

EGU General Assembly 2011
Programme Group Programme
ERE – Energy, Resources and the Environment

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Monday, 04 April

ERE1.1 – Energy, Resources & the Environment – Orals

Convener: Michael Kühn | Co-Conveners: Hermann Held

Room: 3

Chairperson: Michael Kühn

- 10:30–11:00 EGU2011-13948
Hermann Held
 Climate Targets, Costs of Mitigation and the Role of CCS in the Concert of Mitigation Options
- 11:00–11:30 EGU2011-13457
Gregor Giebel, Anna Maria Sempreviva, and Somnath Baidya Roy
 Wind Power Meteorology - An Overview
- 11:30–12:00 EGU2011-13898
Frank R. Schilling
 The Future lies Underground: Georesources & Geotechnique

ERE1.1 – Energy, Resources & the Environment – Posters

Convener: Michael Kühn | Co-Conveners: Hermann Held

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Michael Kühn / Hermann Held

- XL263 EGU2011-12431
Niel Bowerman, David Frame, Chris Huntingford, Jason Lowe, and Myles Allen
 Comparing the impacts of greenhouse gases on peak global warming and the rate of warming
- XL264 EGU2011-10373
Marco Cony, Luis Martín, Ruth Marchante, Jesús Polo, Luis Zarzalejo, and Ana Navarro
 Global horizontal irradiance and direct normal irradiance from HRV images of Meteosat Second Generation
- XL265 EGU2011-4239
Angel Rincón, Oriol Jorba, Jose Maria Baldasano, and Luca Delle Monache
 Short-term irradiance forecasting based on post-processing tools applied on WRF meteorological simulations
- XL266 EGU2011-12535
Robert J. Nicholls, Abiy S. Kebede, Richard Beaven, and Romain Chancerel
 Potential Implications of Climate Change and Sea-Level Rise on Coastal Waste Sites
- XL267 EGU2011-5166
Benedito Silva, Pâmella Duarte, Adriana Corrêa, and Afonso Santos
 Selection of hydropower plants based on socio-environmental assessment and the use of fuzzy logic
- XL268 EGU2011-5514
Nyeon Keon Kang, Dong-Geun Yoo, Bo Yeon Yi, and Byong-Jae Ryu
 3D Seismic Analysis of Geometry and Spatial Distribution of Seismic Chimney in the Ulleung Basin, East sea of Korea
- XL269 EGU2011-4749
David Bertermann, Klug Hermann, and Roßner Reinhold
 ThermoMap - Spatially explicit mapping of superficial geothermic resources
- XL270 EGU2011-6593
Raquel García González, Anne Verhoef, Pier Luigi Vidale, Bruce Main, Guohui Gan, and Yupeng Wu
 Interactions between the soil environment and a horizontal ground coupled heat pump for a domestic installation in the UK
- XL271 EGU2011-6800
 Ulrich Berner and **Matthias Heldt**
 An organic-geochemical characterization of Barremian and Aptian sediments in NW Germany
- XL272 EGU2011-6839
Ulrich Berner and Matthias Heldt
 An organic-geochemical comparison of possible Lower Cretaceous oil and gas shale targets in NW Germany
- XL273 EGU2011-9225
 Ralph Schlüter and **Nora Schlüter**
 Geotopics in the press - gaining more importance

ERE1.2 – Wind Power Meteorology – Orals

Convener: Gregor Giebel | Co-Conveners: Anna Maria Sempreviva, Somnath Baidya Roy

Room: 3

Chairperson: n.n.

- 13:30–13:45 EGU2011-5349
Stuart Bradley and Ken Underwood
Scanning bistatic sodar: a new technology for wind energy assessment
- 13:45–14:00 EGU2011-8707
Ameya Sathe, Jakob Mann, Julia Gottschall, and Mike Courtney
Can wind lidars measure turbulence?
- 14:00–14:15 EGU2011-11676
Beatriz Cañadillas, David Schlipf, Thomas Neumann, and Dennis Kuehnel
Validation of Taylor's Hypothesis under offshore conditions. An experimental study using a nacelle-based 'two-beam' Lidar.
- 14:15–14:30 EGU2011-13216
Hálfdán Ágústsson, Haraldur Ólafsson, Marius Jonassen, Joachim Reuder, Dubravka Rasol, and Ólafur Rögnvaldsson
Improving high-resolution atmospheric simulations of local weather using in-situ realtime observations from small unmanned aircraft
- 14:30–14:45 EGU2011-9373
Leonardo Chamorro, Xiaolei Yang, Seokkoo Kang, Roger Arndt, and Fotis Sotiropoulos
Experimental and computational investigation of the turbulent interaction between the atmospheric boundary layer and large wind farms
- 14:45–15:00 EGU2011-8688
Amy Stidworthy, David Carruthers, and Julian Hunt
A new approach to modelling mean flow and turbulence in wind turbine wakes and wind farm environments
- Chairperson: Anna Maria Sempreviva
- 15:30–15:45 EGU2011-9676
Robert Conzemius and Joseph Eastman
A large onshore wind farm: impact of modest topography versus turbine wakes
- 15:45–16:00 EGU2011-12722
Catherine Meissner, **Carolin Schmitt**, and Bernd Goretzki
Non-neutral wind conditions in complex terrain
- 16:00–16:15 EGU2011-12528
Fernando Porté-Agel, Yu-Ting Wu, and Hao Lu
Large-eddy simulation of atmospheric boundary layer flow through wind farms
- 16:15–16:30 EGU2011-10735
Kristian Horvath, Alica Baji?, and Stjepan Ivatek-Šahdan
Dynamical downscaling of wind speed in complex terrain of Croatia
- 16:30–16:45 EGU2011-7570
Ivonne Anders and Burkhardt Rockel
Regime-dependent validation of simulated surface wind speed
- 16:45–17:00 EGU2011-11220
Marc Calaf, Charles Meneveau, and Marc Parlange
Large Eddy Simulation study of fully developed thermal wind-turbine array boundary layers

ERE1.2 – Wind Power Meteorology – Posters

Convener: Gregor Giebel | Co-Conveners: Anna Maria Sempreviva, Somnath Baidya Roy

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Anna Maria Sempreviva

- XL274 EGU2011-2614
Hanna Hüging, Joaquim G. Pinto, Kai Born, Rabea Haas, Ralf Podzun, and Daniela Jacob
Possible changes in wind energy potentials over Europe under future climate conditions using an RCM ensemble
- XL275 EGU2011-5942
Etor E. Lucio-Eceiza, J. Fidel González-Rouco, Jorge Navarro, Hugo Beltrami, Pedro A. Jiménez, Elena García-Bustamante, and Ángela Hidalgo
Quality Assurance of a wind database for eastern Canada
- XL276 EGU2011-8975
Rudy Calif and François G. Schmitt
Spectral analysis of wind velocity and output power from a wind farm.
- XL277 EGU2011-10484
Alica Bajic, Stjepan Ivate-Sahdan, and Kristian Horvath
Bora wind load on turbines

- XL278 EGU2011-10759
Kristian Horvath, Darko Korašin, Ramesh Vellore, Jinhua Jiang, Radian Belu, and Travis McCord
Evaluation of sub-kilometer dynamical downscaling with MM5 and WRF mesoscale models
- XL279 EGU2011-12590
Yu-Ting Wu, Fernando Porté-Agel, Hao Lu, and Robert Conzemius
A large-eddy simulation study of wake effects in an operational wind farm
- XL280 EGU2011-12597
Wei Zhang, Corey Markfort, and Fernando Porté-Agel
Characterization of the near-wake flow downwind of a horizontal axis wind turbine using PIV
- XL281 EGU2011-12628
Suresh Naidu and Fernando Porté-Agel
Development of a New Wake Model using Large-Eddy Simulations and Wind Tunnel Data
- XL282 EGU2011-12753
Jinhua Jiang, **Darko Koracin**, Ramesh Vellore, Kristian Horvath, Radian Belu, and Travis McCord
Ensemble Forecasting and Uncertainty in Wind and Wind Power Prediction
- XL283 EGU2011-3722
David Brayshaw
Wind power, weather and climate: understanding the meteorology of peak demand and the affects of low-frequency atmospheric variability
- XL284 EGU2011-9023
Jun Wang and Eric Holt
Trend of wind energy over the continental United States
- XL285 EGU2011-9545
Roger Arndt, Leonardo P. Chamorro, and Fotis Sotiropoulos
Reynolds Number dependence of flow characteristics of wind turbine wakes
- XL286 EGU2011-9907
Gregor Giebel, Uwe Schmidt Paulsen, Joachim Reuder, Anders la Cour-Harbo, Jens Bange, Carsten Thomsen, and John Mølgaard
Autonomous Aerial Sensors for Wind Power Meteorology
- XL287 EGU2011-11770
Pierre-Julien Trombe, Pierre Pinson, Sven Creutz Thomsen, and Henrik Madsen
Radar@Sea - Towards improving short-term wind (power) forecasts based on a Local Area Weather Radar (LAWR) installed at an offshore wind farm
- XL288 EGU2011-12691
Catherine Meissner, Matthieu Boquet, Saskia Bourgeois, and Martin Hölzli
Correction of LIDAR measurements with high-resolution CFD simulations
- XL289 EGU2011-13500
Jens Tambke, Lueder von Bremen, **Michael Schmidt**, Gerald Steinfeld, and Jörg-Olaf Wolff
Correlations and Variability of Wind Speed Fields and Wind Power in Europe
- XL290 EGU2011-8654
Raquel Lorente-Plazas, Juan Pedro Montávez, David Pozo-Vázquez, Juan José Gómez-Navarro, Juan Andrés García-Valero, Pedro Jiménez-Guerrero, Pedro A. Jiménez, Sonia Jerez, and J. Fidel Gonzalez-Rouco
EOLMAP: A pseudoreal wind database for small wind turbines for the Iberian Peninsula
- XL291 EGU2011-7321
Sebastien Doutreloup
Interests of using a regional model to forecast wind power production
- XL292 EGU2011-7197
Sebastien Doutreloup, Xavier Fettweis, Bernard Sacre, and Michel Erpicum
Evolution of wind behaviour and its potential for wind power production in Belgium during the last 30 years
- XL293 EGU2011-7841
Halldór Björnsson, Kristján Jónasson, Teitur Birgisson, Jón Blöndal, Gudrun N Peterssen, and Nikolai Nawri
Preliminary Study of the Wind Resource in Iceland
- XL294 EGU2011-6907
Bengt Tammelin, **Timo Vihma**, Evgeny Atlaskin, Jake Badger, Carl Fortelius, Reijo Hyvönen, Juha Kilpinen, Jenni Latikka, Karoliina Ljungberg, Sami Niemelä and the FMI / Risø DTU Team
Production of the Finnish Wind atlas
- XL295 EGU2011-1339
Charlotte Bay Hasager, Andrea Hahmann, Jake Badger, Ferhat Bingöl, Ioanna Karagali, Alfredo Peña, Niels-Erik Clausen, and Merete Badger
Wind atlas mapping in the South Baltic Sea: methods and results
- XL296 EGU2011-10493
Birgitte Furevik, **Anna Maria Sempreviva**, Luigi Cavaleri, Jean-Michel Lefevre, and Claudio Transerici
Eight years of Wind Measurements from Scatterometer for Wind Resource Mapping in the Mediterranean Sea

