_2\}_2[Zn_2(OH)_6]$ 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., Lokhov 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.*, Dobrzynetskiy 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 A., 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. & Gimon 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. & Traveria 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

Schimetzek 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 "ARCLOGITE" – A CASE STUDY FROM THE SITTAMPUNDI LAYERED ANORTHOSITE 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., Luttge 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 PbCO_3 TO PHOSPHATE PHASES AT WIDE RANGE OF $p\text{H}$

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. & Dueterhoeft 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 50Chernyatueva 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 LA-TIUMITE GROUP MINERAL, KCa₂Al₂(SiO₄)(Si₂O₇)(PO₄) FROM LEUCITE-BEARING PARALAVA OF THE HATRURIM COMPLEX, NÉGEV 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**Kovrugina 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 OCCURENCE 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., Vigasina 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-Garido 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. & Doménech 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

Chatzipanagiotou C.*, Gervilla F. & Fontboté L.: DISTRIBUTION OF PLATINUM-GROUP ELEMENTS IN THE SAN AGUSTÍN (CHROMITE-Ni ARSENIDE ORES) AND EL GALLEGU (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 ACQUEOUS 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

	Arengo	Tempio1	Tempio2	Marina	Parco	Borgo
	Plenary Melcher					
		Sossi	Steinmann	Hawthorne	Faulkner	Carvalho
	Bauluz	Münker	Villa	Ertl	Lecière	
S12	Suárez	Bailhaus	Bonnemains	Burns	Abd Elmola	Cepedal
	García-Rivas	Aulbach	de Ronde	Plášil	Campione	Mondillo
	Martín	Natali	Pertsev	Gurzhiy	Tesei	Ciobanu
	Coffee Break					
	García-Romero	Tiepolo	Kutschbach	Christy	Tajčmanová	Cook
	Schiebel	Bromblin	Miron	Rieder	Piazolo	Brodbeck
S12	Malferlari	Aradi	Stefánsson	Krivovichev	Goryaeva	Pinto
	Mervat	Liptai	Kleine	Krivovichev	Faryad	Gill
	Mills	Puziewicz	Liebscher	Povarennykh	Plumper	Alfonso
	Lunch Break					
	Cerri	Portnyagin	Rapa	Chiesa	Pichavant	Kontonikas-Charos
		Borghini		Hecht		Goodenough
S12	Rodeghero	Ali	Baumgartner	Schumann	Gubbay-Nemes	Hughes
	Quartieri	Ferrando	Fregola	Simon	Botcharnikov	Aiglsperger
	Cruciani	Sanfilippo	Verlague	Kreher-Hartmann	Cigala	Al Ali
	Coffee Break					
	Occhipinti	Basch	Sanchez-Valle	Walcott	Oeser	
	Belviso	Rampone		Kaliwoda	González-García	
S12	Comboni	Koepeke		Maraffi	Assbichler	
	Consani	Schwindrofska	McCaig	Paris	Ridolfi	
	Golubev	Zilberna	Kullerud	Milke	Stuff	
	Poster Sessions					
	Annual National Society Meetings					

Tuesday, September 13th

ORAL SESSIONS

MORNING

S2. Evolution of the Earth's mantle and melt generation through time

Conveners: Costanza Bonadiman, Carsten Munker, Helen Williams, Marguerite Godard, Othmar Müntener and Alberto Zanetti

(09.30-10.45) Room - Tempio 1

2-1 09.30 – 09.45

Sossi P.A.* & Moynier F.: THE LUNAR Mg SUITE AND THE IRON ISOTOPE COMPOSITION OF THE MOON

2-2 09.45 – 10.00

van de Löcht J., Li C., Hoffmann J.E., Wang Z., Becker H., Rosing M., Kleinschrodt R. & Münker C.*: EARTH'S OLDEST MANTLE PERIDOTITES INDICATE EARLY MIXING OF THE LATE VENEER INTO THE MANTLE

2-3 10.00 – 10.15

Ballhaus C.*, Münker C., Fonseca R.O.C., Nagel T., Speelmanns I.M., Zirner A., Vogel A. & Heuser A.: THE SULFUR DEPLETION IN THE EARTH'S MANTLE IS NOT A HIGH PRESSURE SIGNATURE

2-4 10.15 – 10.30

(KEYNOTE) Aulbach S.*: CONSTRAINTS FROM SPREADING RIDGE-DERIVED ECLOGITES ON ARCHAEOAN MANTLE POTENTIAL TEMPERATURES

2-12 10.30 – 10.45

Beccaluva L., Bianchini G., Natali C.* & Siena F.: THE ALKALINE-CARBONATITE COMPLEX OF JACUPIRANGA (BRAZIL) REVISITED: MAGMA GENESIS, MODE OF EMPLACEMENT AND TECTONO-MAGMATIC SIGNIFICANCE

(11.15-12.30) Room - Tempio 1

2-6 11.15 – 11.30

Sessa G., Tiepolo M.*, Moroni M., Fiorentini M.L., Langone A., Giazzi G., Krotz L., Ferrari E. & Loucks R.R.: AMPHIBOLE AS A PROXY OF THE SECULAR VARIATIONS IN PRIMITIVE MAGMAS

2-7 11.30 – 11.45

Brombin V.*, Bonadiman C., Coltorti M. & Bryce J.: MANTLE XENOLITHS FROM MAROSTICANO AREA (NORTHERN ITALY): A COMPARISON WITH VENETO VOLCANIC PROVINCE LITHOSPHERIC MANTLE

2-8 11.45 – 12.00

Aradi L.E.*, Hidas K., Klébesz R., Kovács I., Patkó L., Zanetti A. & Szabó C.: DEFORMATION OF THE LITHOSPHERIC MANTLE BENEATH THE STYRIAN BASIN (EASTERN AUSTRIA) - A STUDY ON PERIDOTITE XENOLITHS

2-9 12.00 – 12.15

Liptai N.*, Patkó L., Kovács I., Hidas K., O'Reilly S.Y., Griffin W.L., Pearson N.J. & Szabó C.: GEOCHEMICAL EVOLUTION OF THE UPPER MANTLE BENEATH THE NÓGRÁD-GÖMÖR VOLCANIC FIELD (N-HUNGARY – S-SLOVAKIA) AS RECONSTRUCTED FROM SPINEL PERIDOTITE XENOLITHS

2-11 12.15 – 12.30

Puziewicz J.*, Matusiak-Malek M., Ntaflou T., Kukuła A. & Ćwiek M.: MANTLE ROOTS OF NE PART OF THE VARISCAN OROGEN IN EUROPE: PROTOLITH PROVENANCE AND METASOMATIC STYLES

S4. Fluids in the crust

Conveners: Maria Luce Frezzotti, Cristoph Heinrich and Thomas Müller

(09.30-10.45) Room - Tempio 2**4-1 09.30 – 09.45**

Steinmann L.*, Lazarov M., Wang Z., Becker H. & Weyer S.: THE DISTRIBUTION OF SIDEROPHILE AND CHALCOPHILE TRACE METALS IN MANTLE ROCKS (BALMUCCIA, ITALY)

4-2 09.45 – 10.00

Villa I.M.*, Peverelli V., Oglialoro E., Pettke T. & Frezzotti M.L.: HALOGENS, BARIUM AND URANIUM IN MANTLE FLUID INCLUSIONS

4-3 10.00 – 10.15

Bonnemains D.*, Verlaque A., Escartin J., Mével C., Boiron M.-C. & Andreani M.: NATURE AND ORIGIN OF SI-RICH FLUIDS AT 13°20'N SILICIFIED OCEANIC DETACHMENT FAULT (MID-ATLANTIC RIDGE)

4-4 10.15 – 10.30

de Ronde C.E.J.* & Stucker V.K.: SEAFLOOR HYDROTHERMAL VENTING AT VOLCANIC RCS AND BACKARCS

4-5 10.30 – 10.45

Pertsev A.*, Prokof'ev V.Y., Aranovich L. & Ageeva O.: PLUTONIC-LEVEL HYDROTHERMAL COOLING RELATED TO OCEANIC DETACHMENT FAULTING: MINERALOGY AND FLUID ORIGIN

(11.15-12.30) Room - Tempio 2**4-6 11.15 – 11.30**

Kutzschbach M.*, Wunder B., Trumbull R.B., Meixner A., Heinrich W. & Franz G.: THE EFFECT OF TETRAHEDRAL B ON THE B ISOTOPE FRACTIONATION BETWEEN OLENITIC TOURMALINE AND FLUID

4-7 11.30 – 11.45

Miron G.D.*, Wagner T., Kulik D.A. & Heinrich C.A.: INTERNALLY CONSISTENT THERMODYNAMIC DATA FOR HYDROTHERMAL MINERAL SOLUBILITY EQUILIBRIA IN THE SYSTEM Ca-Mg-Na-K-Al-Si-O-H-C-Cl

4-8 11.45 – 12.00

Stefánsson A.*: MULTICOMPONENT FLUID CHEMISTRY OF HIGH-ENTHALPY GEOTHERMAL SYSTEM

4-9 12.00 – 12.15

Kleine B.I.*, Stefánsson A., Halldórsson S.A., Whitehouse M., Barnes J.D., Jónsson K. & Franzson H.: COUPLED HYDROGEN, OXYGEN AND SILICON ISOTOPE SYSTEMATICS OF GROUNDWATER-MAGMA INTERACTION IN ICELANDIC HYDROTHERMAL SYSTEMS

4-10 12.15 – 12.30

Liebscher A.*, Henningsen J. & Möller F.: SPECTACULAR VIDEO INSPECTIONS OF TWO-PHASE FLUID CONDITIONS AND INVERTED FLUID-DENSITY PROFILES IN OBSERVATION WELLS AT THE KETZIN CO₂ STORAGE SITE, GERMANY – AN ARTI-

FICIAL ANALOGUE TO VAPOUR DOMINATED GEOTHERMAL SYSTEMS?

S8. Diffusion, mineral reaction and deformation mechanisms from low to high temperatures: flow and brittle processes of the Earth's interior

Conveners: Sylvie Demouchy, Katharina Marquardt, Juan Jimenez-Millan, Martine Buatier and Cecilia Viti

(09.30-10.45) Room - Parco

8-1 09.30 – 09.45

(KEYNOTE) Faulkner D.R.*: FAULT STRENGTH, EARTHQUAKE NUCLEATION, AND RUPTURE PROPAGATION IN CLAY-RICH FAULT ZONES

8-2 09.45 – 10.00

Leclère H.*, Faulkner D.R., Wheeler J. & Mariani E.: PERMEABILITY CONTROL OF TRANSIENT SLIP WEAKENING DURING GYPSUM DEHYDRATION AND IMPLICATIONS ON SUBDUCTION ZONES

8-3 10.00 – 10.15

Abd Elmola A.*, Buatier M., Monié P., Charpentier D., Lanari P., Trincal V. & Labaume P.: THERMOCHRONOLOGY OF FAULT ACTIVITY BY CHARACTERIZATIONS OF CLAY MINERALS (EXAMPLE OF PIC DE PORT VIEUX THRUST, PYRENEES, SPAIN)

8-4 10.15 – 10.30

Campione M.*: THE BIVALENCE AND ANOMALIES OF ANTIGORITE IN THRUST FAULT MECHANICS

8-5 10.30 – 10.45

Tesei T.*, Viti C. & Collettini C.: DEFORMATION IN SERPENTINE-RICH SHEAR ZONES: FIELD OBSERVATIONS AND FRICTION OF MINERALOGICALLY-CONTROLLED SERPENTINES

(11.15-12.30) Room - Parco

8-6 11.15 – 11.30

(KEYNOTE) Tajčmanová L.*, Moulas E., Vrijmoed J.C. & Zhong X.: INTERPLAY BETWEEN CHEMICAL DIFFUSION AND DEFORMATION

8-7 11.30 – 11.45

Piazolo S.*, La Fontaine A., Trimby P., Harley S., Yang L., Armstrong R. & Cairney J.M.: ATOMS ON THE MOVE: DEFORMATION-INDUCED TRACE ELEMENT REDISTRIBUTION IN ZIRCON REVEALED USING ATOM PROBE TOMOGRAPHY

8-8 11.45 – 12.00

Goryaeva A.M.*, Carrez P. & Cordier P.: MODELING [100] DISLOCATION GLIDE IN MgSiO₃ POST-PEROVSKITE UNDER D'' CONDITIONS

8-9 12.00 – 12.15

Faryad S.W.*, Jedlicka R., Jezek J. & Hauzenberger C.: PRESERVATION OF COMPOSITIONAL ZONING OF ECLOGITE FACIES GARNET WITH GRANULITE FACIES OVERPRINT; HOW FAST THE METAMORPHIC PROCESSES DURING COLLISION OROGENY ARE?

