
EGU 2008 Meeting Programme

Magnetism, Palaeomagnetism, Rock Physics & Geomaterials

Tuesday

MPRG2 Geomagnetism and Paleomagnetism - General contributions – Posters

Convener: Gilder, S.

Display Time: Tuesday, 08:00–19:30

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

Poster Area Hall A

Chairperson: N.N.

A0409; EGU2008-A-00798; MPRG2-1TU2P-0409

Saleh, A

Paleomagnetism and Geochronology studies of some Early Paleozoic rocks from Sinai Peninsula, Egypt.

A0410; EGU2008-A-01284; MPRG2-1TU2P-0410

Evans, M.E.; Correia, A.

Archaeomagnetism in Portugal

A0411; EGU2008-A-02787; MPRG2-1TU2P-0411

ANDREANI, L.; **Gattacceca, J.;** Martinez-Reyes, J.; Rangin, C.

Paleomagnetic and structural evidences for Early Oligocene transtensional deformation in Central Mexico

A0412; EGU2008-A-05623; MPRG2-1TU2P-0412

Panaiotu, C.G.; Tugui, A.; Corban, C.; Necula, C.; Morozan, A.; Jianu, D.

First paleomagnetic results from the South Harghita Mountains (East Carpathians, Romania)

A0413; EGU2008-A-06805; MPRG2-1TU2P-0413

Hrouda, F.; **Jesábek, P.;** Faryad, W.S.; Chlupáková, M.

Magnetic fabric relationship within an ultrabasic body embedded in high-pressure felsic granulite from the Moldanubian Zone, European Variscides: the effect of exhumation-related granulite-amphibolite facies metamorphism

A0414; EGU2008-A-10708; MPRG2-1TU2P-0414

Nogueira, C. R.; Moreira, M.; Terrinha, P.

Integrated fabric analysis (magnetic and petrographic) for magma flow determination of the Mafra Radial Dyke Swarm (Portugal)

A0415; EGU2008-A-04518; MPRG2-1TU2P-0415

Begus, S.; Bilc, A; Cop, R; Fefer, D; Radovan, D

Earth Magnetic Field Measurements in Slovenia

A0416; EGU2008-A-11421; MPRG2-1TU2P-0416

Thomas, M.D.

Magnetic response to geological mapping and exploration challenges in the Canadian Cordillera

A0417; EGU2008-A-06562; MPRG2-1TU2P-0417

Alimohammadi, M.; Behnia, P.; Ghorbani, M. A.; **Mozaffari Amiri, N.**

Application of SWIR and TIR spectral regions inferred from ASTER data to map the hydrothermal alteration and silicic parts accompanied by gold mineralization in the Hired mining area, southern Birjand, Iran

A0418; EGU2008-A-05356; MPRG2-1TU2P-0418

Paterson, G.; Muxworthy, A.; Roberts, A.; Mac Niocaill, C.; Viramonte, J.; Navarro, C.

Investigating the use of pyroclastics for palaeointensity determinations

A0419; EGU2008-A-05410; MPRG2-1TU2P-0419

Muxworthy, A. R.; Ridley, V.; Wang, L.; Pan, Y.; Chang, L. Comparing different methods of palaeointensity determination: a case study from the Datong volcanic province, China.

MPRG3 Thermo-hydro-mechanical coupling and imaging in rock deformation

Convener: Vinciguerra, S.

Co-Convener(s): Baud, P., Meredith, P.

Lecture Room 35

Chairperson: BENSON, P.

8:30–8:45; EGU2008-A-02790; MPRG3-1TU1O-001

Ghabezloo, S.; Sulem, J.

Thermal pressurization of a fluid-saturated granular rock

8:45–9:00; EGU2008-A-04411; MPRG3-1TU1O-002

Neuville, A.; Toussaint, R.; Schmittbuhl, J.; Flekkøy, E.G.

Hydro-thermal flows in a rough fracture

9:00–9:15; EGU2008-A-04600; MPRG3-1TU1O-003

Elsworth, D.; Marone, C.; Niemeijer, A.; Saffer, D.; Min, K.-B.; Faoro, I.; Samuelson, J.; Taron, J.; Liu, J.; Yasuhara, H.

Roles of stress and chemistry in the evolution of mechanical and transport properties of fractures and granular aggregates (solicited)

9:15–9:30; EGU2008-A-05162; MPRG3-1TU1O-004

Niemeijer, A.R.; Elsworth, D.; Marone, C.

Effects of Grain Size Distribution on the Permeability of Compacting Aggregates: Results from Rock-analogue Experiments and Microphysical Model

9:30–9:45; EGU2008-A-06272; MPRG3-1TU1O-005

Marone, C.; Saffer, D. M.; Ikari, M. J.; Haines, S.

Frictional properties and hydro-mechanical processes in clay rich fault gouge (solicited)

9:45–10:00; EGU2008-A-09143; MPRG3-1TU1O-006

Toussaint, R.; Johnsen, O.; Flekkoy, E.G.; Vinningland, J.L.; Niebling, M.; Schmittbuhl, J.; Maloy, K.J.; Goren, L.; Aharonov, E.; Sparks, D.

hydromechanical coupling in hydrofracture, sedimentation and friction weakened by fluid flow: application of hybrid granular / continuous fluid flow modeling. (solicited)

10:00 COFFEE BREAK

Chairperson: BURLINI, L.

10:30–10:45; EGU2008-A-12101; MPRG3-1TU2O-001

Settari, A.; Walters, D.A.; Bagheri, M.A.

Coupled simulation of geomechanics and multiphase flow in fractured and faulted rock masses with application to petroleum reservoirs

10:45–11:00; EGU2008-A-00263; MPRG3-1TU2O-002

Heap, M.; Baud, P.; Meredith, P

The Influence of Effective Stress and Pore Fluid Pressure on Brittle Creep in Water-Saturated Darley Dale Sandstone

11:00–11:15; EGU2008-A-07998; MPRG3-1TU2O-003
Chizhova, I.; Lobanov, K.
Logic-information methods in analysis of petrophysical diagrams of rock samples from Precambrian tectonic structures of Baltic Shield

11:15–11:30; EGU2008-A-02162; MPRG3-1TU2O-004
Renard, F.; Bernard, D.
Imaging of a rupture path by X-ray microtomography when hydro-fracturing a porous limestone (solicited)

11:30–11:45; EGU2008-A-02966; MPRG3-1TU2O-005
Prasad, M.; Batzle, M.; Kramer, K.
Applications of Acoustic Imaging to Map and Quantify Rock Deformations (solicited)

11:45–12:00; EGU2008-A-07172; MPRG3-1TU2O-006
Dresen, G.; **Stanchits, S.**
Borehole breakouts and sand production in porous sandstone

12:00 LUNCH BREAK

Chairperson: SCHUBNEL, A.

13:30–13:45; EGU2008-A-07465; MPRG3-1TU3O-001
Bornert, M.; Dautriat, J.; Gland, N.; Dimanov, A.; Raphanel, J.
Post-mortem and in-situ imaging analysis of micro-mechanisms responsible for the evolution of petrophysical properties under deviatoric stresses

13:45–14:00; EGU2008-A-08496; MPRG3-1TU3O-002
Nasseri, M.H.B.; Young, P.Y.; Mohanty, B.
Three-dimensional observation of the fracture process zone in anisotropic granitic rock by X-ray CT scan (solicited)

14:00–14:15; EGU2008-A-09433; MPRG3-1TU3O-003
Grob, M.; Schmittbuhl, J.; Santucci, S.; Maloy, K.J.; Toussaint, R.; Rivera, L.
Dynamics of an interfacial crack propagation: analyses of quake catalogs

14:15–14:30; EGU2008-A-09599; MPRG3-1TU3O-004
Sulem, J.; Famin, V.
Thermal decomposition of carbonates and fluid pressurisation during seismic slip

14:30–14:45; EGU2008-A-09691; MPRG3-1TU3O-005
Hall, S.A.; Lenoir, N.; Viggiani, G.; Bésuelle, P.; Desrues, J.
X-ray & CT and 3D digital image correlation to study localised deformation in geomaterials under triaxial compression (solicited)

14:45–15:00; EGU2008-A-09769; MPRG3-1TU3O-006
Louis, L.; Baud, P.; Rolland, A.; Wong, T.-f.
Influence of pore space heterogeneity on compaction localization: X-ray CT imaging and mercury porosimetry data

15:00 END OF SESSION

MPRG3 Thermo-hydro-mechanical coupling and imaging in rock deformation – Posters

Convener: Vinciguerra, S.
Co-Convener(s): Baud, P., Meredith, P.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
Poster Area Hall A
Chairperson: N.N.

