
EGU 2008 Meeting Programme

Geochemistry, Mineralogy, Petrology & Volcanology

Monday

IS71 - GMPV05/GD6/GD7 Mid-ocean ridges: interaction of structure, geodynamics, magmatism and hydrothermal circulation

Convener: Koepke, J.

Co-Convener(s): Ceuleneer, G., Morris, A., Früh-Green, G., Pressling, N., McCaig, A., Delacour, A.

Lecture Room 19

Chairperson: MORIS, A.; KOEPKE, J.

8:30–8:45; EGU2008-A-05762; IS71 -
GMPV05/GD6/GD7-1MO10-001
Python, M.; Ceuleneer, G.; Arai, S.

Evolution of the geodynamic context of the Oman ophiolite deduced from the distribution of orthopyroxenite dykes in mantle peridotites (solicited)

8:45–9:00; EGU2008-A-02077; IS71 -
GMPV05/GD6/GD7-1MO10-002
Rollinson, H

MORB and boninitic melts parental to mantle chromitites in a single section through the northern Oman ophiolite

9:00–9:15; EGU2008-A-06065; IS71 -
GMPV05/GD6/GD7-1MO10-003
Arai, S.; Suzuki, K.; Okamura, H.

Decoupled modal and mineral chemical variations of uppermost mantle peridotites beneath a spreading center: an example from Wadi Rajmi of the northern Oman ophiolite (solicited)

9:15–9:30; EGU2008-A-08830; IS71 -
GMPV05/GD6/GD7-1MO10-004
Dziony, W.; Koepke, J.; Holtz, F.

Downhole evolution of mineral phases in drilled lavas and dikes from EPR crust (IODP Site 1256, Equatorial Pacific)

9:30–9:45; EGU2008-A-05981; IS71 -
GMPV05/GD6/GD7-1MO10-005

Duggen, S.; Hoernle, K.; Hauff, F.; Park, S.H.; Geldmacher, J. Pb (double spike)-Nd-isotopic variation of ~15 Ma oceanic crust basalts drilled at IODP Site 1256 in the Eastern Pacific: Constraints on mantle processes during a phase of superfast spreading at the East Pacific Rise and the timing of subsequent alteration

9:45–10:00; EGU2008-A-05803; IS71 -
GMPV05/GD6/GD7-1MO10-006
Hayman, N.W.; Karson, J.A.

The role of brittle deformation during fast-to-superfast seafloor spreading inferred from tectonic windows into East Pacific Rise-spread crust (solicited)

10:00 COFFEE BREAK

Chairperson: PRESSLING, N.

10:30–10:45; EGU2008-A-05143; IS71 -
GMPV05/GD6/GD7-1MO20-001

Escartin, J.; Smith, D. K.; Cann, J.; Schouten, H. Role of detachment faulting in lithospheric accretion along slow-spreading ridges (MAR 12–35°N) (solicited)

10:45–11:00; EGU2008-A-04988; IS71 -
GMPV05/GD6/GD7-1MO20-002
Cann, J.R.; Smith, D.K.; Escartin, J.; Schouten, H. Tectonic reinterpretation of a section of the Mid-Atlantic Ridge south of the Kane fracture zone

11:00–11:15; EGU2008-A-08221; IS71 -
GMPV05/GD6/GD7-1MO20-003

Schouten, H.; Smith, D. K.; Cann, J. R.; Escartin, J. Flexural rotation of normal faults and the formation of oceanic core complexes and abyssal hill topography

11:15–11:30; EGU2008-A-05753; IS71 -
GMPV05/GD6/GD7-1MO20-004

Miranda, E.; Dilek, Y. Oceanic detachment faulting in modern oceanic lithosphere and in ophiolites: implications for the mode of extensional tectonics in seafloor spreading environments

11:30–11:45; EGU2008-A-07529; IS71 -
GMPV05/GD6/GD7-1MO20-005

Morris, A.; Gee, J. S.; John, B. E.; MacLeod, C. J.; Pressling, N.

Palaeomagnetic evidence for tectonic rotation during the evolution of the Atlantis Massif oceanic core complex (IODP Expedition 304/305, Mid Atlantic Ridge, 30°N)

11:45–12:00; EGU2008-A-05366; IS71 -
GMPV05/GD6/GD7-1MO20-006

Dusunur, D.; Cannat, M.; Escartin, J. Thermal Structure of Lucky Strike Segment, Mid-Atlantic Ridge: indications from microearthquakes and thermal modeling

12:00 LUNCH BREAK

Chairperson: DELACOUR, A.

13:30–13:45; EGU2008-A-01543; IS71 -
GMPV05/GD6/GD7-1MO30-001

Reves-Sohn, R. Hydrothermal circulation on the active detachment fault at the TAG segment of the Mid-Atlantic Ridge (26°N) (solicited)

13:45–14:00; EGU2008-A-02194; IS71 -
GMPV05/GD6/GD7-1MO30-002

Koschinsky, A.; Garbe-Schönberg, D.; Hach, P.; Klevenz, V.; Schmidt, K.

Temporal Evolution of superhot hydrothermal Fluids in the young post-eruptive hydrothermal System at 5°S, Mid-Atlantic Ridge (solicited)

14:00–14:15; EGU2008-A-06258; IS71 -
GMPV05/GD6/GD7-1MO30-003

Dini, A.; Boschi, C.; Früh-Green, G.L.; Zandomeneghi, G.; Kelley, D.S.; Meier, B.H.

Boron isotope systematic of marine hydrothermal fluids: new insights from the Lost City Hydrothermal System (MAR 30°N)

14:15–14:30; EGU2008-A-06229; IS71 -
GMPV05/GD6/GD7-1MO30-004

Costa, F.; Coogan, L.; Chakraborty, S. The time scales of magma mixing and mingling at mid-ocean ridges

14:30–14:45; EGU2008-A-11760; IS71 - GMPV05/GD6/GD7-1MO3O-005

Lewin, É.; Chauvel, C.; Carpentier, M.; Arndt, N.T.
Role of recycled oceanic basalt and sediment in generating the long-lived isotopic mantle array

14:45–15:00; EGU2008-A-08984; IS71 - GMPV05/GD6/GD7-1MO3O-006

Ferreira, P.; Murton, B.; Dixon, J.; Boulter, C.
Melt supply and magmatic evolution at a large central MOR volcano located in the Lucky Strike Segment

15:00 END OF SESSION

IS71 - GMPV05/GD6/GD7 Mid-ocean ridges: interaction of structure, geodynamics, magmatism and hydrothermal circulation – Posters

Convener: Koepke, J.

Co-Convener(s): Ceuleneer, G., Morris, A., Früh-Green, G., Pressling, N., McCaig, A., Delacour, A.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A

Chairperson: KOEPKE, J.

A0024; EGU2008-A-07896; IS71 - GMPV05/GD6/GD7-1MO4P-0024

Masini, E.; Manatschal, G.; Mohn, G.; Ledru, P.; Lagabrielle, Y.; Lardeaux, J.-M.

The Chenaillat Ophiolite in the Western Alps: an analogue for oceanic core complexes ?

A0025; EGU2008-A-06927; IS71 - GMPV05/GD6/GD7-1MO4P-0025

Chamot-Rooke, N.; Fournier, M.; Petit, C.; Fabbri, O.; Huchon, P.; Lepvrier, C.; Maillot, B.
Sheba Ridge's Oceanic Core Complexes

A0026; EGU2008-A-01288; IS71 - GMPV05/GD6/GD7-1MO4P-0026

Dannowski, A.; Grevemeyer, I.; Morgan, J. P.; Ranero, C. R.
Crustal Structure of a Propagating Ridge Segment from Seismic Refraction and Wide-angle Data

A0027; EGU2008-A-06850; IS71 - GMPV05/GD6/GD7-1MO4P-0027

Sticher, A.; Bialas, J.; Reston, T.
ASTERICS (=Geophysical studies near the Ascension Transform: evolution of ridge segmentation and crustal structure) - Segment A3

A0028; EGU2008-A-06948; IS71 - GMPV05/GD6/GD7-1MO4P-0028

Simao, N.; Haxel, J.; Goslin, J.; Dziak, R.; Cannat, M.; Bohnenstiehl, D.

Identification of seismic sequences along the northern part of the Mid-Atlantic Ridge (12°N - 54°N) using regional hydrophone arrays (cancelled)

A0029; EGU2008-A-02646; IS71 - GMPV05/GD6/GD7-1MO4P-0029

Kalinina, A.V.
The transverse faults Vernadsky – Vema and Kane: the complex examination of seismology data and Bouguer gravity anomaly map

A0030; EGU2008-A-05093; IS71 - GMPV05/GD6/GD7-1MO4P-0030

McCaig, A.M.
Role of oceanic detachment faults in controlling the chemistry of hydrothermal systems

A0031; EGU2008-A-08649; IS71 - GMPV05/GD6/GD7-1MO4P-0031

Delacour, A.; Früh-Green, G. L.; Bernasconi, S. M.; Schaeffer, P.; Frank, M.; Gutjahr, M.

Isotopic constraints on seawater-rock interaction and redox conditions of the gabbroic-dominated IODP Hole 1309D, Atlantis Massif (30°N, MAR)

A0032; EGU2008-A-05545; IS71 - GMPV05/GD6/GD7-1MO4P-0032

Dijkstra, A.H.; Cawood, P.A.
The case for pre-depleted peridotites on Macquarie Island and similarities with peridotites from Leg 209

A0033; EGU2008-A-01314; IS71 - GMPV05/GD6/GD7-1MO4P-0033

Belyatsky, B.V.; Lepekhina, E.N.; Antonov, A.V.; Shuliatin, O.G.; Sergeev, S.A.

Age and genesis of accessory zircon from MAR gabbroids

A0034; EGU2008-A-09690; IS71 - GMPV05/GD6/GD7-1MO4P-0034

Pressling, N.; Morris, A.; MacLeod, C. J.
Core re-orientation by integration of core measurements and Formation MicroScanner images of the borehole wall: application to the palaeomagnetic study of the Atlantis Massif oceanic core complex

A0035; EGU2008-A-03167; IS71 - GMPV05/GD6/GD7-1MO4P-0035

Dubinin, E.P.; Galushkin, Yu.I.; Sveshnikov, A.A.
Modeling of magma systems in spreading ridges

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 17:30–19:00

Poster Area Hall A

Chairperson: MCCAIG, A.M.

A0036; EGU2008-A-02128; IS71 - GMPV05/GD6/GD7-1MO5P-0036

Stichnothe, J.; Koepke, J.; Horn, I.; Berndt, J.; Boudier, F.
In-situ Sr isotope ratio determination in fluid-derived late-stage parageneses in gabbros from the lower oceanic crust

A0037; EGU2008-A-04325; IS71 - GMPV05/GD6/GD7-1MO5P-0037

France, L.; Ildefonse, B.; Koepke, J.
Processes Governing the Magmatic-Hydrothermal Interface at the Sheeted Dike Complex-Gabbro Transition: From the comparison between the IODP Hole 1256D and the Oman Ophiolite to a general model?

A0038; EGU2008-A-09643; IS71 - GMPV05/GD6/GD7-1MO5P-0038

Schönborn, S.; Koepke, J.; Feig, S.T.; Hellebrandt, E.; Boudier, F.
Crustal wehrlites of the Oman ophiolite: An experimental study

A0039; EGU2008-A-01438; IS71 - GMPV05/GD6/GD7-1MO5P-0039

Koepke, J.
Experimental constraints on hydrothermal activity at very high temperatures under mid-ocean ridges

A0040; EGU2008-A-03313; IS71 - GMPV05/GD6/GD7-1MO5P-0040

Billo, S.; Ceuleneer, G.; Grégoire, M.; Toplis, M.
Chemical and petrological aspects of magma-mantle interactions. Examples from the Oman and Trinity ophiolites.

A0041; EGU2008-A-04307; IS71 - GMPV05/GD6/GD7-1MO5P-0041

Cordier, C.; Caroff, M.
Melt differentiation in an open-reservoir beneath the south Cleft segment (Juan de Fuca ridge): Evidences from plagioclase zoning and rock geochemistry.

A0042; EGU2008-A-01310; IS71 - GMPV05/GD6/GD7-1MO5P-0042
Zinger, T.; **Sharkov, E.**; Bortnikov, N.; Antonov, A.; Sergeev, S.
Morphological features of zircons from gabbroids of the 3d layer of oceanic crust in axial zone of the Mid-Atlantic Ridge, 60 N (Markov Deep)

A0043; EGU2008-A-09967; IS71 - GMPV05/GD6/GD7-1MO5P-0043
Raffone, N.; Ottolini, L.; Tonarini, S.; Gianelli, G.; Fridleifsson, G.Ó.
Geochemical investigations of altered basalts from Reykjanes geothermal system (SW Iceland)

A0044; EGU2008-A-10870; IS71 - GMPV05/GD6/GD7-1MO5P-0044
Gurenko, A.; Sobolev, A. V.; Sigurdsson, I. A.; Shimizu, N.
Crystal accumulation in, partial melting of and melt percolation through the Icelandic crust: constraints from glass-bearing gabbro xenoliths from Iceland

A0045; EGU2008-A-02852; IS71 - GMPV05/GD6/GD7-1MO5P-0045
Koutsovitis, P.; Magganas, A.; Ntaflos, Th.
Subduction related Triassic ultramafic lavas and wehrlites, associated with mafic to felsic volcanic and pyroclastic rocks of central and eastern Othris area, Greece.

A0046; EGU2008-A-06116; IS71 - GMPV05/GD6/GD7-1MO5P-0046
Moradian, M.; Emami, M. H.; Kheirikhah, M.
The Hybrid Magma and Mingling in the SW of Daryache-ye-Namak (Aran, Central Iran Zone)

GMPV10 Source controls on granitoid geochemistry - evidences and mechanisms – Posters

Convener: Clemens, J.
Co-Convener(s): Stevens, G.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0047; EGU2008-A-04930; GMPV10-1MO3P-0047
Nakajima, T.; Orihashi, Y.; Danhara, T.
From leucosome to a pluton? : An answer from Southwest Japan

A0048; EGU2008-A-01246; GMPV10-1MO3P-0048
Xiao, L.; Zhang, H.; Clemens, J.; Wang, Q.; Kan, Z.; Wang, K.; Ni, P.; Liu, X.
Late Triassic granitoids of the eastern margin of the Tibetan Plateau: Evidence for the non-subduction origin of magmas with "adakitic" affinity

A0049; EGU2008-A-08680; GMPV10-1MO3P-0049
Perugini, D.; **Poli, G.**; Christofides, G.; Koroneos, A.; Soldatos, T.; Eleftheriadis, G.
Complex interplay between geochemistry and magma dynamics in the petrogenesis of the Sithonia Plutonic Complex (NE Greece)

A0050; EGU2008-A-09339; GMPV10-1MO3P-0050
Barboni, M.; Bussy, F.
Variscan adakites in Brittany, France – potential sources and geodynamic implications

A0051; EGU2008-A-09519; GMPV10-1MO3P-0051
Luchitskaya, M.V.; Soloviev, A.V.; Hourigan, J.K.
Campanian and Early Eocene granite magmatism in accretional and collisional settings on the example of Sredinniy Range, Kamchatka

A0052; EGU2008-A-11180; GMPV10-1MO3P-0052
Miskovic, A.; Schaltegger, U.; Kosler, J.
Tracing granitoid sources along the Peruvian western Amazon margin: zircon U-Pb geochronology and Lu-Hf isotopic constraints

A0053; EGU2008-A-11253; GMPV10-1MO3P-0053
Esmaily, D.; Rashid-Moghadam, N.
Geochemistry and tectonic setting of the Astaneh granitoid, Sanandaj-Sirjan Zone, Western Iran

A0054; EGU2008-A-12407; GMPV10-1MO3P-0054
Beermann, O.; Botcharnikov, R.E.; Nowak, M.; Holtz, F.
S and Cl degassing of hydrous Etna Basalt: an experimental study at 200 MPa and 1050 C

GMPV16 Emplacement of magma pulses and growth of magma bodies

Convener: Annen, C.
Co-Convener(s): Menand, T., de Saint-Blanquat, M.
Lecture Room 22
Chairperson: DE SAINT-BLANQUAT, M.

8:30–8:45; EGU2008-A-02765; GMPV16-1MO10-001
Annen, C.
Understanding the emplacement of magma bodies: why is it so crucial?

8:45–9:00; EGU2008-A-04058; GMPV16-1MO10-002
Michaut, C.; Jaupart, C.
Two-limit cases for the formation of magma bodies by discrete injections (solicited)

9:00–9:15; EGU2008-A-03538; GMPV16-1MO10-003
Menand, T.
The emplacement depth of sills and larger magma bodies: what are the physical controls and how are emplacement depths determined?

9:15–9:30; EGU2008-A-08675; GMPV16-1MO10-004
Bonvalot, S.; Remy, D.; Froger, J-L.; Gabalda, G.; Labazuy, Ph.; Legrand, D.; Aguilera, F.; Bondoux, F.; De St Blanquat, M.
Present-day magmatic pulses in the Andes ? Results from geodesy and geophysics (solicited)

9:30–9:45; EGU2008-A-09430; GMPV16-1MO10-005
Houlié, N.; Dufek, J.; Komorowski, J.-C.
Magma periodic bursts into shallow volcanic reservoir. Implication for the quantification of intruded magma volumes.

9:45–10:00 Poster Presentations

10:00 COFFEE BREAK

Chairperson: MENAND, T.

10:30–10:45; EGU2008-A-10337; GMPV16-1MO20-001
Glazner, A.; Bartley, J.; Johnson, B.; Coleman, D.
Ripening of granitic texture and the hidden lives of plutons

10:45–11:00; EGU2008-A-01909; GMPV16-1MO20-002
Schaltegger, U.; Schoene, B.; Peytcheva, I.
Tracking the growth of plutons: the contribution of high-precision U-Pb zircon dating (solicited)

11:00–11:15; EGU2008-A-10753; GMPV16-1MO20-003
Memeti, V.; Paterson, S.; Mundil, R.; Matzel, J.
Growth of a large magma chamber: An example from the Tuolumne batholith, Sierra Nevada, California

11:15–11:30; EGU2008-A-05182; GMPV16-1MO2O-004
Barboni, M.; Bussy, F.; Schoene, B.; Schaltegger, U.
Architecture and emplacement mechanisms of the Saint Jean du Doigt bimodal intrusion, Brittany, France

11:30–11:45; EGU2008-A-04051; GMPV16-1MO2O-005
Horsman, E.; Morgan, S.; **de Saint Blanquat, M.;**
Hunter, R.; Tikoff, B.; Nugent, A.; Habert, G.
Emplacement and assembly of shallow plutons through multiple magma pulses, Henry mountains, Utah

11:45–12:00; EGU2008-A-08794; GMPV16-1MO2O-006
Michel, J.; **Baumgartner, L.P.;** Cosca, M.; Müntener, O.;
Putlitz, B.; de Saint-Blanquat, M.; Ovtcharova, M.; Schaltegger, U.

Intrusion and cooling history of the Torres del Paine Intrusive Complex, Chile (solicited)

12:00 END OF SESSION

GMPV16 Emplacement of magma pulses and growth of magma bodies – Posters

Convener: Annen, C.

Co-Convener(s): Menand, T., de Saint-Blanquat, M.

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 13:30–15:00

Poster Area Hall A

Chairperson: ANNEN, C

A0055; EGU2008-A-03895; GMPV16-1MO3P-0055

Bussien, D.; Bussy, F.; Chiaradia, M.

Growth mechanisms of the bimodal Matorello calc-alkaline pluton, Central Swiss Alps

A0056; EGU2008-A-03889; GMPV16-1MO3P-0056

Ramírez de Arellano, C.; Putlitz, B.; Müntener, O.

Magmatic history of the Fitz Roy Plutonic Complex, Southern Patagonia (Argentina)

A0057; EGU2008-A-07317; GMPV16-1MO3P-0057

Leuthold, J.; Müntener, O.; Baumgartner, L.; Putlitz, B.; Michel, J.

Emplacement of the Paine Mafic Complex: successive sill injections? (Patagonia, Chile)

A0058; EGU2008-A-05976; GMPV16-1MO3P-0058

Allibon, J.; Bussy, F.; Lewin, E.; Cosca, M.

Tectonically induced vertical magmatic layering in the PX1 pyroxenite-gabbro intrusion, root-zone of an ocean island volcano, Fuerteventura (Canary Islands).

A0059; EGU2008-A-04377; GMPV16-1MO3P-0059

Holm, D.; Geissman, J.; Naibert, T.; George, N.