8-10 12.15 – 12.30

Plümper O.*, Botan A., Los C., Malthé-Sørenssen A. & Jamtveit B.: NANOSCALE TRANSIENT POROSITY CONTROLS LARGE-SCALE METAMORPHIC FLUID FLOW

TUESDAY 13/09/16

S12. Clays, zeolites and nanostructured minerals: from mineralogy to applications in industry and environment

Conveners: Emilia Garcia Romero, Annalisa Martucci and Mercedes Suarez

(09.30-10.45) Room - Arengo

12-1 09.30 – 10.00

(KEYNOTE) Bauluz B.*, Mayayo M.J. & Yuste A.: MICROTEXTURE AND GENESIS OF KAOLIN MINERALS IN SEDIMENTARY ENVIRONMENTS OF THE LOWER CRETACEOUS IN NE SPAIN

12-2 10.00 – 10.15

Suárez M.*, García-Romero E., Simic V. & Andric N.: Mg-PHYLLOSILICATES CRYSTAL CHEMISTRY OF THE ANDRIČI SEPIOLITE DEPOSIT (SERBIA)

12-3 10.15 – 10.30

García-Rivas J.*, Torres T., Ortiz J.E., Sánchez-Palencia Y., García-Romero E. & Suárez M.: GEOCHEMISTRY AND BIOMARKER ANALYSIS OF THE BENTONITES FROM ESQUIVIAS (MADRID)

12-4 10.30 – 10.45

Martín D.*, Aparicio P. & Galán E.: CAPTURE OF CO₂ BY CONSTRUCTION WASTE

(11.15-12.30) Room - Arengo

12-5 11.15 – 11.30

García-Romero E.* & Suárez M.: INFLUENCE OF INTERLAMINAR Mg IN THE CLASSIFICATION OF SMECTITES

12-6 11.30 – 11.45

Schiebel K.*, Jordan G., Kaestner A., Böhnke S. & Schmahl W.W.: INFLUENCE OF MOISTURE AND TEMPERATURE ON THE TENSILE STRENGTH OF BENTONITE BOUNDED MOULDING SAND

12-7 11.45 – 12.00

MalFerrari D.*, Bernini F., Borsari M., Brigatti M.F., Castellini E. & Cástro R.G.: EFFICIENT AND SELECTIVE REMOVAL OF ORGANIC VOLATILE SULPHUR DERIVATIVES USING MONTMORILLONITE INTERCALATED WITH Fe³⁺-PHENANTHROLINE COMPLEX

12-8 12.00 – 12.15

Mervat H.*, Heba F., Fatma A. & El-Herbiny S.: SPECTROSCOPIC AND MICROSCOPIC EVALUATION OF ORGANIC-CLAY INTERCALATION

12-9 12.15 – 12.30

Mills S.J.*, Génin J.-M.R. & Christy A.G.: GREEN RUST: THE FIRST DISCOVERIES IN AUSTRALIA, DNA, AND INDUSTRIAL USES

S17. Mineral diversity, complexity and evolution

Conveners: Sergey Krivovichev and Edward Grew

(09.30-10.45) Room - Marina

17-6 09.30 – 09.45

Hawthorne F.C.*: SILICATE MINERALS AND THE STRUCTURAL HIERARCHY HYPOTHESIS: SHEET SILICATES

17-7 09.45 – 10.00

Kutzschbach M., Ertl A.*, Wunder B., Krstulovic M., Trumbull R.B. & Rocholl A.:

FIRST HIGH-PRESSURE SYNTHESIS OF LITHIUM-RICH TOURMALINE AND EVIDENCE FOR THE INCORPORATION OF Li AT THE X SITE

17-8 10.00 – 10.15

Burns P.C.* & Lussier A.J.: COMPLEXITY OF URANYL MINERALS: A STRUCTURAL HIERARCHY APPROACH

17-9 10.15 – 10.30

Plášil J.*: THE STRUCTURAL COMPLEXITY OF URANYL-OXIDE HYDROXY-HYDRATE MINERALS: IMPLICATIONS FOR THEIR FORMATION AND OCCURRENCE

17-10 10.30 – 10.45

Gurzhiy V.V.*, Tyumentseva O.S. & Krivovichev S.V.: EVOLUTION OF STRUCTURAL TOPOLOGY VS. CHEMICAL COMPOSITION IN MIXED URANYL SULFATE-SELENATES

(11.15-12.30) Room - Marina

17-11 11.15 – 11.30

Christy A.G.*: WHAT DO WE MEAN BY "CHALCOPHILICITY" AND "SIDEROPHILICITY" IN THE CRUST?

17-12 11.30 – 11.45

Rieder M.*: PLOTTING THE WHOLE MINERALOGICAL SYSTEM – THE CONCEPT AND THE RESULTS

17-13 11.45 – 12.00

Krivovichev V.G.*, Charykova M.V. & Krivovichev S.V.: MINERAL SYSTEM BASED ON THE NUMBER OF SPECIES-DEFINING CHEMICAL ELEMENTS IN MINERALS, THEIR TYPES, DISTRIBUTION AND MINERAL EVOLUTION OF EARTH'S CRUST

17-14 12.00 – 12.15

Krivovichev S.V.*, Krivovichev V.G. & Hazen R.M.: STRUCTURAL AND CHEMICAL COMPLEXITY OF MINERALS: RELATIONS AND TIME EVOLUTION

17-15 12.15 – 12.30

Povarennykh M.Y.*: CRYSTAL-CHEMICAL PARADIGM OF MODERN MINERALOGY. WHAT IS NEXT? ON THE ONTOGENY PARADIGM

S23. The future of critical metals: mineralogy, metallogenesis and geometallurgy

Conveners: John Bowles, Nigel Cook and Hannah Hughes

(09.30-10.45) Room - Borgo

23-1 09.30 – 10.00

(KEYNOTE) Carvalho J.R.S., Relvas J.M.R.S.*, Pinto A.M.M., Pacheco N., Fonseca R., Santos S., Caetano P., Reis T. & Gonçalves M.: INDIUM AND SELENIUM IN THE NEVES-CORVO VHMS DEPOSIT

23-2 10.00 – 10.15

Gallard-Esquivel M.C., Cepedal A.*, Fuertes-Fuente M. & Martin-Izard A.: MINERAL RESOURCE OF CRITICAL METALS (Te-Ge-Se-In) IN EPITHERMAL DEPOSITS OF "LA CAROLINA" DISTRICT, SAN LUIS (ARGENTINA)

23-3 10.15 – 10.30

Mondillo N.*, Herrington R.J., Boni M. & Arfé G.: CRITICAL ELEMENTS IN NONSULFIDE ZINC DEPOSITS

23-4 10.30 – 10.45

Ciobanu C.L.*, Maunders C., Cook N.J. & Wade B.P.: NANOSCALE CHARACTERIZA-

TION OF COMPOSITIONALLY-ZONED SPHALERITE

(11.15-12.30) Room - Borgo

23-5 11.15 – 11.30

Cook N.J.* & Ciobanu C.L.: MULTI-TRACE ELEMENT CONCENTRATION DATA FOR MINERALS: IDENTIFYING POTENTIAL NEW RESOURCES OF CRITICAL ELEMENTS

23-6 11.30 – 11.45

Brodbeck M.*, Kleinhanns I., Schönberg R., Wenzel T. & Kamber B.S.: TRACE ELEMENT MAPPING - A POWERFUL TOOL TO ASSESS THE SMALL-SCALE DISTRIBUTION OF CRITICAL METALS

23-7 11.45 – 12.00

Pinto A.M.M.*, Relvas J.M.R.S., Barriga F.J.A.S., Carvalho J.R.S., Liu Y., Pacheco N., Fonseca R., Santos S., Caetano P., Reis T. & Gonçalves M.: GOLD MINERALIZATION IN THE NEVES-CORVO VHMS DEPOSIT

23-8 12.00 – 12.15

Gill S.-J.*: THE RELATIONSHIP BETWEEN MAGNETITE AND COPPER-SILVER MINERALISATION OF THE KALAHARI COPPERBELT IN CENTRAL-EASTERN NAMIBIA

23-9 12.15 – 12.30

Alfonso P.*, Garcia-Valles M., Hamid S., Tomasa O., Llorens T., Oliva J., Guasch E., Anticoi H. & García-Polonio F.: RARE-ELEMENT MINERALIZATION IN THE Sn-Ta PENOUTA ORE DEPOSIT, NW SPAIN

TUESDAY 13/09/16

Tuesday, September 13th

ORAL SESSIONS

AFTERNOON

S2. Evolution of the Earth's mantle and melt generation through time

Conveners: Costanza Bonadiman, Carsten Munker, Helen Williams, Marguerite Godard, Othmar Müntener and Alberto Zanetti

(14.00-15.15) Room - Tempio 1

2-5 14.00 – 14.15

Portnyagin M.*, Sushchevskaya N., Shishkina T., Kamenetsky V., Taylor R.N. & Garbe-Schönberg D.: SILVER AND COPPER FRACTIONATION IN MORB

2-16 14.15 – 14.30

Borghini G.*, Fumagalli P. & Rampone E.: THE ROLE OF SECONDARY PYROXENITES IN THE COMPOSITION OF MELTS FROM VEINED MANTLE SOURCES: EXPERIMENTAL CONSTRAINTS

2-21 14.30 – 14.45

Ali S.A.*, Nutman A.P. & Jones B.G.: OVERVIEW OF THE TECTONIC EVOLUTION OF THE IRAQI ZAGROS THRUST ZONE: SIXTY MILLION YEARS OF CONVERGENCE IN NEOTETHYS

2-14 14.45 – 15.00

Ferrando C.*, Godard M. & Ildefonse B.: NEW CONSTRAINTS ON THE FORMATION OF HETEROGENEOUS OCEANIC CRUST AT SLOW SPREADING RIDGES: A DETAILED PETRO-GEOCHEMICAL STUDY OF THE OLIVINE-RICH TROCTOLITES FROM ATLANTIS MASSIF (MAR, IODP Hole U1309D, 30°N)

2-15 15.00 – 15.15

Sanfilippo A.*, Tribuzio R., Ottolini L. & Hamada M.: MANTLE MELTING, MELT EXTRACTION AND AGGREGATION BENEATH MID OCEAN RIDGES: CLUES FROM OLIVINE IN REPLACIVE DUNITES

(15.45-17.00) Room - Tempio 1

2-22 15.45 – 16.00

Basch V.*, Rampone E., Ildefonse B., Godard M. & Crispini L.: HYBRID ORIGIN OF THE ERRO-TOBBIO TROCTOLITES (LIGURIAN OPHIOLITES, ITALY): STRUCTURAL AND GEOCHEMICAL EVIDENCE OF MULTI-STAGE EVOLUTION

2-17 16.00 – 16.15

(KEYNOTE) Rampone E.*: MELT MIGRATION AND MELT-ROCK REACTION IN THE ALPINE-APENNINE PERIDOTITES: INSIGHTS ON MANTLE DYNAMICS IN EXTENDING LITHOSPHERE

2-18 16.15 – 16.30

Koepeke J.*, Zhang C., Namur O., Meyer R. & Feig S.T.: ORTHOPYROXENE IN PRIMITIVE LAYERED GABBROS FROM HESS DEEP (EPR): FORMATION BY MANTLE/MELT INTERACTION OR FRACTIONAL CRYSTALLIZATION?