- XL297 EGU2011-1403
Charlotte Bay Hasager, Merete Badger, and Jake Badger
Offshore wind resources: evaluation of satellite-based results in the North Sea
- XL298 EGU2011-6233
Mutlu Y?lmaz and R?ya Bayar
Wind power generation potential in Turkey and wind power share electricity production
- XL299 EGU2011-11291
Derya Akcan, S. Sibel Menten and the SWEPS Team
Preliminary Results of Short Term Wind Energy Prediction System (SWEPS) for Soma, Manisa in Turkey

Tuesday, 05 April

ERE2.1 – Long-term storage of CO₂ in geological systems: Results from laboratory studies – Orals

Convener: Andreas Busch | Co-Conveners: Alexandra Amann

Room: 3

Chairperson: n.n.

- 08:30–08:45 EGU2011-12081
Samuel Krevor, Ronny Pini, Lin Zuo, and Sally Benson
 Multiphase flow of CO₂ and water in reservoir rocks at reservoir conditions
- 08:45–09:00 EGU2011-4010
Holger Ott, Steffen Berg, and Sjam Oedai
 Displacement and Mass Transfer Between Saturated and Unsaturated CO₂-Brine Systems in Sandstone
- 09:00–09:15 EGU2011-12688
 Jon Harrington, David Birchall, David Noy, Robert Cuss, and **Caroline Graham**
 Consolidation and mass transport properties of the Nordland Shale
- 09:15–09:30 EGU2011-2893
Georg Nover, Nils Gafert-Kalaitzidis, Jutta von der Gönna, Stephanie Heikamp, and Jens Köster
 Petrophysical properties of sandstones exposed to supercritical carbon dioxide
- 09:30–09:45 EGU2011-3440
 Anssi Myrntinen, **Veith Becker**, Robert van Geldern, and Johannes A.C. Barth
¹⁸O shifts in water in contact with high volumes of CO₂ gas
- 09:45–10:00 EGU2011-6329
Elodie Jeandel, Alain Dimier, Anssi Myrntinen, Olaf Ukelis, and Roman Zorn
 Presentation of the new ICARE 4 set-up: principle and first results on the reactive-percolation experiments and modelling

COFFEE BREAK

Chairperson: Andreas Busch, Alexandra Amann

- 10:30–10:45 EGU2011-7701
Frank Dethlefsen, Cordula Dörr, and Markus Ebert
 The relevance and the determination of mineral dissolution kinetics in high pressure experiments and their use in numerical models
- 10:45–11:00 EGU2011-4225
Paul Giesting, Stephen Guggenheim, Augustus Koster van Groos, and Andreas Busch
 Carbon dioxide intercalation in Na- and Ca-exchanged montmorillonite
- 11:00–11:15 EGU2011-5857
Herwig Marbler, Christof Lempp, Kirsten P. Erikson, Michael Schmidt, and Herbert Pöllmann
 Geochemical and geomechanical behaviour of reservoir rocks during the injection of CO₂ in deep geological formations: results of the project COORAL

ERE2.1 – Long-term storage of CO₂ in geological systems: Results from laboratory studies – Posters

Convener: Andreas Busch | Co-Conveners: Alexandra Amann

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Andreas Busch, Alexandra Amann

- XL114 EGU2011-2421
Ashok Singh, Wenging Wang, Uwe-Jens Görke, and Olaf Kolditz
 Mixed convection instability during carbon dioxide storage into deep saline aquifers
- XL115 EGU2011-6357
Juliane Kummerow, Erik Spangenberg, and Ronny Giese
 The Impact of CO₂-SO₂ - Brine - Reservoir Rock Interactions on Petrophysical Properties.
- XL116 EGU2011-2715
Krzysztof Labus
 Effects of CO₂ mineral sequestration in saline aquifers of the Upper Silesian Coal Basin - Experimental and modeling studies

- XL117 EGU2011-3333
Pauline Humez, Julie Lions, Philippe Négrel, Vincent Lagneau, and Pascal Audigane
 Assessing the potential consequences of CO₂ leakage to freshwater resources: a batch-reaction experiment with isotopic monitoring program (Albian formation, Paris Basin)
- XL118 EGU2011-4029
Holger Ott and Kees de Kloe
 Core-Flood Experiment for Transport of Reactive Fluids in Rocks
- XL119 EGU2011-8484
Thomas Millan
 Carbonation of a Portland cement under geological conditions
- XL120 EGU2011-10062
Franziska Wilke, Monica Vásquez Parra, and Jörg Erzinger
 Interactions between scCO₂ and scCO₂-SO₂, formation fluids and rock forming minerals: an experimental approach under in-situ conditions of potential geological storages
- XL121 EGU2011-10868
Marijn Boone, Veerle Cnudde, Mieke Quaghebeur, and Helga Ferket
 Quantifying chemical and petrophysical alterations in porous materials by CO₂ using HRXCT
- XL122 EGU2011-11822
Jon Samuelson and Chris Spiers
 The influence of carbon-dioxide on the strength and stability of CO₂-sequestration reservoir fault zones
- XL123 EGU2011-7738
Sebastian Fischer, Kornelia Zemke, Axel Liebscher, and Maren Wandrey
 Mineralogical and petrophysical results of long-term CO₂-exposure experiments on reservoir sandstone from the Ketzin pilot site, Germany
- XL124 EGU2011-12270
Susanne Stadler, Andreas Riße, Katja Heeschen, Heike Rütters, and Christian Ostertag-Henning
 Systematic evaluation of experimental parameters and identification of data gaps for geochemical modeling in the context of geological CO₂ storage
- XL125 EGU2011-12898
 Márton Berta, Gerardo Sciarpetti, Csilla Király, György Lévai, **György Falus**, Edit Székely, and Csaba Szabó
 Experimental study of CO₂ capture and storage possibility on drilling core samples from Hungary
- XL126 EGU2011-11143
Thomas Muschalle, Claudia Gniese, Andrea Kassahun, Martin Krüger, and Nils Hoth
 Autoclave experiments on autotrophic metabolism under elevated pressure and temperature by microbes from a mature German natural gas field
- XL127 EGU2011-12762
Alexandra Amann, Pieter Bertier, Jennifer Blume, Andreas Busch, Bernhard M. Krooss, Ines Rick, Margret Waschbüsch, and Philipp Weniger
 Transport and sealing properties of clay-rich lithotypes exposed to CO₂
- XL128 EGU2011-5679
Jennifer Blume, Jörg-Detlef Eckhardt, Heinz-Günter Stosch, Thomas Neumann, Karl Balthasar, Thomas Mutschler, and Theodoros Triantafyllidis
 The effect of CO₂ on the stability of fault zones in cap rocks of interest for CO₂ storage

ERE2.3/SM3.10 – Geophysical methods applied to geological storage of CO₂ (co-organized) – Orals

Convener: Christopher Juhlin | Co-Conveners: Stefan Buske, Roman Pevzner

Room: 3

Chairperson: Chris Juhlin, Roman Pevzner

- 15:30–15:45 EGU2011-3296
James White, Gareth Williams, and Andy Chadwick
 Estimating seismic velocity and thickness of a CO₂ layer in the Sleipner plume
- 15:45–16:00 EGU2011-3769
Alexandra Ivanova, Ursula Lengler, Stefan Lueth, and Christopher Juhlin
 Monitoring of CO₂ injected at Ketzin using 3D time-lapse seismic data
- 16:00–16:15 EGU2011-265
Can Yang, Christopher Juhlin, Alexandra Ivanova, and Wenfang Fan
 AVO attributes analysis of time-lapse 3D surface seismic data from CO₂SINK project site, Ketzin, Germany
- 16:15–16:30 EGU2011-3835
Matthias Strahser, Said Attia al Hagrey, and Wolfgang Rabbel
 Seismic and geoelectric monitoring of CCS - parameter studies in simplified and realistic scenarios

- 16:30–16:45 EGU2011-4939
Peter Bergmann, Cornelia Schmidt-Hattenberger, Dana Kiessling, Tim Labitzke, and Carsten Rücker
 Large-scale DC geoelectric measurements at the CO₂ pilot storage Ketzin: Time-lapse inversion and evaluation of imaged volume
- 16:45–17:00 EGU2011-5609
Ramon Carbonell, Juan Alcalde, David Martí, Alcinoe Calahorrano, Immaculada Palomeras, Puy Ayarza, Arantxa Ugalde, Antonio Villaseñor, and Andrés Pérez-Estaún
 Spanish Research Facility for Geological Storage of CO₂. (Hontomín, Spain)