Paleomagnetic and AMS results from two layered mafic laccoliths, north-central Montana, USA

A0060; EGU2008-A-02285; GMPV16-1MO3P-0060

Gómez-Izquierdo, B.; Caravantes, G.; Dini, A.; Rocchi, S.

The laccolithic intrusion of Orciatico (Tuscany)

A0061; EGU2008-A-08860; GMPV16-1MO3P-0061

Farina, F.; Dini, A.; Innocenti, F.; Rocchi, S.; Westerman, D.S.

Rapid incremental assembly of the Monte Capanne pluton (Elba Island, Italy) by downward stacking of magma sheets

Display Time: Monday, 08:00–19:30

Authors in Attendance: Monday, 15:30–17:00

Poster Area Hall A

Chairperson: MICHAUT, C

A0062; EGU2008-A-02692; GMPV16-1MO4P-0062

Rocchi, S.; Dini, A.; Farina, F.; Innocenti, F.; Westerman, D.S.

Intrusive sheets and sheeted intrusions at Elba Island (Italy)

A0063; EGU2008-A-05523; GMPV16-1MO4P-0063

de Saint-Blanquat, M.; Bankuti, M.; Grégoire, M.; Polvé, M.; Morgan, S.; Horsman, E.; Tikoff, B.; Habert, G.

”Petrogenealogy” of the Mount Hillers intrusions, Henry Mtns, Utah, USA

A0064; EGU2008-A-00030; GMPV16-1MO4P-0064

Nitkina, E.; Bayanova, T.; Apanasevich, E.

Geochronological U-PB zircon dating of two ore-bearing magma pulses: stratiform and non-stratiform ore bodies in the Fedorov deposit (Kola Peninsula)

A0065; EGU2008-A-02593; GMPV16-1MO4P-0065

Vignerese, JL

Discrete building of felsic magma chambers with implications from ore genesis to crustal growth (solicited)

A0066; EGU2008-A-10421; GMPV16-1MO4P-0066

Gudmundsson, A.; Kusumoto, S

Flow channelling and the emplacement of intrusions and lava flows

A0067; EGU2008-A-05116; GMPV16-1MO4P-0067

Schofield, N.; Stevenson, C; Reston, T; Hutton, D

The Significance of Fingers and Lobes in the Emplacement of Sill Complexes: Insights from field data

GMPV17 Magmatic differentiation: theory, experiments, and examples

Convener: Troll, V.

Co-Convener(s): Freda, C., Gertisser, R.

Lecture Room 22

Chairperson: TROLL, V., FREDa, C.

13:30–13:45; EGU2008-A-07601; GMPV17-1MO3O-001

Sigmarsson, O.

The importance of analytical precision in deciphering magma differentiation processes: the case of Hekla volcano, Iceland (solicited)

13:45–14:00; EGU2008-A-02651; GMPV17-1MO3O-002

Martel, C.; Radadi Ali, A.; Pichavant, M.

Mafic magma recharge recorded in microlites: evidence from Mt Pelée (Martinique, lesser Antilles) (solicited)

14:00–14:15; EGU2008-A-07873; GMPV17-1MO3O-003

Iezzi, G.; Mollo, S.; Ventura, G.; Cavallo, A.; Romano, C.

Experimental solidification of anhydrous latitic and trachytic melts at different cooling rates:

14:15–14:30; EGU2008-A-09150; GMPV17-1MO3O-004

Deegan, F.; Troll, V.; Freda, C.; Misiti, V.; Chadwick, J.

Magma-carbonate interaction processes at Merapi volcano, Indonesia: insights from High-P High-T experiments

14:30–14:45; EGU2008-A-08129; GMPV17-1MO3O-005

De Campos, C. P.; Perugini, D.; Dingwell, D. B.; Poli, G.; Ertel-Ingrisch, W.; Hess, K. U.

Mixing haplogranite and haplobasalt : first experimental results under controlled chaotic conditions

14:45–15:00; EGU2008-A-10815; GMPV17-1MO3O-006
Galerne, C.Y.; Tantserev, E.; Podladchikov, Y.Y.; Neumann, E.-R
Modeling of porous reactive flow in cooling igneous sills: the role of near solidus melt segregation in magmatic differentiation

15:00 COFFEE BREAK

Chairperson: TROLL, V., GERTISSER, R.

15:30–15:45; EGU2008-A-06840; GMPV17-1MO4O-001
Charlier, B.; Wilson, C.
Characteristics of rhyolite generation at Taupo volcano, New Zealand: implications for the nature of the sub-surface plutonic system (solicited)

15:45–16:00; EGU2008-A-09520; GMPV17-1MO4O-002
Boettcher, I.; Mengel, K.
Trace element and isotopic information for the evolution of the Chaîne des Puys magmatic systems, Massif Central, France

16:00–16:15; EGU2008-A-09857; GMPV17-1MO4O-003
Wiesmaier, S.; Troll, V. R.; Hart, G. L.; Ellam, R.; Caracado, J.C.; Wolff, J.A.
The role of assimilation and mixing in differentiation of post-collapse lavas on Tenerife, Canary Islands

16:15–16:30; EGU2008-A-01252; GMPV17-1MO4O-004
Famin, V.; Welsch, B.; Okumura, S.; Bachèlery, P.; Nakashima, S.
Three differentiations of a single magma at Piton de la Fournaise volcano (Reunion hotspot)

16:30–16:45; EGU2008-A-00864; GMPV17-1MO4O-005
Borges, M.; Sen, G.; Hart, G.; Wolff, J.
Application of single crystal Sr isotope diffusion modeling to determine timescales of flood basalt eruptions

16:45–17:00; EGU2008-A-06606; GMPV17-1MO4O-006
Poli, G.; Miller, J.S.; Wooden, J.L.; Perugini, D.; Mazdab, F.
Insights on genesis and thermal evolution of rhyolitic magmas beneath Lipari Island (Aeolian Islands, Italy) by ion microprobe U/Th dating and trace element analysis of zircons

17:00 END OF SESSION

GMPV17 Magmatic differentiation: theory, experiments, and examples – Posters

Convener: Troll, V.
Co-Convener(s): Freda, C., Gertisser, R.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 08:30–10:00
Poster Area Hall A
Chairperson: TROLL, V., FREDa, C.

A0068; EGU2008-A-01332; GMPV17-1MO1P-0068
Perchuk, L.; Bindeman, I.
Magma mixing in nature and experiments: a review

A0069; EGU2008-A-02688; GMPV17-1MO1P-0069
Vignerese, J.L.
Discrete building of felsic magma chambers with implications from ore genesis to crustal growth

A0070; EGU2008-A-07635; GMPV17-1MO1P-0070
Troll, V. R.; **Blythe, L. S.;** Freda, C.; Dreossi, D.; Gardner, M.
Magma-sediment interaction at Anak Krakatau, Indonesia: contamination of solid, liquid and gaseous phases

A0071; EGU2008-A-07658; GMPV17-1MO1P-0071
Sigmarsson, O.
Magmatic timescales after assessment of fractional crystallization on 210Pb-226Ra disequilibria

A0072; EGU2008-A-08358; GMPV17-1MO1P-0072
Freda, C.; Gaeta, M.; Giaccio, B.; Marra, F.; Paladino, D.M.; Sottili, G.; Scarlato, P.
Differentiation of potassic, silica-poor magma systems and implications on eruptive styles: the Pozzolane Rosse event (Alban Hills, Central Italy)

A0073; EGU2008-A-03386; GMPV17-1MO1P-0073
Ferlito, C.; **Viccaro, M.;** Nicotra, E.; Cristofolini, R.
Relationship between magma supply and eruptive behavior at Mt. Etna volcano during the 2006-2007 period

A0074; EGU2008-A-01524; GMPV17-1MO1P-0074
White, J.C.; Parker, D.F.; Ren, M.
Thermodynamic modeling of the origin of trachyte and pantellerite, Pantelleria, Italy.

A0075; EGU2008-A-02352; GMPV17-1MO1P-0075
Latypov, R.; Chistyakova, S.
Phase equilibria testing of a multiple pulse mechanism: a case study of the Shiant Isles Main Sill, NW Scotland

A0076; EGU2008-A-09652; GMPV17-1MO1P-0076
Galerne, C.Y.; Neumann, E.-R.; Aarenes, I.
Post-emplacment melt flow in saucer-shaped sills: a mechanism for the generation of S-, D-, and I-shaped compositional profiles

A0077; EGU2008-A-02356; GMPV17-1MO1P-0077
Chistyakova, S.; Latypov, R.
Anomalous compositional profiles across small mafic dykes of the Åland-Åboland dyke swarm, SW Finland

Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 10:30–12:00

Poster Area Hall A
Chairperson: TROLL, V., GERTISSER, R.

A0078; EGU2008-A-04421; GMPV17-1MO2P-0078
Marszalek, M.
Pseudomorphs after amphiboles in Zalas volcanic rocks (South Poland)

A0079; EGU2008-A-04559; GMPV17-1MO2P-0079
Egorova, V.; Kalugin, V.; Shelepaev, R.
Composition and genesis of clinopyroxene and feldspar megacrysts from alkaline basalts of Mongolia

A0080; EGU2008-A-04680; GMPV17-1MO2P-0080
Lukanin, O.; Dernov-Pegarev, V.; Vernadsky Institute of Geochemistry
Behavior of Cl and REE during granite melts degassing caused by pressure decrease

A0081; EGU2008-A-04872; GMPV17-1MO2P-0081
Rasskazov, S.; Chebykin, E.; Chuvashova, I.; Zhuchenko, N.; Stepanova, O.
Isotope Disequilibrium of 238U-series in latest Pleistocene through Holocene volcanic rocks from Hangay, Central Mongolia and Eastern Sayans, Siberia

A0082; EGU2008-A-05864; GMPV17-1MO2P-0082
Ivanov, A.V.; He, H.; Pan, Y.; Qin, H.; Ryabov, V.V.; Shevko, A.Y.
Siberian Traps: long and episodic?

A0083; EGU2008-A-10177; GMPV17-1MO2P-0083
Merle, R.; Jourdan, F.; Girardeau, J.; Marzoli, A.; Renne, P.
Evidence of multi-phase Cretaceous to Quaternary alkaline magmatism on Tore-Madeira Rise seamounts from 40Ar/39Ar ages

A0084; EGU2008-A-10498; GMPV17-1MO2P-0084
Laurenco, N.; Abreu, M. P.; Madureira, P.; Ribeiro, L. P.
The Azores - G3 cruise: Multidisciplinary studies from the
Azores rift zone to the Great Meteor seamount

A0085; EGU2008-A-10548; GMPV17-1MO2P-0085
Ribeiro, L. P.; Franca, Z.; Forjaz, V. H.; Abreu, M. P.
Estimated pressure and temperature during magma extrac-
tion beneath São Jorge Island, Azores

A0086; EGU2008-A-10582; GMPV17-1MO2P-0086
Madureira, P.; Ribeiro, L. P.; Lourenco, N.; Martins, S.;
Abreu, M. P.
Preliminary chemical data from basaltic rocks dredged at
Great Meteor, Hyeres and Plato seamounts

A0087; EGU2008-A-11292; GMPV17-1MO2P-0087
Kiss, B.; Harangi, S.; Vinkler, A.P.; Ntafos, T.; Ma-
son, P.R.D
Magma evolution and magma ascent rate beneath Ciomadul,
the youngest volcano in the Carpathian-Pannonian region

GMPV18 Melt inclusion as a tool for studying magma genesis: Advantages and limitations

Convener: Schiano, P.
Co-Convener(s): Spandler, C.
Lecture Room 22
Chairperson: N.N.

17:30–17:45; EGU2008-A-08081; GMPV18-1MO5O-001
Zajacz, Z.; Hanley, J.; Heinrich, C.A.; Halter, W.E.
Diffusive reequilibration of quartz hosted silicate melt
inclusions: an experimental study (solicited)

17:45–18:00; EGU2008-A-04593; GMPV18-1MO5O-002
Sobolev, A.V.; Hofmann, A.W.; Kuzmin, D.V.
How reliable are melt inclusions in olivine for mantle study?

18:00–18:15; EGU2008-A-05914; GMPV18-1MO5O-003
WELSCH, B.; Faure, E.; Bachèlery, P.; Famin, F.
Pre-eruptive dynamics of a fournaisian picrite inferred from
olivine morphologies and melt inclusions

18:15–18:30; EGU2008-A-08264; GMPV18-1MO5O-004
Bouvier, A.-S.; Deloule, E.; Métrich, N.
Primary magmas of Grenada (Lesser Antilles Arc): light
trace elements and stable isotopes supply

18:30–18:45; EGU2008-A-08816; GMPV18-1MO5O-005
Andreeva, I.A.; Kovalenko, V.I.
Magma composition and crystallization conditions of the
fluorite carbonatites from Bol'shaya Tagna carbonatite com-
plex (eastern Sayan, Russia): evidence from melt inclusions

18:45–19:00; EGU2008-A-04844; GMPV18-1MO5O-006
Hanley, J.
Molten halides in mafic igneous systems: legitimate melts
or artifacts of post-entrapment modification ?

19:00 END OF SESSION

GMPV18 Melt inclusion as a tool for studying magma genesis: Advantages and limitations – Posters

Convener: Schiano, P.
Co-Convener(s): Spandler, C.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0088; EGU2008-A-02117; GMPV18-1MO4P-0088
Sonzogni, Y.; Provost, A.; Schiano, P.
Transcrystalline melt migration in clinopyroxene

A0089; EGU2008-A-04139; GMPV18-1MO4P-0089
Scott, S. D.; Yang, K.; Marques, A. F.; Sodhi, R.; Broder-
sen, P.; Mims, C.
Investigation of trace ore elements in melt inclusions using
ToF-SIMS

A0090; EGU2008-A-07578; GMPV18-1MO4P-0090
Jakobsen, J.K.; Sigmarsson, O.; Sciano, P.
A melt inclusion study of hyaloclastite hosted minerals
(Hengill, Hekla and Heimaey): origin of the three magmatic
series in Iceland

Tuesday

GMPV19 Volatiles and bubbles in magmas

Convener: Polacci, M.
Co-Convener(s): Baker, D.
Lecture Room 22
Chairperson: POLACCI, M.

8:30–8:45; EGU2008-A-08874; GMPV19-1TU1O-001
Phillips, J.C.; Witham, F.; Rust, A.C.
The dynamics of gas bubble motion within persistently-
active volcanoes and implications for monitoring changes in
volcanic activity (solicited)

8:45–9:00; EGU2008-A-04028; GMPV19-1TU1O-002
Bai, L.; Baker, D.; Hill, R.
Lattice-Boltzmann simulation on vesicular Stromboli basalt
glass

9:00–9:15; EGU2008-A-05709; GMPV19-1TU1O-003
Suckale, J.; Hager, B.; Elkins-Tanton, L.T.; Nave, J.C.
Numerical modeling of bubble coalescence in basaltic
magma flow

9:15–9:30; EGU2008-A-04386; GMPV19-1TU1O-004
Gardner, J.E.
The impact of a pre-existing gas phase on the degassing of
magma during explosive eruptions (solicited)

9:30–9:45; EGU2008-A-08445; GMPV19-1TU1O-005
Cichy, S.B.; Botcharnikov, R.E.; Holtz, F.; Behrens, H.;
Sato, H.
Vesiculation and Microlite Crystallization induced by
Decompression: Experimental Constraints for rhyodacitic
Magma of Unzen Volcano, Japan

9:45–10:00; EGU2008-A-10896; GMPV19-1TU1O-006
Moretti, R.; Alletti, M.; Aiuppa, A.; Baker, D.R.; Scail-
let, B.
Reactive solubility approach to the dissolution of halogens
in basaltic melts

10:00 END OF SESSION

GMPV19 Volatiles and bubbles in magmas – Posters

Convener: Polacci, M.

Co-Convener(s): Baker, D.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Hall A

Chairperson: BAKER, D.R.

A0080; EGU2008-A-00480; GMPV19-1TU3P-0080

Plechova, A.; Portnyagin, M.; Mironov, N.; Ponomareva, V.; Bazanova, L.

Amount and redox state of sulfur in primitive magmas of Kamchatka

A0081; EGU2008-A-03224; GMPV19-1TU3P-0081

Stagno, V.; Dolejš, D.

Experimental study and thermodynamic model for chlorine solubility in polymerized aluminosilicate melts

A0082; EGU2008-A-02906; GMPV19-1TU3P-0082

Filiberto, J.; Treiman, A.H.

Experimental investigation on the effect of Cl in Martian basaltic systems

A0083; EGU2008-A-03711; GMPV19-1TU3P-0083

Kotelnikova, Z.A.; Kotelnikov, A.R.

Phase equilibria in water-silicate-salt (fluoride-sulfate) systems

A0084; EGU2008-A-07298; GMPV19-1TU3P-0084

Solovova, I.; Girnis, A.; Ryabchikov, I.

Multiple mechanisms of carbonatite melt formation in alkaline igneous complexes

A0085; EGU2008-A-02457; GMPV19-1TU3P-0085

Polacci, M.; Baker, D.R.

The third dimension and the study of vesicle textures in volcanic rocks

A0086; EGU2008-A-08195; GMPV19-1TU3P-0086

Colò, L.; Baker, D.; Polacci, M.; Ripepe, M.

Magma vesiculation and infrasonic activity at Stromboli

A0087; EGU2008-A-03658; GMPV19-1TU3P-0087

Menand, T.; Phillips, J. C.

The impact of the plumbing-system geometry on gas segregation and passive degassing in basaltic volcanoes

A0088; EGU2008-A-06449; GMPV19-1TU3P-0088

Giachetti, T.; Druitt, T.H.; Kelfoun, K.; Arbaret, L.; Poussineau, S.

Vesicle growth during Vulcanian explosions of Soufrière Hills Volcano, Montserrat, 1997.

GMPV20 Volcanic and non-volcanic Earth degassing

Convener: Chiodini, G.

Co-Convener(s): Allard, P.

Lecture Room 22

Chairperson: FRONDINI, F.

10:30–10:45; EGU2008-A-04576; GMPV20-1TU2O-001

Calabrese, S.; Parello, F.; D'Alessandro, W.; Aiuppa, A.

Atmospheric impact of volcanic volatiles: trace elements in snow and bulk deposition samples at Mount Etna (Italy)

10:45–11:00; EGU2008-A-09950; GMPV20-1TU2O-002

Zambardi, T.; Toutain, J.P.; Sonke, J.E.; Sortino, F.; Shinohara, H.

Elemental and isotopic budget of volcanic mercury (Hg) at Vulcano Island (Italy)

11:00–11:15; EGU2008-A-02891; GMPV20-1TU2O-003

Sobishevitch, A.L.; Gorbatikov, A.V.; Ovsuchenko, A.N.

Deep subsurface structure of the Gora Karabetova mud volcano (Taman peninsula)

11:15–11:30; EGU2008-A-06343; GMPV20-1TU2O-004

Fronidini, F.; Baldini, S.; Balestra, R.; Caliro, S.; Cardellini, C.; Chiodini, G.; Donnini, M.; Granieri, D.; Morgantini, N.

Interaction between deep and shallow fluids and carbon dioxide degassing at Mt Amiata region.

11:30–11:45; EGU2008-A-06457; GMPV20-1TU2O-005

Chiodini, G.; Valenza, M.; **Cardellini, C.;** Frigeri, A.

Googas: an on line database of Italian gas emissions

11:45–12:00; EGU2008-A-01372; GMPV20-1TU2O-006

Reiter, E.

VolcanoGasML: a new way to view your geochemical volcanic gases data

12:00 END OF SESSION

GMPV20 Volcanic and non-volcanic Earth degassing – Posters

Convener: Chiodini, G.

Co-Convener(s): Allard, P.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Hall A

Chairperson: FRONDINI, F.

A0089; EGU2008-A-11210; GMPV20-1TU3P-0089

Cellura, D.; Stagno, V.; Valenza, M.

The CO₂ diffusive degassing in Linosa Island (Sicily Channel)

A0090; EGU2008-A-06568; GMPV20-1TU3P-0090

Caliro, S.; **Cardellini, C.;** Chiodini, G.; Avino, R.; Granieri, D.; Smith, A.

Carbon isotopic composition of soil CO₂ efflux at Solfatara (Paeagraean fields, Nales, Italy)

A0091; EGU2008-A-10054; GMPV20-1TU3P-0091

Barberi, F.; Barrancos, J.; Carapezza, M.L.; Fisher, C.; Perez, N.; Ranaldi, M.; **Ricci, T.;** Tarchini, L.; Weber, K.

Hazard related to CO₂ and H₂S emissions in the Roman province

A0092; EGU2008-A-02885; GMPV20-1TU3P-0092

Sobishevitch, A.L.; **Pouzich, I.N.;** Pronin, A.P.; Bashorin, V.N.; Laverova, N.I.