2-19 16.30 – 16.45

Schwindrofska A.*, Hoernle K., van den Bogaard P., Hauff F. & Werner R.: SUBMARINE STRUCTURES OF THE CARIBBEAN LARGE IGNEOUS PROVINCE: AGE AND GEOCHEMISTRY OF THE BEATA RIDGE AND HESS ESCARPMENT

2-20 16.45 – 17.00

Zibera L.*, Green E.C.R. & Blundy J.D.: THE PRESSURE SIGNAL IN OLIVINE-BEARING GABBROIC ROCKS

S4. Fluids in the crust

Conveners: Maria Luce Frezzotti, Cristoph Heinrich and Thomas Müller

(14.00-15.15) Room - Tempio 2

4-11 14.00 – 14.15

Rapa G.*, Groppo C., Rolfo F. & Mosca P.: CALC-SILICATE REACTIONS AND TEXTURES REVEAL METAMORPHIC-CO₂ PROCESSES AND FLUXES IN THE HIMALAYAS

4-12 14.15 – 14.45

(KEYNOTE) Baumgartner L.P.*, Bégué F., Bouvier A.-S., Putlitz B., Vennemann T. & Baumgartner C.: CONTROL OF STABLE ISOTOPE EXCHANGE BY NET-TRANSFER AND DISSOLUTION-RECRYSTALLIZATION REACTIONS AROUND HYDROTHERMAL VEINS IN CARBONATES

4-13 14.45 – 15.00

Fregola R.A.*, Ruggieri G., Rimondi V., Zucchi M., Punzi C., Brogi A. & Liotta D.: RECONSTRUCTING THE CIRCULATION OF PALEO-FLUIDS THROUGH FLUID INCLUSION STUDIES: THE CASE OF THE IRON-MINERALIZATION OF EASTERN ELBA ISLAND

4-14 15.00 – 15.15

Verlaguet A.*, Brunet F., Goffé B., Menut D., Findling N., Poinssot C. & Huet B.: SELECTIVE TRANSFER OF Li-Al-RICH PHYLLOSILICATE TO METAMORPHIC VEINS (WESTERN ALPS): LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS) COMPOSITIONAL PROFILES AND MICROSTRUCTURAL CHARACTERIZATION

(15.45-17.00) Room - Tempio 2

4-15 15.45 – 16.00

Sanchez-Valle C.*, Louvel M., Tsay A. & Zajacz Z.: SLAB FLUIDS AND CONTROLS ON TRACE ELEMENT RECYCLING IN SUBDUCTION ZONES

4-16 16.00 – 16.30

(KEYNOTE) Hermann J.*: THE DEEP WATER CYCLE THROUGH THE LITHOSPHERE

4-17 16.30 – 16.45

McCaig A.M.*, Titarenko S.S., Savov I.P., Cliff R.A., Agostini S. & Boyce A.J.: BORON CONTENT OF ALTERED OCEANIC GABBRO: IMPLICATIONS FOR BORON FLUXES IN SUBDUCTION ZONES

4-18 16.45 – 17.00

Kullerød K.*, Kotková J. & Škoda R.: ELEMENT MOBILITY DURING FORMATION OF THE KONGSBERG SILVER DEPOSIT

S7. From deep magmatic processes to volcanic eruption

Conveners: Caroline Martel, Riccardo Avanzinelli, Maxim Portnyagin and Roman Botcharnikov

(14.00-15.15) Room - Parco

7-1 14.00 – 14.30

(KEYNOTE) Pichavant M.*: EXPERIMENTAL MODELLING OF THE DEEP FEEDING

SYSTEM OF BASALTIC VOLCANOES

7-2 14.30 – 14.45

Gubbay-Nemes L.J.*, Graham I.T., de Ronde C.E.J. & Timm C.: BROTHERS SUBMARINE CALDERA VOLCANO, KERMADEC ARC, NEW ZEALAND: A GEOCHEMICAL AND PETROLOGICAL EVOLUTION

7-3 14.45 – 15.00

Botcharnikov R.*, Holtz F., Stechern A., Almeev R.R. & Sato H.: EXPERIMENTAL CONSTRAINTS ON THE ORIGIN OF DACITIC VOLCANISM IN ARC SETTINGS

7-4 15.00 – 15.15

Cigala V.*, Kueppers U., Pena Fernandez J.J., Sesterhenn J. & Dingwell D.B.: THE INFLUENCE OF EXPERIMENTAL CONDITIONS ON THE DYNAMICS OF STARTING GAS-PARTICLE JETS

(15.45-17.00) Room - Parco

7-5 15.45 – 16.00

Oeser M.*, Ruprecht P. & Weyer S.: MAGMA ASCENT BENEATH CONTINENTAL ARC VOLCANOES – INSIGHTS FROM CHEMICALLY AND ISOTOPICALLY ZONED OLIVINES FROM IRAZÚ VOLCANO (COSTA RICA)

7-6 16.00 – 16.15

González-García D.*, Behrens H., Petrelli M., Vetere F.P., Zezza A., Morgavi D. & Perugini D.: WATER-ENHANCED DIFFUSION OF MAJOR ELEMENTS IN NATURAL MELTS: INSIGHTS FROM DIFFUSION COUPLE EXPERIMENTS

7-7 16.15 – 16.30

Assbichler D.*, Asadpour M., Heuss-Assbichler S. & Kunzmann T.: SEQUENCE OF REPETITIVE EXPLOSIVE AND EFFUSIVE ERUPTION PHASES RECORDED IN LAVAS AND EJECTED BOMBS OF SARAY VOLCANO, NW IRAN

7-8 16.30 – 16.45

Ridolfi F.*, Renzulli A. & Perugini D.: REFINEMENT AND APPLICATION OF CALCIC AMPHIBOLE THERMOBAROMETRY FOR IGNEOUS ROCKS: AMP-TBX.XLSX

7-9 16.45 – 17.00

Stuff M.*, Schuessler J.A., Rocholl A. & Wilke M.: HOW IRON ISOTOPES RECORD INTERACTIONS OF CARBONATITE AND SILICATE MAGMAS

S12. Clays, zeolites and nanostructured minerals: from mineralogy to applications in industry and environment

Conveners: Emilia García Romero, Annalisa Martucci and Mercedes Suarez

(14.00-15.15) Room - Arengo

12-10 14.00 – 14.30

(KEYNOTE) Farina M., Cerri G.*, Brundu A., Juliano C., Giunchedi P., Rassu G., Bonferoni M.C. & Gavini E.: EXPLOITING CLINOPTILOLITE AGAINST *HELICOBACTER PYLORI*: POSSIBILITY OR UTOPIA?

12-11 14.30 – 14.45

Rodeghero E.*, Guzzinati R., Martucci A. & Pasti L.: STRUCTURAL CHARACTERIZATION OF HIGH-SILICA ZEOLITES EXCHANGED WITH REE ELEMENTS

12-12 14.45 – 15.00

Quartieri S.*, Arletti R., Gigli L. & Di Renzo F.: STABLE CO₂ HYDRATES IN ZEOLITE Na-Y: STRUCTURAL CHARACTERIZATION BY SYNCHROTRON X-RAY POWDER DIF-

FRACTION

12-13 15.00 – 15.15

Berton D., Cruciani G.*, Rodeghero E. & Martucci A.: NEW INSIGHTS ON THE RESPONSE TO HEATING OF METAVARISCITE: AN *IN SITU* SYNCHROTRON POWDER DIFFRACTION STUDY

(15.45-17.00) Room - Arengo**12-14 15.45 – 16.00**

Occhipinti R.*, Tarantino S.C., Riccardi M.P. & Zema M.: S-BEARING ZEOLITES IN GEOPOLYMERS FROM VOLCANIC KAOLIN

12-15 16.00 – 16.15

Belviso C.*, Belviso S., Cavalcante C., Lettino A. & Ragone P.: FLY ASH AS RAW MATERIAL FOR THE SYNTHESIS OF ZEOLITE-ENCAPSULATED TETRAPHYRROLES (PORPHYRAZINE AND METALLO PORPHYRAZINE – PORPHYRIN)

12-16 16.15 – 16.30

Comboni D.*, Gatta G.D., Lotti P., Merlini M. & Liermann H.-P.: PHILLIPSITE AT HIGH PRESSURE: A SINGLE-CRYSTAL X-RAY SYNCHROTRON DIFFRACTION STUDY

12-17 16.30 – 16.45

Consani S.*, Giuli G., Balić-Zunić T., Carbone C., Trapananti A., Cardinale A., Salvulo G. & Lucchetti G.: STUDY OF NATURAL AND SYNTHETIC WOODWARDITE AS POTENTIAL REEs RECOVERY

12-18 16.45 – 17.00

Golubev E.A.*: INFLUENCE OF THE IMPURITIES AND STRUCTURE ON ELECTROMAGNETIC PROPERTIES OF NATURAL NANOSTRUCTURED CARBON MATERIALS

S23. The future of critical metals: mineralogy, metallogenesis and geometallurgy

Conveners: John Bowles, Nigel Cook and Hannah Hughes

(14.00-15.15) Room - Borgo**23-10 14.00 – 14.15**

Kontonikas-Charos A.*, Ciobanu C.L., Cook N.J., Ehrig K. & Krneta S.: RARE EARTH ELEMENT REMOBILISATION IN FELDSPARS: EXAMPLES FROM IOCG SYSTEMS IN THE OLYMPIC Cu-Au PROVINCE

23-11 14.15 – 14.30

Goodenough K.*, Deady É., Lacinska A., Shaw R.A. & Roberts N.M.W.: THE ÇANAKLI REE PLACER DEPOSIT, TURKEY: AN ALKALINE VOLCANIC SOURCE?