ERE2.3/SM3.10 – Geophysical methods applied to geological storage of CO₂ (co-organized) – Posters

Convener: Christopher Juhlin | Co-Conveners: Stefan Buske, Roman Pevzner

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL130 EGU2011-3276
Marcus Moeller, Cornelia Schmidt-Hattenberger, Stephan Schroeder, and Markus Well
 Development of a measurement concept for monitoring brine migration processes in saline aquifers
- XL131 EGU2011-3301
Gunther Baumann, Jan Henninges, and Marco De Lucia
 Sensitivity study of pulsed neutron gamma monitoring to evaluate saturation changes for depleted gas field conditions in the context of CO₂ storage
- XL132 EGU2011-4066
Florian Wagner, Marcus Moeller, Cornelia Schmidt-Hattenberger, Thomas Kempka, and Hansruedi Maurer
 Detection of groundwater salinisation by geoelectric measurements
- XL133 EGU2011-4238
Perla Piña, Cristina Biete, Juanjo Ledo, Pilar Queralt, Eduard Roca, and Pedro Ibarra
 Exploration and characterization of CO₂ storage sites using electromagnetics methods: results of 2D magnetotelluric study at El Hito (Cuenca), Spain.
- XL134 EGU2011-4940
Xènia Ogaya, Pilar Queralt, Juanjo Ledo, and Àlex Marcuello
 2D magnetotelluric characterization of Hontomín (Spain) CO₂ pilot plant
- XL135 EGU2011-6085
Magdalena Escalas, Pilar Queralt, Juanjo Ledo, and Alex Marcuello
 Identification of cultural noise sources in magnetotelluric data: estimating polarization attributes in the time-frequency domain using wavelet analysis
- XL136 EGU2011-6424
Juan Alcalde, David Martí, Alcinoe Calahorrano, Imma Palomeras, Puy Ayarza, Ramon Carbonell, and Andrés Pérez-Estaún
 3D Seismic characterization of the Spanish Research Facility for storage of CO₂ in Hontomín (Burgos, Spain)
- XL137 EGU2011-7648
Alcinoe Calahorrano, David Martí, Juan Alcalde, Imma Palomeras, Puy Ayarza, Ramón Carbonell, and Andrés Pérez-Estaún
 Technological laboratory for geologic CO₂ storage in Hontomín (Spain): 2D-3C reflection imaging
- XL138 EGU2011-7688
 Rita Streich, **Michael Becken**, and Oliver Ritter
 Electromagnetic characterization and monitoring of CO₂ sequestration sites: feasibility studies and first field results from Ketzin, Germany
- XL139 EGU2011-10512
Rasmus Rasmussen, Lone Klinkby, and Claus Andersen
 Feasibility study of time lapse seismic monitoring at planned CO₂ storage site

ERE2.4 – Modelling of CO₂ storage sites – Orals

Convener: Thomas Kempka | Co-Conveners: Holger Class, Auli Niemi

Room: 3

Chairperson: Kempka, Class, Niemi

- 12:00–12:15 EGU2011-9240
Paulo Herrera and Helge Dahle
 The effect of caprock topography on long-term CO₂ migration
- 12:15–12:30 EGU2011-11137
Sergey Oladyskhin, Holger Class, Rainer Helmig, and Wolfgang Nowak
 Data-driven framework for history matching: application to carbon dioxide storage in geological formations

- 12:30–12:45 EGU2011-3260
Pascal Audigane, Sunsearé Gabalda, and Christophe Chiaberge
 Modeling CO₂ storage into large scale heterogeneous geological media

LUNCH BREAK

Chairperson: Kempka, Class, Niemi

- 13:30–13:45 EGU2011-11898
Andrew Cliffe, Auli Niemi, Henry Power, Zhibing Yang, Fritjof Fagerlund, and Tian Liang
 Use of Gaussian Process Emulators for Quantifying Uncertainty in CO₂ Spreading Predictions in Heterogeneous Geological Media
- 13:45–14:00 EGU2011-9734
Michael Krause, Samuel Krevor, Ronny Pinni, and Sally Benson
 Verifying the use of Simulations of Core Flooding Experiments to Gain Insight into CO₂-Brine Multiphase Flow Interactions
- 14:00–14:15 EGU2011-9899
Lena Walter, Holger Class, and Rainer Helmig
 Investigations on the risk of brine displacement during CO₂ injection into saline aquifers
- 14:15–14:30 EGU2011-12421
Tim Tambach, Mariene Gutierrez-Neri, Marielle Koenen, Frank Van Bergen, Henk Kooi, and Bert Van der Meer
 Reactive transport modeling of CO₂ injection into storage reservoirs: application to case-studies in The Netherlands
- 14:30–14:45 EGU2011-3039
Frédéric Wertz, Fabrizio Gherardi, and Antonin Fabbri
 Geochemical Model of CO₂ impact at the Well-Caprock-Reservoir interfaces
- 14:45–15:00 EGU2011-379
Hamidreza Salimi, Karl-Heinz Wolf, and Johannes Bruining
 Non-Isothermal Compositional Flow Simulations of Mixed CO₂-Water Injection into Geothermal Reservoirs

ERE2.4 – Modelling of CO₂ storage sites – Posters

Convener: Thomas Kempka | Co-Conveners: Holger Class, Auli Niemi

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Kempka, Class, Niemi

- XL140 EGU2011-2454
Mohammed Amro and Frieder Häfner
 CO₂-Storage Simulation with regard to Cold Hydro-Fracturing and Vaporization/Condensation
- XL141 EGU2011-3283
Chi-Ping Lin, Chuen-Fa Ni, and I-Hsien Li
 Numerical Investigations of Geologic Storage of Carbon Dioxide in Sedimentary Rock with Faults
- XL142 EGU2011-3320
Mariëlle Koenen and Tim Tambach
 Geochemical effects of impurities in CO₂ on long-term storage integrity
- XL143 EGU2011-4163
Yusuke Ishizawa, Keita Matsumoto, Kazuki Horie, Takahiro Sakaki, Natsuki Koyama, Mitsuyoshi Shoji, Satoshi Kuge, Kozo Sato, Komei Okatsu, and Yuji Miyake
 Accelerating of the reservoir simulation by the GPU
- XL144 EGU2011-10427
Thomas Kempka, Christoph Jahnke, Egbert Jolie, Inga Moeck, Nicole Schulz, Günter Zimmermann, and Michael Kühn
 Static and dynamic modeling for assessment of freshwater salinisation by CO₂ storage
- XL145 EGU2011-11591
Thomas Kempka, Holger Class, Uwe-Jens Görke, Olaf Kolditz, Michael Kühn, Ursula Lengler, Inga Moeck, Ben Norden, Lena Walter, Björn Zehner and the CO₂MAN modelling Team
 Current status of the modelling activities at the Ketzin CO₂ storage site
- XL146 EGU2011-9858
Melanie Darcis, Holger Class, Bernd Flemisch, and Rainer Helmig
 Multiphysics in time and space for the simulation of CO₂ storage in deep saline aquifers

- XL147 EGU2011-4346
I-Hsien Li, Chi-Ping Lin, and Chuen-Fa Ni
Field-scale simulations of CO₂ injection in saline aquifer in north Taiwan
- XL148 EGU2011-5329
Junho Oh, Kue-Young Kim, Taehee Kim, and Jeong-Chan Kim
Effect of well configurations on CO₂ geological storage
- XL149 EGU2011-5354
Chiawei Kuo and Sally Benson
Simulation Studies of Effect of Gravity, Flow Rate, and Small Scale Heterogeneity on Multiphase Flow of CO₂ and Brine
- XL150 EGU2011-6935
Laurent André and Mohamed Azaroual
Petrophysical and capillary properties of the host porous medium on the evaporation process during CO₂ injection in a deep saline aquifer
- XL151 EGU2011-7410
Fritjof Fagerlund, Josefin Ahlkrona, Hanna Holmgren, Kristin Nielsen, Zhibing Yang, Auli Niemi, and Gunilla Kreiss
Analysis of boundary conditions in numerical simulations of geological CO₂ storage
- XL152 EGU2011-7924
Nawaz Ahmad and Anders Wörman
Numerical-analytical studies of CO₂ leakage through fault with retardation due to matrix diffusion
- XL153 EGU2011-8067
Henry Power, David Stevens, Andrew Cliffe, and Aile Golin
Numerical analysis of the Coupling effect between dissolution at the interface and fingering evolution.
- XL154 EGU2011-8241
Mauro Buttinelli, Barbara Cantucci, Giuseppe Vico, Elio Bianchi, Davide Scrocca, and Fedora Quattrocchi
3D reconstruction, CO₂ plume flow, reactive transport and reservoir simulations of a potential structure for geological storage of CO₂
- XL155 EGU2011-8686
Kate Thatcher, Simon Mathias, Jon Gluyas, and Richard Davies
Simulating CO₂ storage in fluvial-channel structures of the Triassic Bunter Sandstone, Southern North Sea
- XL156 EGU2011-8802
Rebecca Neumann, Olaf Ippisch, and Peter Bastian
Comparison of Different Concepts for Modeling Two-phase Flow with Disappearing Gas Phase
- XL157 EGU2011-9405
Bastian Graupner, Katharina Benisch, Dedong Li, and **Sebastian Bauer**
Development and application of a coupled ECLIPSE - GeoSys modelling system for simulation of CO₂ storage in saline aquifers
- XL158 EGU2011-11087
Rouven Kuenze and Ivan Lunati
An adaptive iterative Multiscale Finite Volume method to simulate density-driven flow instabilities

Wednesday, 06 April

ERE1.3 – Hydrocarbons and coal: Challenges and new frontiers – Orals

Convener: Thomas Kempka | Co-Conveners: Ralph Schlüter, Hans-Martin Schulz, Andreas Busch, Reinhard F. Sachsenhofer, Frank van Bergen, Vladimir Kutcherov, Alexey Chernoutsan, Martin Krüger

Room: 3

Chairperson: n.n.