A0420; EGU2008-A-02831; MPRG3-1TU4P-0420
Benson, P.M.; Vinciguerra, S.; Meredith, P.G.; Young, R.P.
Laboratory simulation of coupled thermo-hydro-mechanical induced microseismicity as an analogue for volcanic seismic signals

A0421; EGU2008-A-05063; MPRG3-1TU4P-0421
Suetsnova, E.
Fluid filtration and sediment compaction dynamic under a condition of local gas hydrate accumulation

A0422; EGU2008-A-08947; MPRG3-1TU4P-0422
Rinaldi, A. P.; Todesco, M.; Bonafede, M.
Ground displacement associated with hydrothermal fluid circulation

A0423; EGU2008-A-09990; MPRG3-1TU4P-0423
Trippetta, F.; Vinciguerra, S.; Collettini, C.; Meredith, P.G.
Physical properties of seismogenic Triassic Evaporites in the northern Apennines (Central Italy)

A0424; EGU2008-A-11718; MPRG3-1TU4P-0424
Wassing, B.; Ter Heege, J.; Orlic, B.
thermo-mechanical modelling of behaviour of rocks overlying a UCG cavity

A0425; EGU2008-A-03746; MPRG3-1TU4P-0425
Misra, S.; Burlini, L.
Synthetic Quartz-Muscovite rocks: preparation and microstructures

A0426; EGU2008-A-05153; MPRG3-1TU4P-0426
Zlagnan, L.; Lungu, A.; Besutiu, L.
Rock physics properties of the upper crust within Vrancea active seismic region

A0427; EGU2008-A-11131; MPRG3-1TU4P-0427
Méndez-Delgado, S.; Medina-Ferrusquia, E.L.; García-Peña, A.
Physical modelling with the GMS-2 magnetic susceptibilitymeter of Geoinstruments, Ltd.

A0428; EGU2008-A-01240; MPRG3-1TU4P-0428
Baud, P.; Vinciguerra, S.; David, C.; Cavallo, A.; Reuschlé, T.
Mechanical compaction, microstructures and physical properties in two highly porous carbonate rocks

A0429; EGU2008-A-01517; MPRG3-1TU4P-0429
King, H.; Cameron, S.; Dunsmuir, J.; Herhold, A.; Olgaard, D.; Gooch, M.
Combined diagenesis and compaction of reservoir rocks studied via X-ray tomography

A0430; EGU2008-A-03225; MPRG3-1TU4P-0430
David, C.; Menéndez, B.; Louis, L.; Mengus, J.M.
X-ray CT scanning imaging of capillary imbibition processes in intact and damaged rock samples

A0431; EGU2008-A-09511; MPRG3-1TU4P-0431
Corvisier, J.; Fabbri, A.; Bernard, S.; Brunet, F.; Schubnel, A.; Goffé, B.; Rimmelé, G.; Barlet-Gouédard, V.
Mineral distribution of carbonated Portland cement, an indicator of the coupled effects of transport, chemistry and mechanics

A0432; EGU2008-A-10065; MPRG3-1TU4P-0432
Gasc, J.; Brantut, N.; Schubnel, A.; Brunet, F.; Rouzaud, J.-N.; Müller, H.-J
Acoustic emissions imaging and synchrotron x-ray diffraction analysis of calcite at high pressure and temperature

Wednesday

MPRG9 Modelling the geomagnetic field from core to space

Convener: Lesur, V.
Co-Convener(s): Thomson, A., Kuvshinov, A.
Lecture Room 35
Chairperson: LESUR, V.

10:30–10:45; EGU2008-A-05707; MPRG9-1WE20-001
Jault, D.; Gillet, N.; Pais, A.
A grand circumpolar quasigeostrophic westward current within the Earth's core?

10:45–11:00; EGU2008-A-07476; MPRG9-1WE20-002
Wardinski, I.; Lesur, V.
Modelling secular variation and acceleration of the geomagnetic main field (solicited)

11:00–11:15; EGU2008-A-01938; MPRG9-1WE20-003
Velimsky, J.; Martinec, Z.; Soucek, O.
Global EM induction in the Earth: Inverse time-domain modelling based on the adjoint approach (solicited)

11:15–11:30; EGU2008-A-02300; MPRG9-1WE20-004
Purucker, M.
Modelling and interpretation of the African crustal magnetic field in light of possible annihilators (solicited)

11:30–11:45; EGU2008-A-09718; MPRG9-1WE20-005
Penquerc'h, V.; Chulliat, A.
Ionospheric magnetic field modelling from ground-based and satellite data

11:45–12:00; EGU2008-A-07632; MPRG9-1WE20-006
Vennerstrom, S.; Moretto, T.; Lu, G.; Christiansen, F.; Rastätter, L.; **Raeder, J.**
Modelling magnetospheric Currents and their Effect on the near Earth magnetic Field (solicited)

12:00 END OF SESSION

MPRG9 Modelling the geomagnetic field from core to space – Posters

Convener: Lesur, V.
Co-Convener(s): Thomson, A., Kuvshinov, A.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Hall A
Chairperson: KUVSHINOV, A.

A0336; EGU2008-A-03868; MPRG9-1WE4P-0336
Ballani, L.; Stromeyer, D; Greiner-Mai, H; Hagedoorn, J
Case studies for the 1991 3D-secular variation impulse at the CMB

A0337; EGU2008-A-03835; MPRG9-1WE4P-0337
Hagedoorn, J.; Greiner-Mai, H.; Ballani, L.; Stromeyer, D.
Determination of the toroidal geomagnetic field in the lower mantle considering a radial electric conductivity profile

A0338; EGU2008-A-07743; MPRG9-1WE4P-0338
Matzka, J.; **Olsen, N.;** Fox Maule, C.; Kuvshinov, A.; Sabaka, T. J.
SAADAN! The South Atlantic Anomaly Danish Magnetic Field Project

A0339; EGU2008-A-06523; MPRG9-1WE4P-0339
Schachtschneider, R.; Holschneider, M.
Error Distribution in regional Modelling of Potensial Fields from Satellite Data

A0340; EGU2008-A-06538; MPRG9-1WE4P-0340
Tomas, A. T.; Luehr, H.; Rother, M.; Manoj, C.; Olsen, N.; Watari, S.
Do solar eclipses trigger counter equatorial electrojets ?

