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Goldschmidt 2007

**Oral and Poster
Presentations**

Wednesday August 22nd, 2007



Wednesday 22nd AM

Room B4

S03: Microanalytical Techniques for Stable Isotope Analysis

Session chaired by Jan Kosler, Paul Mason
& Michael Wiedenbeck

- 10:15 *KEYNOTE: Delta Zero Reference Materials for Stable Isotope Analysis and Applications to *in situ* Measurements*
A144 *Carignan J, Rollion-Bard C & Champenois M*
-
- 10:45 UV-Femtosecond Laser Ablation MC-ICP-MS for *in situ* Analyses of Si Isotopes
A172 *Chmeleff J, Horn I, Steinhoefel G & von Blanckenburg F*
-
- 11:00 UV Femtosecond Laser Ablation Applied to Stable Fe Isotopes in BIFs
A971 *Steinhoefel G, Horn I & v. Blanckenburg F*
-
- 11:15 *KEYNOTE: Stable Isotope Microanalysis – A SIMS Perspective*
A1107 *Whitehouse M*
-
- 11:45 High-Precision Isotope Acquisition with the NanoSIMS 50L
A12 *Alexander C, Hauri E, Wang J & Hillion F*
-
- 12:00 High Resolution Ion Microprobe Analysis of Sulphur Isotopes in Speleothem Carbonate
A1130 *Wynn P, Fairchild I, Baker A, Frisia S, Borsato A, Miorandi R, Spotl C & Craven J*
-
- 12:15 Sub-Micrometer Size High Precision Analysis of $\delta^{18}\text{O}$ in Zircon by SIMS
A1048 *Ushikubo T, Page FZ, Kita NT, Riciputi LR & Valley JW*
-



Wednesday 22nd AM

Room A5

S14: Chemistry of the Interstellar Medium

Session chaired by Sara Russell & Uli Ott

- 10:15 *INVITED*: A Comparison of the Elemental Composition of Comet Wild 2 Grains with Other Extraterrestrial Materials
A287 Flynn G
-
- 10:30 *INVITED*: The Mineralogy of Comet Wild-2 Nucleus Samples – What We Think We Know And What We Do Not Know
A703 Nakamura-Messenger K & Zolensky M
-
- 10:45 *INVITED*: The H-, C-, N-, and O-Isotopic Compositions of Cometary Matter Returned by STARDUST
A415 Hoppe P
-
- 11:00 ³He/⁴He in Stardust Samples
A776 Pepin R, Palma R & Schlutter D
-
- 11:15 On the Primitivity of the Wild 2 Cometary Dust
A639 Maurette M, Kurat G & Engrand C
-
- 11:30 Identification of Aromatic Organic Matter from Comet 81P/Wild 2
A178 Clemett S, Nakamura-Messenger K, McKay D & Sandford S
-
- 11:45 *KEYNOTE*: The Origin and Evolution of Dust in the Interstellar Medium
A1021 Tielens A
-
- 12:15 *INVITED*: Submicrometer Organic Grains: Widespread Constituents of the Early Solar System
A657 Messenger S, Nakamura-Messenger K, Keller L, Matrajt G & Ito M
-
- 12:30 *INVITED*: New Constraints on the Origin of Short-Lived Radioactive Nuclides in the Early Solar System
A964 Srinivasan G, Chaussidon M & Bischoff A
-