Cenozoic fluid-magmatic centers and corresponding natural hazards and risks in Northern Caucasus

A0093; EGU2008-A-10454; GMPV20-1TU3P-0093

Pizzullo, S.; Italiano, F.; Martinelli, G.

Mechanochemical origin of carbon dioxide from sedimentary rocks

A0094; EGU2008-A-08884; GMPV20-1TU3P-0094

Kadik, A. A.; Litvin, Yu.A.; V.I.Vernadsky Institute of Geochemistry and Analyt

The incorporation of nitrogen in reduced magmas of the early Earth's mantle

GMPV21 Understanding Physical and Chemical Signals at Active Volcanoes

Convener: Saccorotti, G.
Co-Convener(s): Werner, C.
Lecture Room 22
Chairperson: BEAN, C.

13:30–13:45; EGU2008-A-11119; GMPV21-1TU3O-001
Burton, M.; Allard, P.; Mur  , F.; La Spina, A.
Lessons learnt from eight years of FTIR measurements on Mt. Etna (solicited)

13:45–14:00; EGU2008-A-02192; GMPV21-1TU3O-002
Carbone, D.; Zuccarello, L.; Saccorotti, G.
The ability of joint seismological-gravity studies to detect states of unrest at active volcanoes

14:00–14:15; EGU2008-A-01724; GMPV21-1TU3O-003
Zaccarelli, L.; Pandolfi, D.; Bianco, F.; Saccorotti, G.; Bean, C.
Seismic wave temporal changes during the 2002–2003 Mt. Etna eruption

14:15–14:30; EGU2008-A-03948; GMPV21-1TU3O-004
Zuccarello, L.; Burton, M.; Saccorotti, G.; Bean, C.; Patan  , D.; Salerno, G.G.
How significant is VLP seismicity for determining gas budget at Etna Volcano?

14:30–15:00; EGU2008-A-11431; GMPV21-1TU3O-005
Bean, C.J.; Martini, F.; The VOLUME Consortium, & Multidisciplinary field and computational studies of subsurface mass movement at volcanoes: highlights from the VOLUME project. (solicited)

15:00 COFFEE BREAK

Chairperson: VINCIGUERRA, S.

15:30–16:00; EGU2008-A-12192; GMPV21-1TU4O-001
Lane, S.J.; James, M.R.
Fluid flow as a source mechanism for ground motion at volcanoes (solicited)

16:00–16:15; EGU2008-A-08132; GMPV21-1TU4O-002
Vassalli, M.; Longo, A.; Saccorotti, G.; Papale, P.; O’Brien, G.
Numerical simulations of geophysical signals in response to magma chamber dynamics at Campi Flegrei volcanic complex, Italy.

16:15–16:30; EGU2008-A-02833; GMPV21-1TU4O-003
Benson, P.M.; Vinciguerra, S.; Meredith, P.G.; Young, R.P.
Laboratory simulation of VT, hybrid and LF seismic signals.

16:30–16:45; EGU2008-A-03598; GMPV21-1TU4O-004
Vinciguerra, S.; Caricchi, L.; Burlini, L.; Scarlato, P.
Melt flow in a conduit and seismic signals time evolution: A Laboratory Study

16:45–17:00; EGU2008-A-11308; GMPV21-1TU4O-005
Vogfj  rd, K. S.; Slunga, R.; Gudmundsson, M. T.
Indications of subsurface mass movement in the Katla volcano in Iceland during 1997–2007, revealed by evolution of earthquake locations and geothermal activity within the caldera, as well as crustal deformation around the caldera rim.

17:00 COFFEE BREAK

Chairperson: WERNER, C.

17:30–17:45; EGU2008-A-04175; GMPV21-1TU5O-001
Jousset, P.; Chouet, B.
Long-period earthquakes in Bouillante hydrothermal system, French Antilles.

17:45–18:00; EGU2008-A-08854; GMPV21-1TU5O-002
J  nsd  ttir, K.; Roberts, R.; Tryggvason, A.; Lund, B.; Pohjola, V.; Jakobsd  ttir, S.S.; B  dvarsson, R.
Local lp-events study in a glaciated volcanic environment in south Iceland

18:00–18:15; EGU2008-A-08023; GMPV21-1TU5O-003
Hjaltad  ttir, S.; Vogfj  rd, K. S.; Slunga, R.
Seismic Signs of Magma intruding from the Crust-Mantle Boundary preceding and during two Intrusion Episodes in the Eyjafjallaj  kull Volcano, south Iceland

18:15–18:30; EGU2008-A-07757; GMPV21-1TU5O-004
Cusano, P.; Petrosino, S.; Saccorotti, G.; Chiodini, G.
Source dynamics of the LP events occurred during the recent uplift at Campi Flegrei volcanic complex

18:30–18:45; EGU2008-A-06814; GMPV21-1TU5O-005
Madonia, P.; Federico, C.; Cusano, P.; **Petrosino, S. ;** Aiuppa, A.; Gurrieri, S.
Crustal dynamics of Mt. Vesuvius from 1998 to 2005: effects on seismicity and fluid circulation

18:45–19:00; EGU2008-A-02957; GMPV21-1TU5O-006
Jolly, G.; GeoNet
Multidisciplinary monitoring of the 25 September 2007 phreatic eruption at Mount Ruapehu, New Zealand

19:00 END OF SESSION

GMPV21 Understanding Physical and Chemical Signals at Active Volcanoes – Posters

Convener: Saccorotti, G.
Co-Convener(s): Werner, C.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 08:30–10:00
Poster Area Hall A
Chairperson: SACCOROTTI, G.

A0095; EGU2008-A-02733; GMPV21-1TU1P-0095
Patan  , D.; Di Grazia, G.; Ferrari, F.; Montalto, P.; Boschi, E.
The geometry of Mt. Etna shallow central feeding system

A0096; EGU2008-A-03402; GMPV21-1TU1P-0096
Di Lieto, B.; Saccorotti, G.; Zuccarello, L.
Quantitative analysis of Very-Long-Period (VLP) seismicity at Etna during summer 2005

A0097; EGU2008-A-04275; GMPV21-1TU1P-0097
Monteiller, V.; O’Brien, G.S.; Metaxian, J.P.; Bean, C.J.; Macedo, O.
Moment-tensor inversion of explosion events recorded on Ubinas Volcano, Peru

A0098; EGU2008-A-06355; GMPV21-1TU1P-0098
Lokmer, I.; Bean, C.; O’Brien, G.; Saccorotti, G.
Sensitivity of Moment Tensor solutions to the shallow velocity structure: synthetics and data example from Etna Volcano, Italy

A0099; EGU2008-A-03784; GMPV21-1TU1P-0099
De Siena, L.; Del Pezzo, E.; Bianco, F.; Tramelli, A.
Imaging of Mt. Vesuvius’ s quiescent stage using velocity and attenuation tomography.

A0100; EGU2008-A-09689; GMPV21-1TU1P-0100
Alparone, S.; Cammarata, L.; Cannata, A.; Gambino, S.;
Milluzzo, V.; Gresta, S.
Time-space variation of the 2004-2006 micro-seismicity at
La Fossa (Vulcano, Aeolian Islands, Italy)

A0101; EGU2008-A-05588; GMPV21-1TU1P-0101
Tramelli, A.; Del Pezzo, E.; Galluzzo, D.; Fehler, M. C.
Inhomogeneous properties of the scattering wavefield on Mt.
Vesuvius

A0102; EGU2008-A-08028; GMPV21-1TU1P-0102
Saccorotti, G.; Petrosino, S.; Bianco, F.; Galluzzo, D.; La
Rocca, M.; Del Pezzo, E.; Zaccarelli, L.; Cusano, P.
Seismicity associated with the 2004-2006 renewed ground
uplift at Campi Flegrei caldera, Italy.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 10:30–12:00

Poster Area Hall A
Chairperson: SACCOROTTI, G.

A0103; EGU2008-A-08156; GMPV21-1TU2P-0103
Longo, A.; Bisconti, L.; Saccorotti, G.; Papale, P.
Approaching volcanic sources using a finite element, nu-
merical modelling of fluid-rock interaction based on the
space-time discontinuous Galerkin method.

A0104; EGU2008-A-10174; GMPV21-1TU2P-0104
Todesco, M.
Multi-parameter modeling of hydrothermal fluid circulation

A0105; EGU2008-A-11305; GMPV21-1TU2P-0105
Roberts, M. J.; Vogfjörð, K. S.; Slunga, R.
Seismic observations of glacial flooding from the ice-cover
of Katla volcano, Iceland

A0106; EGU2008-A-02922; GMPV21-1TU2P-0106
Werner, C.; Sherburn, S.; Christenson, B.; Hurst, T.;
Britten, K.; Cole-Baker, J.
Relationships of Degassing and Seismicity at Quiescent
Volcanoes in New Zealand

A0107; EGU2008-A-04767; GMPV21-1TU2P-0107
Ruzzante, J.; Lòpez Pumarega, M.I.; Piotrkowski, R.; Gre-
gori, G.P.; Marson, I.; Paparo, G.; **Poscolieri, M.**; Zanini, A.
Acoustic emission (AE), tides and degassing on the Peteroa
volcano (Argentina)

A0108; EGU2008-A-05318; GMPV21-1TU2P-0108
Geyer, A.; Gottsmann, J.
Stress field and ground deformation at volcanoes: Influence
of reservoir multiplicity and host rock lithology

A0109; EGU2008-A-05524; GMPV21-1TU2P-0109
Rymer, H.; Locke, C. A.; Borgia, A.; Martinez, M.;
Brenes, J.
Volcanic eruption prediction – 5 years before the event

A0110; EGU2008-A-06891; GMPV21-1TU2P-0110
Del Pezzo, E.; La Rocca, M.; Galluzzo, D.; **Petrosino, S.**
; Cusano, P.; Bianco, F.; Breton, M.; Orozco-Rojas, J.;
Ibanez, J.; Veneruso, M.
A seismic survey at Colima volcano (Mexico)

Wednesday

GMPV22 Dynamics of pre-eruptive and eruptive pro- cesses (including Robert Wilhelm Bunsen Medal Lecture)

Convener: Macedonio, G.
Co-Convener(s): Melnik, O.
Lecture Room 22
Chairperson: N.N.

13:30–13:45; EGU2008-A-07301; GMPV22-1WE3O-001
Macedonio, G.; Costa, A.
Dynamics of lava flow emplacement

13:45–14:00; EGU2008-A-06856; GMPV22-1WE3O-002
Longo, A. ; Vassalli, M.; Papale, P.; Saccorotti, G.
Numerical simulations of the dynamics of shallow magma
chamber replenishment.

14:00–14:15; EGU2008-A-04025; GMPV22-1WE3O-003
Myers, N.; **Gardner, J.E.**
Sequential bubble growth and magma fragmentation in
Plinian eruptions: the record in dacite pumice from Volcan
Popocatepetl, Mexico

14:15–14:30; EGU2008-A-04786; GMPV22-1WE3O-004
Scheu, B.; Ichihara, M.; Spieler, O.; Dingwell, D.B.
A closer look at magmatic fragmentation

14:30–14:45; EGU2008-A-03275; GMPV22-1WE3O-005
Pepe, S.; Solaro, G.; Ricciardi, G.P.; **Tizzani, P.**
On the fractal dimension of the fallout deposits: a case study
of the 79 A.D. Plinian eruption at Mt. Vesuvius

14:45–15:00; EGU2008-A-04360; GMPV22-1WE3O-006
Alatorre-Ibarguengoitia, M.; Spieler, O.; Dingwell, D.
Mechanical energy consumed during magmatic fragmenta-
tion: New insights from rapid decompression experiments
on natural volcanic samples

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–16:15; EGU2008-A-12446; GMPV22-1WE4O-001
Dingwell, D.B.
From domes to supervolcanoes, in unrest and eruption:
Experimental insights (Robert Wilhelm Bunsen Medal
Lecture) (solicited)

16:15–16:30; EGU2008-A-09318; GMPV22-1WE4O-002
Cordonnier, B.; Hess, K. U.; Lavallée, Y.; Dingwell, D. B.
From a fluid like to a brittle behavior: Shear thinning effect
of crystals on Mt Unzen rheology.

16:30–16:45; EGU2008-A-03136; GMPV22-1WE4O-003
Zoporowski, A.; Miller, S.A.; Pudasaini, S.P.
Coupling extrusion, drumbeat seismicity and magmatic
outgassing at Mount St. Helens using effective stress
concepts

16:45 END OF SESSION

GMPV22 Dynamics of pre-eruptive and eruptive processes (including Robert Wilhelm Bunsen Medal Lecture) – Posters

Convener: Macedonio, G.
Co-Convener(s): Melnik, O.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 08:30–10:00

Poster Area Hall A
Chairperson: N.N.

A0041; EGU2008-A-05358; GMPV22-1WE1P-0041
Muxworthy, A. R.; Lawley, F.; Paterson, G.
Emplacement temperatures of the 472 AD and 1631 AD Vesuvius eruptions

A0042; EGU2008-A-06759; GMPV22-1WE1P-0042
Vona, A.; Dingwell, D.B.; Romano, C.; Giordano, D.
The subliquidus rheology of recent basaltic lavas from Stromboli

A0043; EGU2008-A-07053; GMPV22-1WE1P-0043
Perugini, D.; **Poli, G.;** Petrelli, M.; De Campos, C.P.; Dingwell, D.B.
Time-scales of most recent Phlegrean Fields eruptions inferred by application of the “diffusive fractionation” model of trace elements

A0044; EGU2008-A-09582; GMPV22-1WE1P-0044
de’ Michieli Vitturi, M.; Clarke, A.B.; Neri, A.; Voight, B.
Effects of conduit geometry on magma ascent dynamics in dome-forming eruptions

GMPV23 Explosive activity at basaltic volcanoes

Convener: Taddeucci, J.
Co-Convener(s): Spieler, O.
Lecture Room 22
Chairperson: TADDEUCCI, J.

17:30–17:45; EGU2008-A-03702; GMPV23-1WE5O-001
Oladottir, B. A.; Larsen, G.; Sigmarsson, O.
Basaltic Tephra Layers reveal the Eruption History of the Icelandic subglacial Volcanoes, Grimvötn, Bardarbunga and Kverkfjöll during the last 7000 Years

17:45–18:00; EGU2008-A-03870; GMPV23-1WE5O-002
Polacci, M.; Andronico, D.; Taddeucci, J.; Cristaldi, A.
Mechanisms of ash formation at Mount Etna, Italy

18:00–18:15; EGU2008-A-06779; GMPV23-1WE5O-003
Andronico, D.; Corsaro, R.A.
The January-June 2000 fire fountaining at South-East Crater of Mount Etna (Italy): insights into the dynamics of the shallow plumbing system

18:15–18:30; EGU2008-A-08338; GMPV23-1WE5O-004
CIONI, R.; bertagnini, A.; d’oriano, C.; andronico, D.; cole, P.
Mafic ash emission activity at Vesuvius (solicited)

18:30–18:45; EGU2008-A-09749; GMPV23-1WE5O-005
Russell, J.K.; Moss, S.; Gordon, T.M.
Volatiles in Kimberlite: Volume Relationships and Implications for Conduit and Eruption Dynamics (solicited)

18:45–19:00; EGU2008-A-10693; GMPV23-1WE5O-006
Pino, N.A.; Allard, P.; Moretti, R.
Seismic tremor evidence for a deep gas trigger of the 5 April 2003 paroxysmal explosion on Stromboli volcano, Italy

19:00 END OF SESSION

GMPV23 Explosive activity at basaltic volcanoes – Posters

Convener: Taddeucci, J.
Co-Convener(s): Spieler, O.
Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Hall A
Chairperson: N.N.

A0045; EGU2008-A-02834; GMPV23-1WE4P-0045
Marciano, R. ; Veres, D.; Lenaz, D.; Sirocko, F.; Schaber, K.; Dietrich, S.
Geochemistry and mineralogy of the last 200 kyr BP pyroclastic layers in lake records (ELSA cores) from the West Eifel maars, Germany

A0046; EGU2008-A-03790; GMPV23-1WE4P-0046
Behncke, B.; Falsaperla, S.; Pecora, E.
Correlation between seismic and volcanic activity: A tale of three eruptive episodes at Mount Etna (Italy) in November 2006

A0047; EGU2008-A-08189; GMPV23-1WE4P-0047
Downey, W.S.; Speiler, O.; Kunzmann, T.; Mastin, L.G.; Dingwell, D.B.; Shaw, C.S.
Experimentally generated peperitic textures and hydromagmatic ash fragments using SMILE

A0048; EGU2008-A-08340; GMPV23-1WE4P-0048
Sottili, G.; Taddeucci, J.; Palladino, D.M.; Gaeta, M.; Scarlato, P.; Ventura, G.
Maar Evolution and Magma-Country Rock Interaction at the Colli Albani Volcanic District, Central Italy.

GMPV24 New monitoring techniques applied to active volcanoes

Convener: Martini, M.
Co-Convener(s): Burton, M.
Lecture Room 22
Chairperson: MARTINI, M.

8:30–8:45; EGU2008-A-07562; GMPV24-1WE1O-001
Kern, C.; Deutschmann, T.; Vogel, L.; Sommer, T.; Fickel, M.; Platt, U.
Radiative transfer in volcanic plumes

8:45–9:00; EGU2008-A-09134; GMPV24-1WE1O-002
Sommer, T.; Kern, C.; Vogel, L.; Kedu, M.; Kick, F.; Fickel, M.; Platt, U.
Direct light DOAS measurements in volcanic plumes

9:00–9:15; EGU2008-A-06107; GMPV24-1WE1O-003
Rix, M.; Valks, P.; Hao, N.; Erbertseder, T.
Monitoring of volcanic SO₂ emissions using the GOME-2 satellite instrument

9:15–9:30; EGU2008-A-09033; GMPV24-1WE1O-004
Buongiorno, MF; Zoffoli, S; Sansosti, E; Pugnaghi, S; Teggi, S; Amodio, A; Soddu, P; Vignoli, S
ASI-Volcanic Risk System (SRV): a pilot project to develop EO data processing modules and products for volcanic activity monitoring

9:30–9:45; EGU2008-A-09274; GMPV24-1WE1O-005
Martini, M.; Centro Di Monitoraggio
Monitoring of VLP seismic signals at Stromboli Volcano (Southern Italy)

9:45–10:00; EGU2008-A-09548; GMPV24-1WE1O-006
Wassermann, J.; Käser, M.; Kremers, S.
A numerical study on the resolution of source mechanisms of volcano-induced seismic events by moment tensor inversions in a broad frequency range

Chairperson: BURTON, M.

10:30–10:45; EGU2008-A-06223; GMPV24-1WE2O-001

Giammanco, S.; Parello, F.; Schifano, R.

Continuous measurement of fluid pressure gradients in soil gases at Stromboli volcano (Italy)

10:45–11:00; EGU2008-A-10456; GMPV24-1WE2O-002

Antoine, A.; Baratoux, B.; Rabinowicz, R.; Bachelery, B.; Staudacher, S.; Saracco, S.; Fontaine, F.; **Finizola, F.**

hermography of volcanic areas on Piton de la Fournaise, Reunion Island : Mapping surface properties and possible detection of convective air flow within volcanic debris

11:00–11:15; EGU2008-A-10611; GMPV24-1WE2O-003

Fernandez, J.; Samsonov, S.; TENERIFE team

Integration of two Line-of-sights classical DInSAR and GPS data to study the 2004-2006 Tenerife volcanic unrest

11:15 END OF SESSION

GMPV24 New monitoring techniques applied to active volcanoes – Posters

Convener: Martini, M.

Co-Convener(s): Burton, M.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0049; EGU2008-A-04203; GMPV24-1WE3P-0049

BLACKETT, M.; Wooster, M

An assessment of current EOS sensors in monitoring volcanic activity and details of improvements required in future infra-red satellite sensors in terms of volcanic observation

A0050; EGU2008-A-01701; GMPV24-1WE3P-0050

Vicente, G.; Serafino, G.; Krueger, A.; Carn, S.; Yang, K.; Krotkov, N.; Guffanti, M.; Levelt, P.

The NOAA/NASA Operational System for Volcanic Ash, Aerosol and SO₂ Cloud Monitoring from Space

A0051; EGU2008-A-02752; GMPV24-1WE3P-0051

Scarfi, L.; Zuccarello, L.; Patanè, D.

High precision locations of the seismicity accompanying the 2007 Stromboli eruption.

A0052; EGU2008-A-03626; GMPV24-1WE3P-0052

Patanè, D.; Mattia, M.; Di Grazia, G.; Cannavò, F.; Giampiccolo, E.; Musumeci, C.; Montalto, P.; Boschi, E.