A0341; EGU2008-A-07799; MPRG9-1WE4P-0341
Kuvshinov, A.; Olsen, N.
Mantle conductivity model derived from 7 years of CHAMP, Ørsted, and SAC-C magnetic data

A0342; EGU2008-A-07764; MPRG9-1WE4P-0342
Kuvshinov, A.; Pankratov, O.; Semenov, A.; Jackson, A.; Olsen, N.
3-D imaging of mantle conductivity based on inversion of satellite C-responses: First proof of concept

A0343; EGU2008-A-02244; MPRG9-1WE4P-0343
Balasis, G.; Velimsky, J.; Martinec, Z.; Egbert, G. D.; Daglis, I. A.; Eftaxias, K.
Advances in external source model assumptions for satellite induction studies

A0344; EGU2008-A-05466; MPRG9-1WE4P-0344
Olsen, N.; Manda, M.; Sabaka, T. J.
xCHAOS - A Magnetic Field Model Derived from Nine Years of Recent Satellite Data

A0345; EGU2008-A-01215; MPRG9-1WE4P-0345
Lesur, V.; Asari, S.; Wardinski, I.; Manda, M.
Core magnetic field models under flow constraints

A0346; EGU2008-A-08044; MPRG9-1WE4P-0346
Beggan, C.D.; Whaler, K.A.; **Macmillan, S.**
Core flow modelling from satellite-derived 'Virtual Observatories'

A0347; EGU2008-A-07944; MPRG9-1WE4P-0347
Wardinski, I.; Lesur, V.; Kuvshinov, A.; Manda, M.
The time-invariant ocean-magnetic field: Prediction and Observation

A0348; EGU2008-A-10642; MPRG9-1WE4P-0348
Costin, S.O.; Manda, M.
Modelling a marine sediment paleomagnetic record from geodynamo simulations data

A0349; EGU2008-A-00784; MPRG9-1WE4P-0349
Filippov, S.; Gromova, L.; Dremukhina, L.; Levitin, A.; Zvereva, T.
Influence of the solar wave and corpuscular radiation variation on the calculation of the secular variation of the Earth's main magnetic field

MPRG10 Magnetic anomalies, land and sea; Lithospheric sources and magnetizations

Convener: Korhonen, J.
Co-Convener(s): Thebault, E., Litvinova, T.
Lecture Room 35
Chairperson: THEBAULT, E.; KORHONEN, J.V.

8:30–8:45; EGU2008-A-06147; MPRG10-1WE10-001
Catalán, M.; Quesnel, Y.; Ishihara, T.
Compilation of marine trackline data of the world I - cleaning of the (solicited)

8:45–9:00; EGU2008-A-03234; MPRG10-1WE10-002
Ishihara, T.; Catalan, M.; Quesnel, Y.
Compilation of marine trackline data of the World II - line leveling of the cleaned GEODAS data set (solicited)

9:00–9:15; EGU2008-A-09733; MPRG10-1WE1O-003
Dymont, J

The World Digital Magnetic Anomaly Map over oceanic areas: assessment, possible improvements, and expected applications (solicited)

9:15–9:30; EGU2008-A-09963; MPRG10-1WE1O-004
Korhonen, J.V.

Continental crustal magnetization of shields and adjacent younger geological provinces.

9:30–9:45; EGU2008-A-12148; MPRG10-1WE1O-005
Litvinova, T; Petrov, O; Erincheck, J

The deep structure of the lithosphere of the Euroasian continent by magnetic data (solicited)

9:45–10:00; EGU2008-A-03292; MPRG10-1WE1O-006
Tanaka, A.; **Ishihara, T.**

Global centroid distribution of magnetized layer from World Digital Magnetic Anomaly Map

10:00 END OF SESSION

MPRG10 Magnetic anomalies, land and sea; Lithospheric sources and magnetizations – Posters

Convener: Korhonen, J.

Co-Convener(s): Thebault, E., Litvinova, T.

Display Time: Wednesday, 08:00–19:30

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

Poster Area Hall A

Chairperson: LITVINOVA, T.; KORHONEN, J. V.

A0350; EGU2008-A-02404; MPRG10-1WE3P-0350

Socias, I; Galdeano, A; Pavon, J

Gulf of Cadiz airborne magnetic survey (solicited)

A0351; EGU2008-A-06900; MPRG10-1WE3P-0351

Catalán, M.; Martín-Davila, J.; Carbó, A.

Lithospheric magnetic field mapping of the Caribbean region.

A0352; EGU2008-A-07992; MPRG10-1WE3P-0352

Gaya-Pique, L.; **Thébault, E.;** Kim, H.-R.; von Frese, R.; Chiappini, M.

R-SCHA modeling of Antarctic magnetic anomaly near-surface data (solicited)

A0353; EGU2008-A-09882; MPRG10-1WE3P-0353

Chambodut, A.; Hamoudi, M.; **Thebault, E.;** Lesur, V.

Spectral analysis of the World Digital Magnetic Anomaly Map (solicited)

A0354; EGU2008-A-12343; MPRG10-1WE3P-0354

Korhonen, J. V.; WDMAM 2008 team

World magnetic anomalies, a candidate map 1:25 000 000

A0355; EGU2008-A-12309; MPRG10-1WE3P-0355

Korhonen, J. V.; All, T.; Aaro, S.; Kihle, O.; Nevanlinna, H.; Olesen, O.; Skilbrei, J.-R.; Vaher, R.; Zhdanova, L.; Zuikova, J.

Joint Fennoscandian magnetic anomaly map projects 1980-2003: reduction and fitting of national data sets to common base

A0356; EGU2008-A-12327; MPRG10-1WE3P-0356

Lahtinen, R.; **Korhonen, J. V.**

Induced and remanent magnetization sources of WDMAM2007 anomalies in Central Fennoscandian shield

A0357; EGU2008-A-12322; MPRG10-1WE3P-0357

Vaher, R.; All, T.; **Korhonen, J. V.;** Säävuori, H.

Sources of WDMAM2007 anomalies in the vicinity of Gulf of Finland as revealed by magnetization data from basement rock samples (solicited)

A0358; EGU2008-A-12428; MPRG10-1WE3P-0358

Litvinova, T.; Petrova, A.

High quality aeromagnetic survey of the western part of the Bereng sea

A0359; EGU2008-A-12245; MPRG10-1WE3P-0359

Litvinova, T.; Glebovsky, V

New map and grid of compiled magnetic anomalies from the Arctic Ocean and adjacent continental part of the Russian Federation (solicited)

A0360; EGU2008-A-12427; MPRG10-1WE3P-0360

Litvinova, T.; Petrov, O.; Sobolev, N.; Vasiljeva, E.; Krasinsky, E.

Regional interpretation of geophysical fields of Barents Sea region

A0361; EGU2008-A-12324; MPRG10-1WE3P-0361

Litvinova, T.; Petrov, O.; Erincheck, J.; Vasiljeva, E.; Krasinsky, E.

The updated map of anomalous magnetic field of Russia and the countries CNG (Belarus, Ukraine, Azerbaijan, Georgia, Armenia, Kazakhstan, Uzbekistan, Kirghizia, Tadjikistan) Scale 1:2 500 000 (solicited)

A0362; EGU2008-A-12426; MPRG10-1WE3P-0362

Litvinova, T.; Krasinsky, E.; Erincheck, Y.

Research of dynamics of process trappean magmatism Siberia in historical development on the basis of the modern geophysical data

A0363; EGU2008-A-09605; MPRG10-1WE3P-0363

Maj, S.

A correlation between the heat flow densities and Curie depths of the Indian Craton

A0364; EGU2008-A-12333; MPRG10-1WE3P-0364

Litvinova, T.; Krasinsky, E.; Erincheck, Y.

Dynamics of trappean magmatic processes in Siberia historically and on the basis of modern geophysical data

A0365; EGU2008-A-12329; MPRG10-1WE3P-0365

Litvinova, T.; Petrov, O.; Sobolev, N.; Vasiljeva, E.; Krasinsky, E.

Regional interpretation of geophysical fields of Barents sea region

A0366; EGU2008-A-12323; MPRG10-1WE3P-0366

Litvinova, T.; Petrova, A.

High quality aeromagnetic survey of the western part of the Bereng sea

MPRG11 Time Varying magnetic Field - from reversals to jerks

Convener: Chulliat, A.

Co-Convener(s): Genevey, A., Leonhardt, R.

Lecture Room 35

Chairperson: CHULLIAT, A.

13:30–13:45; EGU2008-A-02667; MPRG11-1WE3O-001

Finlay, C.C.; Gillet, N.; Jackson, A.