Wednesday 22nd AM

Room A1

S31: Hotspots and LIPs: Plumes or Shallow-Mantle Sources

Session chaired by Cinzia Farnetani

- 10:15 *KEYNOTE:* Ghost Primordial He and Ne
A9 *Albarede F & Kaneoka I*
-
- 10:45 The Origin of High $^3\text{He}/^4\text{He}$ Values in Oceanic Lavas: Arguments Against a Heterogeneous Upper Mantle Source
A150 *Castillo P, Hahn D & Hilton D*
-
- 11:00 Li Isotopic Signature of the Reunion Plume Inferred from Li-Pb Isotope Systematic of Piton de la Fournaise Historic Lavas
A1070 *Vlastelic I, Telouk P & Staudacher T*
-
- 11:15 *INVITED:* Re-establishing Recycled Sediment in Mantle Plumes – Evidence from Gough Island
A177 *Class C, le Roex A, Long D & Goldstein S*
-
- 11:30 A Depleted Lithosphere Component in the Hawaiian Plume: Noble Gas Evidence from Plume-Related Mantle Xenoliths
A846 *Rocholl A, Günther D, Tieloff M & Wirth R*
-
- 11:45 Recycled Oceanic Crust as a Source of Siberian Flood Basalts
A951 *Sobolev A, Krivolutsкая N, Kuzmin D & Hofmann A*
-
- 12:00 Characterizing Fe-Rich Dunite Xenoliths as Cumulates of Phanerozoic and Archaean Flood Basalt Magmatism
A827 *Rehfeldt T, Foley SF, Jacob DE & Carlson RW*
-
- 12:15 Not Much Gabbro in the Icelandic Mantle!
A1017 *Thirlwall M & Gee M*
-
- 12:30 Lower Crustal Material in the Source of the Ontong Java Plateau?
A1011 *Tejada ML, Suzuki K, Hanyu T, Mahoney J, Tatsumi Y & Nakai S*
-
- 12:45 Re-Os Evidence for Ancient Mantle beneath the Ontong Java Plateau
A430 *Ishikawa A, Pearson G & Dale C*
-



Wednesday 22nd AM

Room A2

S38: The Oceanic Crust – Hydrothermal Processes

Session chaired by Colin W. Devey & W. Bach

- 10:15 **KEYNOTE:** Trace Element Sulfide Geochemistry as an Indicator of Vent Fluid pH
A1024 *Tivey M & Craddock P*
-
- 10:45 Anhydrite as a Tracer of Sub-Seafloor Hydrothermal Circulation and Vent Deposit Formation
A193 *Craddock P & Bach W*
-
- 11:00 First Direct Sampling of Superhot Supercritical Vapor Phase Fluids at the Mid-Atlantic Ridge
A896 *Schmidt K, Koschinsky A, Garbe-Schönberg D & Seifert R*
-
- 11:15 Spatio-Temporal Variability in Diffuse Hydrothermal Vent Fluids – Implications on Biogeochemical Processes
A1104 *Wenzhoefer F, Roey H & Felden J*
-
- 11:30 Gas Geochemistry of a Hydrothermal Plume at 8°18'S on the Mid-Atlantic Ridge
A474 *Keir R, Schmale O, Seifert R, Weber S & Sültenfuß J*
-
- 11:45 Quantification of Sulphur Cycling at the Mid-Atlantic Ridge
A780 *Peters M, Ockert C, Farquhar J, Masterson A & Strauss H*
-
- 12:00 Fe-Ni-O-S Phase Relations during Serpentinization (MAR 15°N)
A489 *Klein F, Bach W & Garrido CJ*
-
- 12:15 Evidence for Nitrogen Enrichment during Oceanic Crust Alteration
A137 *Busigny V, Laverne C, Teagle D & Bonifacie M*
-