- 13:30–13:45 EGU2011-6561
Anton Kolesnikov and Vladimir Kutcherov
 Evidences for natural gas formation from inorganic materials under Earth's upper mantle conditions
- 13:45–14:00 EGU2011-8291
Kirill Ivanov, Yuri Fyodorov, Vladimir Pisetski, and Olga Pogromskaya
 Regarding oil deep origin and some consequences for oil and gas geology
- 14:00–14:15 EGU2011-13789
Valiya Hamza
 Structure of upper crust off the Southeast coast of Brazil: Indications for mantle origin of a giant hydrocarbon field
- 14:15–14:30 EGU2011-7863
 Renat Muslimov and **Irina Plotnikova**
 Geological and Geochemical Aspects of Abiotic Origin of Oil and Designing of a Special Well Drilling for Monitoring of Endogenous Processes
- 14:30–14:45 EGU2011-1738
Jop Klaver, Guillaume Desbois, and Janos Urai
 2D porosity mapping and distribution in an organic rich shale from the Middle East: preliminary results using a broad ion beam - scanning electron microscopy (BIB-SEM) approach
- 14:45–15:00 EGU2011-11835
Maya Kobchenko, Hamed Panahi, Francois Renard, Dag K. Dysthe, Anders Malthe-Sorensen, Adriano Mazzini, Julien Scheibert, Bjorn Jamtveit, and Paul Meakin
 Invasion-percolation fracturing controlled primary migration of hydrocarbons during heating of organic-rich shales

Chairperson: n.n.

- 15:30–15:45 EGU2011-7793
Frank van Bergen, Mart Zijp, and Susanne Nelskamp
 Evaluation of the potential of shale gas in the Netherlands
- 15:45–16:00 EGU2011-2062
Hartwig Gielisch
 Why coal fire "Hot spots" cannot be located using Remote Sensing or Infrared Mapping - Experiences from fieldwork in India and China
- 16:00–16:15 EGU2011-5116
Stefan Klebingat, Rafiq Azzam, Thomas Kempka, Ralph Schlüter, Marc Schulten, Peter Quicker, Christoph Neukum, and Tomas Fernandez-Steeger
 Modelling tar pollutant production and solubility in the frame of UCG with combined CO₂ storage
- 16:15–16:30 EGU2011-1277
Hong Tian, Thomas Kempka, Martin Feinendegen, and Martin Ziegler
 Study on ground subsidence development during and after underground coal gasification
- 16:30–16:45 EGU2011-6627
Yves Gensterblum, Bernd Krooss, and Paul Massarotto
 Results of mechanical, sorption and transport experiments on a German high volatile bituminous coal
- 16:45–17:00 EGU2011-2056
Sander Hol and Christopher J. Spiers
 Volumetric response of coal to CO₂ at pressures up to 100 MPa

ERE1.3 – Hydrocarbons and coal: Challenges and new frontiers – Posters

Convener: Thomas Kempka | Co-Conveners: Ralph Schlüter, Hans-Martin Schulz, Andreas Busch, Reinhard F. Sachsenhofer, Frank van Bergen, Vladimir Kutcherov, Alexey Chernoutsan, Martin Krüger

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL158 EGU2011-428
Natalie Nakaten, Thomas Kempka, Ralph Schlüter, Jörg Hamann, and Rafiq Azzam
Self-sustaining Carbamide production using the UCG-CC-Urea process
- XL159 EGU2011-13625
Oleksandr Ivakhnenko, Kaiyrgeldi Shayakhmet, **Djamiya Ismailova**, and Gauhar Bissekken
A new approach for coalbed methane production in Karaganda coal basin
- XL160 EGU2011-9176
Ralph Schlüter
CBM and Shale Gas - An Option for Germany?
- XL161 EGU2011-13646
Thomas Kempka, Tomás Fernández-Steeger, Dong-Yong Li, Marc Schulten, Ralph Schlüter, and Bernhard M. Krooss
CO₂ sorption on gasified coals
- XL162 EGU2011-10094
Yves Gensterblum and **Andreas Busch**
Gas and water sorption on coal for CBM and CO₂-ECBM
- XL163 EGU2011-6672
Yves Gensterblum, Andreas Busch, Berndhard M. Krooss, Guy de Weireld, Pierre Billefont, Patrick van Hemert, Karl-Heinz Wolf, and Delphine Charriere
Results of a European interlaboratory comparison on CO₂ sorption on coals and activated carbon
- XL164 EGU2011-6239
Fengshuang Han, Fangxin Tang, Andreas Busch, Bernhard M. Krooss, Zhenyu Liu, and **Jianli Yang**
Comparison study of gas permeability of coal plug in self- and triaxial-confining flow cell
- XL165 EGU2011-5366
Yi-Chen Lin and **Jing-Yi Lin**
3-D wide-angle seismic tomography offshore southwestern Taiwan area
- XL166 EGU2011-6631
Rimma Gottikh, Bogdan Pisotskiy, and **Irina Plotnikova**
Reduced Fluids in the Crystalline Basement and the Sedimentary Basin
- XL167 EGU2011-6757
Ulrich Berner
Basin sediments of the Wealden, an unconventional hydrocarbon play in NW Germany
- XL168 EGU2011-8224
Vladimir Pisetski, **Kirill Ivanov**, and Alexandr Sudilin
Conception of oil and gas bearing and lithosphere fluidodynamics of the Eastern part of the Khanty-Mansiysk region (West Siberia)
- XL169 EGU2011-10499
Ravil Ibatullin, Rais Khisamov, Venera Taipova, Marat Amerkhanov, and Valentina Slesareva
Deep energy and oil inflow testing for reservoir's resource supporting
- XL170 EGU2011-13520
Oleksandr Ivakhnenko, **Saniya Kanafina**, Valeriy Korobkin, and Zaure Bekmukhametova
Potential of gas and oil shale resources in Kazakhstan: Geological, geophysical and petrophysical aspects

ERE1.7 – Geothermal Energy – Orals

Convener: Jan-Diederik van Wees | Co-Conveners: Philipp Blum, Guido Blöcher, Peter Bayer, Philippe Calcagno, Christoph Clauser

Room: 11

Chairperson: n.n.

- 08:30–08:45 EGU2011-11024
Sierd Cloetingh, Jan-Diederik van Wees, and Fred Beekman
Lithosphere Tectonics and Enhanced Geothermal Systems Exploration in Europe
- 08:45–09:00 EGU2011-13054
Damien Bonté, Jan Diederik Van Wees, Laurent Guillou-Frottier, Vincent Bouchot, and Olivier Serrano
New temperatures for the Paris Basin — results from tectonic-Heat Flow modelling
- 09:00–09:15 EGU2011-10079
Valiya Hamza and Carlos Alexandrino
Improved assessment of Deep Crustal Thermal Field based on Joint Inversion of Heat Flow, Elevation, Geoid Anomaly data sets
- 09:15–09:30 EGU2011-8557
Luca Guglielmetti, Giuseppe Mandrone, Eva Schill, Adele Manzella, Serena Botteghi, Carlo Ungarelli, Yassine Abdelfettah, and Cesare Comina
Passive geophysical methods for geothermal exploration in the External Crystalline Argentera Massif of the Western Italian Alps: Gravity and Magnetotelluric

- 09:30–09:45 EGU2011-6758
Javid Safarov, Martin Stephan, Esmira Mammadova, Hannes Schmidt, Jürgen Nocke, Astan Shahverdiyev, and Egon Hassel
 Thermophysical Properties of Geothermal Energy Resources of Germany and Azerbaijan
- 09:45–10:00 EGU2011-8684
Darius Mottaghy, Renate Pechinig, Renate Taug, Jens Kröger, Claudia Thomsen, Fabian Hese, and Thomas Liebsch-Dörschner
 Geothermal 3-D modeling Hamburg and surrounding areas: Temperature prediction and reservoir simulation

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-999
Sebastian Homuth, Annette E. Götz, and Ingo Sass
 Outcrop analogue studies for reservoir characterization and prediction of deep geothermal systems in the Molasse Basin, Germany
- 10:45–11:00 EGU2011-5759
 Carlino Stefano, Somma Renato, **De Natale Giuseppe**, and Troise Claudia
 The geothermal potential of Campanian volcanoes: evaluation and opportunities.
- 11:00–11:15 EGU2011-3661
Philippe Calcagno, Vincent Bouchot, Isabelle Thinon, and Bernard Bourguin
 The Bouillante 3D Structural Model (French West Indies): a Tool for Geothermal Exploration Combining Onshore and Offshore Geological Knowledge
- 11:15–11:30 EGU2011-9291
Sakalima Sikaneta, Benoît Valley, and Keith Evans
 Stress heterogeneity in fractured crystalline rock masses at the EGS sites of Soultz and Basel
- 11:30–11:45 EGU2011-13905
Mauro Cacace, Guido Blöcher, Björn Lewerenz, Magdalena Scheck-Wenderoth, and Ernst Huenges
 3D modeling of fractured geological system - technique and numerical results
- 11:45–12:00 EGU2011-2514
Yvonne Cherubini, Mauro Cacace, and Magdalena Scheck-Wenderoth
 Assessment of the impact of faults on the coupled fluid and heat transport in a geothermal site (Groß Schönebeck, NE-German Basin): First results from 3D finite element simulations

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-2511
Günter Zimmermann, Andreas Reinicke, Guido Blöcher, Inga Moeck, Grzegorz Kwiatek, Wulf Brandt, Ali Saadat, and Ernst Huenges
 Concepts for Rock Specific Hydraulic Fracturing and Matrix Acidizing to Enhance a Geothermal System
- 13:45–14:00 EGU2011-7823
Arnold Blaisonneau, Mariane Peter, and Sylvie Gentier
 Experimental study of the fracture permeability evolution due to brine/rock interactions
- 14:00–14:15 EGU2011-11608
J. Ole Kaven, Stephen H. Hickman, and Nicholas C. Davatzes
 Micro-seismicity and hydrologic compartmentalization in the Coso geothermal reservoir, Inyo County, California
- 14:15–14:30 EGU2011-5268
Daisuke Oka, Yasuhiro Fujimitsu, Jun Nishijima, Yoichi Fukuda, and Makoto Taniguchi
 Geothermal Reservoir Monitoring by the Repeat Gravity Measurement at the Takigami Geothermal Field, Japan -Application of Hybrid Gravity Measurement using Absolute and Relative Gravimeters-
- 14:30–14:45 EGU2011-8142
Eva Schill, Philip Klingler, and Karl-Heinz Schädle
 Increase of productivity in the Riehen geothermal system (Switzerland): Tracer test and reservoir model
- 14:45–15:00 EGU2011-490
Samuel Scott, Ingvi Gunnarsson, Andri Stefánsson, and Stefán Arnórsson
 Geochemical Investigations of the Hellisheiði Geothermal Field, SW-Iceland

Chairperson: n.n.