Insights into the dynamic processes of the 2007 Stromboli eruption and possible meteorological influences on the magmatic system

A0053; EGU2008-A-09176; GMPV24-1WE3P-0053

Martini, M.; **D'Auria, L.;** Giudicepietro, F.; Linde, A.; Sacks, S.; Scarpa, R.

Early warning of paroxysmal explosions at Stromboli volcano (Southern Italy) using dilatometers and broadband seismic stations.

A0054; EGU2008-A-09568; GMPV24-1WE3P-0054

Giudicepietro, F.; Centro di Monitoraggio

The monitoring seismic Network of Mt. Vesuvius.

A0055; EGU2008-A-09610; GMPV24-1WE3P-0055

Giudicepietro, F.; Centro di Monitoraggio

Seismological monitoring of Campi Flegrei caldera.

A0056; EGU2008-A-03021; GMPV24-1WE3P-0056

Somma, R.; Wiersberg, T.; Rocco, A.; De Rosa, M.; Zimmer, M.; Quattrocchi, F.; Erzinger, J.; De Natale, G.; De Natale, P.; Boschi, E.

Continuous in-situ measurements of gases at Solfatara, Pisciarelli - Phelgrean Field and Tor Caldara - Latium (Italy): A new experimental approach.

A0057; EGU2008-A-05483; GMPV24-1WE3P-0057

Faber, E.; Teschner, M.; Poggenburg, J.; Ibs - von Seht, M.; Gunawan, A.H.; Ponce, P.; Silva, B.; Garcón, G.

Gas Monitoring on Volcanoes - Examples

A0058; EGU2008-A-07439; GMPV24-1WE3P-0058

Fickel, M.; **Sommer, T.;** Vogel, L.; Kern, C.; Platt, U.

A method for measuring trace gas fluxes in plumes using MAX-DOAS

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0059; EGU2008-A-08891; GMPV24-1WE4P-0059

Kick, F.; Kern, C.; Vogel, L.; Wöhrbach, M.; Sommer, T.; Platt, U.

Improving the accuracy of the SO₂ camera

A0060; EGU2008-A-10023; GMPV24-1WE4P-0060

Garofalo, K.; Staudacher, T.; Kowalsky, P.; Boissier, P.; Galle, B.; Ferrazzini, V.; Villemant, B.; Boudon, G.

DOAS monitoring network at Piton de la Fournaise volcano (Reunion Island): installation and first results from the NOVAC project

A0061; EGU2008-A-10237; GMPV24-1WE4P-0061

Grutter, M.; Stremme, W.; Ortega-Martinez, I.; Basaldud, R.; Harig, R.

First results from infrared optical remote sensing of the Popocatepetl plume during a small eruption on December 1st of 2007

A0062; EGU2008-A-03554; GMPV24-1WE4P-0062

Neri, M.; Mazzarini, F.; Tarquini, S.; Bisson, M.; Isola, I.; Behncke, B.; Pareschi, M.T.

Morpho-structural changes of Mount Etna's summit area documented with Lidar technology

A0063; EGU2008-A-03590; GMPV24-1WE4P-0063

Bisson, M.; Behncke, B.; Fornaciai, A.; **Neri, M.;** Pareschi, M.T.

Lidar-based digital terrain analysis of an area exposed to the risk of lava flow invasion: the Zafferana Etnea territory, Mt. Etna (Italy)

A0064; EGU2008-A-10459; GMPV24-1WE4P-0064

Arjona, A.; Camacho, A.G.; Mallorquí, J.; González, P.J.; Blanco, P.; Fernández, J.

Application of the Coherent Pixels Technique (CPT) to ENVISAT SAR images for deformation studies in La Palma island

A0065; EGU2008-A-09803; GMPV24-1WE4P-0065

Esposito, A.; Pietrantonio, G.; Devoti, R.; Anzidei, M.; Giordano, G.; Rinaldi, A.P.; Todesco, M.

Ground deformation at the Panarea volcano (Aeolian island, Italy) during 2002-2006 measured by gps and structural analysis

A0066; EGU2008-A-03365; GMPV24-1WE4P-0066

Zuccarello, L.; Burton, M.; Carbone, D.; La Spina, A.; Messina, A.; Platania, P.R.; Privitera, E.; Rapisarda, S.; Scuderi, L.

First result of a multi-parametric experiment conducted in the summit area of Mt Etna volcano

Thursday

GMPV01 Chemistry of Earths Mantle and Core: Experimental and Theoretical Approaches (including Outstanding Young Scientist Award Lecture)

Convener: Dubrovinsky, L.
Co-Convener(s): Winkler, B., Ulmer, P., Fei, Y.
Lecture Room 7
Chairperson: ULMER, P.

8:30–9:00; EGU2008-A-11939; GMPV01-1TH1O-001
Boyet, M.

The Early History of the Silicate Earth (Outstanding Young Scientist Award Lecture) (solicited)

9:00–9:30; EGU2008-A-01070; GMPV01-1TH1O-002
Oganov, A.R.

Discovering new minerals in the deep Earth (EMU Research Excellence Medal Lecture) (solicited)

9:30–9:45; EGU2008-A-07564; GMPV01-1TH1O-003
Vinograd, V.

Monte Carlo simulation of solid solutions in phases of petrological importance

9:45–10:00; EGU2008-A-09076; GMPV01-1TH1O-004

Brodholt, J.; Alfe, D.; Dobson, D
The melting curve of MgSiO₃ perovskite from ab initio molecular dynamics

10:00–10:15; EGU2008-A-10452; GMPV01-1TH1O-005

Ullrich, A.; **Miletich, R.**
Elastic properties of clinopyroxenes: Nonlinear lattice elasticity at high-pressure transformations

10:15 COFFEE BREAK

Chairperson: VINOGRAD, V.

10:30–10:45; EGU2008-A-02427; GMPV01-1TH1O-006
Xu, W.M.; Grinberg, E.; Rozenberg, G. Kh; **Pasternak, M. P.**; Kurnosov, A.; Dubrovinsky, L.; Taylor, R.D.; Jeanloz, R.
Unraveling the dilemma of the post-spinel structure of magnetite; Mössbauer and XRD studies of MFe₂O₄ (M = Mg²⁺, Fe²⁺, Zn²⁺)

10:45–11:00; EGU2008-A-05243; GMPV01-1TH2O-001

Kavner, A.; Armentrout, M
Behavior of Fe₂SiO₄ at Deep Mantle Conditions

11:00–11:15; EGU2008-A-11671; GMPV01-1TH2O-002
Narygina, O.; Dubrovinsky, L.; Kantor, I.; McCammon, C.; Pascarelli, M.; Mezouar, M.; Sergueev, I.; Ponkratz, U.; Prakapenka, V

Iron spin state in perovskite structure: Moessbauer spectroscopy, X-ray diffraction spectroscopy and XANES

11:15–11:30; EGU2008-A-11434; GMPV01-1TH2O-003
Newville, M.; **Manghnani, M.H.**; Hong, X.; Balogh, J.; Amulele, G.; Sekar, M.

Fluorescence X-ray Absorption Fine Structure (XAFS) Studies of Fe-Ni-S and Fe-Ni-Si melts to 1600 K

11:30–11:45; EGU2008-A-05309; GMPV01-1TH2O-004
Dubrovinsky, L.; Narygina, O.; Kantor, I.; Pascarelli, S.; Aquilanti, G.; Munoz, M.

Iron partitioning between ferropericlase and silicate perovskite: 2D micro-XAS mapping in diamond anvil cell

11:45–12:00; EGU2008-A-02286; GMPV01-1TH2O-005
Mikhailushkin, A. S.; Simak, S. I.; Dubrovinsky, L.; Dubrovinskaia, N.; Johansson, B.; Abrikosov, I. A.
Pure Iron Compressed and Heated to Extreme Conditions

12:00–12:15; EGU2008-A-11523; GMPV01-1TH2O-006

Prakapenka, V.; Rivers, M.; Sutton, S
Structure and properties of iron carbide at the Earth's mantle and core conditions

12:15–12:30; EGU2008-A-11625; GMPV01-1TH2O-007

Ohta, K O.; Onoda, S O; Hirose, K H; Sinmyo, R S; Shimizu, K S; Sata, N S; Ohishi, Y O; Yasuhara, A Y
The electrical conductivity of post-perovskite in Earth's D'' layer

12:30 END OF SESSION

GMPV01 Chemistry of Earths Mantle and Core: Experimental and Theoretical Approaches (including Outstanding Young Scientist Award Lecture) – Posters

Convener: Dubrovinsky, L.
Co-Convener(s): Winkler, B., Ulmer, P., Fei, Y.
Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A
Chairperson: FEI, Y

A0062; EGU2008-A-05729; GMPV01-1TH3P-0062

Pushkarev, Yu.
D'' layer and primordial noble gases in the lower mantle derivatives as evidence of the Earth solid protocore?

A0063; EGU2008-A-01666; GMPV01-1TH3P-0063

Rankenburg, K
EuroMinSci - A European Collaborative Research Programme (Overview)

A0064; EGU2008-A-01294; GMPV01-1TH3P-0064

Xirouchakis, D.
Immiscibility and critical points in titanite solid solutions: The binaries CaTiOSiO₄-CaSnOSiO₄ and CaTiOSiO₄-CaSiOSiO₄.

A0065; EGU2008-A-12100; GMPV01-1TH3P-0065

Manghnani, M.H.; Fu, S.S.; Secco, R.A.
Compressional Wave Velocities in Fe-Ni-Si Melts to 1650 °C: Contrasting Results Compared to Fe-Ni-S Melts

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A
Chairperson: DUBROVINSKY, L.

A0066; EGU2008-A-04958; GMPV01-1TH4P-0066

Sinmyo, R.; Hirose, K; Hamane, D; Seto, Y; Fujino, K
Partitioning of iron between lower mantle minerals

A0067; EGU2008-A-11784; GMPV01-1TH4P-0067

Dubrovinskaia, N.; Dubrovinsky, L.; Abrikosov, I.; Vitos, L.
Beating the miscibility barrier between magnesium and iron group metals (Fe, Ni, Co) by high-pressure alloying

A0068; EGU2008-A-08148; GMPV01-1TH4P-0068

Hanrahan, M.; Brey, G; Woodland, A
Li as a Barometer for Bimineralic Kimberlitic Eclogites

A0069; EGU2008-A-01739; GMPV01-1TH4P-0069

Kerr, AC; Perason, DG; Nowell, GM
Magma source evolution beneath the Caribbean oceanic plateau: New insights from elemental and Sr-Nd-Pb-Hf isotopic studies of ODP Leg 165 Site 1001 basalts

A0070; EGU2008-A-01653; GMPV01-1TH4P-0070

Orescanin, V.; Mikelic, L; Roje, V; Lulic, S
Comparison of two microwave assisted decomposition procedures and two separation procedures for determination of lanthanides in sediments by EDXRF method

A0071; EGU2008-A-01313; GMPV01-1TH4P-0071
Vinograd, V.L.; Safonov, O.G.; Wilson, D.J.; Gale, J.D.;
Perchuk, L.L.; Bindi, L.; Winkler, B.
Thermodynamic model of the CaMgSi₂O₆-KAlSi₂O₆
pyroxene solid solution.

GMPV02 Fluids in mantle and deep crust: physico-chemical and geomechanical perspective

Convener: Aranovich, L.
Co-Convener(s): Heinrich, W., Perchuk, L., Safonov, O.
Lecture Room 7
Chairperson: ARANOVICH, L

13:30–13:45; EGU2008-A-12115; GMPV02-1TH3O-001
Podladchikov, Y.; Connolly, J.; John, T.
Mechanics versus chemistry: three cases of abnormal fluid
behaviour (solicited)

13:45–14:00; EGU2008-A-07905; GMPV02-1TH3O-002
Hack, A.C.; Thompson, A.B.
Fluid release, flow paths and melting systematics in subduc-
tion zones predicted by thermo-kinematic models and phase
relations

14:00–14:15; EGU2008-A-01099; GMPV02-1TH3O-003
Aranovich, L.; Kozlovskii, V.
The role of silica mobility in the origin of incipient eclogites

14:15–14:30; EGU2008-A-09874; GMPV02-1TH3O-004
Vrijmoed, J.C.; Austrheim, H
Implications of metasomatism for geochronology and
P-T estimates: evidence from the Western Gneiss Region
(WGR), Norway

14:30–14:45; EGU2008-A-04591; GMPV02-1TH3O-005
Litvin, Yu
Fluidized carbonate-silicate-carbon melts as growth medium
for mantle-derived diamond by experimental criteria

14:45–15:00; EGU2008-A-05409; GMPV02-1TH3O-006
Dachs, E.; **Geiger, C.A.**
Thermodynamic properties and the behavior of H₂O in Fe-
and Mg-cordierite

15:00 END OF SESSION

GMPV03 Water in solids of the Earth's crust and mantle: from the storage capacities to its influence on physical properties (co-sponsored by EAG)

Convener: Ohtani, E.
Co-Convener(s): BOLFAN-CASANOVA, N., Koch-Müller,
M.
Lecture Room 19
Chairperson: BOLFAN-CASANOVA N., KOCH-MÜLLER
M.

17:30–17:45; EGU2008-A-02794; GMPV03-1TH5O-001
Khisina, N.R.; Wirth, R.; Koch-Müller, M.; Matsyuk, S.
Hydrogen occurrence in mantle olivine nodules from kimber-
lites

17:45–18:00; EGU2008-A-05917; GMPV03-1TH5O-002
Ohtani, E.; Ghosh, S.; Sano, A.; Litasov, K.D.
Water in the transition zone, lower mantle, and core

18:00–18:15; EGU2008-A-06689; GMPV03-1TH5O-003
Inoue, T.; Katsuda, M.; Irifune, T.; Yurimoto, H.
Partitioning of water in mantle minerals (solicited)

18:15–18:30; EGU2008-A-01565; GMPV03-1TH5O-004
Yoshino, T.; Manthilake, G.; Matsuzaki, T.; Katsura, T.
Electrical conductivity of transition zone minerals: wads-
leyite and ringwoodite (solicited)

18:30–18:45; EGU2008-A-09019; GMPV03-1TH5O-005
van der Meijde, M.
Seismology and water; drowning in theory or thriving on
facts? (solicited)

18:45–19:00; EGU2008-A-10650; GMPV03-1TH5O-006
Sanchez-Valle, C.; Litasov, K.; Sinogeikin, S.V.;
Smyth, J.R.; Ohtani, E.; Bass, J.D.
Elasticity of DHMS at mantle pressures: Implications for
seismic velocities and anisotropy of subducted slabs

19:00 END OF SESSION

GMPV06 Island arc magmatism: from source input to volcanic output (co-sponsored by EAG)

Convener: Müntener, O.
Co-Convener(s): Ulmer, P.
Lecture Room 7
Chairperson: MÜNTENER, O. ULMER, P.

15:30–15:45; EGU2008-A-08227; GMPV06-1TH4O-001
Grove, T.L.
The influence of H₂O on mantle wedge melting and some
consequences for island arc magmatism (solicited)

15:45–16:00; EGU2008-A-10517; GMPV06-1TH4O-002
Hemond, Ch.; Galerne, Ch.; Aguilon-Robles, A.; Pal-
lares, C.
230Th-238U disequilibria in lavas from the Colima volcano
(Mexico): Constraints on melting and mantle source of an
exotic calcalkaline volcano

16:00–16:15; EGU2008-A-03050; GMPV06-1TH4O-003
Bouilhol, P.; Burg, J-P.; Schmidt, M.W.; Bodinier, J-L.;
Dawood, H.; Hussain, S.
Lower crustal magma conduits in the Kohistan island arc:
Role in melt transfer and differentiation

16:15–16:30; EGU2008-A-07901; GMPV06-1TH4O-004
Dessimoz, M.; Müntener, O.; Jagoutz, O.; Dawood, H.
Epidote forming reactions in calc-alkaline rocks monitored
by trace elements

16:30–16:45; EGU2008-A-07407; GMPV06-1TH4O-005
Spandler, C.; Pettke, T
Multiple fluid sources for eclogite-facies veins in the Mon-
viso Massif; implications for subduction zones (solicited)

16:45–17:00; EGU2008-A-08012; GMPV06-1TH4O-006
Gerya, T.V.; Nikolaeva, K.; Löw, F.I.; Connolly, J.A.D
Thermomechanical controls of island arc magmatism (so-
lited)

17:00 END OF SESSION

GMPV11 The multi-functional roles of accessory minerals in metamorphic and igneous processes

Convener: Harlov, D.
Co-Convener(s): Finger, F.
Lecture Room 19
Chairperson: N.N.

15:30–15:45; EGU2008-A-05027; GMPV11-1TH40-001

Tropper, P.; Manning, C.

Titanite-rutile thermobarometry in ultrahigh-pressure metamorphic rocks (solicited)

15:45–16:00; EGU2008-A-01388; GMPV11-1TH40-002

Gordon, S.; Grove, M.; Schmitt, A.; Whitney, D.; Teyssier, C.

Tracking the fluid history of a Cordilleran gneiss dome: sub-micron-scale resolution U-Th-Pb age, oxygen isotope, and Ti concentration of monazite and zircon rims

16:00–16:15; EGU2008-A-04671; GMPV11-1TH40-003

Harlov, D.E.

Metasomatic alteration of zircon in high pH fluids under high-grade conditions

16:15–16:30; EGU2008-A-03866; GMPV11-1TH40-004

Vignola, P.; Guastoni, A.; Diella, V.

Nb Ta Sn oxides association from the Malpensata granitic pegmatite, Central Southern Alps (Lecco province, Italy): magmatic differentiation, crystallization mechanism and geochemical inferences

16:30–16:45; EGU2008-A-07452; GMPV11-1TH40-005

Krause, J.; Brügmann, G.E.; Harlov, D.E.; Pushkarev, E.V. Apatite as a tracer for metasomatic processes in nepheline olivine melanogabbros of Uralian-Alaskan-type complexes in the Ural Mountains, Russia (solicited)

16:45–17:00; EGU2008-A-11796; GMPV11-1TH40-006

Krenn, E.; Putz, H.; Finger, F.; Paar, W.

Unusual monazite with high S, Sr, Eu and common Pb contents in ore bearing mylonites from the Schellgaden mining district, Austria (solicited)

17:00 END OF SESSION

GMPV12 Redox signature of minerals, melts and glasses: analysis, experiments and models

Convener: Wilke, M.
Co-Convener(s): Moretti, R.
Lecture Room 19
Chairperson: WILKE, M.

13:30–13:45; EGU2008-A-06837; GMPV12-1TH30-001

Lattard, D.; Sauerzapf, U.; Burchard, M.; Engelmann, R.

Titanomagnetite-Ilmenite equilibrium: a new experimentally based model to estimate temperature and oxygen fugacity in basic magmatic rocks (solicited)

13:45–14:00; EGU2008-A-09555; GMPV12-1TH30-002

Iezzi, G.; Moroni, P.; Nasir, S.; Moretti, R.

Kaersutitic and Ti-pargasitic amphiboles and oxygen fugacity

14:00–14:15; EGU2008-A-09020; GMPV12-1TH30-003

Malaspina, N.; Poli, S.; Fumagalli, P.

The oxidation state of metasomatised mantle wedge: insights from C-H-bearing garnet peridotite

14:15–14:30; EGU2008-A-10859; GMPV12-1TH30-004

Botcharnikov, R.E.; Wilke, M.; Jugo, P.J.; Holtz, F.

Experimental constraints on the redox and compositional control of S solubility in hydrous felsic to mafic magmas (solicited)

14:30–14:45; EGU2008-A-10590; GMPV12-1TH30-005

Alonso Mori, R.; Pieter, G.; Eleonora, P.; Eeckhout, S.G.; Giuli, G.

Sulfur speciation in minerals and glasses. High resolution X-ray emission spectroscopy study

14:45–15:00; EGU2008-A-04345; GMPV12-1TH30-006

France, L.; Ildefonse, B.; Koepke, J.; Cordier, C.; Bech, F

A new method to constrain the oxidation state of basaltic series from microprobe analysis.

15:00 END OF SESSION

GMPV15 Combined analysis of micro- nano-structures and chemistry of geomaterials: advanced imaging and microanalysis

Convener: Wirth, R.
Co-Convener(s): Calas, G.
Lecture Room 19
Chairperson: CALAS, G. WIRTH, R.

10:30–10:45; EGU2008-A-02045; GMPV15-1TH20-001

Rhede, D.

Characterization of sub-micron features with the FE-EPMA (solicited)

10:45–11:00; EGU2008-A-04663; GMPV15-1TH20-002

Anderson, A.; Wirth, R.; Rhede, D.