23-12 14.30 – 14.45

Kinnaird J.A., Yudovskaya M., Chikwiri F. & Hughes H.S.R.*: PGE DEPOSITS: IT'S NOT JUST ABOUT THE GRADE

23-13 14.45 – 15.00

Aiglsperger T.*, Proenza J.A. & Longo F.: Ni LATERITES AS FUTURE UNCONVENTIONAL PGE ORE DEPOSITS

23-14 15.00 – 15.15

Al Ali S.*, Wall F., Pascoe R., Rollinson G. & Dawes W.: ROLE OF AUTOMATED MINERALOGY IN OPTIMISING MINERAL PROCESSING OF CARBONATITE HOSTED REE AT SONGWE HILL, MALAWI

S28. Museums and teaching mineral sciences to new generations

Conveners: Lutz Hecht, Cristiano Ferraris and Eleonora Paris

(14.00-15.15) Room - Marina

28-1 14.00 – 14.15

Signori G. & Chiesa S.*: PIETRE-PIETANZE / ROCKING RECIPES

28-2 14.15 – 14.30

Hecht L.*, Banaszak M., Schmid-Beurmann P., Schmidt B.C. & Stalder R.: THE DEVELOPMENT OF MINERALOGICAL TOOL BOXES: AN EXAMPLE HOW TO STOP THE DISAPPEARANCE OF BASIC GEOSCIENCES IN GERMAN SCHOOL EDUCATION

28-3 14.30 – 14.45

Schumann D.*, Unrau D., Laquerre A., Collins R. & Phaneuf M.W.: LARGE AREA SEM IMAGING IN GEOSCIENCES: BRINGING THE WORLD OF NANOSCALE MICROSCOPY TO THE CLASSROOMS AND MUSEUMS AS A TOOL FOR TEACHING AND LEARNING

28-4 14.45 – 15.00

Simon G.* & Gille P.: SINGLE CRYSTAL GROWTH EXPERIMENT FOR AN EXHIBITION

28-5 15.00 – 15.15

Kreher-Hartmann B.*: WORKING WITH MINERALS FROM PRE-SCHOOL AGE TO THE ELDERLY

(15.45-17.00) Room - Marina

28-6 15.45 – 16.00

Walcott R.*: FROM NATURAL HISTORY SPECIMENS TO RECORDS OF EARTH SYSTEM PROCESSES

28-7 16.00 – 16.15

Kaliwoda M.* & Hochleitner R.: MINERALOGICAL EDUCATION FOR CHILDREN AND GROWNUPS IN THE MINERALOGICAL STATE COLLECTION MUNICH (MUSEUM REICH DER KRISTALLE): A SCIENTIFIC PROGRAM TO UNDERSTAND THE GEOLOGICAL WORK OF SCIENTIST

28-8 16.15 – 16.30

Maraffi S.*, Paris E., Sacerdoti F.M. & Scamardella A.: GEOQUEST - A COMPUTER CLASS ROLE PLAYING GAME

28-9 16.30 – 16.45

Boniello A. & Paris E.*: THE USE OF VIRTUAL WORLDS IN GEOSCIENCE TEACHING/LEARNING

28-10 16.45 – 17.00

Milke R.*: WHAT BLIND PEOPLE CAN SEE IN A MINERAL COLLECTION (AND WHAT THEY CAN SHOW US THERE)

TUESDAY 13/09/16

Tuesday, September 13th

POSTER SESSIONS

Poster Area

S2. Evolution of the Earth's mantle and melt generation through time

2-10 Panel number 1

Pelorosso B.*, Bonadiman C., Coltorti M. & Gentili S.: PETROLOGICAL EVOLUTION OF NORTHERN VICTORIA LAND LITHOSPHERE: NEW INSIGHTS FROM HARROW PEAKS MANTLE XENOLITH

2-13 Panel number 2

Godard M.*, Alard O. & Gréau Y.: REDISTRIBUTION OF TRACE ELEMENTS IN RE-ACTIVE ABYSSAL MANTLE: A LA-ICPMS STUDY OF ODP SITE 1274 PERIDOTITES (15°20' FZ, MID-ATLANTIC RIDGE)

2-23 Panel number 3

Berno D.*, Tribuzio R. & Zanetti A.: EARLY EVOLUTION OF MANTLE MELTS INTRUDING THE LOWERMOST CONTINENTAL CRUST OF THE IVREA-VERBANO ZONE: INSIGHTS FROM THE M. CAPIO PERIDOTITE-PYROXENITE LENS

2-24 Panel number 4

Bianchini G.*, Natali C., Shibata T. & Yoshikawa M.: BASIC DYKES CROSSCUTTING THE CRYSTALLINE BASEMENT OF VALSUGANA (ITALY): FURTHER EVIDENCE OF EARLY TRIASSIC VOLCANISM IN THE SOUTHERN ALPS

2-25 Panel number 5

Borghini G. & Fumagalli P.*: SUBSOLIDUS PHASE RELATIONS IN A SECOND-ARY-TYPE PYROXENITE: AN EXPERIMENTAL STUDY UP TO 1.5 GPa

2-26 Panel number 6

Cwiek M.*: DUNIT CHANNELS IN PERIDOTITES OF LITHOSPHERIC MANTLE BENEATH LOWER SILESIA (SW POLAND)

2-27 Panel number 7

Francomme J.E.*, Fumagalli P. & Borghini G.: OLIVINE-RICH TROCTOLITE ORIGIN THROUGH MELT-ROCK REACTION EXPERIMENTS

2-28 Panel number 8

Harak M.*, Hezel D.C. & Münker C.: FRACTIONAL CRYSTALLISATION AND FE-ISOTOPY VARIATION OF BONINITES FROM PAPUA NEW GUINEA

2-29 Panel number 9

Heckel C.R.*, Brey G.P., Hofer H.E. & Linckens J.: EXSOLUTION OF GARNET AND KYANITE FROM AN ESKOLAITE-BEARING, Al-RICH CLINOPYROXENE IN A RUBY ECLOGITE DURING COOLING IN THE SUBCRATONIC MANTLE (KAAPVAAL-CRATON)

2-30 Panel number 10

Hofer H.E.*, Brey G.P. & Linckens J.: THE DETERMINATION OF THE OXIDATION STATE OF Fe IN CLINOPYROXENE MEGACRYSTS WITH THE "FLANK METHOD" BY EPMA: IS THE CRYSTALLOGRAPHIC ORIENTATION IMPORTANT?

2-31 Panel number 11

Kukuła A.*, Puziewicz J., Matusiak-Matek M., Ntafos T. & Milke R.: EVIDENCE OF CARBONATITE METASOMATISM IN LITHOSPHERIC MANTLE BENEATH THE HELDBURG DIKE SWARM (HELDBURGER GANGSCHAR, CENTRAL GERMANY) SUBSET OF CENTRAL EUROPEAN VOLCANIC PROVINCE

2-32 Panel number 12

Renna M.R.*, Tribuzio R. & Ottolini L.: NEW PERSPECTIVES ON THE ORIGIN OF OLIVINE-RICH TROCTOLITES AND ASSOCIATED HARRISITES FROM THE LIGURIAN OPHIOLITES (ITALY)

2-33 Panel number 13

Giovanardi T., Zanetti A.*, Mazzucchelli M., Langone A. & Morishita T.: MELT-PER-

IDOTITE MULTISTAGE INTERACTION AT MANTLE CONDITIONS: PETROLOGICAL AND GEOCHEMICAL EVIDENCES FROM SAPPHIRINE-APATITE-CALCITE-BEARING GABBROIC DYKES FROM THE FINERO PHLOGOPITE PERIDOTITE (IVREA-VERBANO ZONE)

S4. Fluids in the crust

4-19 Panel number 20

Remigi S., Ferrando S.* & Frezzotti M.L.: FLUID-ASSISTED COESITE-QUARTZ TRANSITION IN THE DORA-MAIRA WHITESCHISTS, WESTERN ALPS: PETROGRAPHIC AND RAMAN STUDIES

4-20 Panel number 21

Pollok K.*, Uhlmann L., Pleuger J. & Langenhorst F.: REDISTRIBUTION OF MAIN ELEMENTS DURING ECLOGITE TO AMPHIBOLITE RETROGRADE MINERAL REACTIONS

4-21 Panel number 22

Berryman E.*, Kutzschbach M., Trumbull R.B., Meixner A. & Franz G.: TOURMALINE'S RECORD OF FLUID HISTORY IN THE W TAUERN WINDOW

4-22 Panel number 23

Ganzhorn A.C.*, Verlaquet A. & Austrheim H.: CHARACTERIZATION OF FLUIDS AND ELEMENT TRANSFERS ASSOCIATED TO GARNET VEIN AND CORONA DEVELOPMENT DURING GRANULITIZATION

4-23 Panel number 24

Paoli G.*, Rocchi S. & Dini A.: ELEMENT MOBILITY BETWEEN GRANITE, FLUIDS AND SKARN (CAMPIGLIA MARITTIMA, TUSCANY)

4-24 Panel number 25

Kiss G.B.*, Zagyva T., Pásztor D. & Zaccarini F.: SUBMARINE HYDROTHERMAL PROCESSES, MIRRORING THE GEOTECTONIC EVOLUTION OF THE NE HUNGARIAN JURASSIC SZARVASKŐ UNIT

4-25 Panel number 26

Bergemann C.*, Gnos E., Berger A. & Whitehouse M.: ION PROBE DATING OF HYDROTHERMAL CLEFT MONAZITE TRACKING EXHUMATION AND BRITTLE TECTONIC EVOLUTION IN THE CENTRAL ALPS

4-26 Panel number 27

Kuesters T.*, Mueller T. & Renner J.: IMPLEMENTING METAMORPHIC CONCEPTS IN REACTIVE TRANSPORT MODELLING OF GEOTHERMAL SYSTEMS: CRYSTAL SIZE DISTRIBUTIONS: IDEAL SOLID-SOLUTIONS AND MINERAL ZONING

4-27 Panel number 28

Mueller T.*, Kuesters T., van Zuilen K. & Dietzel M.: MIDAS: MODELLING KINETICALLY CONTROLLED ISOTOPE FRACTIONATION BY MASS-DEPENDENT DIFFUSION, ADVECTION AND SORPTION PROCESS

4-28 Panel number 29

Halder S.*, Lehmann B., Cabral A.R., Horn I. & Weyer S.: *IN-SITU* IRON ISOTOPE STUDY OF IRON ORE AND BANDED IRON FORMATION FROM THE CARAJÁS MINERAL PROVINCE, BRAZIL

4-29 Panel number 30

Huertas F.J.*, Gervilla F. & Delgado-Huertas A.: ISOTOPIC COMPOSITION (δD , $\delta^{34}S$, $\delta^{13}C$) OF THE ORDOVICIAN BLACK SLATES HOSTING THE RETORTILLO-SANTIDAD URANIUM DEPOSIT (SALAMANCA, SPAIN)

4-30 Panel number 31

Jessop K.*, Daczko N. & Piazzolo S.: HOT AQUEOUS FLUIDS: ARE THEY THE KEY TO HTLP REGIONAL AUREOLES?

4-31 Panel number 32

Vezzoni S.*, Dini A. & Rocchi S.: MAGMA CHASING HYDROTHERMAL FLUIDS IN A DISTAL SKARN SYSTEM AT CAMPIGLIA MARITTIMA (TUSCANY)

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4-32 Panel number 33

Schmidt C.*: RAMAN SPECTROSCOPIC STUDY OF TIN SPECIATION IN HYDROTHERMAL FLUIDS TO 600°C

4-33 Panel number 34

Bakker R.J.*: CENTRE POSITION OF RAMAN SPECTROGRAPHIC BANDS OF GASES IN FLUID INCLUSIONS

S7. From deep magmatic processes to volcanic eruption

7-10 Panel number 14

Just T.*, Parat F., Botcharnikov R., Stechern A., Holtz F. & Alard O.: INFLUENCE OF OXYGEN FUGACITY ON THE BEHAVIOUR OF SELENIUM AND TELLURIUM IN A BASALTIC MAGMA

7-11 Panel number 15

Mandolini T.*, Ridolfi F., Mollo S., Renzulli A. & Perugini D.: EARLY EXPERIMENTAL RESULTS ON THE MAGMATIC ASSIMILATION OF ANHYDRITIC ROCKS

7-12 Panel number 16

Rossi S.*, Morgavi D., Petrelli M., Vetere F.P. & Perugini D.: CHAOTIC MIXING EXPERIMENTS BETWEEN RHYOLITIC AND SHOSHONITIC MAGMAS FROM AEOLIAN ISLANDS (ITALY)

7-13 Panel number 17

Salem L., Edmonds M.*, MacLennan J. & Corsaro R.: CARBON DIOXIDE SOLUBILITY MODIFIED BY CUMULATE ASSIMILATION AT MOUNT ETNA, ITALY

7-14 Panel number 18

Stabile P.*, Behrens H., Cestelli M., Radica F., Bello M., Carroll M.R., Paris E. & Gigli G.: EFFECT OF TEMPERATURE AND COMPOSITION ON WATER SOLUBILITY IN PANTELLERITES TO 250 MPa

7-15 Panel number 19

Tchaptchet Tchato D.*, Simeni Wambo N.A., Keutchafo Kouamo N.A. & Tchouankoue J.P.: GEOLOGY OF THE KEKEM DYKE SWARMS (CAMEROON CENTRAL SHEAR ZONE): AN INSIGHT INTO PALEZOIC AND MESOZOIC MAGMATISMS AND GEODYNAMIC IMPLICATION FOR THE WEST GONDWANA IN CAMEROON

S8. Diffusion, mineral reaction and deformation mechanisms from low to high temperatures: flow and brittle processes of the Earth's interior

8-11 Panel number 47

Abad I.*, Sanchez C., Jiménez-Millán J., Faulkner D.R., Nieto F. & Velilla N.: DOLOMITE AND MICA MINERAL REACTIONS AND MICROSTRUCTURES FORMED DURING THE SEISMIC CYCLE OF THE ALHAMA DE MURCIA FAULT

8-12 Panel number 48

Abd Elmola A., Charpentier D., Lanari P., Trincal V. & Buatier M.*: FLUID-ROCK INTERACTIONS AND DEFORMATION CONDITIONS REGISTERED BY PHYLLOSILICATES IN A MAJOR THRUST (GAVARNIE THRUST AT "PIC DE PORT VIEUX", PYRENEES)

8-13 Panel number 49

Bollinger C.*, Farla R. & Marquardt K.: GRAIN BOUNDARIES IN FORSTERITE: HOW DO THEY MOVE TO PRODUCE SHEAR?