Wednesday 22nd AM

Room A4

S44: Mantle Heterogeneity Induced via Ancient Subduction

Session chaired by Stephen Foley & Ivan Savov

- 10:15 Geochemical Characteristics of Adakites from Different Greenstone Belts of Eastern Dharwar Craton, India – Implications on Subducted Slab-Mantle Wedge Interaction
A618 *Manikyamba C & Khanna T*
-
- 10:30 Characteristics of Syn-Collision Magmatism, NW Iran
A482 *Kheirkhah M, Allen M & Emami H*
-
- 10:45 Slab-Mantle Interaction and Petrogenesis of Interplate Basalts
A345 *Gorbachev N, Sultanov D & Nekrasov A*
-
- 11:00 Geochemistry of Primary Magmas of St Vincent (Lesser Antilles Arc) Tracked by Melt Inclusions
A115 *Bouvier A-S, Metrich N & Deloule E*
-
- 11:15 **KEYNOTE:** Isotopic Tracers of Lithospheric Recycling
A1108 *Widom E*
-
- 11:45 The Os Isotope Heterogeneities in the Mantle Sequence of the Bangong Lake Ophiolite, Northwestern Tibet
A927 *Shi R, Zhi X, Ding B & Chen L*
-
- 12:00 Fractionation of Fe and O Isotopes in the Mantle: Implications for the Origins of Eclogites and the Source Regions of Mantle Plumes
A1118 *Williams H, Nielsen S, Renac C, McCammon C, Griffin W & O'Reilly S*
-
- 12:15 The Origin of Silica-Rich Kaapvaal Lithospheric Mantle
A205 *Davies G, Wasch L, van der Zwan F, Morel M, Nebel O, van Westrenen W, Pearson G & Hellebrand E*
-
- 12:30 Nature of Metasomatizing Agents in Suprasubduction and Intraplate Settings as Deduced by Glass and Amphibole Geochemistry
A184 *Coltorti M, Arai S, Bonadiman C, Faccini B & Ishimaru S*
-
- 12:45 Peridotite Xenoliths from the Andesitic Avacha Volcano, Kamchatka – any Signatures of Subduction Metasomatism?
A430 *Ionov D, Bruegmann G, Seitz H-M, Lahaye Y & Woodland A*
-



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Wednesday 22nd AM

Room C1

S53: Geochemical Records of Environmental and Biotic Change in the Phanerozoic

Session chaired by Michael Joachimski & Richard Pancost

10:15 **KEYNOTE:** Significance of Biomarkers for P/T and F/F Mass Extinctions

A354 *Grice K, Nabbefeld B, Maslen E, Summons R, Twitchett R, Turgeon S, Algeo T & Böttcher M*

10:45 Sterols in the Red and Green Algae and their Relevance for Interpretation of Paleozoic Steranes

A501 *Kodner R, Knoll A & Summons R*

11:00 Thermally Altered Early Silurian Cyanobacterial Mats: Biomarkers and ¹⁵N Isotopic Signatures

A66 *Bauersachs T, Schouten S, Sinnighe Damste JS & Kremer B*

11:15 **KEYNOTE:** The Effect of Paleozoic Land Plant Evolution on Atmospheric CO₂ and O₂

A85 *Berner R*

11:45 The Effect of Variable Source of Terrestrial Organic Carbon on Geochemical Records of Atmospheric Level of CO₂

A304 *Galy A & Hilton R*

12:00 Massive H₂S Release to Surface Waters at the Precambrian-Cambrian (PC-C) Boundary: Evidence from Mo Isotopes

A1117 *Wille M, Nägler TF, Schröder S, Lehmann B & Kramers JD*

12:15 Oxygen Isotope Record of Devonian and Carboniferous Biogenic Apatite

A446 *Joachimski M, Breisig S, Buggisch W & Alekseev A*

12:30 Surface Water Freshening and High-Latitude River Discharge in the Eocene North Sea

A1072 *Voigt S, Zacke A, Joachimski M & Gale AS*



Wednesday 22nd AM

Room C3

S56: Geochemical Impact of Anthropogenic Activities on the Riverine and Coastal Environment