Nanoscale variations in the structure and composition of altered metamict zircon from the Georgeville pluton, Nova Scotia (solicited)

11:00–11:15; EGU2008-A-10758; GMPV15-1TH20-003

Dégi, J.; Abart, R.; Török, K.

Isochemical garnet breakdown in lower crustal garnet granulite xenoliths from the Central Pannonian Basin: Insights from high resolution electron microbeam analyses

11:15–11:30; EGU2008-A-09731; GMPV15-1TH20-004

Krickl, R.; Grambole, D.; Goetze, J.; Wirth, R.; Nasdala, L.

Effects of alpha-irradiation on SiO₂ phases

11:30–11:45; EGU2008-A-10180; GMPV15-1TH20-005

Vácz, T.; Kronz, A.; Wirth, R.; Kennedy, A.K.; Libowitzky, E.; Nasdala, L.

BSE contrast in altered zircon: structure, texture and chemistry

11:45–12:00; EGU2008-A-01835; GMPV15-1TH20-006

Augustin, S.; Wirth, R

TEM foils from natural diamond prepared with Focused Ion Beam (FIB):

12:00 END OF SESSION

GMPV25 Volcano flank instability

Convener: PUGLISI, G.
Co-Convener(s): Walter, T.
Lecture Room 22
Chairperson: PUGLISI, G.

8:30–9:00; EGU2008-A-02143; GMPV25-1TH10-001

Hürlimann, M.; Del Potro, R.

Hazard assessment of large volcanic landslides. New findings from Teide stratovolcano, Tenerife. (solicited)

9:00–9:15; EGU2008-A-11680; GMPV25-1TH1O-002
Carracedo, JCC
Rifting, landsliding and eruptive nesting in the Canary Islands (solicited)

9:15–9:30; EGU2008-A-08835; GMPV25-1TH1O-003
Garcia, X.; Jones, A.G.; Hogg, C.; Schmoldt, J.; Spratt, J.
Structure of an unstable, Atlantic Oceanic island volcano (La Palma, Canary Islands) from land magnetotelluric imaging

9:30–9:45; EGU2008-A-10432; GMPV25-1TH1O-004
Gonzalez, P.J.; Fernandez, J.; Camacho, A.G.; Tiampo, K.F.
A slippery mechanical boundary at the western flank of Cumbre Vieja volcano

9:45–10:00; EGU2008-A-10767; GMPV25-1TH1O-005
Wörner, G.; Hora, J.; Ginibre, C.
Changing regimes in sub-volcanic magma systems in the Central Andean Volcanic Zone due to sector collapse (solicited)

10:00 COFFEE BREAK

Chairperson: WALTER, T.

10:30–10:45; EGU2008-A-04174; GMPV25-1TH2O-001
Bonforte, A.; Bonaccorso, A.; Guglielmino, F.; Palano, M.; Puglisi, G.
Models and time-evolution of the flank dynamics at Mt. Etna volcano (Sicily) from geodetic measurements

10:45–11:00; EGU2008-A-03301; GMPV25-1TH2O-002
Heap, M.; Vinciguerra, S.; Meredith, P.; Baud, P.
Changes in Elastic Moduli and Time Dependent Brittle Deformation of Etna Basalt

11:00–11:15; EGU2008-A-08920; GMPV25-1TH2O-003
Tripaldi, S.; U.B.&IMAA
Structural imaging of the Pernicana Fault System through the joint use of electrical and magnetotelluric investigation

11:15–11:30; EGU2008-A-12257; GMPV25-1TH2O-004
Tinard, P.; Froger, J.L.; Cayol, V.; Briole, P.; Fukushima, Y.; Staudacher, T.; Souriot, T.
Continuous InSAR monitoring of Piton de la Fournaise Volcano (La Reunion Island): Four years of magmatic transfers revealed.

11:30–11:45; EGU2008-A-06306; GMPV25-1TH2O-005
Antonello, G; **Casagli, N.;** Catani, F; Del Ventisette, C; Fortuny-Guasch, J; Guerri, L; Leva, D; Tarchi, D
Deformations of the Stromboli volcano using GB-InSAR technique

11:45–12:00; EGU2008-A-10672; GMPV25-1TH2O-006
Belousov, A.; Belousova, M.
Large scale failures and debris avalanche deposits of volcanoes of Kurile Islands. (cancelled)

12:00 END OF SESSION

GMPV27 Large igneous provinces and their impact on life and environment

Convener: Self, S.
Co-Convener(s): CHENET, A.
Lecture Room 7
Chairperson: N.N.

17:30–17:45; EGU2008-A-03952; GMPV27-1TH5O-001
Aguirre-Díaz, G.J.; Renne, P.R.
The ignimbrite flare-up of the Sierra Madre Occidental, Mexico, and its relationship with the Eocene-Oligocene mass extinction

17:45–18:00; EGU2008-A-06539; GMPV27-1TH5O-002
Chenet, A.-L.; Fluteau, F.; Courtillot, V.; Gérard, M.; Subbarao, K. V.; Khadri, S.
Some aspects of the Deccan traps history: duration of emplacement, potential environmental impact, and post-trap evolution

18:00–18:15; EGU2008-A-12016; GMPV27-1TH5O-003
Jourdan, F. ; Bertrand, H.; Féraud, G.; Watkeys, M.K.; Renne, P.R.
The Karoo Large igneous province and the Pliensbachian - Toarcian boundary

18:15–18:30; EGU2008-A-10393; GMPV27-1TH5O-004
Merle, R.; Marzoli, A.; Verati, C.; Bertrand, H.; Chiariad, M.; Reisberg, L.; Bellieni, G.; Ernesto, M.
40Ar/39Ar ages and geochemistry of Maranhão CAMP tholeiites (Brazil): implications for low and high-Ti basalts sources

18:30–18:45; EGU2008-A-00482; GMPV27-1TH5O-005
Callegaro, S.; Cuppone, T.; Brownlee, S.; Cirilli, S.; Bertrand, H.; Mahmoudi, A.; Youbi, N.; Bellieni, G.; Renne, P.; Marzoli, A.
Circum-Atlantic CAMP volcanism at the Triassic-Jurassic boundary

18:45–19:00; EGU2008-A-08448; GMPV27-1TH5O-006
Ganino, C.; Arndt, N.T.; Svensen, H.; Zhou, M.-F.
Magma-sediment interaction is responsible for the environmental impact of large igneous provinces

19:00 END OF SESSION

GMPV29 Dissolution and Precipitation of carbonates

Convener: Köhler, S.
Co-Convener(s): Dietzel, M., Mackay, E.
Lecture Room 19
Chairperson: KÖHLER, S.J.

8:30–8:45; EGU2008-A-04640; GMPV29-1TH1O-001
Dieckmann, G.S.; Nehrke, G.; Papadimitriou, S.; Göttlicher, J.; Steininger, R.; Kennedy, H.; Wolf-Gladrow, D.; Thomas, D.N.
Calcium carbonate as ikaite crystals in Antarctic sea ice

8:45–9:00; EGU2008-A-02028; GMPV29-1TH1O-002
Bucca, M.; Köhler, S.J.; Dietzel, M.; Tang, J.
Homogeneous precipitation of metal carbonates (Ba, Ca, Cd, Pb, Zn) using a CO₂ diffusion technique: kinetics and characterization.

9:00–9:15; EGU2008-A-06331; GMPV29-1TH1O-003
Neumann, M.; Epple, M.
Preparation of the metastable phases amorphous calcium carbonate (ACC) and calcium carbonate hexahydrate (ikaite) and their transformation into stable calcium carbonate phases

9:15–9:30; EGU2008-A-12417; GMPV29-1TH1O-004
Martinoda, A.; Neville, A.; Euvrad, M.; Sorbie, K.
In-situ analyses of CaCO₃ deposition on a metal surface

9:30–9:45; EGU2008-A-07493; GMPV29-1TH1O-005
Vavouraki, A.I.; Putnis, C.V.; Putnis, A.; Koutsoukos, P.G.
Nanoscale observations of crystal growth of calcite in the presence of sulfate ions: An AFM study.

9:45–10:00; EGU2008-A-05250; GMPV29-1TH1O-006
Fernández-Díaz, L.; Rodríguez-Blanco, J.D.; Prieto, M.
The kinetics of the solvent-mediated transformation of gypsum into calcite

10:00 END OF SESSION

GMPV29 Dissolution and Precipitation of carbonates – Posters

Convener: Köhler, S.

Co-Convener(s): Dietzel, M., Mackay, E.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 13:30–15:00

Poster Area Hall A

Chairperson: DIETZEL, M.

A0072; EGU2008-A-00311; GMPV29-1TH3P-0072

Pérez-Garrido, C.; Astilleros, J.M.; Fernández-Díaz, L.; Prieto, M.

Nanoscale observations of growth and dissolution processes on calcite {10-14} in contact with Mn-bearing aqueous solutions

A0073; EGU2008-A-03289; GMPV29-1TH3P-0073

Schmidt, N.; Drossou, A.; Antia, A.

Calcification by marine organisms (CalMarO)

A0074; EGU2008-A-04418; GMPV29-1TH3P-0074

Onac, B. P.; Effenberger, H. S.

Authigenic burbankite in the Cioclovina Cave sediments (Romania)

A0075; EGU2008-A-05607; GMPV29-1TH3P-0075

Balan, E.; **Calas, G.;** Morin, G.; Galois, L.; Beaucaire, C.; Cabrera, J.

Spectroscopic study of the incorporation of manganese in calcites from sediments and fissure fillings from Tournemire (Aveyron, France): inferences on redox conditions during calcite formation.

A0076; EGU2008-A-06087; GMPV29-1TH3P-0076

Logvina, E.; **Matveeva, T.;** Mazurenko, L.; van Weering, T.C.E.; Ivanov, M.; Stadnitskaia, A.; Blinova, V. Stable carbon and oxygen isotope compositions of methane-derived carbonates from different fluid venting locations

A0077; EGU2008-A-06261; GMPV29-1TH3P-0077

Nebel, H.; Eppler, M.

Crystallization of phase-pure anhydrous calcium carbonate polymorphs with a modular crystallization reactor

A0078; EGU2008-A-06647; GMPV29-1TH3P-0078

Morad, S. ; Sirat, M.

Coarse-crystalline fracture-filling calcite and dolomite in Tertiary carbonate rocks from the United Arab Emirates: record of fluid flow history in sedimentary basins

A0079; EGU2008-A-06665; GMPV29-1TH3P-0079

Mavromatis, V.; Schmidt, M.; Botz, R.; Liebetrau, V.

Laboratory determination of Mg-calcite oxygen isotope fractionation at low temperatures (20–80°C)

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 15:30–17:00

Poster Area Hall A

Chairperson: MACKAY, E.

A0080; EGU2008-A-08241; GMPV29-1TH4P-0080

Dietzel, M.; Tang, J.; Leis, A.; Köhler, S.J.

Stable oxygen isotope fractionation during inorganic precipitation of calcite: Effect of precipitation rate and pH

A0081; EGU2008-A-08482; GMPV29-1TH4P-0081

Declercq, J.; Oelkers, E.H.; Aagaard, P.

Experimental determination of dawsonite precipitation rates and their application to CO₂ sequestration

A0082; EGU2008-A-09466; GMPV29-1TH4P-0082

Niedermayr, A.; Dietzel, M.; Köhler, S. J.; Leis, A.

Inhibition of CaCO₃ precipitation – experimental study

A0083; EGU2008-A-09644; GMPV29-1TH4P-0083

Kele, S.; Demény, A.; Özkul, M.; Gökgöz, A.; Fórizs, I.; Siklósy, Z.; Alcicek, M.C.

Non-equilibrium fractionations during travertine deposition, or a new equilibrium line?

A0084; EGU2008-A-10771; GMPV29-1TH4P-0084

Mittermayr, F.; Bauer, C.; Klammer, D.; Dietzel, M.; Köhler, S.; Böttcher, M.; Leis, A.

Formation of Thaumasite by Sulphate Attack (TSA) – Application of Stable Isotopes

A0085; EGU2008-A-11700; GMPV29-1TH4P-0085

Suresh Kumar, K.; Kersten, M.

Crystallization and solid solution formation of Mg-/Zn-/Cu-Al (CO₃) hydrotalcite

A0086; EGU2008-A-12416; GMPV29-1TH4P-0086

Jordan, M.; Mackay, E.

Scale Control in Chalk Reservoirs: The Impact of Reservoir Processes, Chemical Placement and Retention - from the Laboratory to the Field

IS19 - GMPV26/TS10 Volcano tectonics (co-organized by GMPV & TS)

Convener: Gudmundsson, A.

Co-Convener(s): Acocella, V., Vinciguerra, S.

Lecture Room 22

Chairperson: N.N.

13:30–13:45; EGU2008-A-02706; IS19 - GMPV26/TS10-1TH3O-001

Gottsmann, J.; Marti, J.; Aguirre-Díaz, G.

Erupting batholiths: shaken or stirred?

13:45–14:00; EGU2008-A-10191; IS19 - GMPV26/TS10-1TH3O-002

Andrew, R.; **Gudmundsson, A**

Interaction between active central volcanoes in Iceland

14:00–14:15; EGU2008-A-02400; IS19 - GMPV26/TS10-1TH3O-003

Acocella, V.; Abebe, B.; Korme, T.; Barberi, F.

Structure and volcanism along Tendaho and Manda Hararo Rifts: implications for the evolution of the southern Red Sea propagator in Central Afar

14:15–14:30; EGU2008-A-02968; IS19 - GMPV26/TS10-1TH3O-004

Cassidy, J.

Temporal-spatial relationships in the Auckland volcanic field: insights from geophysical studies

14:30–14:45; EGU2008-A-07867; IS19 - GMPV26/TS10-1TH3O-005

Walter, T. R.

Volcano spreading and stress interaction with intrusion events (solicited)

14:45–15:00; EGU2008-A-04401; IS19 - GMPV26/TS10-1TH3O-006

Battaglia, M.; Hill, D.P.

Analytical modeling of gravity changes and crustal deformation at volcanoes: the Long Valley caldera (CA) case study

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-02489; IS19 - GMPV26/TS10-1TH4O-001

Geshi, N.

Asymmetric development of the Miyakejima 2000 caldera

15:45–16:00; EGU2008-A-05314; IS19 - GMPV26/TS10-1TH4O-002
Maercklin, N.; Zollo, A.; Vassallo, M.; Dello Iacono, D.; Gasparini, P.; Virieux, J.
 Seismic reflections reveal a melt layer beneath the Campi Flegrei caldera, southern Italy

16:00–16:15; EGU2008-A-06561; IS19 - GMPV26/TS10-1TH4O-003
Neri, M.; Lanzafame, G.
 Shallow dyke emplacement and related hazard during the 2007 Stromboli eruption (solicited)

16:15–16:30; EGU2008-A-10744; IS19 - GMPV26/TS10-1TH4O-004
Gudmundsson, A.; Andrew, R
 Effects of volcanoes that behave as soft, elastic inclusions on the propagation of volcanic fissures and rift zones

16:30–16:45; EGU2008-A-08905; IS19 - GMPV26/TS10-1TH4O-005
Lavallee, Y.; Meredith, P.G.; Dingwell, D.B.; Hess, K.-U.
 Seismogenic lavas: fracture and eruption forecasting. (solicited)

16:45–17:00; EGU2008-A-03885; IS19 - GMPV26/TS10-1TH4O-006
Main, I.G.; Chastin, S.; Bell, A.
 Statistical properties of volcanic earthquake populations (solicited)

17:00 END OF SESSION

IS20 - GMPV40/GD29/SM19/TS18 Plume-like instabilities in the mantle - hotspots, wetspots or displaced material from the transition zone? (co-organized by GMPV, GD, SM, & TS; co-sponsored by EAG & ILP)

Convener: Achauer, U.
 Co-Convener(s): Wilson, M.
 Lecture Room 22
 Chairperson: WILSON, M.

17:30–17:45; EGU2008-A-05775; IS20 - GMPV40/GD29/SM19/TS18-1TH5O-001
Houseman, G.
 Mantle plumes from the transition zone: triggered by lithospheric instability ? (solicited)

17:45–18:00; EGU2008-A-04568; IS20 - GMPV40/GD29/SM19/TS18-1TH5O-002
Davies, JH
 Splash Plumes

18:00–18:15; EGU2008-A-01449; IS20 - GMPV40/GD29/SM19/TS18-1TH5O-003
Laske, G.; Markee, A.; Orcutt, J.A.; Wolfe, C.J.; Solomon, S.C.; Collins, J.A.; Detrick, R.S.; Bercovici, D.A.; Hauri, E.H.
 Surface Wave Data Collected During the First Hawaiian PLUME OBS Deployment (solicited)

18:15–18:30; EGU2008-A-11195; IS20 - GMPV40/GD29/SM19/TS18-1TH5O-004
Timm, C.; Hoernle, K.; Werner, R.; Hauff, F.; van den Boogard, P.; White, J.; Mortimer, N.
 The Origin of Intraplate Volcanism on Zealandia (solicited)

18:30–18:45; EGU2008-A-07737; IS20 - GMPV40/GD29/SM19/TS18-1TH5O-005
Brevik, A. J.; Faleide, J. I.; Mjelde, R.
 Enigmatic Neogene magmatism NE of Iceland - major magmatic underplating off the Norwegian margin.

18:45–19:00; EGU2008-A-11261; IS20 - GMPV40/GD29/SM19/TS18-1TH5O-006
Sági, T.; Harangi, S.; Ntaflos, T.
 Petrogenesis of the Late Miocene-Pliocene alkali mafic rocks of the Pannonian Basin – inferences from the olivine compositions

19:00 END OF SESSION

Friday

GMPV02 Fluids in mantle and deep crust: physico-chemical and geomechanical perspective – Posters

Convener: Aranovich, L.
 Co-Convener(s): Heinrich, W., Perchuk, L., Safonov, O.
 Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
 Poster Area Hall A
 Chairperson: N.N.

A0001; EGU2008-A-00040; GMPV02-1FR1P-0001
Perchuk, L. L.; Van Reenen, D.D.
 Role of fluid in the formation of high-grade polymetamorphic rocks

A0002; EGU2008-A-00143; GMPV02-1FR1P-0002
Butvina, V.G.; Safonov, O.G.; Litvin, Yu.A.
 Experimental study of eclogite partial melting under influence of the H₂O-CO₂-KCl fluid at 5 GPa

A0003; EGU2008-A-00898; GMPV02-1FR1P-0003
Safonov, O.G.; Perchuk, L.L.; Litvin, Yu.A.; Chertkova, N.V.
 Experimental model for alkalic chloride-rich liquids in the upper mantle.

A0004; EGU2008-A-01251; GMPV02-1FR1P-0004
 Dmitrievsky, A.; **Balanyuk, I.;** Akivis, T.; Chaikina, O.; Balanyuk, M.
 Influence of crustal fluids on formation of fractured-cavernous-porous collectors on great depths

A0005; EGU2008-A-01085; GMPV02-1FR1P-0005
Lebedeva, J.; Dubinina, E.; Aranovich, L.; Avdeenko, A.; Bushmin, S.; Dolivo-Dobrovolsky, D.
 Fluid-present granulite facies metamorphism: evidence from oxygen isotopes, Porya Guba shear zone, Lapland Granulite Belt. (solicited)

A0006; EGU2008-A-04133; GMPV02-1FR1P-0006
Mirwald, P. W.
 Anomalous high pressure behaviour of H₂O evidenced by dehydration reactions, H₂O compression and ice melting experiments

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A
 Chairperson: N.N.

A0007; EGU2008-A-05582; GMPV02-1FR2P-0007
Painsi, M.; Diamond, L.W.
 Immiscibility boundaries and isochores for two mixtures of water, carbon dioxide and sodium chloride determined from synthetic fluid inclusions

A0008; EGU2008-A-08117; GMPV02-1FR2P-0008
John, T.; Podladchikov, Y.; Beinlich, A.; Klemd, R.
 Drying porosity waves: add fluids to dry up

A0009; EGU2008-A-08367; GMPV02-1FR2P-0009

Azimov, P.

Petrological Signs of the Fluid Flow in Metamorphic Rocks of the Northern Karelian Greenstone Belt (Eastern Fennoscandia) (solicited)

A0010; EGU2008-A-10468; GMPV02-1FR2P-0010

Gasc, J.; Brunet, F.; Corvisier, J.; Verlaquet, A.; Findling, N.; Lathe, C.; Goffé, B.

Experimental insight into the effect of water activity on mineral reaction rates at high pressure and temperature

A0011; EGU2008-A-11239; GMPV02-1FR2P-0011

Petitgirard, S.; Daniel, I.; Sanchez-Valle, C.; Simionovici, A.; Susini, J.; Cardon, H.