8-14 Panel number 50

García-Tortosa F.J., Jiménez-Millán J.*, Abad I., Faulkner D.R., Martin-Rojas I. & Alfaro P.: FLOW PROCESSES IN DEFORMATION BANDS DEVELOPED ON PLIO-PLEISTOCENE SOFT-ROCKS IN THE BAZA FAULT ZONE (S SPAIN)

8-15 Panel number 51

Hashim L.*, Gardés E., Sifré D., Morales L.F.G., Précigout J. & Gaillard F.: ASSESS-

ING THE MACROSCOPIC OLIVINE GRAIN GROWTH THROUGH THE MICROSCOPIC PHYSICAL PROPERTIES OF THE INTERGRANULAR MEDIUM

8-16 Panel number 52

Idrissi H., Bollinger C., Cordier P.* & Boioli F.: *IN SITU* DEFORMATION OF OLIVINE IN THE TRANSMISSION ELECTRON MICROSCOPE: FROM DISLOCATION VELOCITY MEASUREMENTS TO STRESS-STRAIN CURVES

8-17 Panel number 53

Jollands M.C.*, O'Neill H.S.C., Van Orman J., Berry A.J., Hermann J., Newville M. & Lanzirotti A.: XANES DETERMINATION OF EQUILIBRIUM AND DIFFUSIVE BEHAVIOUR OF Cr²⁺ AND Cr³⁺ IN SYNTHETIC FORSTERITE AND NATURAL OLIVINE AT 1400°C

8-18 Panel number 54

Mussi A.*, Cordier P., Nzogang B.C. & Demouchy S.: ELECTRON TOMOGRAPHY STUDY OF DISLOCATIONS IN OLIVINE SINGLE CRYSTALS

8-19 Panel number 55

Sánchez-Roa C.*, Vidal O., Jiménez-Millán J., Nieto F. & Faulkner D.R.: THERMODYNAMIC MODELLING OF SEPIOLITE: IMPLICATIONS FOR MECHANICAL BEHAVIOUR OF CRUSTAL FAULTS

8-20 Panel number 56

Thieme M.*, Demouchy S., Mainprice D. & Barou F.: EXPERIMENTAL DUCTILE DEFORMATION OF POLYCRYSTALLINE OLIVINE AT 1000°C

S12. Clays, zeolites and nanostructured minerals: from mineralogy to applications in industry and environment

12-19 Panel number 35

Ahmed Z.T., Abbas A.S., Albayati T.M. & Doyle A.M.*: BIODIESEL PRODUCTION USING ZEOLITE CATALYSTS PREPARED FROM SHALE ROCK

12-20 Panel number 36

Arletti R., Fois E., Tabacchi G., Vezzalini G.* & Quartieri S.: HIGH PRESSURE-INDUCED SUPRAMOLECULAR ORGANIZATION OF WATER AND ETHANOL IN ALL-SILICA FERRIERITE: A POTENTIAL ROUTE FOR A CHALLENGING SEPARATION PROBLEM

12-21 Panel number 37

Beltrami G.*, Rodeghero E., Martucci A., Cruciani G., Sarti E., Pasti L. & Ardit M.: DESORPTION OF CHLOROBENZENE CONFINED IN Y ZEOLITE: A COMBINED *IN SITU* SYNCHROTRON X-RAY POWDER DIFFRACTION AND CHROMATOGRAPHIC STUDY

12-22 Panel number 38

D'Alessio D.*, Tribaudino M., Mezzadri F., Milanese C., Mantovani L., Pontiroli D. & Riccò M.: GUEST GASES AND PHASE TRANSITIONS IN MELANOPHLOGITE (TYPE I CLATHRATE)

12-23 Panel number 39

Digiaco F.*, Braschi I., Rodeghero E., Blasioli S. & Martucci A.: ZEOLITES FOR SUSTAINABLE AGRICULTURE: FURFURAL ENCAPSULATION AND CONTROLLED RELEASE IN ZSM-5

12-24 Panel number 40

Durán E.*, Bueno S., Cornejo J., Gamiz B. & Hermosín M.C.: MODIFIED CLAYS AS ADSORBENT IN FILTER SYSTEM FOR MEDIUM OR SMALL SCALE WATER DEPURATION

12-25 Panel number 41

Ershova V.B.*, Vereshchagin O.S., Prokopiev A.V. & Alexandrova G.N.: CENOZOIC CLIMATE CHANGES IN THE RUSSIAN EASTERN ARCTIC (KOTEL'NY ISLAND, NEW SIBERIAN ISLANDS ARCHIPELAGO): EVIDENCE FROM PALEONTOLOGICAL AND CLAY

ASSEMBLAGE DATA

12-26 Panel number 42

Fernandez-Barranco C., Koziol A.E., Drewniak M. & Yebra-Rodriguez A.*: STRUCTURAL CHARACTERIZATION OF INJECTION MOLDED SEPIOLITE/POLYAMIDE6,6 NANOCOMPOSITES BY MEANS OF STATIC AND DYNAMIC THERMAL METHODS

12-27 Panel number 43

Ferretti G.*, Natali C., Faccini B., Di Giuseppe D., Bianchini G. & Coltorti M.: NEW INSIGHTS ON THE EFFECTS OF DIFFERENT ZEOLITE AMENDMENTS ON PLANTS C-N ISOTOPIC COMPOSITION

12-28 Panel number 44

Khatem R., Bakthi A., Celis R. & Hermosín M.C.*: ANIONIC CLAY AND CATIONIC ORGANOCCLAY AS NANOCARRIERS IN SMART DELIVERY SYSTEMS OF THE HERBICIDE IMAZAMOX

12-29 Panel number 45

Mesto E.*, Lacalamita M., Scordari F., Moro D., Valdrè G., Della Ventura G., Bel-latreccia F., Scirè S. & Schingaro E.: HYDROCARBONS IN PHLOGOPITES FROM KASENYI KAMAFUGITIC ROCKS (SW UGANDA): CROSS-CORRELATED AFM, CONFOCAL MICROSCOPY AND RAMAN IMAGING

12-30 Panel number 46

Schmidmair D.*, Kahlenberg V. & Praxmarer A.: $K_2Ca_2Si_8O_{19}$ - A NEW POTASSIUM CALCIUM DOUBLE-LAYER SILICATE

S15. Structural behavior and energetic properties of minerals

15-15 Panel number 57

Chanmuang C.*, Habler G., Lenz C., Nasdala L. & Váczi T.: QUANTIFICATION OF RADIATION EFFECTS IN ZIRCON: FOCUSED-ION BEAM PREPARATION OF THIN LAMELLAE FOR ION-IRRADIATION EXPERIMENTS

15-16 Panel number 58

Váczi T.*: ARE THERE POINT DEFECTS IN THE CRYSTALLINE PORTION OF SELF-IRRADIATED MINERALS?

15-17 Panel number 59

Zietlow P., Beirau T., Mihailova B., Paulmann C., Malcherek T., Groat L.A. & Bismayer U.*: ANNEALING OF RADIATION DAMAGED TITANITE

15-18 Panel number 60

Nowak W.*, Majzlan J., Dachs E. & Benisek A.: THERMODYNAMIC DATA OF MAGNESIO- AND ALUMINOCOPIAPITE

15-19 Panel number 61

Niksch A.* & Pöllmann H.: SYNTHESIS AND CHARACTERIZATION OF A $[Li_{0+x}Mg_{2-2x}Al_{1+x}(OH)_6][Cl \cdot mH_2O]$ ($x = 0-1$) SOLID SOLUTION

15-20 Panel number 62

Confalonieri G.*, Capitani G., Buscaglia V., Rotiroti N. & Dapiaggi M.: STRUCTURAL LOCAL DEFECTS AND MODIFICATION OF THE POLAR BEHAVIOUR IN A SYNTHETIC PEROVSKITE

15-21 Panel number 63

Mirwald P.W.*, Stalder R., Paulini P. & Tappert R.: IRREGULAR PVT BEHAVIOUR OF APATITE – A RAMAN AND ULTRA-SONIC STUDY BETWEEN -200 AND 300°C

15-22 Panel number 64

Nakatsuka A.*, Sugiyama K., Ohkawa M., Ohtaka O., Fujiwara K. & Yoshiasa A.: SINGLE-CRYSTAL X-RAY DIFFRACTION STUDY OF $SrGe_2O_5$: A NEW HIGH-PRESSURE STRONTIUM GERMANATE

15-23 Panel number 65

Bolanz R.M.*, Wierzbicka-Wieczorek M., Giester G., Göttlicher J. & Steininger R.: As^{5+} STRUCTURALLY INCORPORATED INTO PHOSPHOSIDERITE ($FePO_4 \cdot 2H_2O$) – AN

EXAFS STUDY

S17. Mineral diversity, complexity and evolution**17-16 Panel number 66**

Anikina E.*, Vikent'eva O., Bortnikov N.S. & Gamyranin G.N.: GEOCHEMICAL CHARACTERISTICS OF CARBONATES FROM (Sn)-Ag-Pb-Zn DEPOSITS OF THE VERKHOYANSK FOLD-TRUST BELT (RUSSIA, SAKHA-YAKUTIA)

17-17 Panel number 67

Avgustinchik I.*: EVOLUTION OF ORE MINERAL ASSOCIATIONS IN SOME ORE-FORMING SYSTEMS: LOCAL AND GENERAL REGULARITIES, APPLIED QUESTIONS

17-18 Panel number 68

Bonazzi P.* & Bindi L.: LIGHT-INDUCED ALTERATION OF ALACRANITE, As_8S_9

17-19 Panel number 69

Filina M.* & Kogarko L.: COMPOSITIONAL EVOLUTION IN PYROXENES OF THE PERALKALINE NEPHELINE SYENITE (KOLA PENINSULA, RUSSIA)

17-20 Panel number 70

Galuskina I.O. *, Galuskin E.V. & Vapnik Y.A.: TERRESTRIAL MERRILLITE

17-21 Panel number 71

Hochleitner R.*, Kaliwoda M. & Rewitzer C.: NATURAL MEMBERS OF THE PHOSPHOHEDYPHANE - HEDYPHANE - MIMETITE SERIES

17-22 Panel number 72

Lyalina L.* & Selivanova E.: SAKHARJOK ALKALINE MASSIF: A NEW MINERALOGICAL OBJECT ON THE KOLA PENINSULA

17-23 Panel number 73

Lykova I.S.*, Pekov I.V., Yapaskurt V.O., Zubkova N.V., Zolotarev A.A. Jr & Giester G.: POSTCRYSTALLIZATION EVOLUTION OF EPISTOLITE-GROUP HETEROPHYLLOSILICATES AND ROLE OF NATURAL ION EXCHANGE IN FORMATION OF NEW MINERAL SPECIES IN THIS GROUP

17-24 Panel number 74

Novák M.*, Gadas P., Hreus S., Kocáb J. & Vašinová Galiová M.: OPPOSING CONCENTRATIONS OF Li AND Be IN CORDIERITE/SEKANINAITE FROM GRANITIC PEGMATITES IN THE MOLDAUBICUM; AN INDICATION OF THE DEPTH OF ANATECTIC PROCESSES?