Session chaired by Mark Fitzsimons & Jan Schwarzbauer

- 10:15 Spatial and Temporal (30 Yr.) Variations of Lead Geochemical Signature in a Macrotidal Highly Polluted Estuary
- A993 *Taillez A, Jacqmot A, Petit J, Maerschalk C, Lemadec D, Fagel N, Verheyden S, Chou L & Mattielli N*
-
- 10:30 Sedimentary Phosphorus Speciation and its Relation to the CNS and Bottom Water in an Estuary Influenced by Anthropogenic Activities
- A81 *Berbel G, Rodrigues M, Michaelovich Mahiques M & Braga E*
-
- 10:45 Natural Estuarine Particles and their Uptake of Nitrogen in Estuaries
- A1005 *Tappin A, Fitzsimons M & Millward G*
-
- 11:00 Identifying Environmental Sources of Mercury using Stable Mercury Isotopes
- A516 *Koster van Groos P, Esser B, Williams R & Hunt J*
-
- 11:15 Zn Isotope Measurements in Freshwater and its Use as a Probe of Anthropogenic Contamination in the Seine River
- A165 *Chen J, Gaillardet J & Louvat P*
-
- 11:30 Molecular Markers and Trace-Metals as Proxies of Biomass Combustion in Central Amazon Sediments
- A738 *Oliveira T, Wagener A & Scofield A*
-
- 11:45 Hydrogeochemistry of Water Resources from Abandoned Freixeda Gold Mine (NE Portugal)
- A778 *Pereira M, Gomes M & Montes R*
-
- 12:00 Advection and Redox Processes as Controls on Minor Elements in Groundwater Influenced by Irrigation and Surface-Water Exchange
- A1114 *Wildman R, Hering J & Domagalski J*
-
- 12:15 Important Roles of Sulfur Cycling in Karstic Catchment Erosion, Southwest China
- A587 *Liu C-Q, Jiang Y-K, Lang Y-C, Li S-L, Peng J-H & Xu Z-F*
-
- 12:30 Biogeochemistry of the Salton Sea, California
- A21 *Amrhein C, Reese B & Anderson M*
-
- 12:45 Geochemical Interactions between Nitroaromatic (TNT) and Nitramine (RDX and HMX) Explosives and Sediments
- A234 *Douglas T, Walsh M, Johnson L, McGrath C, Weiss C & Collins C*



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Wednesday 22nd AM

Room C4

S65: Water and Volatiles in Volcanic Processes

Session chaired by David Pyle

- 10:15 *KEYNOTE*: Volatile Fluxing and Magma Storage at Mount St. Helens Volcano
A101 *Blundy J, Cashman K & Berlo K*
-
- 10:45 A High Resolution Time-Sequential Record of Magmatic Volatiles from Apatite Phenocrysts
A117 *Boyce J & Hervig R*
-
- 11:00 Melt Inclusion Records of Degassing from Persistently Active Volcanoes: Etna, 2006
A182 *Collins S, Pyle D, Maclennan J & Mather T*
-
- 11:15 H₂O Diffusion in Rhyolite at 1-2 GPa
A715 *Ni H & Zhang Y*
-
- 11:30 Pressure Dependence of Viscosity of Hydrous Rhyolitic Melts
A424 *Hui H, Xu Z & Zhang Y*
-
- 11:45 The Speciation of Carbon Dioxide in Silicate Melts from *in situ* Infrared Measurements
A511 *Konschak A & Keppler H*
-
- 12:00 Sulphur Solubility in Andesitic to Basaltic Melts: An Example of Hekla Volcano
A691 *Moune S, Holtz F & Botcharnikov R*
-
- 12:15 The Speciation of Sulfur in Magmatic-Hydrothermal Fluids
A93 *Binder B & Keppler H*
-



Wednesday 22nd AM

Room B6

S70: *In situ* Cosmogenic Nuclides: Advances in Methodology and Applications

Session chaired by Tibor Dunai

10:15 **KEYNOTE:** Cosmogenic Nuclide Calibration – A Progress Report from the CRONUS Project

A976 Stone J

10:45 CRONUS-Earth: Half-Way to the Destination

A787 Phillips FM

11:00 **INVITED:** Can Millennial-Scale Geomagnetic Field Models Improve Time-Integrated Predictions of Cosmogenic Nuclide Production Rate Scaling Models? Preliminary Results using *in situ* Cosmogenic ^{14}C

A580 Lifton N

11:15 Cosmogenic ^3He Production Rate in Pyroxenes and Olivines at Low Latitude

A312 Gayer E, Dunai T & Stuart F

11:30 **INVITED:** Novel Cosmogenic Isotope Tools and Progress Towards Historic Time-Scales

A883 Schaefer JM, Korschinek G, Faestermann T, Knie K, Finckel R, Serifiddin F, Herzog G, Winckler G, Schluechter C & Niedermann S

11:45 Dating Carbonate Rocks with *in situ* Produced Cosmogenic Be-10: Why it Often Fails

A653 Merchel S, Braucher R, Benedetti L, Grauby O & Bourlès D

12:00 *In situ* Cosmogenic Nuclides in River Bedload Clasts. Implications for Catchment-Scale Erosion Rate and Surface Exposure Dating