- 15:30–15:45 EGU2011-5752
Giordano Montegrossi
Investigation of Calcite precipitation in geothermal reservoir
- 15:45–16:00 EGU2011-8407
Fiorenza Deon, Simona Regenspurg, and Günter Zimmermann
Interaction of ceramic proppants with geothermal brine: an experimental study of their reactivity
- 16:00–16:15 EGU2011-12612
Mashal Alawi, Stephanie Lerm, Markus Wolfgramm, Andrea Seibt, and **Hilke Wuerdemann**
Diversity of sulfate-reducing bacteria in a plant using deep geothermal energy
- 16:15–16:30 EGU2011-9541
Mikael Philippe, Michel Bernier, Dominique Marchio, and Hervé Lesueur
Experimental validation of a serpentine horizontal ground heat exchanger model
- 16:30–16:45 EGU2011-5409
Byoung Ohan Shim and Hyoung Chan Kim
Evaluation of the ground thermal conductivity and the borehole thermal resistance from thermal response tests in Korea
- 16:45–17:00 EGU2011-12750
Grant Ferguson
Assessing Risk in Open-Loop Heat Pump Systems

ERE1.7 – Geothermal Energy – Posters

Convener: Jan-Diederik van Wees | Co-Conveners: Philipp Blum, Guido Blöcher, Peter Bayer, Philippe Calcagno, Christoph Clauser

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- XL171 EGU2011-776
Thomas Reinsch, Jan Henninges, and Ragnar Ásmundsson
Distributed temperature sensing behind casing within a hot geothermal well - Results from a flow test in well HE-53, SW Iceland
- XL172 EGU2011-1041
Kun Sang Lee
Thermohydraulic Modeling on the Continuous Operation of Standing Column Wells under Regional Groundwater Flow
- XL173 EGU2011-1190
Kristian Bär, Marita Felder, **Annette E. Götz**, Nicolaas Molenaar, and Ingo Sass
The Rotliegend Reservoir System of the northern Upper Rhine Graben (Germany): From Pores to Production
- XL174 EGU2011-1395
Christian Vogt, Gabriele Marquart, Katja Iwanowski-Strahser, Juliane Arnold, Daniel Gnjezda, Darius Mottaghy, Renate Pechinig, and Christoph Clauer
An Integrated Assessment of Geothermal Reservoir Simulation - A Case Study
- XL175 EGU2011-1865
Fabien Magri, **Johannes Birner**, Toygar Akar, Ünsal Gemici, and Asaf Pekdeger
Geothermal springs associated with buoyant-driven fluid flow in the faults of the Seferihisar-Balçova system, Western Anatolia, Turkey - results from 3D simulations.
- XL176 EGU2011-2173
Jozsef Hecht-Méndez, Nelson Molina-Giraldo, Lorena Bello-Rujana, Peter Bayer, and Philipp Blum
Comparison of numerical and analytical modelling concepts for simulation of shallow open geothermal systems
- XL177 EGU2011-2446
Nina S. C. Simon, Magnus Loberg, Yuri Y. Podladchikov, and Ritske S. Huismans
Is enhanced heat and tracer transfer by intermittent porous flow an important process in deep geothermal systems?
- XL178 EGU2011-2487
Sonja L. Philipp, Steven Parchwitz, and Annette E. Götz
Geothermal Potential of the Upper Muschelkalk in Northeastern Germany
- XL179 EGU2011-3083
Björn Onno Kaiser, Mauro Cacace, Magdalena Scheck-Wenderoth, and Björn Lewerenz
The role of different heat drivers within the Northeast German Basin - Results from 3D numerical modelling of the coupled fluid and heat transfer
- XL180 EGU2011-3307
Laura Wasch and Tim Tambach
Geochemical modeling of reactions occurring during geothermal heat exploitation using PHREEQC

- XL181 EGU2011-3553
Haffen Sébastien, Geraud Yves, Diraison Marc, and Dezayes Chrystel
Petrophysical characteristics of sandstones dating from the Buntsandstein in the Upper Rhine Graben: case of the borehole EPS1 (Soultz-Sous-Forêts, France)
- XL182 EGU2011-5097
Sana`a Al-Zyoud, Wolfram Rühaak, and Ingo Sass
Utilization of a basaltic aquifer for cooling purposes in Harrat Al-Shaam, Jordan - a feasibility study
- XL183 EGU2011-5839
Renate Pechinig, Juliane Arnold, and Darius Mottaghy
Methods to derive statistically proved input parameter for geothermal models: Examples from sedimentary basins and crystalline basement rocks.
- XL184 EGU2011-6230
Dorothea Reyer, Johanna F. Bauer, and Sonja L. Philipp
Influence of fault zones on fracture systems in sedimentary geothermal reservoir rocks in the North German Basin
- XL185 EGU2011-6361
Johanna F. Bauer and Sonja L. Philipp
How structural geology can contribute to geothermal exploration: a case study from Germany
- XL186 EGU2011-6405
Norihito Watanabe, Wenqing Wang, **Haibing Shao**, Joshua Taron, and Olaf Kolditz
Application of an extended finite element method for modeling fully coupled hydromechanical processes in discrete fracture-rock matrix systems
- XL187 EGU2011-7088
Hannah Pomella, Hugo Ortner, Marcel Schulz, Michael Zerlauth, and Bernhard Fügenschuh
Deep geothermal potential in an orogenic wedge: examples from western Austria
- XL188 EGU2011-7585
Stephanie Lerm, Mashal Alawi, Rona Miethling-Graff, Andrea Seibt, Markus Wolfgramm, Kerstin Rauppach, and Hilke Würdemann
Microbiological monitoring on two geothermally used aquifers in the North German Basin
- XL189 EGU2011-8147
Roman Zorn, Hagen Steger, Anja Grunert, Oliver Mielenz, Thomas Kölbl, and Lena Eggeling
A vertical cylindrical collector system for the indirect energetic use of groundwater
- XL190 EGU2011-8587
Luca Guglielmetti, Cesare Comina, and Giuseppe Mandrone
Experimental modelling of thermal flow in saturated and unsaturated conditions and geophysical controls.
- XL191 EGU2011-8597
Luca Guglielmetti, Cesare Comina, and Giuseppe Mandrone
ULTRASONIC Ultrasonic test in geothermal heat exchangers (bhe) to monitor grout integrity against migration of contaminants into ground water system. TEST IN GEOTHERMAL HEAT EXCHANGERS (BHE) TO MONITOR GROUT INTEGRITY AGAINST MIGRATION OF CONTAMINANTS INTO
- XL192 EGU2011-8709
Volker Wittig and Rolf Bracke
Innovative Hydraulic DTH Drilling Technology based on Coiled Tubing for deep, hard rock Geothermal Drilling
- XL193 EGU2011-8838
Gabriele Marquart, Christian Vogt, Volker Rath, and Christian Kosack
Permeability Estimation from Tracer Circulation Tests using the Ensemble Kalman Filter - the Soultz-sous-Forêts case
- XL194 EGU2011-8904
Alan G. Jones, Mark Muller, Stephen Daly, Alistair Allen, Roisin Goodman, Taly Hunter-Williams, Monica Lee, and Derek Reay
IRETHERM: A New Project to Develop a Strategic and Holistic Understanding of Ireland's Geothermal Energy Potential
- XL195 EGU2011-9754
Markus Proell
Method for layer dependent evaluation of the ground heat conductivity
- XL196 EGU2011-9795
Anke Westphal, Stephanie Lerm, Mashal Alawi, Andrea Seibt, Markus Wolfgramm, and Hilke Würdemann
Microbial induced mineral precipitation and corrosion in geothermal plants
- XL197 EGU2011-10054
Barbara Hahne, Rüdiger Thomas and the gebo Geosystem Team
Combined geoscientific investigations of geothermal reservoir characteristics in Lower Saxony, Germany
- XL198 EGU2011-10308
Anton Reshetnikov, Makky Jaya, Stefan Buske, Joern Kummerow, and Serge Shapiro
Characterisation of a geothermal reservoir using microseismic data