17-25 Panel number 75

Pankova Y.A.*, Krivovichev S.V., Gorelova L.A. & Pekov I.V.: THE CRYSTAL STRUCTURE OF GINORITE, $Ca_2B_{14}O_{20}(OH)_6(H_2O)_5$, AND THE ANALYSIS OF DIMENSIONAL REDUCTION AND STRUCTURAL COMPLEXITY IN THE $CaO-B_2O_3-H_2O$ SYSTEM

17-26 Panel number 76

Tyumentseva O.S.*, Gurzhiy V.V. & Krivovichev S.V.: STRUCTURAL AND TOPOLOGICAL COMPLEXITY OF URANYL SELENATES

S19. Gem materials**19-15 Panel number 77**

Andriamamonjy A.*, Giuliani G., Razafindratsimba S.N., Fallick A.E. & Chatagnier P.-Y.: THE GEM ANDRADITE FROM ANTETEZAMBATO, NORTHERN MADAGASCAR: NEW MINERALOGICAL AND GEOCHEMICAL DATA

19-16 Panel number 78

Aurisicchio C., Conte A.M., De Vito C., Medeghini L.*, Moroz I. & Ottolini L.: THE CONTRIBUTION OF MAJOR AND TRACE ELEMENTS IN THE EMERALD-DEPOSITS CLASSIFICATION SCHEME: STATISTICAL TREATMENT OF EMPA AND SIMS DATA

19-17 Panel number 79

Barone G.*, Bersani D., Lottici P.P., Mazzoleni P. & Raneri S.: COLORED GEMS: A REVIEW ON NON DESTRUCTIVE AND NON INVASIVE APPROACHES IN ART AND

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- GEMMOLOGY
- **19-18 Panel number 80**
- Reid M.G. & Anderson A.J.*: DIRECT OBSERVATION OF MELTING AND CRYSTALLIZATION IN THE SYSTEM $\text{LiAlSi}_4\text{O}_{10}-\text{H}_2\text{O}$: IMPLICATIONS FOR CRYSTAL GROWTH IN
- GEM-BEARING POCKETS IN MIAROLITIC PEGMATITES
- **19-19 Panel number 81**
- Rossi M.*, Rizzi R., Capitelli F., Vergara A. & Ghiara M.R.: MULTI-METHODOLOGICAL CHARACTERIZATION OF TURQUOISE FROM ROYAL MINERALOGICAL MUSEUM
- OF NAPLES
- **19-20 Panel number 82**
- Tempesta G.* & Agrosì G.: EMERALDS AND RED BERYLS INVESTIGATED BY LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS)
- **19-21 Panel number 83**
- Diella V.*, Adamo I., Bocchio R. & Marinoni N.: A NEW INSIGHT ON THE GEM-QUALITY PINK EPIDOTE ("CLINOTHULITE") FROM VAL MALENCO, CENTRAL ALPS, ITALY
- **19-22 Panel number 84**
- Scacchetti M.*, Marinoni L., Caucia F. & Scetti I.: PHYSICAL, CHEMICAL AND GEM-LOGICAL PROPERTIES OF SOME RHODONITES FROM TANATZ ALP (SWITZERLAND)

S23. The future of critical metals: mineralogy, metallogenesis and geometallurgy

- **23-15 Panel number 85**
- Jiménez-Franco A.*, Alfonso P., Canet C., Trujillo E. & Garcia-Valles M.: MINERAL ASSEMBLAGES IN THE TIN (-INDIUM) SANTA FE MINING DISTRICT, BOLIVIA
- **23-16 Panel number 86**
- Martin A.J.*, McDonald I., Prichard H.M. & MacLeod C.J.: PRELIMINARY FINDINGS ON THE DISTRIBUTION AND ENRICHMENT OF TELLURIUM (Te) AND SELENIUM (Se) IN HYDROTHERMAL ORE DEPOSITS OF THE TROODOS OPHIOLITE, CYPRUS
- **23-17 Panel number 87**
- Lefebvre M.*, Romer R.L. & Roscher M.: CHEMICAL AND ISOTOPIC CHARACTERIZATION OF THE HÄMMERLEIN TIN-SKARN DEPOSIT, WESTERN ERZGEBIRGE, GERMANY
- **23-18 Panel number 88**
- Ramos V.*, Guedes A. & Noronha F.: MALAYAITE AND OTHER TIN-BEARING MINERALS IN THE TUNGSTEN SKARN OF TABUAÇO, NORTHERN PORTUGAL
- **23-19 Panel number 89**
- Zaccarini F.* & Garuti G.: OCCURRENCES OF PLATINUM GROUP MINERALS (PGM) AND OTHER RARE ACCESSORY PHASES IN ITALY: WHERE AND WHY
- **23-20 Panel number 90**
- Deady É.*, Knight H., Moore K., Gunn A.G., Naden J. & Boyce A.J.: ANTIMONY MINERALISATION IN SOUTH WEST ENGLAND: NEW INSIGHTS INTO CRITICAL METAL ORE GENESIS
- **23-21 Panel number 91**
- Vikent'eva O.*, Vikentyev I. & Bortnikov N.: CRITICAL METALS IN THE ORES OF THE SVETLINSK Au-Te DEPOSIT, SOUTHERN URALS
- **23-22 Panel number 92**
- Anikina E.*, Vikent'eva O., Bortnikov N.S., Gamyagin G.N. & Prokof'ev V.Y.: A COMPARATIVE STUDY OF Au-Bi-SIDERITE-SULFIDE ARKACHAN AND Ag-Pb-Zn MANGAZEYSKOE DEPOSITS, SAKHA (YAKUTIA), RUSSIA
- **23-23 Panel number 93**
- Cruz C.*, Lima A., Santos P. & Noronha F.: SUPERGENE GOLD ENRICHMENT IN THE CASTROMIL GOLD DEPOSIT

23-24 Panel number 94

Graupner T.*, Henjes-Kunst F., Klemm R., Gerdes A., Dohrmann R. & Kaufhold S.: RARE EARTH POTENTIAL OF APATITE IN THE SCHIEL COMPLEX, SOUTH AFRICA

23-25 Panel number 95

Elizetti de Freitas M., Javier Rios F.*, Andrade S. & de Moraes R.: CHEMISTRY OF Nb-Ta OXIDE MINERALS FROM SANTA MARIA DE ITABIRA PEGMATITE DISTRICT, MINAS GERAIS, BRAZIL

23-26 Panel number 96

Dressler S.*, Kirk C.A., Norman R.L., Herrington R.J. & Schofield P.F.: THE RESIDENCE OF THE CRITICAL METAL COBALT IN OXIDE MINERAL DEPOSITS - A SYNTHETIC STUDY

23-27 Panel number 97

Conte A.M., Cuccuru S., Naitza S.*, Oggiano G., Secchi F. & Tocco S.: INTO THE DEPTH OF THE ARBURESE VEIN SYSTEM (SW SARDINIA, ITALY): ARSENIDE-SULFIDE EVOLUTION IN THE Ni-Co ORES

23-28 Panel number 98

Tuhý M.*, Ettler V. & Mihaljevič M.: MINERALOGY OF SMELTER- AND MINING-DE-RIVED PARTICULATES DEPOSITED IN SEMI-ARID SOILS

23-29 Panel number 99

Bobos I.* & Noronha F.: Fe,Mn- AND Fe,Mg-CHLORITE: A GENETIC LINKAGE TO W- AND Cu,Mo-METALLIZATION IN THE MAGMATIC-HYDROTHERMAL SYSTEM OF BORRALHA, NORTHERN PORTUGAL

23-30 Panel number 100

Molnár Z.*, Kiss G.B., Zaccarini F., Dunkl I. & Dódy I.: FORMATION CON-DITIONS OF TWO PHOSPHORITE OCCURRENCES FROM THE TRANSDANUBIAN MOUNTAIN RANGE (HUNGARY)

S28. Museums and teaching mineral sciences to new generations

28-11 Panel number 101

Biagioni C., Bonaccorsi E., Musetti S.* & Pasero M.: MONTE AMIATA: THE MINER-ALOGICAL COLLECTION OF THE NATURAL HISTORY MUSEUM OF THE PISA UNI-VERSITY

28-12 Panel number 102

del Buey P.* & Sanz-Montero M.E.: LINKING MINERALS AND HEALTH THROUGH THE WIND DUST. AN EDUCATIONAL PROPOSAL

28-13 Panel number 103

Pieraccioni F.*, Bonaccorsi E. & Gioncada A.: MINERALS AT SCHOOL

	Arengo	Tempio1	Tempio2	Marina	Parco	Borgo
08.30 - 09.15						
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20.00 - 22.00						

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

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 WADSLLEYITE 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

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Fe₅O₆ AND ITS COEXISTENCE WITH OTHER Fe-OXIDES

14-5 12.15 – 12.30

Merli M., Bonadiman C., Diella V., Sciascia L. & Pavese A.*: HP-HT (Mg,Fe)O SUB-SOLIDUS REACTION MODELLING: IMPLICATIONS FOR LOWER MANTLE GEO-CHEMICAL HETEROGENEITIES

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

Hazel 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

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 ⁴⁰Ar/³⁹Ar 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 PETRO-CHRONOLOGY

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

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

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 ARCHAEO-METRIC STUDY OF THE NEOLITHIC GREENSTONE INDUSTRY OF BRIGNANO FRASCA (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 14/09/16

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) Plümpner O.*, John T., Podladchikov Y., Vrijmoed J.C. & Scambelluri M.: CHANNELIZING REACTIVE POROSITY CONTROLS 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., Tumietti S., Frezzotti M.L. & Poli S.: THE REDOX BUDGET OF CRUST-DERIVED FLUID PHASES AND IMPLICATIONS FOR THE SLAB-TO-MANTLE ELEMENT TRANSFER

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.: NANOGNANITOID 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 INCLUSIONS 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

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

Realì 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 CaCO₃ 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., Devincere B., Carrez P. & Cordier P.: MODELING THE CREEP PROPERTIES OF OLIVINE IN THE LITHOSPHERIC MANTLE FROM DISLOCATION DYNAMICS MODELS

WEDNESDAY 14/09/16

(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 – 16.30Kowalski 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

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 MICROTERTITE STREWN FIELD IN VICTORIA LAND TRANSANTARCTIC MOUNTAINS: AN UPDATE

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., Fougere D., Snoeyink D.R. & Kylander-Clark A.R.C.: ATOM PROBE ANALYSIS OF DISCORDANT ZIRCON REVEALS PRESERVATION OF ²⁰⁷Pb/²⁰⁶Pb 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

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., Patrick R., Shaw S.,

WEDNESDAY 14/09/16

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

Kuipers 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.*, Patrick 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, $(\text{Cu},\text{Ag})_2(\text{Fe},\text{Zn},\text{Hg})_{10}(\text{Sb},\text{As})_4\text{S}_{13}$