A147 Carretier S, Regard V & Soual C

12:15 Modeling Cosmogenic Nuclide Accumulation during Sediment Transport in the Upper Amazon Basin

A1122 Wittmann H, von Blanckenburg F, Guyot J-L & Kubik PW



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Wednesday 22nd AM

Room C2

S81: Mechanisms of CO₂ Storage in Deep Onshore and Offshore Geological Formations

Session chaired by Michael Kühn & Gregor Rehder

10:15 **KEYNOTE:** Geological Storage as a Carbon Mitigation Option

A153 Celia M, Nordbotten J, Gasda S, Kavetski D & Bachu S

10:45 Convective Dissolution of CO₂ in Saline Aquifers

A401 Hesse M, Riaz A & Tchelepi H

11:00 Evaluation of the CO₂-Sequestration Capacity of Sandstone Aquifers in the Campine Basin (NE-Belgium) Based on Autoclave Experiments and Numerical Modelling

A87 Bertier P, Swennen R & Laenen B

11:15 The CO₂ Sealing Efficiency of Caprocks

A136 Busch A, Alles S, Krooss BM, Dewhurst DN & Stanjek H

11:30 Experimental CO₂ and Water Interactions with Permian Coals of Queensland, Australia

A338 Golding S, Massarotto P, Iyer R, Baublys K & Rudolph V

11:45 Tracking CO₂ Leakage with Noble Gases

A321 Giannesini S, Prinzhofer A, Moreira M & Magnier C

12:00 Fate of CO₂ Leaked from Seabed

A164 Chen B, Nishio M, Song Y & Akai M

12:15 Experimental Investigation of the Behaviour of CO₂ Droplets Rising in Seawater Under Hydrate Forming Conditions

A91 Bigalke N, Rehder G & Gust G



Wednesday 22nd AM

Room B2

S88: Biogeochemical Processes in Natural Acidic Environments

Session chaired by Leigh Sullivan

- 10:15 *KEYNOTE*: Schwertmannite Reduction and Iron(II)-Monosulfide Formation in Acidified Coastal Lowlands: Iron-Sulfur Geochemistry and Implications for Water Quality
A135 *Burton E, Bush R & Sullivan L*
-
- 10:45 *INVITED*: Catalytic Action of Aqueous Fe(II) and S(II) on the Transformation of Schwertmannite to Goethite
A137 *Bush R, Burton E & Sullivan L*
-
- 11:00 Toxic Metals in Runoff from Acid Sulphate Soils
A42 *Åström M*
-
- 11:15 Schwertmannite Transformation to Hematite by Heating: Implications for Pedogenesis, Water Quality and CO₂/SO₂ Export in Acid Sulfate Soil Landscapes
A394 *Henderson S, Sullivan L, Bush R & Burton E*
-
- 11:30 An Improved Single-Step Distillation of Chromium-Reducible Sulfur
A357 *Gröger J, Hamer K & Schulz HD*
-
- 11:45 Potential Remobilization of Phosphorus from Acid Mining Lake Sediments
A359 *Grüneberg B & Kleeberg A*
-
- 12:00 *INVITED*: Biogeochemistry of the Volcanic Acidic Waters at the Andean Volcan Copahue (Argentina)
A1101 *Wendt-Potthoff K, Baffico G & Koschorreck M*
-
- 12:15 *INVITED*: The Role of Iron Redox Cycling for the Natural Acidification of Ground Water
A771 *Peiffer S, Oldham C, Salmon U & Küsel K*
-



Wednesday 22nd AM

Room B1

S94: Mechanisms of Growth and Dissolution of Carbonates: Applications to the Environment and Industry