- XL199 EGU2011-10400
Makky Jaya, Harald Milsch, David Bruhn, Serge Shapiro, and Liney Kristinsdóttir
Compressional wave velocities and attenuation of saturated geothermal rocks during a liquid-steam phase transition
- XL200 EGU2011-10717
Eva Wegerer, Lorenz Scheucher, Godfrid Wessely, Gregor Götzl, and Rudolf Ramberger
Analyses of the thermal parameters of Calcalpine basement rocks of the Vienna Basin for a hydrothermal reservoir assessment
- XL201 EGU2011-10790
Ingrid Stober and Kurt Bucher
Depth- and Pressure dependent Permeability in the Upper Continental Crust - Data from the Urach 3 Geothermal Well
- XL202 EGU2011-11035
Katja Iwanowski-Strahser, Juliane Arnold, Christian Vogt, Eva Szalaiová, and Wolfgang Rabbel
Seismic assessment of the geothermal potential of North German Basin sediments - From seismic to a geothermal model
- XL203 EGU2011-11037
Eva Szalaiová, Gabriele Marquart, Christian Kosack, Renate Pechinig, Katja Iwanowski-Strahser, Christoph Clauser, and Wolfgang Rabbel
From seismic to a geothermal model. Seismic assessment of geothermal potential of the Continental Deep Drillhole (KTB) site, Germany
- XL204 EGU2011-11128
Davide Maritan and Alessandro Trevisan
Layout selection in shallow geothermal systems; some case studies in Italy
- XL205 EGU2011-11244
Christian Kosack, Volker Rath, and Darius Mottaghy
Parameter Estimation of the Geothermal Reservoir at Soultz-sous-Forêts
- XL206 EGU2011-11288
Yves Géraud, Joachim place, Edouard Le Garzic, Marc Diraison, and Martin Stanek
Petrophysical properties of fault zones in granite body, implication for deep geothermal reservoir behaviour.
- XL207 EGU2011-11537
Henning Francke
Model of two-phase flow in the brine circuit of a geothermal power plant
- XL208 EGU2011-11672
Peter Bayer, Dominik Saner, Philipp Blum, and Ronnie Jurasko
Environmental impacts from geothermal heat pump systems: A cradle-to-grave analysis
- XL209 EGU2011-11783
Amélie Neuville, Renaud Toussaint, and Jean Schmittbuhl
Anisotropy and scaling of the hydro-thermal behavior in a rough fracture
- XL210 EGU2011-11831
Ke Zhu, **Peter Bayer**, Klaus-Dieter Balke, Steffen Rehner, Grant Ferguson, and Philipp Blum
Urban heat islands in the subsurface
- XL211 EGU2011-11919
Christoforos G. Koutitas and Stamatia K. Arvanitidou
A computational tool for a first-cut engineering analysis in coastal aquifers management
- XL212 EGU2011-13007
Annarita Mangiacapra, Monica Piochi, Angela Mormone, Maria Giulia Di Giuseppe, Claudia Troise, and Giuseppe De Natale
New physical, textural and mineralogical data on rock samples cored in 1981-1985 geothermal deep wells at Campi Flegrei caldera
- XL213 EGU2011-13288
Jan-Diederik van Wees, Damien Bonte, hanneke Verweij, and Leslie Kramers
High resolution tectonic temperature models for EGS and direct heat in sedimentary basins: a case study of the Netherlands
- XL214 EGU2011-13324
Jan-Diederik Van Wees, leslie Kramers, Alexander Kronimus, Maarten Pluymaekers, and Harmen Mijnlief
ThermoGIS: An Integrated Web-Based Information System for Geothermal Exploration and Governmental Decision Support for Mature Oil and Gas Basins
- XL215 EGU2011-13347
Jan-Diederik van Wees, Martha Faneca-sanchez, Leslie Kramers, and Alexander Kronimus
Subsurface spatial planning for aquifer production under subsurface uncertainty: using best practices from oil and gas industry
- XL216 EGU2011-13773
Giovanni Ruggieri, Adele Manzella, Giordano Montegrossi, and Luigi Dallai
Relation between resistivity variations and mineralogical composition of the lithological units in the Travale geothermal area (Southern Tuscany, Italy)

ERE5.3 – Sustainability of traditional construction materials in modern society – Orals

Convener: Richard Prikryl | Co-Conveners: Miguel Gomez-Heras, Ákos Török

Room: 3

Chairperson: Richard Prikryl

- 08:30–08:45 EGU2011-211
Dolores Pereira and Barry J. Cooper
Building stone as a part of a World Heritage site: "Piedra Pajarilla" Granite and the city of Salamanca, Spain
- 08:45–09:00 EGU2011-3773
brian marker and barry cooper
Extraction and use of building and roofing stone - some sustainability issues
- 09:00–09:15 EGU2011-5360
Yuan Hu, Jinhua Wang, Feng Gao, and Xiao Zhou
The Deterioration Mechanism study for sandstone of Avalokitesvara Sculptures on the Dazu Rock Carvings
- 09:15–09:30 EGU2011-6614
Miguel Gomez-Heras and Jorge Sanjurjo Sánchez
Establishing maximum temperatures attained during building fires with thermoluminescence
- 09:30–09:45 EGU2011-8753
Zuzana Kompaníková, Miguel Gomez-Heras, Patricia Vázquez, and Jan VI?ko
Evolution of petrophysical properties of Spanish building granites at high temperatures
- 09:45–10:00 EGU2011-8990
Luis Albornoz-Parra, Paul Everett, Emily Tracey, and Martin Gillespie
Identifying replacement stones for use in building repairs: an integrated system for improved stone matching

COFFEE BREAK

Chairperson: Miguel Gomez-Heras

- 10:30–10:45 EGU2011-9358
Björn Schouenborg and David Burton
Sustainable use of natural stone as paving material
- 10:45–11:00 EGU2011-9870
Feng Gao
Mechanism of Corrosion and Color Inconsistency on Gold Foil Surface of Avalokitesvara in Dazu Rock Carvings
- 11:00–11:15 EGU2011-13215
Aurélie Turmel, Gilles Fronteau, Céline Thomachot-Schneider, Xavier Morvan, and Vincent Barbin
GIS-based variability of building materials toward the Ile-de-France cuesta (Paris Basin, France): inventory, distribution, uses and relationship with environment
- 11:15–11:30 EGU2011-4053
Anna Frangipane
From spolia to recycling. The reuse of traditional construction material facing sustainability: a review
- 11:30–11:45 EGU2011-8806
Johannes Weber and the ROCARE Consortium Team
The EU project ROCARE: 19th century Roman cements - historic binders with properties of interest for purposes of restoration and healthy construction
- 11:45–12:00 EGU2011-13379
Anja Diekamp, Jürgen Konzett, and Peter W. Mirwald
Dolomitic lime mortar - burning, slaking and setting

ERE5.3 – Sustainability of traditional construction materials in modern society – Posters

Convener: Richard Prikryl | Co-Conveners: Miguel Gomez-Heras, Ákos Török

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Ákos Török

- XL217 EGU2011-659
Katerina Kovarova
The Influence of Prague Winter Climatic Conditions on Sandstone Weathering

- XL218 EGU2011-2943
Aneta Stastna and Richard Prikryl
Lithotheque of Czech historical carbonate stones: the present state of investigation
- XL219 EGU2011-2962
Zuzana Seidlova, Richard Prikryl, and Sarka Sachlova
Alkali-silica reactivity of volcanic rocks as documented by combination of mortar-bar and gel-pat tests
- XL220 EGU2011-3002
Katerina Krutilova and **Richard Prikryl**
Relationship between mechanical and technologic properties of volcanic rocks used for aggregates
- XL221 EGU2011-4756
Anna Arizzi and **Giuseppe Cultrone**
Properties of calcitic and dolomitic lime mortars used for rendering purposes
- XL222 EGU2011-4517
Krzysztof Labus and **Ma?gorzata Labus**
Quader sandstones - porosity, durability and deterioration
- XL223 EGU2011-5337
xiao zhou
Advance in the study of the weathering profile of sandstone on China Yungang Grottoes Based on Hyperspectral Imaging
- XL224 EGU2011-5640
tian xingling, **gao feng**, zhou xiao, hu yuan, and zhou kechao
Analysis of the stones of Thousand Hand Buddhism by the combination of on-site and laboratory techniques
- XL225 EGU2011-12990
Ákos Török, Balázs Szemerey-Kiss, and Siegfried Siegesmund
Comparative analyses of the physical properties of repair mortar used in Hungarian limestone monuments
- XL226 EGU2011-10265
Tatiana D'Arpino, Luca Aldega, Ciriaco Giampaolo, Sergio Lo Mastro, Gianluigi Romani, and Maurizio Mariottini
Mineralogical, petrographical and mechanical characterization of second century blocks from a Roman latomia: a building stone of the ancient Rome.
- XL227 EGU2011-5689
Hua zhou, Feng Gao, Miao Yang, Yuan Hu, Kechao Zhou, and Changsui Wang
Application of Portable X-ray Radiography instrument to assess the weathering condition of the Avalokitesvara Sculpture in Dazu Rock Cavings, China
- XL228 EGU2011-5873
Domenico Calcaterra, Piergiulio Cappelletti, Abner Colella, Alessio Langella, Vincenzo Morra, Francesco Allocca, Anna Claudia Angrisani, Gabriella Calicchio, Marco D'Amore, and Maurizio de Gennaro
Historical dimension stones from the carbonate Apennines of Campania region (Italy)
- XL229 EGU2011-6579
Miguel Gomez-Heras, Mikel Sanz, Monica Alvarez de Buergo, Mohamed Oujja, Rafael Fort, Mariela Speranza, Asuncion De los Rios, Carmen Ascaso, Sergio Perez-Ortega, and Marta Castillejo
Assessing thermal interactions during laser cleaning by means of infrared thermal imaging
- XL230 EGU2011-7217
Elisabetta Zendri, Manuela Sgobbi, Anna Remotto, Marta Melchiorre Di Crescenzo, Eleonora Balliana, and Guido Biscontin
Chemical Characterization of Finish Treatments on Bricks in the North of Italy: Historic Knowledge to Restore Using Traditional Materials and Methods
- XL231 EGU2011-7424
George Triantafyllou, Richard P?ikryl, and Theodoros Markopoulos
Reactivity of hydraulic lime binders: A proposed laboratory testing technique
- XL232 EGU2011-7745
Manuela Mattone, **Lucia Toniolo**, and Elena Bignamini
Conservation Strategies for Earthen Constructions
- XL233 EGU2011-7710
Taha Ashour and Wei Wu
Using of wheat straw as natural reinforcement of earth plaster for straw bale buildings
- XL234 EGU2011-7469
Victoria Shushakova, Edwin R. Fuller, and Siegfried Siegesmund
Thermoelastic responses of calcitic and dolomitic marbles: influence of shape fabric and crystal texture.
- XL235 EGU2011-7617
Taha Ashour, Markus Rauchecker, and Wei Wu
The influence of cement, gypsum and lime on the compressive strength of un-fired earth bricks
- XL236 EGU2011-8614
Anna Arizzi and Giuseppe Cultrone
Testing the hardened properties of mortars prepared according to the Wet Packing Method: is this model truly successful?