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 MADE 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: MANUFACTURING 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., Kuppenko I., Aprilis G., McCammon C.A. & Dubrovinsky L.: THE BEHAVIOR OF RHODOCHROSITE (MnCO₃) 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. & Ntaflou 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., Kumpen I., Chumakov A., Rüffer R. & Harris J.W.: FIRST *IN-SITU* MEASUREMENTS OF $\text{Fe}^{3+}/\text{Fe}_{\text{tot}}$ FOR OXIDES AND SILICATES INCLUDED IN NATURAL DIAMONDS WITH SYNCHROTRON MOSSBAUER 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 TARCUS, SOUTH-EAST CORSIKA
- **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., Verlaquet 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 PRE-CAMBRIAN 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 40Hernández-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., Kuppenko 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 43Mookherjee 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 PLYGORSKITE 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 46Sun 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

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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 QUATERNARY 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.: MICROFUNGUS-MINERAL INTERACTIONS IN SULPHIDE-RICH HARDPANS

25-18 Panel number 73

Haynes H.*, Pearce C., Morris K., Patrick 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

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25-24 Panel number 79

Pusceddu C.*, Medas D., De Giudici G., Meneghini C. & Giannoncelli A.: BIOGEO-CHEMICAL INTERFACES IN THE HYPORHEIC ZONE OF SAN GIORGIO RIVER (SAR-DINIA 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

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., Györkösi D.*, Mozgai V., Szabó M., Tóth M. & Burnichioiu I.: ARCHAEO-METRIC ANALYSIS OF MOSAIC TESSERAEE 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 ARCHAEO-METRIC 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., Tămaş 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

WEDNESDAY 14/09/16

	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	Ballirano	Cánovas
10.30-10.45	Goncalves	Bryden	Pignatelli	Mahmoud	Belluso	Caraballo
10.45-11.15						
11.15-11.30	George	Cannaò	Marshall	Coffee Break		
11.30-11.45	Spruzeniece	Tumiati	Giuliani	Palke	Rasmeni	Carrero
11.45-12.00	Ortolano		Karampelas	Waterphul	Bursi Gandolfi	Carbone
12.00-12.15	Brown	Dasgupta	Palke	Cametti	Sanchez	Bogush
12.15-12.30	Weller	Sieber	Turner	Gori	Michalik	Crouzet
12.30-14.00						Kasina
14.00-14.15	Lotout	Capizzi	Rondeau	Lunch Break		
14.15-14.30	Möller	Pohlenz	Adamo	Beirau	Mantovani	Kowalski
14.30-14.45	Chopin	Carter	Chauviré	Lenz	Wilczyńska	Elsen
14.45-15.00	Godard	Avanzinelli	Simmons	Mihailova	Giehl	Carroll
15.00-15.15	Massonne	Lustrino	Pizzorusso	Goethals	Vigliaturo	Tyszka
15.15-15.45				Balitsky	D'Orazio	Zanelli
15.45-16.30				Coffee Break		
16.30-17.00				Plenary Scambelluri		
				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.*, Tumati 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 *f*O₂ 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

Tumati 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, $\text{Ca}_3\text{Al}_2(\text{SiO}_4)_{3-x}(\text{H}_4\text{O}_4)_x$: AN *AB INITIO* INVESTIGATION OF ITS STRUCTURAL AND ENERGETIC PROPERTIES

(11.15-12.30) Room - Marina

15-6 11.15 – 11.45

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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

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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

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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

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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 VOLCANICS 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 CRYSTALLINE ALUMINUM HYDROXYSULFATES: ALPINE NATURAL STREAMS VS AMD PASSIVE TREATMENT SYSTEMS

(11.15-12.30) Room - Borgo

21-6 11.15 – 11.30

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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

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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 CROCIDOLITE AND TREMOLITE AMPHIBOLE ASBESTOS: A COMPARATIVE CASE STUDY

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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

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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

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5-14 14.00 – 14.15

Capizzi L.S.*, Fumagalli P., Ildefonse B., Poli S. & Tumati 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

Oalmann 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

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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., Prosperi 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

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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

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26-12 14.30 – 14.45

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

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26-13 14.45 – 15.00

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26-14 15.00 – 15.15

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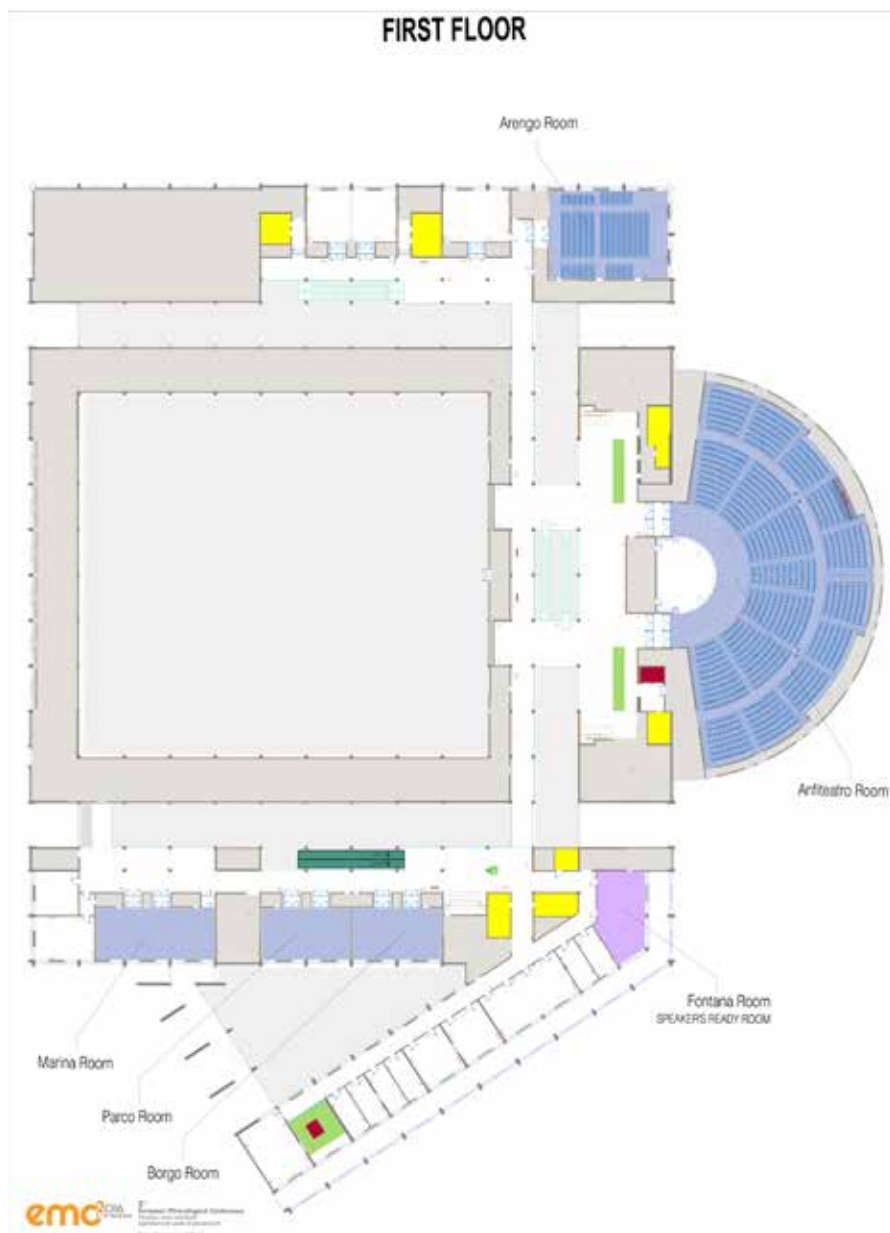
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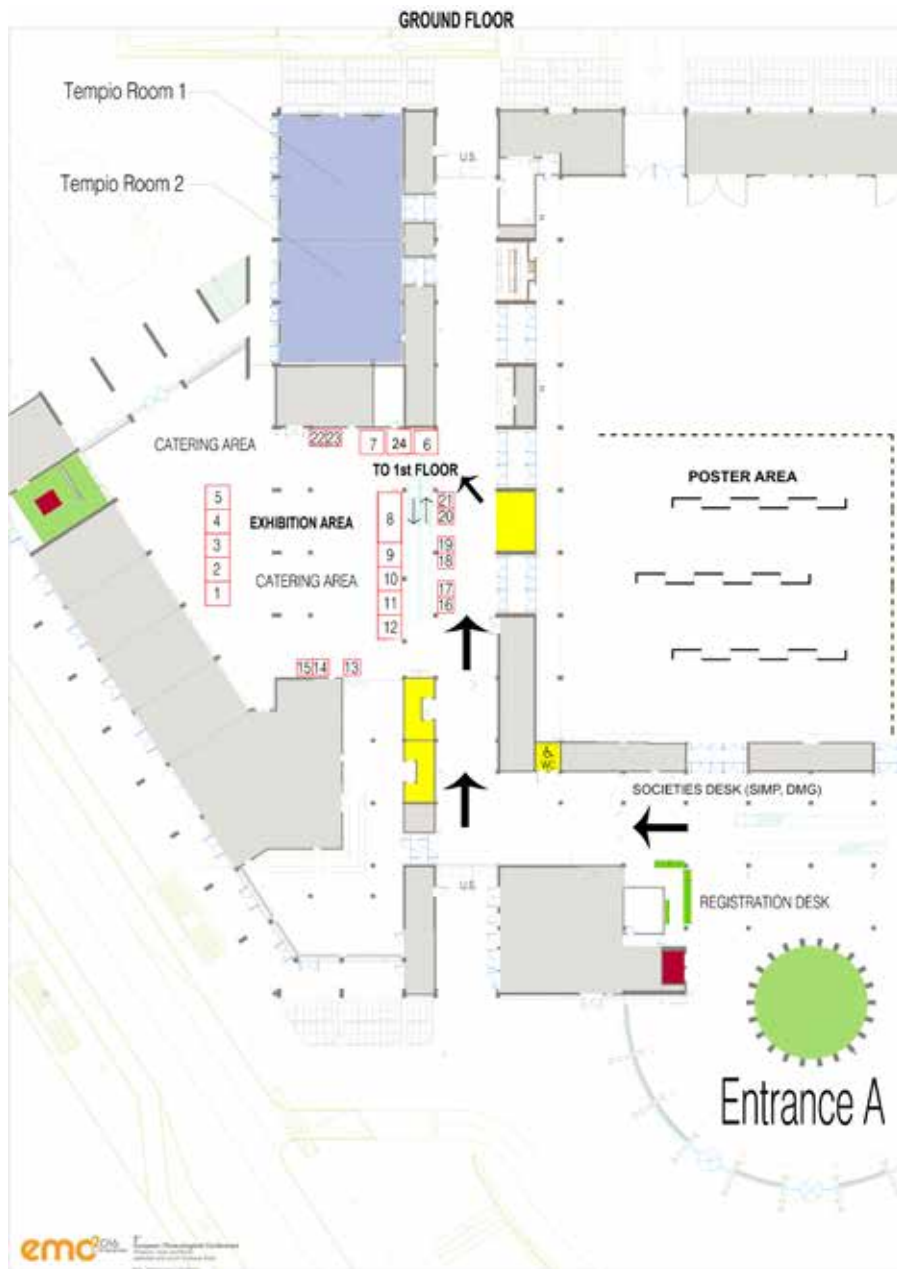
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Map: 1st floor