Time-dependent, maximum entropy regularized core-field models from satellite data (solicited)

13:45–14:00; EGU2008-A-09913; MPRG11-1WE3O-002

Gómez-Paccard, M.; Chauvin, A.; Lanos, P.; Osete, M. L.; McIntosh, G.; Catanzariti, G.; Ruíz-Martínez, V. C.

Secular variation and evolution of the geomagnetic dipole moment in western Europe for the last two millennia. Comparison with global geomagnetic field models. (solicited)

14:00–14:15; EGU2008-A-09064; MPRG11-1WE3O-003
Leonhardt, R.; Fabian, K.; Schnepf, E.
 Global evolution of the Earth's magnetic field during the Holocene

14:15–14:30; EGU2008-A-06227; MPRG11-1WE3O-004
Biggin, A.; van Hinsbergen, D.; Langereis, C.; Straathof, G.; Haldan, M.
 Geomagnetic secular variation in the Cretaceous Normal Superchron and in the Jurassic

14:30–14:45; EGU2008-A-08376; MPRG11-1WE3O-005
Valet, J.P.; Plenier, G.; Herrero-Bervera, E.
 Geomagnetic Excursions are Aborted Reversals

14:45–15:00; EGU2008-A-01989; MPRG11-1WE3O-006
Stefani, F.; Fischer, M.; Gerbeth, G.; Guenther, U.; Sorriso-Valvo, L.
 Stochastic resonance in a noise triggered relaxation oscillation model of Earth's magnetic field reversals

15:00 END OF SESSION

MPRG11 Time Varying magnetic Field - from reversals to jerks – Posters

Convener: Chulliat, A.
 Co-Convener(s): Genevey, A., Leonhardt, R.
 Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 08:30–10:00
 Poster Area Hall A
 Chairperson: LEONHARDT, R.

A0367; EGU2008-A-00678; MPRG11-1WE1P-0367
Demina, I.; **Koroleva, T.;** Farafonova, Yu.
 The effect of the dynamics of sources of the main geomagnetic field on the spatial-time structure of secular variations of the main geomagnetic field

A0368; EGU2008-A-02554; MPRG11-1WE1P-0368
Asari, S.; Lesur, V.; Manda, M.
 Specifying geomagnetic secular variation violating frozen-flux condition at core surface

A0369; EGU2008-A-03470; MPRG11-1WE1P-0369
Lodge, A.; Holme, R.
 Developing a global geomagnetic field model for archaeomagnetic dating in Europe for the last 2000 years (updating GMADE2K.1 to GMADE2K.2).

A0370; EGU2008-A-05112; MPRG11-1WE1P-0370
Schnepf, E.
 Characterization of archaeomagnetic Jerks in Europe

A0371; EGU2008-A-08775; MPRG11-1WE1P-0371
Stark, F.; Leonhardt, R.; Faßbinder, J.; Reindel, M.
 Archeointensities from Peruvian ceramics: Implication for the occurrence of archeomagnetic jerks and their relationship to climatic changes

A0372; EGU2008-A-10564; MPRG11-1WE1P-0372
Zeeden, C.; Hambach, U.; Reddersen, B.; Fülling, A.; Hark, M.; Nowaczyk, N.; Fuchs, M.; Zöller, L.
 High resolution paleointensity records from European last glacial loess sites

A0373; EGU2008-A-05957; MPRG11-1WE1P-0373
Lanci, L.; Kissel, C.; Leonhardt, R.; Laj, C.
 Morphology of the Iceland Basin Excursion from a spherical harmonic analysis of sedimentary records

A0374; EGU2008-A-04274; MPRG11-1WE1P-0374
Korhonen, K.; **Pesonen, L. J.;** Evans, D.; Smirnov, A. N.
 A series of five criteria to test the validity of the Geocentric Axial Dipole (GAD) hypothesis in paleomagnetism

IS27 - MPRG13/G15/GD23 Small scales for potential fields - tools and models (co-organized by MPRG, G & GD)

Convener: Panet, I.
 Co-Convener(s): De Santis, A., Hipkin, R.
 Lecture Room 35
 Chairperson: PANET, I. ; DE SANTIS, A. ; HIPKIN, R.

15:30–16:00; EGU2008-A-10922; IS27 -
 MPRG13/G15/GD23-1WE4O-001
Ellmann, A.; Vanicek, P.
 Determination of regional geoid models by combining local and global datasets (solicited)

16:00–16:15; EGU2008-A-10326; IS27 -
 MPRG13/G15/GD23-1WE4O-002
Hipkin, R.
 Length scales and Stokes' integral

16:15–16:30; EGU2008-A-01296; IS27 -
 MPRG13/G15/GD23-1WE4O-003
Thébault, E.
 From 3D to 2D, the Revised Spherical Cap Harmonic Analysis can be powerful for modelling the different contributions of the geomagnetic field at various spatial and temporal scales (solicited)

16:30–16:45; EGU2008-A-05963; IS27 -
 MPRG13/G15/GD23-1WE4O-004
De Santis, A.; Qamili, E.
 Simplifying spherical cap harmonic analysis

16:45–17:00; EGU2008-A-04009; IS27 -
 MPRG13/G15/GD23-1WE4O-005
Panet, I.; Holschneider, M.; Kuroishi, Y.; Minchev, B.; de Viron, O.; Diamant, M.
 Regional wavelet modeling of the gravity field using domain decomposition methods

17:00 COFFEE BREAK

Chairperson: PANET, I. ; DE SANTIS, A. ; HIPKIN, R.

17:30–17:45; EGU2008-A-11422; IS27 -
 MPRG13/G15/GD23-1WE5O-001
Pajot, G.; de Viron, O.; Diamant, M.; Lequentrec-Lalancette, M.-F.; Mikhailov, V. O.
 Noise reduction through a joint processing of gravity and gravity gradient data (solicited)

17:45–18:00; EGU2008-A-04536; IS27 -
 MPRG13/G15/GD23-1WE5O-002
Duka, B.
 Using of a new method for geomagnetic field modeling

18:00–18:30; EGU2008-A-02302; IS27 -
 MPRG13/G15/GD23-1WE5O-003
Purucker, M.
 Combining magnetic and seismic data as a tool for basin analysis: An example from western Eurasia (solicited)

18:30–18:45; EGU2008-A-04412; IS27 -
 MPRG13/G15/GD23-1WE5O-004
Ramillien, G.; Bourgogne, S.; Biancale, R.; Lemoine, J. M.
 Surface mass anomalies derived from GRACE observations using a regional approach. Comparison with classical global solutions.

18:45–19:00; EGU2008-A-11927; IS27 -
 MPRG13/G15/GD23-1WE5O-005
De Santis, A.
 Study of local features of the geomagnetic field as contribution to understanding its global regime

19:00 END OF SESSION

IS27 - MPRG13/G15/GD23 Small scales for potential fields - tools and models (co-organized by MPRG, G & GD) – Posters

Convener: Panet, I.

Co-Convener(s): De Santis, A., Hipkin, R.

Display Time: Wednesday, 08:00–19:30

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

Poster Area Hall A

Chairperson: PANET, I. ; DE SANTIS, A. ; HIPKIN, R.

A0375; EGU2008-A-04583; IS27 - MPRG13/G15/GD23-1WE2P-0375

Besutiu, L.; DYGEF

Consistent geomagnetic models for the Romanian territory valid at the epoch 2007.5

A0376; EGU2008-A-07818; IS27 - MPRG13/G15/GD23-1WE2P-0376

Sprlak, M.; Mojzes, M.; Janak, J.

Improvement of the regional quasigeoid model in Slovakia using the combined global gravity field models

A0377; EGU2008-A-11185; IS27 - MPRG13/G15/GD23-1WE2P-0377

Ellmann, A.; Tenzer, R.; Prutkin, I.; Jürgenson, H.; Oja, T.; All, T.; Kall, T.

Application of space technologies to improve geoid and gravity field models over the Baltic countries

A0378; EGU2008-A-01851; IS27 - MPRG13/G15/GD23-1WE2P-0378

Thébault, E.; MagNetE, *.