In-situ measurements of the dissolution of strontianite in salted fluids at high pressure and high temperature

A0012; EGU2008-A-11801; GMPV02-1FR2P-0012

Schmahl, W. W.

Martensitic Phase Transitions and Shape Memory

GMPV03 Water in solids of the Earth's crust and mantle: from the storage capacities to its influence on physical properties (co-sponsored by EAG) – Posters

Convener: Ohtani, E.

Co-Convener(s): BOLFAN-CASANOVA, N., Koch-Müller, M.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A

Chairperson: OHTANI, E.

A0013; EGU2008-A-06312; GMPV03-1FR1P-0013

Ganskow, G.; Langenhorst, F.; Frost, D.

Stability of hydrous ringwoodite in the (Mg₁Fe₁)SiO₄ – H₂O system

A0014; EGU2008-A-09631; GMPV03-1FR1P-0014

Ferrot, A.; Bolfan-Casanova, N.

Effect of temperature and Al content on water solubility in periclase

A0015; EGU2008-A-12058; GMPV03-1FR1P-0015

Bolfan-Casanova, N.; Yamazaki, D.; Sakaguchi, C.; Matsuzaki, T.; Henot, J.M.; Katsura, T.

Effect of Water on Grain Growth in Perovskite + Ferropericlae Assemblage

A0016; EGU2008-A-04330; GMPV03-1FR1P-0016

Zhao, Y.; Xu, H.; Hickmott, D.; Zhang, J.; Daemen, L.; Vogel, S.

High P-T Neutron Diffraction Studies of Hydrous Minerals

A0017; EGU2008-A-05462; GMPV03-1FR1P-0017

Mueller, H.J.; Schilling, F.R.; Lathe, C.; Wehber, M.

Techniques for measuring the elastic Properties of hydrous Minerals and Melts in Multi-Anvil Devices

A0018; EGU2008-A-12052; GMPV03-1FR1P-0018

Ulmer, G.C.; Woermann, E.

Thermodynamic Price Tags for A Wet Mantle

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: OHTANI, E.

A0019; EGU2008-A-12054; GMPV03-1FR2P-0019

Woermann, E.; Ulmer, G.C.; Eriksson, G.; Saxena, S.K.

Oxygen Fugacity in the Laboratory and in Terrestrial Systems

A0020; EGU2008-A-04204; GMPV03-1FR2P-0020

Ingrin, J.; Ferrot, A.

Results of H-D exchange experiments in forsterite

A0021; EGU2008-A-01832; GMPV03-1FR2P-0021

Deon, F.; Koch-Müller, M.; Hövelmann, J.; Rhede, D.; Thomas, S.M.

Coupled Boron and Hydrogen Incorporation in Coesite

A0022; EGU2008-A-03602; GMPV03-1FR2P-0022

Thomas, S.-M.; Koch-Müller, M.; Reichart, P.; Rhede, D.; Thomas, R.

IR Calibrations for Water in Olivine and SiO₂ Polymorphs

A0023; EGU2008-A-00403; GMPV03-1FR2P-0023

Geiger, C.A.; Paukov, I.E.; Kovalevskaya, Yu.A.

Confined H₂O in Micro/Mesoporous Silicates: Bonding, Vibrational and Thermodynamic Behavior

A0024; EGU2008-A-04265; GMPV03-1FR2P-0024

Bocor, N.; Alexander, C.

Volatile Abundances And H Isotope signatures Of Melt Inclusions And Nominally Anhydrous Minerals In SNC Martian Meteorites

GMPV06 Island arc magmatism: from source input to volcanic output (co-sponsored by EAG) – Posters

Convener: Müntener, O.

Co-Convener(s): Ulmer, P.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A

Chairperson: ULMER, P. MÜNTENER, O.

A0025; EGU2008-A-04145; GMPV06-1FR1P-0025

Grimmer, J.C.; **Greiling, R.O.**

Origin of silicic island-arc volcanic rocks from the Lower Köli Nappe, north-central Swedish Caledonides

A0026; EGU2008-A-05004; GMPV06-1FR1P-0026

Shi, G.; Tropper, P.; Zhu, R.

The occurrence of magnesioferrite-rich spinel xenocrysts in the Mesozoic Jianguo andesite (W-Liaoning Province, NE China): implications for the oxidation state of the upper mantle underneath the North China Craton

A0027; EGU2008-A-09287; GMPV06-1FR1P-0027

Alagna, K E; Peccerillo, A; Poli, G

East-directed subduction, erosion of overriding continental crust and the genesis of Western Mediterranean lamproites

A0028; EGU2008-A-02146; GMPV06-1FR1P-0028

Styles, K; Eberhart-Phillips, D; Stuart, G; Reyners, M; Chadwick, M

Three-dimensional Qs structure of the Hikurangi subduction zone, central North Island, New Zealand

A0029; EGU2008-A-02800; GMPV06-1FR1P-0029

Hart, M.; Fisher, J.; Leng, M.; Smart, C.; Sparks, S.; Talling, P.; Tofimovs, J.

Tephrochronology of marine sediments around the island of Montserrat, Lesser Antilles Volcanic Arc: the key to episodic volcanism and turbidite flow dynamics?

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: N.N.

A0030; EGU2008-A-04326; GMPV06-1FR2P-0030
Karrei, L.I.; Mungall, J.E.; Jenner, F.; Arculus, R.J.; Mavrogenes, J.A.
Elevated Pt, Pd and Au concentrations in high-Ca boninites, northern Tonga arc: evidence for residual monosulfide solid solution

A0031; EGU2008-A-07046; GMPV06-1FR2P-0031
Ivanov, A.V.; Perepelov, A.B.; Demonerova, E.I.; Grib, E.N.; Paleskii, S.V.; Nikolaeva, I.V.
Three types of PGE spectra in basalts of Kamchatka

A0032; EGU2008-A-00821; GMPV06-1FR2P-0032
Belousov, I.; Sobolev, A.; Batanova, V.
Processes in the mantle wedge: evidence from clinopyroxene and olivine geochemistry of mantle section rocks from Voykar Ophiolite (Polar Urals) (cancelled)

A0033; EGU2008-A-04922; GMPV06-1FR2P-0033
Yamaoka, K.; Kawahata, H.; Nagaishi, K.; Ishikawa, T.
Boron contents of the altered oceanic crust from the Oman ophiolite

A0034; EGU2008-A-06648; GMPV06-1FR2P-0034
Spandler, C.; Hermann, J.; Faure, K.; Mavrogenes, J.; Arculus, R.
The importance of talc and chlorite 'hybrid' rocks for volatile recycling through subduction zones; evidence from the high-pressure melange of New Caledonia

GMPV07 Metamorphic and magmatic trends in subduction/collision zones

Convener: Gerya, T.
Co-Convener(s): Perchuk, L.
Lecture Room 22
Chairperson: GERYA, T.

8:30–9:00; EGU2008-A-01282; GMPV07-1FR1O-001
Brown, M.
One-sided subduction, extreme crustal metamorphism and tectonothermal regimes on Earth (solicited)

9:00–9:30; EGU2008-A-05426; GMPV07-1FR1O-002
Castro, A.; Moreno-Ventas, A.I.
Generation of ferrosilicic magmas by near-total melting of turbiditic sediments at ultrahigh temperatures (1000–1200 °C): Experimental constraints and implications (solicited)

9:30–9:45; EGU2008-A-05074; GMPV07-1FR1O-003
Faccenda, M.; Gerya, T.V.; Chakraborty, S.
Mid-crustal Partial Melting, Metamorphism and Lithospheric Structure of Hot Collisional Zones from a Numerical Perspective

9:45–10:00; EGU2008-A-07354; GMPV07-1FR1O-004
Nikolaeva, K.; Gerya, T.V.; Connolly, J.A.D.; Bourdon, B.
Numerical modeling of intraoceanic subduction: from the initial stage of subduction to the crust formation

10:00 COFFEE BREAK

Chairperson: PERCHUK, L.

10:30–10:45; EGU2008-A-06591; GMPV07-1FR2O-001
Agard, P.; Yamato, P.; Jolivet, L.; Burov, E.
Exhumation of oceanic blueschists and eclogites in subduction zones: timing and mechanisms

10:45–11:00; EGU2008-A-01894; GMPV07-1FR2O-002
Li, Z.; Gerya, T.
Numerical modeling of continental subduction and UHP rocks exhumation: implications for the Sulu UHP terrane in eastern China

11:00–11:15; EGU2008-A-08915; GMPV07-1FR2O-003
Vrijmoed, J.C.; Podladchikov, Y.Y.; Andersen, T.B.
An alternative model for ultra-high pressure in the Svartberget olivine-websterite, Western Gneiss Complex, Norway

11:15–11:30; EGU2008-A-11303; GMPV07-1FR2O-004
Dabrowski, M.; Hartz, E. H.; **Podladchikov, Y. Y.**
Migmatization induced overpressure, East Greenland case study

11:30–11:45; EGU2008-A-09953; GMPV07-1FR2O-005
Faccini, B.; Coltorti, M.; Bonadiman, C.; Grègoire, M.; Siena, F.
Petrology of mantle peridotites and orthopyroxenite cumulates from Cerro del Fraile, (Argentina)

11:45–12:00; EGU2008-A-05291; GMPV07-1FR2O-006
Dolejš, D.
Redox state of the subducting slab: Thermodynamic constraints from multicomponent phase equilibria

12:00 END OF SESSION

GMPV07 Metamorphic and magmatic trends in subduction/collision zones – Posters

Convener: Gerya, T.
Co-Convener(s): Perchuk, L.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Hall A
Chairperson: PERCHUK, L.

A0035; EGU2008-A-00041; GMPV07-1FR3P-0035
Perchuk, L. L.
Origin of the triad “trench – island arc – marginal sea floor” in the light of metamorphic and magmatic processes

A0036; EGU2008-A-00055; GMPV07-1FR3P-0036
Miller, D. P.; Marschall, H. R.; Schumacher, J. C.
Metasomatic formation and petrology of mélange rocks from Syros (Greece): implications for subduction zone element cycling

A0037; EGU2008-A-00163; GMPV07-1FR3P-0037
Zareisahamieh, R.
Geochemical characteristics of the granitoid complex of Boroujerd

A0038; EGU2008-A-01024; GMPV07-1FR3P-0038
Rodnikov, A.G.
Ancient subduction zone in the Sea of Okhotsk

A0039; EGU2008-A-02147; GMPV07-1FR3P-0039
Acharya, K.K.; Thöni, M.; Grasemann, B.
Sm-Nd isotopic systematics in whole rocks of the Kathmandu and Nawakot Complexes, central Nepal

A0040; EGU2008-A-02425; GMPV07-1FR3P-0040
Mishin, Y.; Gerya, T.; Burg, J.-P.
Geodynamic trends of double subduction.

A0041; EGU2008-A-02428; GMPV07-1FR3P-0041
Mishin, Y.; Vasilyev, O.; Gerya, T.
The method for efficient calculation of phase diagrams and in situ rock properties based on 3D adaptive wavelet approach.

A0042; EGU2008-A-02877; GMPV07-1FR3P-0042
Sobissevitch, A.L.; Nechaev, Yu.V.; Sobissevitch, L.E.
The Elbrus volcano (Northern Caucasus): geodynamic position and the deep subsurface structures

A0043; EGU2008-A-05064; GMPV07-1FR3P-0043

Yamato, P.; Burov, E.; Agard, P.

Exhumation mechanisms in convergence zones: Insight from thermomechanical models (The case of the Western Alps)

A0044; EGU2008-A-06769; GMPV07-1FR3P-0044

Löw, F.I.; Gerya, T.V.

Magmatic arc development at an active margin: Numerical modelling

A0045; EGU2008-A-08068; GMPV07-1FR3P-0045

Ngo Belnoun, R.N.; Tchouankoue, J.P.; Koller, F.; Thoeni, M.

Petrology, mineralogy, and geochemistry of Kekem mafic complex, western Cameroon

A0046; EGU2008-A-09637; GMPV07-1FR3P-0046

Bruand, E.; Stüwe, K.; Proyer, A.; Powell, R.

Phase diagrams for the eclogite from Koralpe

A0047; EGU2008-A-10014; GMPV07-1FR3P-0047

Grassi, D.; Schmidt, M.W.

Carbonated pelites in the upper mantle (8-22GPa)

GMPV08 Controls on metamorphic processes

Convener: Chakraborty, S.

Co-Convener(s): Abart, R., Gaidies, F.

Lecture Room 22

Chairperson: CHAKRABORTY, S.

13:30–14:00; EGU2008-A-01000; GMPV08-1FR3O-001

Ague, J.

Metamorphic processes: what do we really know? (solicited)

14:00–14:15; EGU2008-A-09944; GMPV08-1FR3O-002

Wheeler, J.; Llana-Funez, S.; Faulkner, D.; Healy, D.

Dehydration reactions and stress

14:15–14:30; EGU2008-A-08768; GMPV08-1FR3O-003

Llana-Fúnez, S.; Rutter, E.; Brodie, K.

Experimental dehydration and deformation of serpentinite under controlled pore pressure

14:30–14:45; EGU2008-A-08191; GMPV08-1FR3O-004

John, T.; Vrijmoed, J.C.; van der Straaten, F.; Podladchikov, Y.; Jamtveit, B.

Hydration of eclogite at the slab-wedge interface: an example of fluid infiltration into a swelling system

14:45–15:00; EGU2008-A-11572; GMPV08-1FR3O-005

Camacho, A.; Yang, P.; Frederiksen, A.

Constraints on the duration of high-strain deformation in the lower crust

15:00 COFFEE BREAK

Chairperson: GAIDIES, F.

15:30–15:45; EGU2008-A-08395; GMPV08-1FR4O-001

Traskine, V.; Skvortsova, Z.; Muralev, A.

Pressure solution creep under cyclic loading

15:45–16:00; EGU2008-A-09686; GMPV08-1FR4O-002

Padrón-Navarta, J. A.; Garrido, C. J.; Sánchez-Navas, A. Oriented growth of garnet by topotactic reactions in high-Pressure, mafic garnet granulite during dehydration melting of hornblende-gabbro-norite

16:00–16:15; EGU2008-A-09457; GMPV08-1FR4O-003

Vrijmoed, J.C.; Austrheim, H.; John, T.; Podladchikov, Y.Y. Metasomatism of the UHP Svartberget olivine-websterite body in the Western Gneiss Complex, Norway

16:15–16:30; EGU2008-A-01971; GMPV08-1FR4O-004

Phillips, G.; Offler, R.; Hand, M.

The affect of bulk rock chemistry and fugacity on phase equilibria in low-temperature moderate-high-pressure metamorphic environments

16:30–16:45; EGU2008-A-08997; GMPV08-1FR4O-005

Konrad-Schmolke, M.; Zack, T.; O'Brien, P.J.; Jakob, D.

Major- and Trace-element modelling in Garnet along Eclogite P-T Paths

16:45–17:00; EGU2008-A-05222; GMPV08-1FR4O-006

Franzolin, E.; Schmidt, M.W.

CaCO₃-MgCO₃-FeCO₃ phase diagram at upper mantle P,T conditions

17:00 END OF SESSION

GMPV08 Controls on metamorphic processes – Posters

Convener: Chakraborty, S.

Co-Convener(s): Abart, R., Gaidies, F.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A

Chairperson: ABART, R.

A0048; EGU2008-A-00262; GMPV08-1FR1P-0048

Bento dos Santos, T.; Munhá, J.; Tassinari, C.; Fonseca, P.; Dias Neto, C.

Metamorphic evolution of central Ribeira Belt (SE Brazil) based on pseudosections and P-T-t paths

A0049; EGU2008-A-10877; GMPV08-1FR1P-0049

Habler, G.; Thöni, M.; Grasemann, B.

Deformation-related reaction and (re)equilibration processes: Natural examples from the southern Ötztal-Stubaï Complex (Eastern Alps, Italy/Austria)

A0050; EGU2008-A-00780; GMPV08-1FR1P-0050

Gaidies, F.; de Capitani, C.; Abart, R.; Krenn, E.; Schuster, R.

Numerical simulation of garnet growth with THERIA_G: theory and applications

A0051; EGU2008-A-04149; GMPV08-1FR1P-0051

Mirwald, P. W.; Scola, M.; Tropper, P.

Experimental study on the incorporation of Na in Mg-cordierite in the presence of different fluids (Na(OH), NaCl-H₂O, albite-H₂O)

A0052; EGU2008-A-05012; GMPV08-1FR1P-0052

Tropper, P.; Manning, C.

Experimental constraints on the role of brines in the transformation of granulite-facies metapelites to eclogites

A0053; EGU2008-A-05017; GMPV08-1FR1P-0053

Kunze, R.; **Tropper, P.;** Konzett, J.

The gabbro-eclogite transformation as a function of fO₂: constraints on the gabbro-eclogite transition in the Bärenfelsen metagabbros (Koralpe, Eastern Alps, Austria)

A0054; EGU2008-A-09922; GMPV08-1FR1P-0054

Marocchi, M.; Mair, V.; Tropper, P.; Bargossi, G.M.

Metasomatism in the Hochwart peridotite (Ulten Zone, Italy): a natural window into the processes affecting crust-mantle interaction at subduction zones

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: GAIDIES, F.

A0055; EGU2008-A-11097; GMPV08-1FR2P-0055

Bousquet, R.; Oberhänsli, R.; Moazzen, M

Understanding of the mineralogy of jadeitites: natural and theoretical studies from a new occurrence of blue jade (Sorkhan area, Iran)

A0056; EGU2008-A-10768; GMPV08-1FR2P-0056

Dégi, J.; Abart, R.; Török, K.

The role of Fe–Ti-oxides in the study of lower crustal garnet granulite xenoliths from the Central Pannonian Basin

A0057; EGU2008-A-10921; GMPV08-1FR2P-0057

Milke, R.; Kolzer, K.; Abart, R.

Reaction rim growth in a thermal gradient

A0058; EGU2008-A-06091; GMPV08-1FR2P-0058

Abart, R.; Fischer, F.D.

Thermodynamic model for diffusion controlled reaction rim growth in spherical geometry: Application to the forsterite-enstatite-quartz system

A0059; EGU2008-A-07582; GMPV08-1FR2P-0059

Petrishcheva, E.; Abart, R.

Spinodal decomposition in ternary feldspar.

GMPV11 The multi-functional roles of accessory minerals in metamorphic and igneous processes – Posters

Convener: Harlov, D.

Co-Convener(s): Finger, F.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: N.N.

A0060; EGU2008-A-00722; GMPV11-1FR2P-0060

Jesábek, P.; Janák, M.; Faryad, W.S.; Finger, F.; Konečný, P. Polymetamorphic evolution of pelitic schists and an evidence for Permian low-pressure metamorphism in the Vepor Unit, West Carpathians

A0061; EGU2008-A-04670; GMPV11-1FR2P-0061

Majka, J.; Pr¹ek, J.; Budzyñ, B.

Stability of REE, Y and Nb-Ta accessory minerals in the presence of fluids: An example from southern Svalbard

A0062; EGU2008-A-05029; GMPV11-1FR2P-0062

Korsakov, A.V.; Travin, A.V.; Yudin, D.S.; Marschall, H.R.; Kozmenko, O.A.

40Ar/39Ar dating of K-tourmaline from the Kokchetav UHP massif

A0063; EGU2008-A-06860; GMPV11-1FR2P-0063

Malitch, K.N.; Belousova, E.A.; Petrov, O.V.; Griffin, W.L.; Pearson, N.J.; Tuganova, E.V.

Magma sources in economic and non-economic ultramafic-mafic intrusions of the Noril'sk area (Russia): constraints from U-Pb and Hf isotope data on zircon

A0064; EGU2008-A-01429; GMPV11-1FR2P-0064

Hovis, G.; Mott, A.; Roux, J.

Solvus reversals and related thermodynamic mixing properties of nepheline-kalsilite crystalline solutions having elevated excess silicon

A0065; EGU2008-A-10231; GMPV11-1FR2P-0065

Kristaly, F.; **Zaharia, L.**

Chromite alteration in serpentinite bodies from southern Banat region, SW Romania

A0066; EGU2008-A-03914; GMPV11-1FR2P-0066

Putz, H.; **Krenn, E.**; Finger, F.

Hydrothermal low-T in-situ formation of mm-sized euhedral monazite-(Ce) and synchysite-(Ce) within decomposing pegmatitic allanite-(Ce) megacrystals

A0067; EGU2008-A-05024; GMPV11-1FR2P-0067

Thöny, W.F.; Wyhlidal, S.; **Tropper, P.**

Minor element variations across the Permian contact aureole of the Brixen granodiorite (Franzensfeste, S-Tyrol, Italy)

A0068; EGU2008-A-07203; GMPV11-1FR2P-0068

Schneider, P.; **Tropper, P.**

Extremely P-rich olivines from a prehistoric sacrificial burning site (Goldbichl, Igls, Tyrol, Austria)

A0069; EGU2008-A-06105; GMPV11-1FR2P-0069

Krismer, M.; Vavtar, F.; Tropper, P.