Map: ground floor



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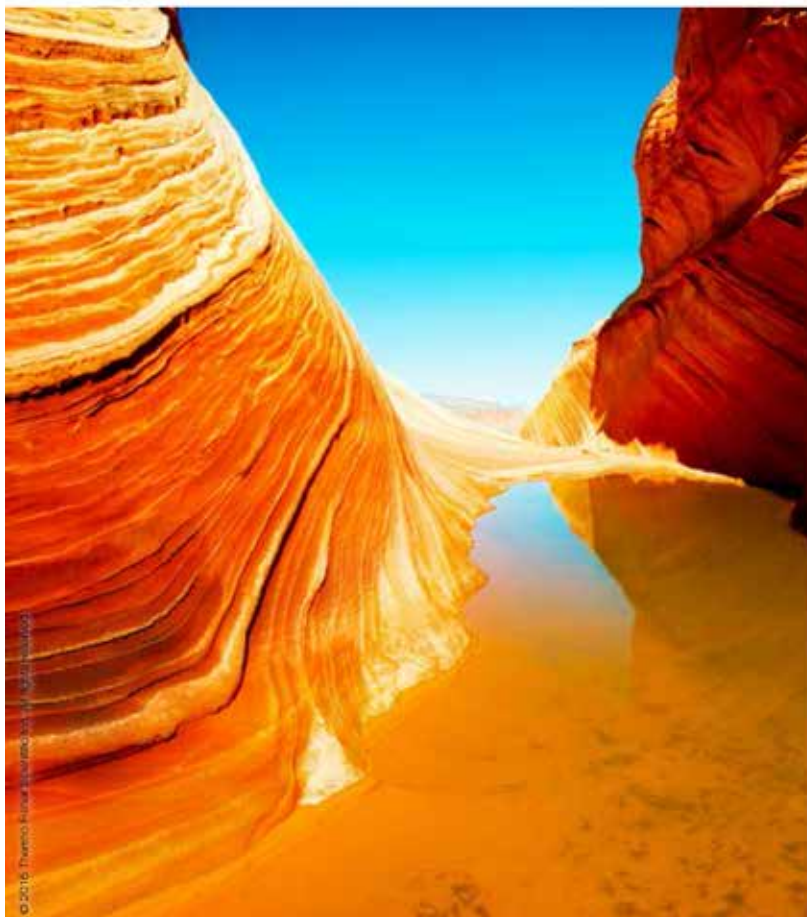
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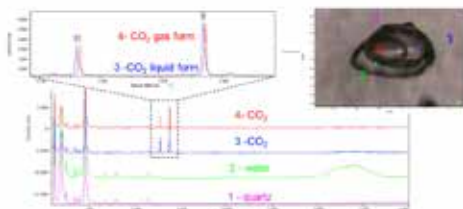
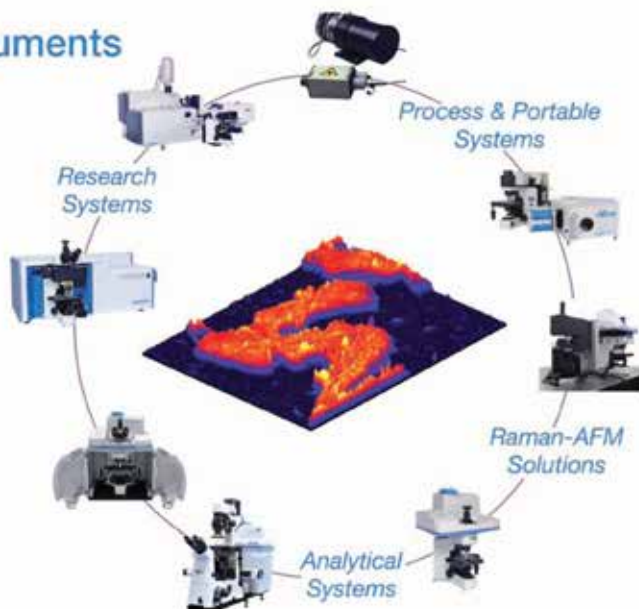
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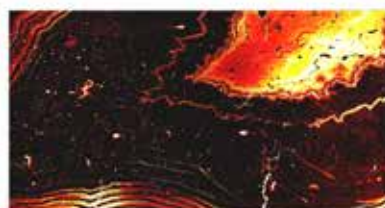


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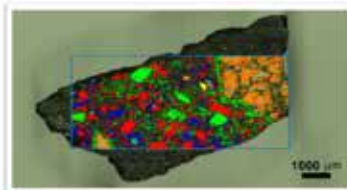


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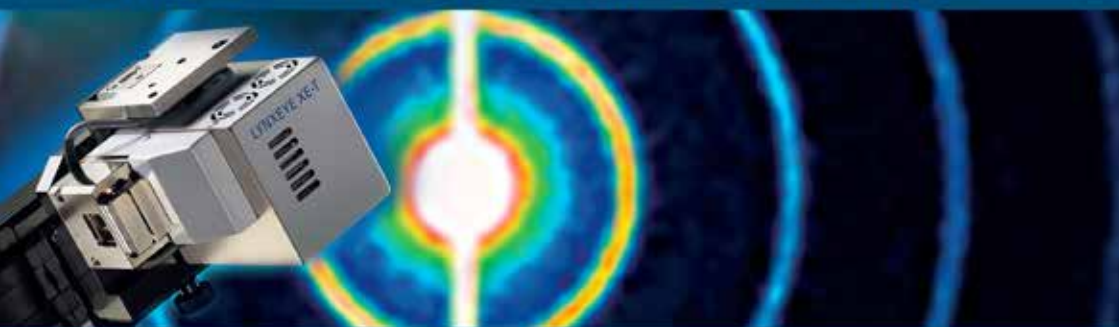
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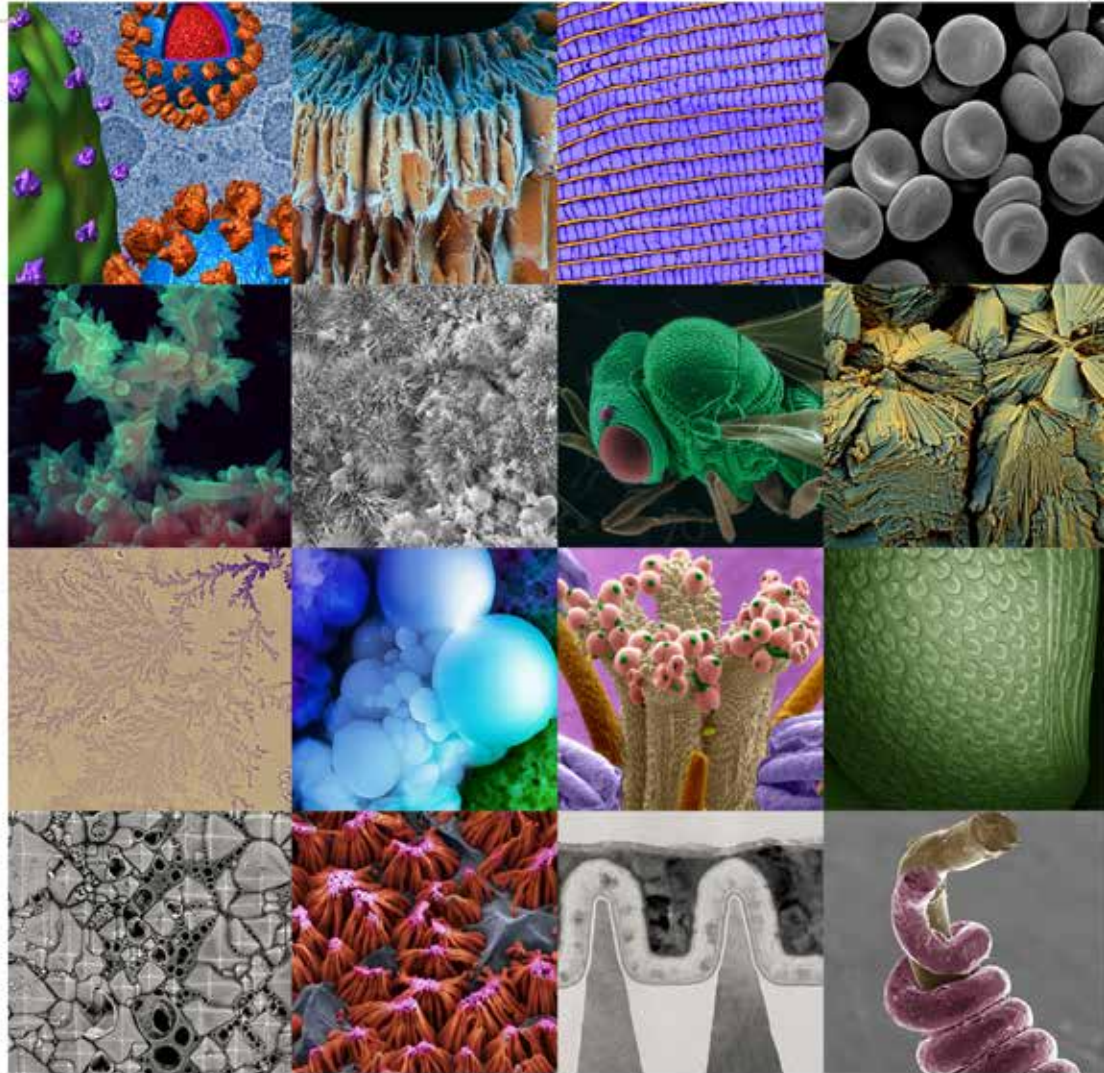
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8.00					
8.30		Opening Ceremony			
9.00		Plenary Benning	Plenary Melcher	Plenary Galàn	Plenary Appel
9.30					
10.00		Oral Sessions	Oral Sessions	Awards Ceremony	Oral Sessions
10.30				Plenary Ewing	
11.00		Coffee Break	Coffee Break	Coffee Break	Coffee Break
11.30		Oral Sessions	Oral Sessions	Oral Sessions	Oral Sessions
12.00					
12.30					
13.00		Lunch Break	Lunch Break	Lunch Break	Lunch Break
13.30					
14.00					
14.30		Oral Sessions	Oral Sessions	Oral Sessions	Oral Sessions
15.00					
15.30		Coffee Break	Coffee Break	Coffee Break	Coffee Break
16.00	Registration	Oral Sessions	Oral Sessions	Oral Sessions	Plenary Scambelluri
16.30					Closing Ceremony
17.00					
17.30		Poster Session	Poster Session	Poster Session	
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18.30					
19.00	Ice Breaker		Annual National Society Meetings		
19.30					
20.00					
20.30					
21.00				Gala Dinner	
21.30					

S1 Diamonds: open windows in the Earth's mantle

12 Sept.
14:00–17:00
Fabrizio Nestola *University of Padua*
Sami Mikhail *University of St Andrews*
Hélène Bureau *Pierre and Marie Curie University*

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

12 Sept.
09:30–12:30
Marc Blanchard *Pierre and Marie Curie University*
Daniel Frost *University of Bayreuth*
István Kovács *Geological and Geophysical Institute of Hungary*

S4 Fluids in the crust

13 Sept.
09:30–17:00
Maria Luce Frezzotti *University of Milano-Bicocca*
Cristoph Heinrich *ETH Zurich*
Thomas Müller *University of Leeds*

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

14 Sept.
15:45–17:00
15 Sept.
09:30–15:15
Oliver Beyssac *Pierre and Marie Curie University*
Marie Edmonds *University of Cambridge*
Jörg Hermann *University of Bern*
Timm John *Free University of Berlin*

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

14 Sept.
11:15–17:00
Azzurra Zucchini *University of Perugia*
Catherine McCammon *University of Bayreuth*
Paola Comodi *University of Perugia*
Mainak Mookherjee *Florida State University*

S17 Mineral diversity, complexity and evolution

12 Sept.
15:45–17:00
13 Sept.
09:30–12:30
Sergey Krivovichev *Saint Petersburg State University*
Edward Grew *University of Maine*

Keynote speaker

Nathalie Bolfan-Casanova
Blaise Pascal University

Keynote speaker

Lukas Baumgartner
University of Lausanne

Keynote speakers

Rajdeep Dasgupta
Rice University
Oliver Plümper
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