- XL237 EGU2011-9012
Andreas Chandrinou, Ioannis Baziotis, and **George Leontakianakos**
Evaluating the role of tin (SnO₂) as a natural mineralizer-oxide on the cement properties
- XL238 EGU2011-9296
Gilles Fronteau, **Aurélien Turmel**, Céline Thomachot-Schneider, and Jean-Paul Deroin
Building material supply strategy in "Chalky Champagne" area (France): combined use of local raw materials and importations from surrounding regions.
- XL239 EGU2011-9935
Martin Bednarik, Rudolf Holzer, Marek Laho, Martin Dun?ko, and Ivana Šimková
Dimension stone of historic monuments of the UNESCO site Banská Štiavnica and its significant resources
- XL240 EGU2011-11547
Heidrun Stück, Jörg Rüdlich, and Siegfried Siegesmund
Drei Gleichen Area (Germany/Thuringia): Petrology, petrophysics and weathering phenomena of dimension stones
- XL241 EGU2011-11717
Wanja Wedekind, Bernhard Middendorf, and Siegfried Siegesmund
Dry slaked mortars and hot lime mortars for the restoration of historical monuments and stone
- XL242 EGU2011-12626
Michael Unterwurzacher and Ulrich Obojes
Experimental frost/thaw studies on marbles
- XL243 EGU2011-12801
Andrzej Domonik and **Joanna Pini?ska**
Historical rock mining. Geosites and their geological engineering assessment
- XL244 EGU2011-12832
Maria Sileo, **Gianni Leucci**, Angela Calia, and Loredana Matera
Petro-physic and mechanical properties to study compact (thick) and soft calcareous rocks employed in historical apulian heritage (Southern Italy)
- XL245 EGU2011-3007
Richard Prikryl, Petr Kozlovcev, and Aneta Stastna
Re-evaluation of Bohemian Lower Palaeozoic limestones for the production of alternative hydraulic binders
- XL246 EGU2011-8909
Ákos Török, Szabolcs Csányi, and Ágnes Krupa
Deterioration and preservation of limestone and ceramics used in the construction of the building of the Hungarian Academy
- XL247 EGU2011-14199
Wolfgang P. Weinhold, Feng Gao, Yang Wang, and Winfried Weinhold
Mobile optical surface and material documentation and analysis of his-torical documents and textiles

HS8.2.9 – Sedimentary basins as active fluid circulation systems (co-listed) – Orals

Convener: David Hindle | Co-Conveners: Sabine Attinger, Piotr Krzywiec

Room: 34

Chairperson: David Hindle

- 15:30–15:45 EGU2011-3005
Jonas Kley and the INFLUINS Team
INFLUINS: Investigating fluid flow between surface and deep levels of sedimentary basins: The Thuringian Basin as a geolaboratory
- 15:45–16:00 EGU2011-4310
David Hindle and Heidrun Kopp
Coupled fluid flow and deformation in sedimentary basins over geological timescales: A numerical modelling approach for accretionary prisms.
- 16:00–16:15 EGU2011-6279
Sophie Violette, Julio Gonçalvès, Anne Jost, Raffaella Vivona, Camille Contoux and the 3D-PBM Team
3D-Paris basin Modelling: How past geological history explains its present day hydrodynamics
- 16:15–16:30 EGU2011-6504
Elco Luijendijk, Paul Andriessen, Mark Person, Ronald van Balen, and Marlies ter Voorde
Tracing a fossil hydrothermal system using thermochronology and numerical modeling
- 16:30–16:45 EGU2011-11966
Denis Bureau, Joe Cartwright, and Regis Mourgues
Exploitation of mechanical weaknesses by sandstone intrusions
- 16:45–17:00 EGU2011-1408
Klaus Hebig, Narimitsu Ito, Traugott Scheytt, and Atsunao Marui
Parameter determination in a deep coastal sedimentary basin by single-well ("push-pull") tests
-

HS8.2.9 – Sedimentary basins as active fluid circulation systems (co-listed) – Posters

Convener: David Hindle | Co-Conveners: Sabine Attinger, Piotr Krzywiac

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- A362 EGU2011-5070
Alraune Zech, Bjoern Zehner, Thomas Fischer, Olaf Kolditz, and Sabine Attinger
Modelling of thermohaline circulation in sedimentary basins
- A363 EGU2011-7151
Ronny Stolz, Andreas Chwala, Viatcheslav Zakosarenko, Marco Schulz, Matthias Schmelz, Sven Linzen, Hans-Georg Meyer, Matthias Meyer, and Nikolai Bondarenko
SQUID based instrument for investigation of magnetic structures
- A364 EGU2011-9392
Arkadiusz K. Wieczorek and Kai U. Totsche
Atomic Force Microscopy as a tool to characterize groundwater colloids
- A365 EGU2011-10283
Pierre Durst, **Eline Malcuit**, Philippe Negrel, and Emmanuelle Petelet-Giraud
Impact of sedimentologic and structural evolution of the Aquitaine Basin on actual water quality. Eocene sand aquifer, south western France.
- A366 EGU2011-12819
Norbert Kasch, Jens Köster, Robert van Geldern, Markus Wehrer, and **Jonas Kley**
Burial, exhumation and fluid flow in a Buntsandstein aquifer, central Germany
- A367 EGU2011-12853
Alexander Malz, **Stephan Donndorf**, and Jonas Kley
Late Cretaceous inversion tectonics in the Thuringian Basin (Germany) - The Finne Fault Zone as an example of a differentially inverted graben system
- A368 EGU2011-13383
Maria Brey, Juraj Majzlan, and **Michael Abratis**
Mineralizing fluids related to barite-fluorite fissure mineralizations at the southern edge of the Thuringian Basin, Germany
- A369 EGU2011-13743
Bjoern Zehner
Extending Gocad to improve the modelling - simulation - visualization workflow.
- A370 EGU2011-13819
Daniel Beyer, Cindy Kunkel, Ulrike Hilse, Michaela Aehnelt, Dieter Pudlo, Thomas Voigt, and Reinhard Gaupp
Reservoir properties and fluid circulation in Buntsandstein aquifer sandstones of the Thuringian Basin in Central Germany
- A371 EGU2011-13821
Ulrike Hilse, Dieter Pudlo, and Reinhard Gaupp
Element mobilization and mineral (re-)precipitation in sedimentary rocks from Central Germany on a microscopic scale
- A372 EGU2011-13839
Thomas Fischer, Björn Zehner, Alraune Zech, Sabine Attinger, and Olaf Kolditz
A vertically integrated 2D groundwater model of the Thuringian basin.

Thursday, 07 April

ERE2.5 – Site Characterization for CO₂ Geological Storage Sites – Orals

Convener: Auli Niemi | Co-Conveners: Marco Dentz, Martin Sauter, Jesús Carrera, Michael Kühn, Bert van der Meer

Room: 3

Chairperson: Auli Niemi, Martin Sauter

- 08:30–08:45 EGU2011-8097
Sonja Martens, Thomas Kempka, Axel Liebscher, Stefan Lüth, Fabian Möller, Michael Kühn, and Ketzin Group
 The Ketzin Project - Progress of Europe's longest-operating on-shore CO₂ Storage Site
- 08:45–09:00 EGU2011-6028
Jacob Bensabat, Auli Niemi, Thomas Fierz, Martin Sauter, and Gabriele Wiegand
 Experimental program and technical implementation of CO₂ injection experiment in a deep geological formation at Heletz, Israel
- 09:00–09:15 EGU2011-9963
Philippe Pezard, Nataliya Denchik, Johanna Lofi, Hervé Perroud, Omar Jaafar, Denis Neyens, and Simon Barry
 SIMEX at Maguelone (Languedoc coastline, France): a shallow injection experimental site to test CO₂ storage monitoring techniques from a multi-method approach.
- 09:15–09:30 EGU2011-10490
Jesús Carrera, Orlando Silva, Andrés Pérez-Estaún, José L. Fuentes, Félix Mateos, and Modesto Montoto
 Characterization and Injection Tests Planned at the Hontomin CO₂ Injection Site
- 09:30–09:45 EGU2011-3832
Bernhard Mayer, Gareth Johnson, Maurice Shevalier, Michael Nightingale, and Ian Hutcheon
 Accounting for Injected CO₂ at the Pembina Cardium CO₂ Monitoring Project, Alberta, Canada
- 09:45–10:00 EGU2011-5282
Tissa Illangasekare, Luca Trevisan, Derrick Rodriguez, Abdullah Cihan, Jens Birkholzer, and Quanlin Zhou
 A fundamental study of migration and entrapment of supercritical CO₂ in heterogeneous deep geologic formations: intermediate scale testing and modeling