The magnetic field in Europe for the past 40 years

A0379; EGU2008-A-10249; IS27 - MPRG13/G15/GD23-1WE2P-0379

Hipkin, R.; Bedada, T.; Hunegnaw, A

Full-resolution SRTM topographic data & regional geoid computation

A0380; EGU2008-A-08797; IS27 - MPRG13/G15/GD23-1WE2P-0380

DJamour, Y.; Soltanpour, A.; Hatam, Y.; Shafimorad, S.

Computing a precise local geoid for Iran by using gravity, GPS-leveling and geopotential models

A0381; EGU2008-A-09269; IS27 - MPRG13/G15/GD23-1WE2P-0381

Minchev, B.; Holschneider, M.; Panet, I.; Mande, M

Local magnetic field modeling with wavelets

A0382; EGU2008-A-04915; IS27 - MPRG13/G15/GD23-1WE2P-0382

Safari, A.

Fixed garvimeter-altimetry boundary value problem for geoid determination at islands

A0383; EGU2008-A-07093; IS27 - MPRG13/G15/GD23-1WE2P-0383

Mirghasempour, M.A.; Joodaki, G.

A modern Astro-Geodetic approach to determination Geoid, Case study: Iran

A0384; EGU2008-A-06254; IS27 - MPRG13/G15/GD23-1WE2P-0384

Csapó, G.; **Tóth, Gy.;** Laky, S.; Völgyesi, L.

Experiences of new Eötvös torsion balance observations and reliability tests

A0385; EGU2008-A-08702; IS27 - MPRG13/G15/GD23-1WE2P-0385

Saadat, R.; Soltanpour, A.

Atmospheric pressure effect on gravity data for Tehran's base station

Thursday

MPRG8 Magnetism, Environment and Climate : a session dedicated to the memory of Bill GOREE

Convener: Thouveny, N.

Lecture Room 34

Chairperson: N.THOUVENY

15:30–15:45; EGU2008-A-01350; MPRG8-1TH4O-001

Liddicoat, J.; Coe, R.

Mono Lake excursion in the U.S. Great Basin

15:45–16:00; EGU2008-A-05286; MPRG8-1TH4O-002

Ménabréaz, L.; Thouveny, N.; Camoin, G.; Lund, S.P

Geomagnetic field inclination and paleointensity variations recorded by the late pleistocene reef sequence of Tahiti: contribution to the chronology of the deposits

16:00–16:15; EGU2008-A-05559; MPRG8-1TH4O-003

Fabian, K.; Hofmann, D. I.; Frederichs, T.; Hilgenfeldt, C.

Correcting relative paleointensity records for compositional variation by automated discrete-sample sediment measurements on multiple cores

16:15–16:30; EGU2008-A-03954; MPRG8-1TH4O-004

Thouveny, N.; Bourlès, D.; Saracco, G.; Carcaillet, J.; Bassinot, F.

Dipole Lows and Excursions of the Brunhes epoch linked with Interglacials?

16:30–16:45; EGU2008-A-05130; MPRG8-1TH4O-005

Lee, TQ

Magnetic analyses on lacustrine sediments of Li-Yu Lake at Hualien of eastern Taiwan and its implication on paleo-environmental changes

16:45–17:00; EGU2008-A-06556; MPRG8-1TH4O-006

Kissel, C.; Laj, C.; Bolliet, T.; Holbourn, A.; Kienast, M.; Kuhnt, W.; Wandres, C

Temporal variability of the sedimentary magnetic properties off southeastern Mindanao.

17:00 COFFEE BREAK

Chairperson: KARL FABIAN

17:30–17:45; EGU2008-A-03765; MPRG8-1TH5O-001

Peters, C.; Walden, J.; Austin, WEN; Hibbert, F

Mineral magnetic signature of European margin sediments: provenance of ice-rafted debris and the climatic response of the British Ice Sheet during Marine Isotope Stages 2 and 3.

17:45–18:00; EGU2008-A-07709; MPRG8-1TH5O-002

SCHOLGER, R.

Variations of rock magnetic parameters in a Brunhes Chron loess/paleosol-sequence in Austria

18:00–18:15; EGU2008-A-03253; MPRG8-1TH5O-003

Blundell, A.; Dearing, J.A.; Boyle, J.F.; Hannam, J.A.

Production of high resolution topsoil magnetic variability maps for England and Wales and an initial assessment of the importance of soil forming factors upon magnetic enhancement.

18:15–18:30; EGU2008-A-06777; MPRG8-1TH5O-004

Franke, C.; Priadi, C.; Robin, E.; Kissel, C.; Bonte, P.; Ayrault, S.; Bonville, P.

Characterisation of magnetic particles in the Seine river system : Implications for the determination of natural versus anthropogenic input

18:30–18:45; EGU2008-A-00791; MPRG8-1TH5O-005
Saleh, A

The Application of magnetic susceptibility in determination of the fly-ash pollution of soils around Qarun Lake, El Fayoum: a case study in Egypt.

18:45–19:00; EGU2008-A-03291; MPRG8-1TH5O-006

Lázaro, F.J.; Gutiérrez, L.; Barrón, V.; Gelado, M.D.
Magnetic and optical properties of aerosol particles collected on filters in the northeastern subtropical Atlantic (Canary Islands)

19:00 END OF SESSION

MPRG8 Magnetism, Environment and Climate : a session dedicated to the memory of Bill GOREE – Posters

Convener: Thouveny, N.

Display Time: Thursday, 08:00–19:30

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

Poster Area Hall A

Chairperson: N.N.

A0422; EGU2008-A-01680; MPRG8-1TH2P-0422

Iorio, M.; Liddicoat, J.; Budillon, F.; Coe, R.; Marsella, E.
Climatic and sea level control on late Neogene sedimentation inferred from palaeomagnetic secular variation dating. An example from eastern Tyrrhenian margin

A0423; EGU2008-A-00538; MPRG8-1TH2P-0423

Vazquez, G.; Ortega, B.
Environmental magnetism from Zirahuén lake sediments, Michoacán, Mexico

A0424; EGU2008-A-02432; MPRG8-1TH2P-0424

Torrent, J.; Cabello, E.; Barrón, V.; Liu, Q.S.
Environmental significance of the maghemite/hematite relationship in aerobic soils

A0425; EGU2008-A-03080; MPRG8-1TH2P-0425

Pilipenko, O.; Abrahamsen, N.; Sharonova, Z.
Environmental changes paleomagnetically recorded in Late Quaternary sediments (Karadja Range, Azerbaijan)

A0426; EGU2008-A-03173; MPRG8-1TH2P-0426

Bondar, K.; **Virshylo, I.;** Ridush, B.
Secular variation record and magnetic properties of Holocene deposits from Emine-Bair-Khosar Cave (Crimea, Ukraine)

A0427; EGU2008-A-04451; MPRG8-1TH2P-0427

Ortega, B.; Caballero, M.; Lozano, S.; Rodriguez, A.; Vazquez, G.
Lacustrine magnetic mineralogy records for the last 2000 yr. from tropical Mexico.

A0428; EGU2008-A-06037; MPRG8-1TH2P-0428

Haltia-Hovi, E.; Saarinen, T.; Nowaczyk, N.; Plessen, B.
Mineral and paleomagnetic record of Lake Lehmilampi (Finland)

A0429; EGU2008-A-06657; MPRG8-1TH2P-0429

Sroubek, P.; Diehl, J.F.; Kadlec, J.
Historical climatic record from flood sediments deposited in the interior of Spiralka Cave, Czech Republic

A0430; EGU2008-A-10688; MPRG8-1TH2P-0430

Hambach, U.; Rolf, C.; Weidenfeller, M.
Rock magnetic evidence for the Plio-/Pleistocene palaeoclimatic change and for Pleistocene climatic cyclicity recorded in Upper Rhine Graben sediments

A0431; EGU2008-A-07220; MPRG8-1TH2P-0431

Blanchet, C.L.; Broder, T.; Goldhammer, T.
Sedimentary dynamics off Cape Ghir margin (Morocco). Clues from magnetic and geochemical properties

IS26 - MPRG12/ST18 Long-term trends in geomagnetic data (co-organized by MPRG & ST)

Convener: Macmillan, S.