Session chaired by Susan Stipp & Eric Oelkers

- 10:15 Interaction of Calcite with Cr(III) and Evidence for Direct Inorganic Formation of Vaterite
A333 *Godelitsas A, Astilleros J-M, Hallam K, Wright K, Tomaschek F & Putnis A*
-
- 10:30 Nickel Immobilization by Coprecipitation with Calcite
A538 *Lakshatanov L & Stipp S*
-
- 10:45 Nucleation and Growth of the (Mn,Ca)CO₃ Solid Solution in Double Diffusion Systems
A469 *Katsikopoulos D, Fernandez-Gonzalez A & Prieto M*
-
- 11:00 Development of a Mosaic-Like Micro-Pattern during Mg-Calcite Crystal Growth
A918 *Sethmann I*
-
- 11:15 Dissolution and Precipitation Kinetics of Magnesite at Conditions Relevant for CO₂ Geologic Sequestration
A868 *Saldi G, Oelkers E, Pokrovsky O & Schott J*
-
- 11:30 Magnesite Dissolution in the Presence of Organic and Inorganic Ligands
A450 *Jordan G, Pokrovsky O, Guichet X & Schmahl W*
-
- 11:45 Microbially Mediated Formation of Gold in Calcrete Anomalies in Australia
A831 *Reith F & Schmidt Mumm A*
-
- 12:00 Controlling and Predicting Subsurface Calcium Carbonate Precipitation for Capture of Inorganic Contaminants
A824 *Redden G, Fujita Y, Fang Y-L, Scheibe T, Tartakovsky A, Beig M & Smith R*
-
- 12:15 Earthworm Calcite Production Rates
A543 *Langworthy G, Hodson ME & Canti M*
-



Wednesday 22nd AM

Room B3

G01: Analytical Geochemistry

- 11:15 Electrodynamic Disaggregation of Geologic Material
A331 *Gnos E, Kurz D, Leya I & Eggenberger U*
-
- 11:30 Major, Minor and Trace Element Analyses with XRF using Synthetic Standards
A1104 *Wess J*
-
- 11:45 Geochemical Analyses using a Benchtop Polarized Beam XRF Spectrometer
A159 *Chappell B & Heckel J*
-
- 12:00 Complementary Methods for Characterization of Stream Sediments as an aid in Assessment of Sediment Quality
A92 *Bilinski H, Franciškovic-Bilinski S, Necemer M, Hanžel D, Szalontai G & Kovacs K*
-
- 12:15 LIBS: A New Paradigm for Real-Time and In-Field Geochemical Analysis
A381 *Harmon R, DeLucia F, McMillan N, Miziolek A & Whitehouse A*
-
- 12:30 Deficient Electron Microprobe Totals: Discussion of Potential Causes
A706 *Nasdala L, Váczi T, Kronz A, Wirth R, Pérez-Soba Aguilar C & Willner A*
-
- 12:45 Cathodoluminescence Behaviour of Mn-Rich Carbonates
A800 *Polgári M, Bajnóczi B, Götze J & Vigh T*
-



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Wednesday 22nd AM

Room B3

G08: Experimental Geochemistry

Session chaired by Monika Koch-Müller

10:15 The Melting Curve of Fe₃C to 73 GPa

A596 Lord O & Walter M

10:30 Breakdown of Hydrous Ringwoodite to Pyroxene and Fe³⁺-
Bearing-Wadsleyite at High P and T and Oxidizing Conditions

A500 Koch-Müller M, Rhede D, Schulz R & Wirth R

10:45 Experimental Kinetic Study of Carbonaceous Material Maturation:
An Appraisal of Pressure and Time Effects on Vitrinite
Reflectance at 400°C