Fahlore reaction textures and compositional variations from the Schwaz-Brixlegg mining district (Tyrol, Austria)

A0070; EGU2008-A-06674; GMPV11-1FR2P-0070

Pascal, M.L.; Di Muro, A.; Boudouma, O.; Fontelles, M.; Principe, C.

Zirconolite, calzirtite, baddeleyite, betafite, geikielite and qandilite in skarn ejecta from Vesuvius - inferences for the magma-wallrock interactions.

A0071; EGU2008-A-07673; GMPV11-1FR2P-0071

Paszkowski, M.; **Kusiak, M.A.**; Budzyn, B.; Gmur, D.; Konecny, P.; Wolkowicz, T.

Application of EPMA dating of detrital monazite for age verification of the Carboniferous sandstone clasts from the Carpathian flysch

A0072; EGU2008-A-08345; GMPV11-1FR2P-0072

Budzyn, B.; Kusiak, M.A.; Dunkley, D.; Poprawa, P.; Malata, T.

SHRIMP dating of zircon in crystalline rocks clasts from the Carpathian flysch

A0073; EGU2008-A-09472; GMPV11-1FR2P-0073

Hippe, K.; Hammerschmidt, K.; Dobmeier, C.

Evidence of metamorphic zircon growth in Zr-depleted nepheline syenite

A0074; EGU2008-A-03693; GMPV11-1FR2P-0074

Yudovskaya, M.; Distler, V.; Rodionov, N.; Mokhov, A.; Sergeev, S.

Ion microprobe U-Pb dating of gold mineralization and low-grade metamorphism (the Sukhoi Log gold deposit, Russia)

GMPV12 Redox signature of minerals, melts and glasses: analysis, experiments and models – Posters

Convener: Wilke, M.

Co-Convener(s): Moretti, R.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A

Chairperson: WILKE, M.

A0075; EGU2008-A-04974; GMPV12-1FR1P-0075

Volovetsky, M.; Rusakov, V.; Lukanin, O.; Kargaltsev, A.

Experimental study of fO₂ influence on oxidation and structural state of iron in pantelleritic melt.

A0076; EGU2008-A-07214; GMPV12-1FR1P-0076

Valenti, P.; Dingwell, D.B.

The effect of redox state on the viscosity of an Fe-rich phonolitic liquid.

A0077; EGU2008-A-10559; GMPV12-1FR1P-0077
Wilke, M.; Botcharnikov, R.E.; Jugo, P.J.
Sulfur and Iron oxidation state in quenched melts as a function of oxygen fugacity

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: WILKE, M.

A0078; EGU2008-A-10966; GMPV12-1FR2P-0078

Moretti, R.; Baker, D.R.

Modeling the interplay of fO₂ of fS₂ along the FeS-silicate melt equilibrium

A0079; EGU2008-A-07695; GMPV12-1FR2P-0079

Bordage, A.; Balan, E.; Brouder, Ch.; Juhin, A.; Eeckhout, S.G.; De Villiers, J.P.R.; Calas, G.

Redox state of vanadium in the titanomagnetite layers of the Bushveld complex

A0080; EGU2008-A-09238; GMPV12-1FR2P-0080

Wagner, C.; Fialin, M.; Deloule, E.; King, PL

In situ Fe³⁺/Fe(total) measurements in Ti-rich mantle-derived amphiboles: results and limitations as evidenced by EMP and SIMS.

GMPV13 Phase transitions in mineralogical systems: from theory to experimental and natural observations

Convener: Salje, E.

Co-Convener(s): Nestola, F., Cámara, F., El Goresy, A., Langenhorst, F.

Lecture Room 22

Chairperson: NESTOLA, F.

17:30–18:00; EGU2008-A-05683; GMPV13-1FR5O-001

Prewitt, C.

Crystallography of mineral phase transitions (solicited)

18:00–18:15; EGU2008-A-01186; GMPV13-1FR5O-002

Schranz, W.; Tröster, A.; Koppensteiner, J.

Application of Landau theory to high pressure phase transitions (solicited)

18:15–18:30; EGU2008-A-06348; GMPV13-1FR5O-003

Kasama, T.; Church, N.; Feinberg, J.; Dunin-Borkowski, R.; **Harrison, R.**

Direct observation of the interaction between elastic and magnetic domain walls below the Verwey transition in magnetite using electron holography (solicited)

18:30–18:45; EGU2008-A-12040; GMPV13-1FR5O-004

Schmahl, W. W.

Martensitic Phase Transitions and Shape Memory (solicited)

18:45–19:00; EGU2008-A-04095; GMPV13-1FR5O-005

Gatta, G. D.; Rotiroli, N.; Boffa-Ballaran, T.; Pavese, A.

Leucite at high-pressure: elastic behaviour and phase stability

19:00 END OF SESSION

GMPV13 Phase transitions in mineralogical systems: from theory to experimental and natural observations – Posters

Convener: Salje, E.

Co-Convener(s): Nestola, F., Cámara, F., El Goresy, A., Langenhorst, F.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Hall A

Chairperson: NESTOLA, F.

A0081; EGU2008-A-01627; GMPV13-1FR3P-0081

Salje, E.K.H

Phase transitions and percolation behaviour in minerals (cancelled)

A0082; EGU2008-A-05417; GMPV13-1FR3P-0082

Li, L.; **Weidner, D.;** Brodholt, J.; Alfe, D.; Price, D

Molecular dynamics model of CaSiO₃ perovskite: insights into the ferroelastic transition

A0083; EGU2008-A-04012; GMPV13-1FR3P-0083

Nemeth, P.; **Tribaudino, M.;** Buseck, P.

Non-periodic fluctuations of the displacive order parameter and phase transitions in pyroxene and plagioclase

A0084; EGU2008-A-02298; GMPV13-1FR3P-0084

Riedel, M.R.

Metastability, elastic energies, and kinetic scaling of high-pressure polymorphic phase transformations

A0085; EGU2008-A-10220; GMPV13-1FR3P-0085

Alvaro, M.; Nestola, F.; Boffa Ballaran, T.; Cámara, F.; Domeneghetti, M.C.; Tazzoli, V.

HP-phase transition of natural P21/c pigeonite: spontaneous strain and structure evolution

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Hall A

Chairperson: N.N.

A0086; EGU2008-A-08200; GMPV13-1FR4P-0086

Iezzi, G.; Della Ventura, G.; Tribaudino, M.; Nemeth, P.; Margiolaki, I.; Cavallo, A.; Beherens, H.; Gaillard, F.

Phase transitions at ambient and high-T along the amphibole join richterite – “magnesian richterite”

A0087; EGU2008-A-12402; GMPV13-1FR4P-0087

Pöllmann, H.

Measurement and Description of water in synthetic Ettringite and Kuzelite

A0088; EGU2008-A-03557; GMPV13-1FR4P-0088

Korsakov, A.V. ; Zhimulev, E.I.; Demin, S.P.; Kozmenko, O.A.

Different mechanisms of diamond-graphite transformation: an experimental study

A0089; EGU2008-A-07498; GMPV13-1FR4P-0089

ter Heege, J.H.; Renner, J.

In situ impedance spectroscopy on pyrophyllite and CaCO₃ at high pressure and temperature: Phase transformations and kinetics of atomistic transport

GMPV15 Combined analysis of micro- nano-structures and chemistry of geomaterials: advanced imaging and microanalysis – Posters

Convener: Wirth, R.
Co-Convener(s): Calas, G.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A
Chairperson: N.N.

A0090; EGU2008-A-09070; GMPV15-1FR1P-0090
Miyajima, N.; Holzapfel, C.; Asahara, Y.; Dubrovinsky, L.; Rubie, D.
A preparation method of TEM specimens using combined techniques of Focused Ion Beam milling and conventional Ar-milling

A0091; EGU2008-A-10706; GMPV15-1FR1P-0091
Mittermayr, F.; Konzett, J.; Hauzenberger, C.; Kaindl, R.; Schmidner, A.
Trace element distribution, solid- and fluid inclusions in untreated Mong Hsu rubies

A0092; EGU2008-A-08598; GMPV15-1FR1P-0092
Prikryl, R.; Prikrylova, J.; Novotna, M.
Mineralogy and petrography of medieval hydraulic mortars: a key factor to understand the medieval technology of inorganic binders manufacture

GMPV25 Volcano flank instability – Posters

Convener: PUGLISI, G.
Co-Convener(s): Walter, T.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
Poster Area Hall A
Chairperson: PUGLISI, G.

A0093; EGU2008-A-07766; GMPV25-1FR1P-0093
Le Corvec, N.; **Walter, T. R.**
Flank instability and internal deformation on volcanic islands: An experimental study of the coupling between gravitational spreading and rift-zone intrusion

A0094; EGU2008-A-02417; GMPV25-1FR1P-0094
Puglisi, G.; Acocella, V.
Integrated study to define the hazard of the instable flanks of Etna: the DPC-INGV 2008-2009 project

A0095; EGU2008-A-06863; GMPV25-1FR1P-0095
Puglisi, G.; Palano, M.; Gresta, S.
Post-eruptive deformation on the eastern flank of Mt. Etna following the 2002-03 eruption

A0096; EGU2008-A-09930; GMPV25-1FR1P-0096
Carbone, D.; D'Amico, S.; **Musumeci, C.**
New insights into the dynamics of the upper east flank of Etna through a joint analysis of seismic and gravity data (1994 – 2006)

A0097; EGU2008-A-07527; GMPV25-1FR1P-0097
Madonia, P.; Lodato, L.; Olivares, L.; Tommasi, P.; Costa, M.; Madonia, I.
Shallow fluid circulation at Vulcano Island (Aeolian Islands, Italy): a possible trigger for flank instability?

A0098; EGU2008-A-10246; GMPV25-1FR1P-0098
Bonforte, A.; Cantarero, M.; Nunnari, G.; Puglisi, B.; Puglisi, G.; Rossi, M.; Spata, A.
Topographic monitoring of the 2007 lava fan in the Sciara del Fuoco, Stromboli Island (Sicily)

A0099; EGU2008-A-09079; GMPV25-1FR1P-0099
Boulesteix, T.; Hildenbrand, A.; Kelfoun, K.; Soler, V.; Gillot, P.Y.
Influence of landslide geometry on the dynamics of large debris-avalanches: a comparative study on Tenerife and Tahiti volcanic islands.

Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Hall A
Chairperson: WALTER, T.

A0100; EGU2008-A-10653; GMPV25-1FR2P-0100
Camacho, A.G.; Fernandez, J.; Gonzalez, P.J.; Rundle, J.B.; Prieto, J.F.; Arjona, A.
Structural results for La Palma Island using 3D gravimetric inversion

A0101; EGU2008-A-03773; GMPV25-1FR2P-0101
Bell, A.; Kilburn, C.
Rift-zone dyke injection triggered by transient flank slip events: evidence from volcano-tectonic seismicity

A0102; EGU2008-A-07876; GMPV25-1FR2P-0102
Salaün, A.; Villemant, B.; Gérard, M.; Komorowski, J.-C.; Michel, A.; Louvat, P.; Manhès, G.
Hydrothermal systems of andesitic volcanoes: a window on shallow depth magmatic activity – mineralogical and geochemical insights

A0103; EGU2008-A-07802; GMPV25-1FR2P-0103
Le Friant, A.; Boudon, G.; Arnulf, A.; Robertson, R.
Debris avalanche deposits offshore St Vincent (West Indies): impact of flank-collapse events on the morphological evolution of the volcano

A0104; EGU2008-A-07949; GMPV25-1FR2P-0104
Boudon, G.; Le Friant, A.; Villemant, B.
Effects of large flank collapse events on the magma production and evolution of volcanoes: Examples from the Lesser Antilles Arc

A0105; EGU2008-A-04196; GMPV25-1FR2P-0105
Foeken, J.; Day, S.; Stuart, F.
Rift zone reorganisation and flank collapse on Fogo (Cape Verde): New constraints from cosmogenic ³He exposure dating

A0106; EGU2008-A-10654; GMPV25-1FR2P-0106
Belousova, M.; Belousov, A.
Toreva blocks – peculiar deposits of large-scale landslides on volcanoes: examples from Kamchatka (Russia). (cancelled)

GMPV27 Large igneous provinces and their impact on life and environment – Posters

Convener: Self, S.
Co-Convener(s): CHENET, A.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
Poster Area Hall A
Chairperson: N.N.

A0107; EGU2008-A-00484; GMPV27-1FR1P-0107
Schmidt, A.; Carslaw, K.; Mann, G.; Wilson, M.
Modelling the atmospheric impacts of the 1783-1784 Laki eruption in Iceland as a basis for modelling the impacts of continental flood basalt eruptions

A0108; EGU2008-A-12425; GMPV27-1FR1P-0108
Blackford, J.; Payne, R.; Presthus-Heggen, M.; de la Riva Caballero, A.; van der Plicht, J.
Impacts of the c. 3,400 BP Aniakhak II eruption on a distal peatland

A0109; EGU2008-A-00087; GMPV27-1FR1P-0109

Yan, Q.; Shi, X.; Xiao, L.

Major, trace element, and Sr, Nd and Pb isotope studies of Cenozoic basalts from the South China Sea: origin and significance

GMPV31 Advances in stable isotope geochemistry applied to magmatic and metamorphic systems (co-listed in IG)

Convener: Dallai, L.

Co-Convener(s): Macpherson, C.

Lecture Room 19

Chairperson: DALLAI, L.

8:30–8:45; EGU2008-A-02465; GMPV31-1FR1O-001

Müller, T.; Watson, E.B.

A conceptual model for kinetically controlled isotope fractionation by fast growing minerals

8:45–9:00; EGU2008-A-09604; GMPV31-1FR1O-002

Jourdan, A.-L.; Vennemann, T.W.; Mullis, J.; Ramseier, K.

Face-related differential partitioning of oxygen isotopes in low temperature quartz

9:00–9:15; EGU2008-A-07447; GMPV31-1FR1O-003

Heijboer, T.C.; Vennemann, T.W.

Preliminary results for hydrogen isotope fractionation Experiments between Mg-Chlorite and molecular Hydrogen at low Temperatures and Pressures

9:15–9:30; EGU2008-A-11376; GMPV31-1FR1O-004

Dini, A.

Boron isotope fractionation in pegmatite systems: the role of aluminoborosilicate compounds in melts and aqueous fluids

9:30–9:45; EGU2008-A-12259; GMPV31-1FR1O-005

Macpherson, C.G.; Handley, H.K.; Edwards, C.

Oxygen isotope fractionation in tholeiitic and calc-alkaline magma, Gunung Guntur, west Java, Indonesia

9:45–10:00; EGU2008-A-01242; GMPV31-1FR1O-006

Peccerillo, AP

Source vs. magma contamination in the Plio-Quaternary magmatism in Italy: oxygen and radiogenic isotope constraints

10:00 END OF SESSION

GMPV31 Advances in stable isotope geochemistry applied to magmatic and metamorphic systems (co-listed in IG) – Posters

Convener: Dallai, L.

Co-Convener(s): Macpherson, C.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Hall A

Chairperson: N.N.

A0110; EGU2008-A-01307; GMPV31-1FR3P-0110

Sharkov, E.; Bortnikov, N.; Abramov, S.; Simonov, V.; Krinov, D.; Scolotnev, S.; Beltenev, V.

Hydrothermal-magmatic system in the Mid-Atlantic Ridge, 60 N (Markov Deep)

A0111; EGU2008-A-07073; GMPV31-1FR3P-0111

Mitterpergher, S.; Dallai, L.; Di Toro, G.; Pennacchioni, G.

Hydrogen isotopes in pseudotachylite-bearing faults of the Adamello batholith, Italy: the origin of fluids at seismogenic depth

A0112; EGU2008-A-07691; GMPV31-1FR3P-0112

Sigmarsson, O.; Rose-Koga, E. F.

In-situ isotope study of Icelandic tephra: new petrogenetic constraints from comparison of three isotope systems B-O-Th

A0113; EGU2008-A-09067; GMPV31-1FR3P-0113

Tomilenko, A.; **Dublyansky, Y.;** Koviadin, S.

Isotope composition of magmatic calcite from kimberlite pipe Udachnaya-Vostochnaya, Yakutia, Russia

A0114; EGU2008-A-09341; GMPV31-1FR3P-0114

Demény, A.; Casillas, R.; Vennemann, T.W.; Hegner, E.;

Nagy, G.; Sipos, P.; de la Nuez, C.; Ahijado, A.; Martin, C.

Trace Element and H-O-Sr Isotope Compositions in Basal Complex Rocks of La Gomera, Canary Islands: from Magmatic Processes to Meteoric Water Interactions

A0115; EGU2008-A-10599; GMPV31-1FR3P-0115

Dallai, L.; Di Rocco, T.; Gaeta, M.; Freda, C.; Deloule, E.; Tiepolo, M.

Stable isotope composition of carbonated cumulates from the Alban Hills, Italy

A0116; EGU2008-A-11186; GMPV31-1FR3P-0116

Bychkov, A.Yu.; Matveeva, S.S.

Carbon Isotope Fractionation of Fluid during Tungsten Ore Formation

GMPV33 Noble gas isotope geochemistry: 25 years on from Ozima and Podosek (co-sponsored by EAG, co-listed in IG)

Convener: Stuart, F.

Co-Convener(s): Niedermann, S., Burnard, P.

Lecture Room 19

Chairperson: N.N.

10:30–10:45; EGU2008-A-02348; GMPV33-1FR2O-001

Ozima, M.; Podosek, F.

More questions after 25 years from Ozima-Podosek (solicited)

10:45–11:00; EGU2008-A-04737; GMPV33-1FR2O-002

Aeschbach-Hertig, W.; Friedrich, R.; Kluge, T.; Kreuzer, A. Noble gases in paleoclimate archives (solicited)

11:00–11:15; EGU2008-A-03931; GMPV33-1FR2O-003

Paonita, A.; Martelli, M.

Equilibrium versus non-equilibrium magmatic degassing of noble gases from mid-ocean ridges: inferences on magma dynamics and upper mantle composition (solicited)

11:15–11:30; EGU2008-A-07576; GMPV33-1FR2O-004

Stroncik, N. A.; Niedermann, S.; Haase, K.M.

Plume-ridge interaction revisited: Evidence for mixing of melts from He, Ne and Ar isotope and abundance systematics

11:30–11:45; EGU2008-A-02327; GMPV33-1FR2O-005

Sano, Y.; Tokutake, T.; Furukawa, Y.; Takahata, N.

Precise measurement of atmospheric helium isotopes (cancelled)

11:45–12:00; EGU2008-A-09192; GMPV33-1FR2O-006

Heber, V.S.; Baur, H.; Burnett, D.S.; Reisenfeld, D.B.; Wieler, R.; Wiens, R.C.