Co-Convener(s): Clilverd, M., Ulich, T.

Lecture Room 34

Chairperson: N.N.

8:30–8:45; EGU2008-A-11491; IS26 - MPRG12/ST18-1TH1O-001

Chulliat, A.; Allgeyer, S.
Long term evolution of geomagnetic indices at the Chambon la Forêt, Val Joyeux and Parc St Maur observatories

8:45–9:00; EGU2008-A-11745; IS26 - MPRG12/ST18-1TH1O-002

Mursula, K.; Martini, D.
New Indices of Geomagnetic Activity at Test: Comparing the Correlation of the analogue a_k Index with the digital A_h and I_H Indices at the Sodankylä Station

9:00–9:15; EGU2008-A-10215; IS26 - MPRG12/ST18-1TH1O-003

Kis, A.; Lemperger, I.; Koppan, A.; Prodan, T.; Szendroi, J.; Vero, J.; Wessztergom, V.
The geoelectric activity index T: five decades of observation at Nagycenk, Hungary

9:15–9:30; EGU2008-A-07022; IS26 - MPRG12/ST18-1TH1O-004

Demetrescu, C.; Dobrica, V.
Long-term trends in geomagnetic observatory data: ingredients of the observed field, consequences on recent secular variation

9:30–9:45; EGU2008-A-11163; IS26 - MPRG12/ST18-1TH1O-005

Menvielle, M.
On the long term variation of geomagnetic activity as described by the a_a indices

9:45–10:00; EGU2008-A-07111; IS26 - MPRG12/ST18-1TH1O-006

Lukianova, R.; Alekseev, G.; Ivanov, N.
Statistical characteristics of variability in the long-term records of solar proxies

10:00 END OF SESSION

IS26 - MPRG12/ST18 Long-term trends in geomagnetic data (co-organized by MPRG & ST) – Posters

Convener: Macmillan, S.

Co-Convener(s): Clilverd, M., Ulich, T.

Display Time: Thursday, 08:00–19:30

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

Poster Area Hall A

Chairperson: N.N.

A0432; EGU2008-A-06011; IS26 - MPRG12/ST18-1TH3P-0432

Clilverd, M.; Clark, E.; Jarvis, M.; Ulich, T.
Reconstructing the A_a index to 1400 AD.

A0433; EGU2008-A-01341; IS26 - MPRG12/ST18-1TH3P-0433

Mirmomeni, M.; Lucas, C.; Araabi, B N

Developing an alarm system for space weather hazards using the variation of chaotic characteristics of solar activity indices

A0434; EGU2008-A-03144; IS26 - MPRG12/ST18-1TH3P-0434

Daglis, I. A.; Balasis, G.; Kapis, P.; Di Fiore, B.; Baumjohann, W.; Magnes, W.; Anastasiadis, A.; Georgiou, M.

A new European low-latitude magnetometer array for space weather applications

A0435; EGU2008-A-04201; IS26 - MPRG12/ST18-1TH3P-0435

Charvatova, I.; Hejda, P.

The aa-index since 1844 in relation to solar inertial motion and its prediction

A0436; EGU2008-A-04807; IS26 - MPRG12/ST18-1TH3P-0436

Guglielmi, A.; Zotov, O.

Long-term trend in Pc1 weekend effect according to geomagnetic data collected by the Borok Geophysical Observatory

A0437; EGU2008-A-07628; IS26 - MPRG12/ST18-1TH3P-0437

Dobrica, V.; Demetrescu, C.

Mapping the secular variation. Significance of various trends in data

A0438; EGU2008-A-08734; IS26 - MPRG12/ST18-1TH3P-0438

Macmillan, S.; Hamilton, B.

Long-term trends in geomagnetic daily variation

A0439; EGU2008-A-08784; IS26 - MPRG12/ST18-1TH3P-0439

Maksyutin, S.V.; Sherstyukov, O.N.

Long-term trends in E-sporadic layer frequency parameters.

11:45–12:00; EGU2008-A-02389; IS28 - MPRG14/GD32/PS3.9-1TH2O-005

Quesnel, Y.; Langlais, B.; Costin, S.; Manda, M.; Sotin, C. Serpentinization of the Martian crust during Noachian

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–14:00; EGU2008-A-12098; IS28 - MPRG14/GD32/PS3.9-1TH3O-001

Spohn, T. ; Breuer, D.

Magnetism and Thermal History of the Terrestrial Planets - Revisited (solicited)

14:00–14:15; EGU2008-A-08103; IS28 - MPRG14/GD32/PS3.9-1TH3O-002

Tackley, P. J.; Nakagawa, T.; Keller, T.; Aurnou, J. M.

Numerical simulations of coupled core-mantle evolution of Earth and other terrestrial planets (solicited)

14:15–14:30; EGU2008-A-08583; IS28 - MPRG14/GD32/PS3.9-1TH3O-003

Labrosse, S.; Coltice, N.; Hernlund, J.

The basal magma ocean and the delayed onset of the geodynamo

14:30–14:45; EGU2008-A-12239; IS28 - MPRG14/GD32/PS3.9-1TH3O-004

Butler, S.L.; Costin, S.O.

The effects of a conducting layer in D'' on the Earth's thermal and magnetic evolution

14:45–15:00; EGU2008-A-07511; IS28 - MPRG14/GD32/PS3.9-1TH3O-005

Breuer, D.; Hussmann, H.; Spohn, T.

The magnetic dichotomy of the Galilean satellites Europa and Ganymede

15:00 END OF SESSION

IS28 - MPRG14/GD32/PS3.9 Magnetism and planetary dynamics (co-organized by MPRG, GD & PS)

Convener: Costin, S.

Co-Convener(s): Breuer, D.

Lecture Room 34

Chairperson: SIMONA COSTIN

10:30–10:45; EGU2008-A-02013; IS28 - MPRG14/GD32/PS3.9-1TH2O-001

Christensen, U.R.

Planetary dynamos (solicited)

10:45–11:15; EGU2008-A-04848; IS28 - MPRG14/GD32/PS3.9-1TH2O-002

Slavin, J. A.

MESSENGER measurements of Mercury's magnetic field during the first flyby (solicited)

11:15–11:30; EGU2008-A-05744; IS28 - MPRG14/GD32/PS3.9-1TH2O-003

Johnson, C. L.; Lawrence, K.; Mohit, P. S.

Records of Lunar Magnetism and Implications for a Lunar Dynamo (solicited)

11:30–11:45; EGU2008-A-02287; IS28 - MPRG14/GD32/PS3.9-1TH2O-004

Purucker, M.

A new model of the lunar magnetic field: Implications for dynamo timing (solicited)

IS28 - MPRG14/GD32/PS3.9 Magnetism and planetary dynamics (co-organized by MPRG, GD & PS) – Posters

Convener: Costin, S.

Co-Convener(s): Breuer, D.

Display Time: Thursday, 08:00–19:30

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

Poster Area Hall A

Chairperson: DORIS BREUER

A0555; EGU2008-A-01205; IS28 - MPRG14/GD32/PS3.9-1TH3P-0555

Trifonova, P.; Zhelev, Zh.; Petrova, T.

Curie isotherm based on spectral analysis of geomagnetic anomaly data from Bulgaria and its correlation with regional thermal structure and seismicity

A0556; EGU2008-A-12097; IS28 - MPRG14/GD32/PS3.9-1TH3P-0556

Asari, S.