A552 Le Bayon R, Brey GP, Ernst WG & Ferreiro Mühlmann R

11:00 Silica Polymerization. Rate Constants at 23° to 80°C as a Function
of pH

A363 Gunnarsson I & Arnorsson S



Wednesday 22nd AM

Room A3

G13: Isotope Geochemistry

Session chaired by Herbert Palme

- 10:15 Re-evaluation of the Equilibrium Fe Isotope Fractionation between $\text{Fe}^{3+}(\text{H}_2\text{O})_6$ and $\text{Fe}^{2+}(\text{H}_2\text{O})_6$ in Aqueous Solution
A1000 *Tang M & Liu Y*
-
- 10:30 Fe Isotope Fractionation during Fe(III) Hydrolysis in Cl- Medium at Low Temperatures
A572 *Li J, Zhu X, Tang S & Ling H*
-
- 10:45 Phosphoric Acid Fractionation Factors for Aragonite between 25 and 72°C with Implications on Aragonite-Calcite Oxygen Isotope Fractionation
A323 *Gilg A, Taubald H & Struck U*
-
- 11:00 Carbonate Clumped Isotope Thermometry of Mollusks and its Applications to Pleistocene Gastropod Fossils from South Dakota
A319 *Ghosh P, Eiler J & Petersen S*
-
- 11:15 Kinetic Isotope Effects in Snow Crystal Growth: Lattice-Boltzman Approach
A218 *DePaolo D & Lu G*
-
- 11:30 High-Precision Pb Isotope Measurements Discriminate Different Subduction Components along the Solomon Island arc
A909 *Schuth S, Münker C, Scherer EE & König S*
-
- 11:45 Crustal Architecture of the Dabie Orogen: Constraints from U-Pb Age, Hf and O Isotopes in Zircon from UHP Granitic Gneiss
A1165 *Zhao Z-F & Zheng Y-F*
-
- 12:00 Geochemical Segmentation of the Pacific Antarctic Ridge
A233 *Dosso L, Hamelin C, Hanan B, Moreira M & Barrat J-A*
-
- 12:15 Finding of Negative $\delta^{18}\text{O}$ Zircon from Metagranite in Eastern Sulu, China: Implication for Local Paleoclimate
A1000 *Tang J, Zheng Y-F & Wu Y-B*
-
- 12:30 Xingcheng Abiogenic Alkane Gas Field in Songliao Basin, China
A197 *Dai J, Zhang S, Li J & Ni Y*
-
- 12:45 Changling Inorganic Carbon Dioxide Gas Field in Songliao Basin, China
A603 *Luo X, Mi J & Tao S*
-



Wednesday 22nd AM

Room B5

G15: Metamorphic Geochemistry

Session chaired by Péter Horváth & Volker Schenk

- 10:15 Pre-Variscan Barrovian Metamorphism in the Eastern Part of the Slavonian Mountains, Tisia Unit (NE Croatia): Application of Quantitative Phase Diagrams and Monazite Age Dating
A417 Horváth P, Balen D, Finger F, Humer B, Tomljenovic B & Árkai P
-
- 10:30 Cryptic Zoning in Garnets from the Nufenen Pass Area
A311 Gauchat K & Baumgartner L
-
- 10:45 Crystal Size Distribution (CSD) of Periclase in Marbles from the Southern Adamello Massif, Italy
A694 Müller T, Baumgartner L, Foster T & Bowman J
-
- 11:00 An Attempt to Use Mean Crystallite Size of Calcite for Indicating Metamorphic Grade as Exemplified by Metamorphic Carbonate Rocks from NE-Hungary
A53 Bajnóczi B, Mária M & Árkai P
-
- 11:15 Natural and Experimental Multiscale F Diffusion Profiles in Biotites from the Serido Micaschists, Northeastern Brazil
A869 Sallet R, Price J, Moritz R & Wark D
-
- 11:30 Low-Grade Zeolite Facies Metamorphism in Gneisses of the Simano Nappe (Arvigo, Val Calanca, Grisons, Switzerland)
A1100 Weisenberger T & Bucher K
-
- 11:45 The High-PT Stability of Apatite: Constraints on Transport and Storage of Phosphorus and Halogens in the Earth's Upper Mantle
A511 Konzett JM & Frost D
-
- 12:00 Geochemistry of the Neoproterozoic Ikorongo Group of Clastic Sedimentary Rocks, NE Tanzania: Implications for Provenance, Tectonic Setting and Upper Crust Composition
A465 Kasanzu C
-
- 12:15 Polymetamorphism in the Paleoproterozoic Ubendian Belt, Tanzania
A107 Boniface N & Schenk V
-
- 12:30 Metamorphic Evolution and Tectonic Implications of the Qianlishan-Zhuozishan Complex, Westernmost Part of the Paleoproterozoic Khondalite Belt in the Western Block of the North China Craton
A1146 Yin C, Zhao G, Sun M, Leung W & Zhang J
-
- 12:45 Lamproite-Hosted Xenoliths of Vestfjella: Implications for Lithospheric Architecture in Western Dronning Maud Land, Antarctica
A849 Romu I & Luttinen A
-