Helium, Neon, and Argon in Solar Wind Regimes Collected by the Genesis Mission: A first Attempt to Reveal Solar Abundances of Noble Gases

12:00 END OF SESSION

GMPV33 Noble gas isotope geochemistry: 25 years on from Ozima and Podosek (co-sponsored by EAG, co-listed in IG) – Posters

Convener: Stuart, F.
Co-Convener(s): Niedermann, S., Burnard, P.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0117; EGU2008-A-03189; GMPV33-1FR3P-0117
Martelli, M.; Nuccio, P.M.; Stuart, F.M.; Ellam, R.E.
Constraints on mantle source and interactions from helium-strontium isotope variations in Italian volcanism

A0118; EGU2008-A-07461; GMPV33-1FR3P-0118
Roscioglione, A.; Nuccio, P.M.; Paonita, A.; Rizzo, A.
Noble gases investigation in fluid inclusions of olivines and pyroxenes from Etnean products erupted in the 2001-2004 period

A0119; EGU2008-A-05839; GMPV33-1FR3P-0119
Sumino, H.; Ikehata, K.; Shimizu, A.; Nagao, K.; Nakada, S.
Magmatic processes of Unzen volcano revealed by laser microprobe analyses of noble gases in zero-age plagioclase phenocrysts

A0120; EGU2008-A-07924; GMPV33-1FR3P-0120
Kruesmann, T.; Niedermann, S.; Stronck, N.A.; Erzinger, J.
Neon, helium and argon isotope systematics of the Hawaiian hotspot

A0121; EGU2008-A-09701; GMPV33-1FR3P-0121
Stuart, F.M.; Basu, S.
Implications for the deep Earth from the He-Ne-Ar isotope composition of earliest basalts from the Iceland plume

A0122; EGU2008-A-10627; GMPV33-1FR3P-0122
BASU, S.; Stuart, F.
Helium isotopes in ferromanganese crusts

A0123; EGU2008-A-11636; GMPV33-1FR3P-0123
Cuna, S.; Balas, G.; Magdas, A.; Szilagyi, E.
The study of the noble gases trapped in the meteorite from Chesau, Romania

A0124; EGU2008-A-09357; GMPV33-1FR3P-0124
Suckow, A.; Groening, M.; Jaklitsch, M.; Han, L.-F.; Aggarwal, P.
The Noble Gas Facility for Isotope Hydrology at IAEA, Vienna: Goals, technical Principles and first Results

A0125; EGU2008-A-08243; GMPV33-1FR3P-0125
Fourré, E.; Jean-Baptiste, P.; Allard, P.; Parello, F.; Calabrese, S.; Gaubi, E.; Ben Mamou, A.
Helium isotopes in groundwater and thermal waters of Tunisia: relationship to tectonics and geology

A0126; EGU2008-A-08741; GMPV33-1FR3P-0126
Mark, D; **Barford, D.;** Ingram, J; Stuart, F; Hamilton, D
The ARGUS multi-collector mass spectrometer

A0127; EGU2008-A-11618; GMPV33-1FR3P-0127
Sato, K.; Kumagai, H.; Tamura, H.; Hirano, N.; Danhara, T.
K-Ar, Ar-Ar, FT ages and degassing process of two type of andesitic magma

GMPV34 Ore deposit geochemistry and the magmatic to hydrothermal transition

Convener: Mungall, J.
Co-Convener(s): Hanley, J.
Lecture Room 19
Chairperson: N.N.

13:30–14:00; EGU2008-A-09133; GMPV34-1FR3O-001
Audétat, A.
Fluid–melt partitioning in experiments and nature (solicited)

14:00–14:30; EGU2008-A-06185; GMPV34-1FR3O-002
Pettke, T.; Klemm, L.M.; Harris, C.R.; Heinrich, C.A.
The use of porphyry-stage fluid compositional data obtained by LA-ICP-MS to constraining source magma chemistry and processes (solicited)

14:30–15:00; EGU2008-A-01463; GMPV34-1FR3O-003
Kamenetsky, V.
Melt/fluid immiscibility in common magmas: melt inclusion approach and implications (solicited)

15:00 END OF SESSION

GMPV34 Ore deposit geochemistry and the magmatic to hydrothermal transition – Posters

Convener: Mungall, J.
Co-Convener(s): Hanley, J.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Hall A
Chairperson: N.N.

A0128; EGU2008-A-01466; GMPV34-1FR2P-0128
Kamenetsky, V.; Vasyukova, O.
Quartz and fluid inclusions from porphyry deposits: were hydrosilicate liquids involved?

A0129; EGU2008-A-02151; GMPV34-1FR2P-0129
Erkoyun, H.; Kadir, S.
Genesis of beryllium in the Miocene Kizilcaören fluorite, barite and rare-earth-element complex ore deposit and surrounding units,

A0130; EGU2008-A-02606; GMPV34-1FR2P-0130
Vignerresse, JL
Chemical characterization of the fluid phase in magmatic intrusions with applications to ore generation

A0131; EGU2008-A-02953; GMPV34-1FR2P-0131
Wang, C.; Cheng, Q.; Zhang, S.; Deng, J.; Xie, S.
Identification of superimposition of exhalative sedimentary and magmatic hydrothermal mineralization of Sn in the Da Hinggan Mountains, China

A0132; EGU2008-A-04055; GMPV34-1FR2P-0132
Marques, A.F.; Scott, S.D.; Barriga, F.; Fouquet, Y.
Magmatic to hydrothermal transition in the Menez Gwen and Lucky Strike seafloor hydrothermal systems, Azores hotspot, Mid-Atlantic ridge

A0133; EGU2008-A-04341; GMPV34-1FR2P-0133
Mungall, JE; Karrei, LI; Jenner, F; Arculus, RJ; Mavrogenes, JA
Platinum, palladium and gold depletion in boninitic arc magmas during fractional crystallization - what is the role of immiscible fluids?

A0134; EGU2008-A-04773; GMPV34-1FR2P-0134

Mustart, D.; Horigan, M.

Hydrothermal pipes in eight granitic plutons in California: Evidence for evolution and migration of a magmatic volatile phase in epizonal silicic intrusions

A0135; EGU2008-A-05435; GMPV34-1FR2P-0135

Gongalskiy, B.I.; Krivolutskaya, N.A.; Yushin, A.A.

Udokan-Chiney ore magmatic system with superlarge concentrations of copper in sedimentary and magmatic rocks (Eastern Siberia, Russia)

A0136; EGU2008-A-05873; GMPV34-1FR2P-0136

Esmaily, D.; Haghnazar, M

Trace and rare earth elements geochemistry in tungsten-bearing quartz-tourmaline veins and tourmaline mineral separates from Nezamabad area, western Iran: implication for tungsten genesis

A0137; EGU2008-A-06049; GMPV34-1FR2P-0137

Ishimaru, S.; Arai, S.

Metal phases in an oxidized mantle peridotite xenolith from Avacha volcano of Kamchatka arc

A0138; EGU2008-A-06092; GMPV34-1FR2P-0138

Krimer, M.; Vavtar, F.; Tropper, P.

Petrology of the Pfunderer Berg Cu-Deposit (S-Tyrol, Italy): a high-temperature ore deposit associated with Permian contact metamorphism in the Southalpine basement

A0139; EGU2008-A-07082; GMPV34-1FR2P-0139

Marques, A.F.; Scott, S.D.; Relvas, J.M.; Rosa, C.J.; Barriga, F.

Sn and Cu in melt inclusions of the Alvernoa felsic volcanic centre, Iberian Pyrite Belt, Portugal: seeking the missing (magmatic) link

A0140; EGU2008-A-07094; GMPV34-1FR2P-0140

Iatan, E.L.

Cathodoluminescence petrography and fluid inclusions study of some quartz samples from Rosia Montana epithermal Au-Ag deposit, Metaliferi Mountains, Romania

A0141; EGU2008-A-08246; GMPV34-1FR2P-0141

Sushchevskaya, T.M.

Large Sn,Sn-W deposits (Solnechnoye, Iultin, Khiganskoye, Far East of Russia): genetic features from stable isotope and fluid inclusions data

A0142; EGU2008-A-10223; GMPV34-1FR2P-0142

Afshooni, S.F.; **Esmaily, D.**

The microthermometry study of fluid inclusions in mineralized veins of Astaneh granitoid rocks (Markazi province, western Iran)

A0143; EGU2008-A-10658; GMPV34-1FR2P-0143

Mittermayr, F.; Konzett, J.; Tropper, T.

A comparison of natural and experimental fracture healing in corundum

A0144; EGU2008-A-10692; GMPV34-1FR2P-0144

Eldursi, k. ; Guillou-Frottier, L.; Branquet, Y.; Marcoux, E. Numerical investigation of hydrothermal processes around magmatic bodies: heat transfer and fluid circulations leading to mineralization patterns.

A0145; EGU2008-A-10739; GMPV34-1FR2P-0145

Krivolutskaya, N.A.; Gongalskiy, B.I.; Tushentsova, I.N.; Kuzmin, D.V.; Svirskaya, N.M.; Rudakova, A.V.; Khranov, I.V.; Kononkova, N.N.

Internal structure, rock composition and sulfide mineralization of Maslovskoe deposit (Norila'sk region, Siberia, Russia)

A0146; EGU2008-A-11574; GMPV34-1FR2P-0146

Chaplygin, I.V.; Yudovskaya, M.A.; Dubinina, E.O.; Tessalina, S.V.

Sources of fluid and rare metals at magmatic degassing on Kudriavsky volcano, Kuriles, Russia

A0147; EGU2008-A-00156; GMPV34-1FR2P-0147

Tayebbe, R.

Evaluation of total chromium and iron in some underground waters of the richest mines of ferrochrome at the northeast of Iran

GMPV35 Chemical weathering: processes and rates (co-sponsored by EAG)

Convener: Gaillardet, J.

Co-Convener(s): Gislason, S., Meunier, J., Aiuppa, A.

Lecture Room 19

Chairperson: GAILLARDET, J.

15:30–15:45; EGU2008-A-12419; GMPV35-1FR4O-001

Maréchal, J.-C.; Riotte, J.; Braun, J.J.; Ruiz, L.; Kumar, M.; Varma, M.; Sekhar, M.; Ndam Ngoupayou, J.; Lagane, C. Chemical groundwater outputs from small drainage basins: two tropical examples

15:45–16:00; EGU2008-A-09849; GMPV35-1FR4O-002

Lemarchand, D.; Cividini, D.; Jacobson, A.J.

An isotopic view of rapid exchange reactions and long-term weathering: a window to reaction pathways and time of water and solutes transfer (solicited)

16:00–16:15; EGU2008-A-10747; GMPV35-1FR4O-003

Basile-Doelsch, I.; Join, J.L.; Nash, D.; Ringrose, S.; Skarpelis, N.; Ullyott, S.

Silicon isotopes fractionation in SiO₂ polymorphs formed in continental environments (solicited)

16:15–16:30; EGU2008-A-08407; GMPV35-1FR4O-004

Tipper, E. T.; Gaillardet, J.; Louvat, P.; White, A. F.

Mg isotope constraints on silicate weathering mechanisms: constraints from soil pore fluid water $\delta^{26}\text{Mg}$.

16:30–16:45; EGU2008-A-06478; GMPV35-1FR4O-005

Vance, D.; Teagle, D.A.H.; Foster, G.L.

The consequences of Quaternary changes in weathering rates for ocean chemistry and isotope geochemistry

16:45–17:00; EGU2008-A-09620; GMPV35-1FR4O-006

CIVIDINI, D.; Lemarchand, D.; Boutin, R.; Chabaux, F. How can B isotopes distinguish lithogenic from biogenic fluxes in a forested watershed?

17:00 END OF SESSION

GMPV35 Chemical weathering: processes and rates (co-sponsored by EAG) – Posters

Convener: Gaillardet, J.

Co-Convener(s): Gislason, S., Meunier, J., Aiuppa, A.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A

Chairperson: N.N.

A0148; EGU2008-A-08552; GMPV35-1FR1P-0148

Köhler, S.J.; Chabaux, F.; Laudon, H.

Competition effects and binding of trace elements (REE, U, Th and Al) to Suwannee River Fulvic Acid and organic rich soil water.

A0149; EGU2008-A-04538; GMPV35-1FR1P-0149
Blaes, E.; Pelt, E.; **Chabaux, F.**; Dosseto, A.; Buss, H.; White, A.; Brantley, S.
Transformation rates of bedrock into saprolite during spheroidal weathering (Rio Icacos basin, Puerto Rico): U-series nuclide evidence

A0150; EGU2008-A-06415; GMPV35-1FR1P-0150
Gislason, S.R.; Oelkers, E.H.; Eiríksdóttir, E.S.; Kardjilov, M.I.; Gísladóttir, G.; Sigfusson, B.; Snorrason, A.; Elefsen, S.; Hardardóttir, J.; Torssander, P.
Direct evidence of the feedback between climate and weathering (solicited)

A0151; EGU2008-A-06995; GMPV35-1FR1P-0151
Censi, P.; Zuddas, P.; Vitanza, E.; Mazzola, S.; Cuttitta, A.
Quantitative evaluation of Lanthanide release to seawater during sinking of atmospheric Fe-rich particles

A0152; EGU2008-A-07634; GMPV35-1FR1P-0152
Samouëlian, A.; Guilherme, L.R.G.; Hardy, M.; Cornu, S.
Solid phase stability in a Brazilian Ferralsol: column experiment and modelling

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A
Chairperson: N.N.

A0153; EGU2008-A-09426; GMPV35-1FR2P-0153
Pérez-Sirvent, C.; Martínez-Sánchez, M. J.; Navarro-Hervás, M. C.; García-Lorenzo, M.L.
Geochemical and mineralogical characterisation of mine waste materials submitted to semiarid climatic conditions

A0154; EGU2008-A-10387; GMPV35-1FR2P-0154
Lemarchand, E.; **Chabaux, F.**; Vigier, N.; Millot, R.; Pierret, M.C.
Lithium isotope fractionations: Evidence from Li concentrations and isotopic compositions of waters, rocks and soils in the Strengbach catchment (Vosges, France)

GMPV36 Organic and inorganic mineral surface processes

Convener: Putnis, A.
Co-Convener(s): Hochella, M.
Lecture Room 19
Chairperson: PUTNIS, A.

17:30–17:45; EGU2008-A-02519; GMPV36-1FR5O-001
Kowacz, M.; Putnis, A.
The effect of specific background electrolytes on water structure and solute hydration: consequences for crystal dissolution and growth

17:45–18:00; EGU2008-A-06772; GMPV36-1FR5O-002
Rodriguez-Blanco, J.D.; Jimenez, A.; Prieto, M.
Oriented overgrowth of pharmacolite (CaHAsO₄·2H₂O) on gypsum (CaSO₄·2H₂O)

18:00–18:15; EGU2008-A-08288; GMPV36-1FR5O-003
Mutter, A.
The Bond-Valence Deficiency Model: A new approach to describe mineral surface processes

18:15–18:30; EGU2008-A-08474; GMPV36-1FR5O-004
Jordan, G.; Merkel, C.; Pokrovsky, O.; Guichet, X.; Schmah, W.
On the effects of organic and inorganic ligands at the carbonate-water interface (solicited)

18:30–18:45; EGU2008-A-08814; GMPV36-1FR5O-005
Ruiz-Agudo, E.; Putnis, C.V.; Rodriguez-Navarro, C.
Template-directed crystallization of sulfates onto calcite

18:45–19:00; EGU2008-A-08949; GMPV36-1FR5O-006
Putnis, C.V.; Austrheim, H.; Engvik, A.; Putnis, A.
Interface-controlled epitaxial replacement processes resulting in a mechanism of fluid transport and element mobilization within the Earth

19:00 END OF SESSION

GMPV36 Organic and inorganic mineral surface processes – Posters

Convener: Putnis, A.
Co-Convener(s): Hochella, M.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 15:30–17:00

Poster Area Hall A
Chairperson: N.N.

A0155; EGU2008-A-08177; GMPV36-1FR4P-0155
Grivé, M.; Duro, L.; Gaona, X.; Colàs, E.; Rojo, I.; Rovira, M.; de Pablo, J.
Uptake of selenate by degraded cement

A0156; EGU2008-A-08938; GMPV36-1FR4P-0156
Etzel, K.; Mutter, A.; Klingl, A.; Huber, H.; Rachel, R.; Schmalz, G.; Thomm, M.; Depmeier, W.
Alteration structures of different oriented synthetic pyrite surfaces induced by Archaea: Effects of crystallographic orientation

IS19 - GMPV26/TS10 Volcano tectonics (co-organized by GMPV & TS) – Posters

Convener: Gudmundsson, A.
Co-Convener(s): Acocella, V.; Vinciguerra, S.
Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Hall A
Chairperson: N.N.

A0157; EGU2008-A-11950; IS19 - GMPV26/TS10-1FR1P-0157
Walter, TR.; Wang, R.; Acocella, V.; Neri, M.; Grosser, H.
Three volcanoes triggered: Dynamic stress interaction of the 2002 Palermo earthquake, Stromboli eruption, Panarea hydrothermal activity and Mount Etna eruption

A0158; EGU2008-A-03934; IS19 - GMPV26/TS10-1FR1P-0158
Mattia, M.; Bruno, V.; Cannavò, F.; Palano, M.; Bonaccorso, A.; Gresta, S.
Tectonic features of the Lipari-Vulcano complex (Aeolian archipelago, Italy) from ten years of dense GPS measurements

A0159; EGU2008-A-04127; IS19 - GMPV26/TS10-1FR1P-0159
Bonforte, A.; Guglielmino, F.
Transpressive tectonic strain on the Lipari-Vulcano volcanic complex and dynamics of the “La Fossa” cone (Aeolian Islands, Sicily) revealed by last GPS surveys on a dense network

A0160; EGU2008-A-02191; IS19 - GMPV26/TS10-1FR1P-0160
Chiarabba, C.; De Gori, P.; **Giampiccolo, E.**; Martinez-Arèvalo, C.; Patané, D.
3D Qp models during the Mt. Etna 2001 and 2002–2003 flank eruptions: evidence for the dike intrusion

A0161; EGU2008-A-02016; IS19 - GMPV26/TS10-1FR1P-0161

Woo, J; **Kilburn, C**

Volcano-tectonic controls on shallow magma intrusion at Campi Flegrei, southern Italy. (solicited)

A0162; EGU2008-A-09320; IS19 - GMPV26/TS10-1FR1P-0162

Di Nezza, M. ; Di Filippo, M.; Toro, B.

Shallow structure of the Colli Albani Volcanic District from gravity measurements (solicited)

A0163; EGU2008-A-10304; IS19 - GMPV26/TS10-1FR1P-0163

Andrew, R; **Gudmundsson, A**

Mechanical interaction between the fissure and graben of the 1783 Skaftareldar Eruption and the hyaloclastite Laki Mountain (solicited)

A0164; EGU2008-A-06198; IS19 - GMPV26/TS10-1FR1P-0164

GOT, J.-L.; MONTEILLER, V.; MONTEUX, J.

Understanding the large-scale deformation in shield volcanoes

A0165; EGU2008-A-05587; IS19 - GMPV26/TS10-1FR1P-0165

Hildenbrand, A.; Madureira, P.; Ornelas Marques, F.; Cruz, I.; Henry, B.; **Silva, P.**

Multi-stage evolution of a sub-aerial volcanic ridge over the last 1.3 Myr: S. Jorge Island, Azores Triple Junction (solicited)

A0166; EGU2008-A-05720; IS19 - GMPV26/TS10-1FR1P-0166

Pereira, A.; Azevedo, J.; Victória, S.; Cunha, P.; Pereira, L.; Vicente, A.; Neves, L.

Structural interpretation of Santiago Island (Cape Verde) based on remote sensing techniques

A0167; EGU2008-A-05749; IS19 - GMPV26/TS10-1FR1P-0167

Backé, G.; Dhont, D.; Nivière, B.; Hervouët, Y.

Arc and back-arc volcanism in the Central Neuquén basin: Tectonic control on the magmatic activity during the Quaternary

A0168; EGU2008-A-03694; IS19 - GMPV26/TS10-1FR1P-0168

Aguirre-Díaz, G.J.; Martí, J.; Gottsmann, J.; Tristán-González, M.; Labarthe-Hernández, G.

Welded and unwelded pyroclastic dykes of the Sierra Madre Occidental, Mexico, and Las Cañadas caldera, Tenerife (solicited)

A0169; EGU2008-A-02972; IS19 - GMPV26/TS10-1FR1P-0169

Locke, C.A.; Cassidy, J.

Geophysical signatures associated with the Auckland volcanic field, New Zealand: implications for structural control and emplacement styles

A0170; EGU2008-A-02405; IS19 - GMPV26/TS10-1FR1P-0170

Acocella, V.; Neri, M

Dike propagation in volcanic edifices: overview and possible developments

A0171; EGU2008-A-03752; IS19 - GMPV26/TS10-1FR1P-0171

Bell, A.; Kilburn, C

Patterns of accelerating rates of volcano-tectonic seismicity preceding basaltic flank eruptions

A0172; EGU2008-A-07323; IS19 - GMPV26/TS10-1FR1P-0172

Soosalu, H.; **White, R. S.;** Key, A. J.; Knox, C.; Einars-son, P.; Jakobsdottir, S.

Lower-crustal earthquakes reflect magma movements beneath the north Iceland rift near Askja (solicited)

IS20 - GMPV40/GD29/SM19/TS18 Plume-like instabilities in the mantle - hotspots, wetspots or displaced material from the transition zone? (co-organized by GMPV, GD, SM, & TS; co-sponsored by EAG & ILP) – Posters

Convener: Achauer, U.

Co-Convener(s): Wilson, M.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 10:30–12:00

Poster Area Hall A

Chairperson: N.N.

A0173; EGU2008-A-01633; IS20 - GMPV40/GD29/SM19/TS18-1FR2P-0173

Piromallo, C.; Gasperini, D.; **Macera, P.;** Faccenna, C.

A late Cretaceous contamination episode of the European-Mediterranean mantle

A0174; EGU2008-A-09723; IS20 - GMPV40/GD29/SM19/TS18-1FR2P-0174

Bonadiman, C.; Coltorti, M.; Beccaluva, L.; Siena, F.

Mantle metasomatism vs host magma interaction: the ongoing controversy