Electromagnetic core-mantle coupling and decadal motions of core fluid

Friday

MPRG5 Exotic materials and processes in paleomagnetism and rock magnetism

Convener: Gattacceca, J.
Lecture Room 35
Chairperson: GATTACCECA, J.

13:30–13:45; EGU2008-A-08339; MPRG5-1FR3O-001
Lanci, L.; Delmonte, B.; Maggi, V.; Petit, J.R.; Kent, D.V.
Ice magnetization in the EPICA-Dome C ice core: implication for dust sources during glacial and interglacial periods

13:45–14:00; EGU2008-A-09227; MPRG5-1FR3O-002
Bezaeva, N.S.; Rochette, P.; Gattacceca, J.; Sadykov, R.A.; Trukhin, V.I.
New pressure demagnetization experiments on rocks and synthetic samples

14:00–14:15; EGU2008-A-04033; MPRG5-1FR3O-003
Gilder, S.; Le Goff, M.; Glen, J.
Magnetic properties of iron at high pressures

14:15–14:30; EGU2008-A-12199; MPRG5-1FR3O-004
Rochette, P.; Gattacceca, J.; Ivanov, A.; Nazarov, M.; Bezaeva, N.
Magnetic properties of lunar materials: comparison between meteorites and sample return

14:30–14:45; EGU2008-A-11485; MPRG5-1FR3O-005
Urrutia-Fucugauchi, J.; Velasco-Villareal, M
Rock magnetism and magnetic fabrics of impact polymictic breccias and melt from the Chicxulub crater, Mexico

14:45–15:00; EGU2008-A-02962; MPRG5-1FR3O-006
Nakamura, N.; Uehara, M.; Mishima, T.; Hirono, T.; The TCDP team
Anomalous magnetization of fault gouges recovered from Taiwan Chelungpu-fault Drilling Project (TCDP)

15:00 END OF SESSION

MPRG5 Exotic materials and processes in paleomagnetism and rock magnetism – Posters

Convener: Gattacceca, J.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 08:30–10:00
Poster Area Hall A
Chairperson: GATTACCECA, J.

A0431; EGU2008-A-02753; MPRG5-1FR1P-0431
Gattacceca, J.; Rochette, P.; Gounelle, M.; van Ginneken, M.
The petrofabric of Vesta and Mars crusts as revealed by the anisotropy of magnetic susceptibility of achondrites

A0432; EGU2008-A-03349; MPRG5-1FR1P-0432
Fabian, K.; McEnroe, S. A.; Robinson, P.
Natural lamellar remanent magnetization: Low-temperature properties and models of remanence acquisition

A0433; EGU2008-A-03169; MPRG5-1FR1P-0433
Hankard, F.; Gattacceca, J.; Fermon, C.; Pannetier, M.; Rochette, P.; Langlais, B.
Magnetization distribution in meteorites and terrestrial rocks investigated with a new GMR scanning micro-magnetometer

A0434; EGU2008-A-04799; MPRG5-1FR1P-0434
Uehara, M.; Nakamura, N.
Development of an adjustable bias field MI magnetic microscope and observation of NWA 1756 (LL3.10) primitive ordinary chondrite

MPRG6 Rock and mineral magnetism: from observation to interpretation

Convener: Lagroix, F.
Co-Convener(s): Aubourg, C., Winklhofer, M.
Lecture Room 35
Chairperson: N.N.

15:30–15:45; EGU2008-A-08291; MPRG6-1FR4O-001
Chang, L.; Roberts, A. P.; **Muxworthy, A. R.;** Tang, Y.; Chen, Q.; Rainford, B. D.
Fundamental magnetic properties of greigite (Fe₃S₄)

15:45–16:00; EGU2008-A-00665; MPRG6-1FR4O-002
Franke, C.; Frederichs, T.; Vasiliev, I.
Distinction between natural greigite components by high-temperature magnetic remanence measurements using a Magnetic Properties Measurement System (MPMS)

16:00–16:30; EGU2008-A-05676; MPRG6-1FR4O-003
Kasama, T.; Pósfai, M.; Chong, R.K.K.; Buseck, P.R.; Frankel, R.B.; Harrison, R.J.; Dunin-Borkowski, R.E.
Quantitative transmission electron microscopy of iron oxide and sulfide nanocrystals in magnetotactic bacteria (solicited)

16:30–17:00; EGU2008-A-02101; MPRG6-1FR4O-004
Carvalho, C.; Saintavit, Ph.; Arrio, M.-A.; Menguy, N.; Wang, Y.; Ona-Nguema, G.; Brice-Profeta, S.
X-ray Magnetic Circular Dichroism in rock magnetism - Application to the study of biogenic magnetite (solicited)

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-11944; MPRG6-1FR5O-001
Luebbe, M.; Winklhofer, M.; Gigler, AM; Dumas, RK; Moritz, W
Synthesis and characterization of hematite-ilmenite multilayers:

17:45–18:00; EGU2008-A-04759; MPRG6-1FR5O-002
Fabian, K.; McEnroe, S. A.; Robinson, P.; Burton, B.
The complex magnetic phenomenology of the ilmenite-hematite solid-solution series

18:00–18:30; EGU2008-A-02220; MPRG6-1FR5O-003
Egli, R.;
Inversion of magnetic susceptibility measurements: quantitative characterization of ferri- and antiferromagnetic superparamagnetism (solicited)

18:30–18:45; EGU2008-A-05187; MPRG6-1FR5O-004
Muxworthy, A. R.; Williams, W.
Critical superparamagnetic/single-domain grain-sizes in interacting magnetite particles: implications for magnetosomes

18:45–19:00; EGU2008-A-09024; MPRG6-1FR5O-005
Davies, C.J.; Hill, M.J.; Prior, D.; Shaw, J.
Assessing the effects of mineral alteration on palaeointensity determinations

19:00 END OF SESSION

MPRG6 Rock and mineral magnetism: from observation to interpretation – Posters

Convener: Lagroix, F.
Co-Convener(s): Aubourg, C., Winklhofer, M.
Display Time: Friday, 08:00–19:30

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

Poster Area Hall A
Chairperson: N.N.

A0435; EGU2008-A-04300; MPRG6-1FR2P-0435

Gómez, L.A.; **Aldana, M.**

Direct Signal Analysis (DSA) applied to the identification of magnetic components from IRM curves

A0436; EGU2008-A-10780; MPRG6-1FR2P-0436

Kiss, J.; **Szarka, L.**; Pracser, E.

How to measure Hopkinson peak in earth materials?

A0437; EGU2008-A-06936; MPRG6-1FR2P-0437

Ferk, A.; Leonhardt, R.; Richard, D.; Dingwell, D.

Paleointensity study on subaerial volcanic glass

A0438; EGU2008-A-05423; MPRG6-1FR2P-0438

Muxworthy, A. R.; Heslop, D.; Michalk, D.

Thermal fluctuation fields in basalts and the Barbier plot

A0439; EGU2008-A-03526; MPRG6-1FR2P-0439

Lagroix, F.

Non-equilibrium dynamics in ferrian ilmenite low temperature magnetic properties

A0440; EGU2008-A-11925; MPRG6-1FR2P-0440

Ricordel-Prognon, C.; **Lagroix, F.**; Moreau, M.-G.; Thiry, M.

Characteristics of the magnetic phases within a ferruginous paleoweathering profile in the Massif Central, France

A0441; EGU2008-A-08123; MPRG6-1FR2P-0441

Guzmán, O.; **Costanzo-Alvarez, V.**; Díaz, M.

Study of magnetic contrasts applied to hydrocarbon exploration in the Maturín sub-basin (Eastern Venezuela)

A0442; EGU2008-A-11919; MPRG6-1FR2P-0442

Sheibi, M.; Esmaeily, D.; Bouchez, J.L.; Siquera, R.

Structural interplay between plutons during the construction of Shir- Kuh batholith, Central Iran, (SW Yazd)

MPRG7 The Transport Properties of Geomaterials: Theory, Modeling, Measurement, Application and Integration

Convener: Glover, P.
Co-Convener(s): Mainault, A., Hase, H.
Lecture Room 35
Chairperson: N.N.

8:30–9:00; EGU2008-A-03201; MPRG7-1FR1O-001

David, C.; Menéndez, B.; Louis, L.; Mengus, J.M.

Investigating the interplay between damage and fluid flow patterns in rocks using CT scanning imaging and acoustic emission techniques (solicited)

9:00–9:15; EGU2008-A-03919; MPRG7-1FR1O-002

Kulenkampff, J.; Gründig, M.; Richter, M.; Wolf, M.; Lippmann-Pipke, J.

Direct transport process observation in geomaterials: High potential for the GeoPET-method

9:15–9:30; EGU2008-A-05096; MPRG7-1FR1O-003

Arnold, J.; Hartmann, A.; Fehr, A.; Pape, H.; Klitzsch, N.; Rath, V.; Blümich, B.; **Clauser, C.**

Inference of hydraulic permeability and thermal conductivity from NMR and borehole logging (solicited)

9:30–9:45; EGU2008-A-04968; MPRG7-1FR1O-004

Milsch, H.; Blöcher, G.; Engelmann, S.

Linking hydraulic and electrical transport in porous rock: An integrated evaluation of several scaling models against original experimental data.

9:45–10:00; EGU2008-A-02479; MPRG7-1FR1O-005

Ghabezloo, S.; Sulem, J.; Guedon, S.; Martineau, F.

Effective stress law for the permeability of a limestone: experimental study and microstructural modelling

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2008-A-04526; MPRG7-1FR2O-001

Ishido, T.

Electrokinetic coupling in fractured rock (solicited)

11:00–11:15; EGU2008-A-02916; MPRG7-1FR2O-002

Walker, E.; Glover, P.W.J.; Ruel, J.; Lalande, G.; Jodouin, M.; Hadjigeorgiou, J.

A laboratory apparatus for measuring the frequency-dependent streaming potential coupling coefficient of porous rock samples

11:15–11:30; EGU2008-A-05223; MPRG7-1FR2O-003

Hase, H.; Ishido, T.; Kanda, W.; Mori, S.

Interpretation of self-potential anomalies on a tranquil volcano using zeta potential variation

11:30–11:45; EGU2008-A-12037; MPRG7-1FR2O-004

Bernabé, Y

Propagation of harmonic flow waves in heterogeneous pipe networks: effect of the pipe radius distribution on the effective wave velocity and attenuation (solicited)

11:45–12:00; EGU2008-A-11943; MPRG7-1FR2O-005

Popov, Yu.

Recent evolution in experimental thermal petrophysics (solicited)

12:00 END OF SESSION

MPRG7 The Transport Properties of Geomaterials: Theory, Modeling, Measurement, Application and Integration – Posters

Convener: Glover, P.
Co-Convener(s): Mainault, A., Hase, H.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 13:30–15:00
Poster Area Hall A
Chairperson: N.N.

A0443; EGU2008-A-02629; MPRG7-1FR3P-0443

Zharikov, A.V.; Kern, H.; Shmonov, V.M.

Transport, elastic properties and anisotropy of the rocks from the Kola superdeep borehole (experimental data)

A0444; EGU2008-A-02645; MPRG7-1FR3P-0444

Malkovsky, V.I.; **Zharikov, A.V.**; Shmonov, V.M.

New technique for measurement of rock sample permeability

A0445; EGU2008-A-09151; MPRG7-1FR3P-0445

Dautriat, J.; Gland, N.; Dimanov, A.; Raphanel, J.

Investigation of permeability anisotropy evolution of stressed reservoir

A0446; EGU2008-A-08405; MPRG7-1FR3P-0446

Fehr, A.; Klitzsch, N.; Clauser, C.

Permeability prediction by NMR and SIP - a laboratory study

A0447; EGU2008-A-08625; MPRG7-1FR3P-0447

Prikryl, R.; Weishauptova, Z.

Gas permeability of bentonite-based barriers in nuclear waste repository: results from laboratory Mock-Up-CZ experiment

A0448; EGU2008-A-05651; MPRG7-1FR3P-0448

Luo, J; Morad, S; **Salem, A;** Ketzer, J; Yan, S; Zhang, X; Xue, J

Diagenesis and reservoir-quality evolution of fluvial and lacustrine-deltaic sandstones: evidence from Jurassic and Triassic sandstones of the Ordos basin, northwestern China

A0449; EGU2008-A-11734; MPRG7-1FR3P-0449

Glover, PWJ

Predicting porosity, permeability frequency and hydrocarbon saturation using cuttings gas logs

A0450; EGU2008-A-11740; MPRG7-1FR3P-0450

Matsuki, K; Chida, Y; Sakaguchi, K; **Glover, PWJ**

The variation of fracture aperture and permeability during normal closure and shearing and with scale in large synthetic fractures

A0451; EGU2008-A-02892; MPRG7-1FR3P-0451

Glover, PWJ; Walker, E

Modelling the frequency dependence of hydraulic flow and streaming potential coupling coefficients in capillary bundles and porous rocks

A0452; EGU2008-A-04211; MPRG7-1FR3P-0452

Ghorbani, A.; Jorand, R.; Zamora, M.; Cosenza, P.

Coupled measurements of elastic, electrical and thermal properties for monitoring water content and textural changes in clay-rocks

A0453; EGU2008-A-04687; MPRG7-1FR3P-0453

Maineult, A.; Ghorbani, A.; Leder, S.; Mahiouz, K.; Zamora, M.

Self-potential and induced-polarization response to saturation-desaturation cycles: testing a new laboratory set-up

A0454; EGU2008-A-11592; MPRG7-1FR3P-0454

Hase, H.; Kubota, K.; Ito, H.; Suzuki, K.; Kaieda, H.

Self-potential variation associated with carbon dioxide storage

A0455; EGU2008-A-06340; MPRG7-1FR3P-0455

Stavrakas, I.; Anastasiadis, C.; Ninos, K.; **Triantis, D.**

AC conductivity measurements on rock samples subjected to constant uniaxial compressional stress

A0456; EGU2008-A-07380; MPRG7-1FR3P-0456

ter Heege, J.H.; Dohmen, R.; Becker, H.-W.; Chakraborty, S.

Experimental determination of Fe-Mg interdiffusion coefficients in orthopyroxene using pulsed laser ablation and nanoscale thin films

A0457; EGU2008-A-07550; MPRG7-1FR3P-0457

ter Heege, J.H.; Renner, J.

The effect of partial melting, hydrous fluids, grain size, and second phases on electrical conductivity and atomistic transport properties: Insights from in situ measurements on hydrous diopside-anorthite-albite mixtures at high pressure

A0458; EGU2008-A-11940; MPRG7-1FR3P-0458

Popov, Yu.; Burkhardt, H.; Wilhelm, H.; Tertychnyi, V.; Romushkevich, R.; Mayr, S.; Heidinger, Ph.

Thermal property measurements in studying heat and mass transfer processes in crust

A0459; EGU2008-A-11953; MPRG7-1FR3P-0459

Miklashevskiy, D. ; Popov, Yu.; Tertychnyi, V.; Tarelko, N. Measurements of thermal properties of rocks and minerals at formation conditions: equipment and results

A0460; EGU2008-A-09899; MPRG7-1FR3P-0460

Jorand, R.; Koch, A.; Fehr, A.; Clauser, C.

Experimental study of the correlation between thermal conductivity and saturation of selected sandstones

A0461; EGU2008-A-01674; MPRG7-1FR3P-0461

Pasquale, V.; Gola, G.; Frixa, A:

Measure and modelling of factors controlling the bulk thermal conductivity of sedimentary rocks

A0462; EGU2008-A-04101; MPRG7-1FR3P-0462

Maj, S.

Phonon thermal conductivity of silicate minerals: A relationship to adiabatic incompressibility