COFFEE BREAK

Chairperson: Marco Dentz, Jesus Carrera

- 10:30–10:45 EGU2011-7291
Fritjof Fagerlund, Auli Niemi, Jacob Bensabat, and Vladimir Shtivelman
 Evaluation of design options for a field experiment of CO₂ injection to a deep layered aquifer at the Heletz site using numerical modelling
- 10:45–11:00 EGU2011-7918
Jacob Covault, William Craddock, and Madalyn Blondes
 CO₂ column height influenced by geothermal gradient in sedimentary basins of the USA
- 11:00–11:15 EGU2011-8103
Victor Vilarrasa, Sebastia Olivella, and Jesus Carrera
 Hydromechanical Characterization Test for CO₂ Sequestration in Deep Saline Aquifers
- 11:15–11:30 EGU2011-11630
Khaled Jemai, Bjørn Kvamme, Ashok Chejara, and Mohammad Taghi Vafaei
 Simulation of geomechanical effects of CO₂ injection in fractured reservoir
- 11:30–11:45 EGU2011-7667
Frank Dethlefsen, Christoph Haase, and Markus Ebert
 Uncertainties in geochemical modeling using different software programs and thermodynamic datasets
- 11:45–12:00 EGU2011-8316
Jerker Jarsjö, Andrew Frampton, Vladimir Cvetkovic, and Georgia Destouni
 Scenario analysis of CO₂ injection into a multilayered saline aquifer system of Scania, Sweden

LUNCH BREAK

Chairperson: Michael Kuhn, Auli Niemi

- 13:30–13:45 EGU2011-7760
Florence Delprat-Jannaud, Olivier Vincké, Maxine Akhurst, Suzanne Brunsting, Peter Frykman, Ane Lothe, Marcin Mazurowski, Filip Neele, Samuela Vercelli, and Valentina Volpi
 SiteChar - Characterization of European CO2 storage
- 13:45–14:00 EGU2011-3668
Marc Fleury, Serge Gautier, Pierre Boulin, Nicolas Gland, Ben Norden, and Cornelia Schmidt-Hattenberger
 Petrophysical measurements for CO2 storage: application to the Ketzin site.
- 14:00–14:15 EGU2011-8693
Detlef Lazik, Sebastian Ebert, and Hans-Joerg Vogel
 New sensor approach for separating CO2 - sources in subsurface monitoring
- 14:15–14:30 EGU2011-9687
Nicoleta Enescu, Calin Cosma, Christopher Juhlin, and Fengjiao Zhang
 Seismic Methodology for Characterization of Deep Saline Aquifers for CO2 Storage
- 14:30–14:45 EGU2011-5801
Khaled Mahmud Shams and Christof Lempp
 Modelling of In-situ Stress Regime in Cap Rocks in Parts of the North German Basin
- 14:45–15:00 EGU2011-11020
Gesa Kuhlmann, Sascha Gast, and Holger Wirth
 Characteristics of Lower Triassic and Jurassic reservoir and seal formations as depicted from borehole evidence in the eastern part of the North German Basin with regard to CO2 storage

ERE2.5 – Site Characterization for CO2 Geological Storage Sites – Posters

Convener: Auli Niemi | Co-Conveners: Marco Dentz, Martin Sauter, Jesús Carrera, Michael Kühn, Bert van der Meer

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Auli Niemi, Marco Dentz, Martin Sauter, Jesus Carrera, Michael Kuhn, Bert van der Meer

- XL119 EGU2011-8340
Gregor Goetzl, Isabelle Czernichowski-Lauriol, Rowena Stead, and Vit Hladik
 CGS Europe - A pan-European coordination action on CO2 Geological Storage
- XL120 EGU2011-13955
Michael Kühn, Mario Wipki, Sevkett Durucan, Jean-Pierre Deflandre, Alexander Kronimus, Andy Chadwick, and Sergio Persoglia
 CO2CARE - CO2 Site Closure Assessment Research
- XL121 EGU2011-9743
Mikael Erlström, Auli Niemi, and Fritjof Fagerlund
 The MUSTANG site characterisation programme
- XL122 EGU2011-1307
Vladimir Shtivelman, Michael Gendler, and Igor Goldberg
 3D geological model of potential CO2 reservoir for the Heletz test site
- XL123 EGU2011-2227
Daniel Scradeanu and Mihaela Pagnejer
 3D parametric model of a potential trap for carbon dioxide storage. Case study: oil structure Valcele, Romania.
- XL124 EGU2011-2442
Christian Sperber and Manfred Wuttke
 Horstberg, NW Germany: a unique test site for CO2-sequestration in saline aquifers
- XL125 EGU2011-9755
Kristina Rasmusson, Auli Niemi, and Mikael Erlström
 Subsurface characterisation and modeling of a CO2 test site in south Scania, Sweden, with special emphasis on the treatment of hydrogeological heterogeneity
- XL126 EGU2011-6891
Manuel Marquez Carrillo and Maria Jose Jurado Rodriguez
 Petrophysical Characterization of a CO2 storage reservoir using well logs
- XL127 EGU2011-11016
Ana Isabel López Barrera
 Geological characterization of potential reservoirs and seal formations for CO2 storage in the basins of Iberian Peninsula based on Well Logging
- XL128 EGU2011-2632
Christina Flechsig, Claudia Schütze, Robert Bussert, and Horst Kämpf
 An Integrative Geoelectric, Sedimentologic and Soil Gas Investigation of a Magmatic CO2 Degassing Structure in the Cheb Basin/Czech Republic: A Natural Analogue Study to Understand Transport Processes in the Near Surface

- XL129 EGU2011-11802
Prabhakar Sharma, Auli Niemi, Chin-Fu Tsang, Jacob Bensabat, and Philippe Pezard
Flowing Fluid Electric Conductivity Logging Method as a Tool to Characterize the Hydraulic Conductivity Structure of a Target Layer for CO₂ Injection
- XL130 EGU2011-2823
Martin Sauter, Julia Ghergut, Horst Behrens, Tobias Licha, and Michael Kühn
Brine-phase spiking during CO₂ injection at the Ketzin site, Germany
- XL131 EGU2011-2836
Julia Ghergut, Horst Behrens, Friedrich Maier, Tobias Licha, and Martin Sauter
Dual-tracer, single-well push-pull method for determining fluid-rock interface densities in geo-reservoirs
- XL132 EGU2011-8754
Martin Nottebohm and Tobias Licha
Investigation of thermosensitive tracers for the investigation of the thermal regime in CO₂ sequestration reservoirs
- XL133 EGU2011-5243
Martin Sauter, Julia Ghergut, Christian Sperber, Manfred Wuttke, and Manuela Lodemann
Tracer-assisted characterization of Horstberg site in the N-German Sedimentary Basin: bad news, or good news for georeservoir use?
- XL134 EGU2011-4818
Tobias Roetting, Jesus Carrera, and Orlando Silva
Hydrogeochemical characterization and monitoring at the Hontomin site (Spain) for geological storage of CO₂
- XL135 EGU2011-9629
Julia Ghergut, Jac Bensabat, Horst Behrens, Tobias Licha, Friedrich Maier, Mario Schaffer, and Martin Sauter
Single-well and inter-well tracer test design for characterizing the Heletz site (Israel) with a view at CCS
- XL136 EGU2011-11011
Barbara Nisi, Javier de Elío, Orlando Vaselli, Franco Tassi, Fidel Grandia, and Luis Felipe Mazadiego
Geochemical monitoring in the Hontomín (Burgos, Spain) injection site: preliminary results and perspectives.
- XL137 EGU2011-11814
Fritjof Fagerlund, **Fuguo Tong**, Auli Niemi, Tobias Licha, and Martin Sauter
Modelling of novel tracers in a two-phase flow system for characterization of geologically stored CO₂ in deep saline formations
- XL138 EGU2011-12078
Juan J. Hidalgo, Caroline de Dieuleveult, Pierre Agrinier, and Vincent Lagneau
A reactive transport model of CO₂ injection in basaltic rocks
- XL139 EGU2011-4139
Marco Dentz, Philippe Gouze, and Jesus Carrera
Mass Transfer Limitations and Non-Locality for Large Scale Reactive Transport
- XL140 EGU2011-7512
Francesca De Gaspari, Jesús Carrera, Maarten Saaltink, and Orlando Silva
Investigation of geochemical processes during CO₂ injection using "push-pull
- XL141 EGU2011-6799
Maria Rasmusson, Kristina Rasmusson, Fritjof Fagerlund, Auli Niemi, Jacob Bensabat, and Vladimir Shtivelman
Modeling of single-well CO₂ injection-withdrawal experiment to be carried out at the Heletz site
- XL142 EGU2011-7107
Halidi Abdoulghafour, Linda Luquot, and Philippe Gouze
Hydro-thermo-chemical study of CO₂ rich-brine percolation through fractured cement
- XL143 EGU2011-10565
Claudia Schuetze, Peter Dietrich, Karin Braeuer, Gerhard Strauch, Eckhard Faber, Ingolf Dumke, Stefan Schloemer, Horst Kaempf, Christina Flechsig, and Tomas Fischer
The Cheb Basin (Czech Republic) as a potential natural analogue site for geological carbon sequestration - past, current and planned activities
- XL144 EGU2011-4979
Katriona Edmann, Christopher McDermott, and Stuart Haszeldine
Experimental investigation of coupled processes affecting caprock seal integrity for CO₂ sequestration
- XL145 EGU2011-6101
Jacob Bensabat, **Myra Kitron-Belinkov**, Kristina Rasmusson, Maria Rasmusson, Auli Niemi, and Jacob Bear
Model for the dependence of conditions at the injection well head and the reservoir during CO₂ injection
- XL146 EGU2011-11096
Christian Kosack and Andrei Zschocke
Thermodynamic behaviour of CO₂ during the injection into low pressure reservoirs

- XL147 EGU2011-7087
Julie Lions, Ian Gale, Erik Nygaard, Heike Rütters, Franz May, Wolfram Kloppmann, Stanley Beaubien, Mehran Sohrabi, Dimitrios G. Hatzignatiou, Ludmilla Basava-Reddi and the CO2GeoNet Members involved in the present study Team
 Potential impacts on groundwater resources of deep CO2 storage
- XL148 EGU2011-12297
Peter Pils, Martin Zimmer, and Jörg Erzinger
 Long-Term Surface CO2-Flux Monitoring at the Ketzin CO2 Storage Test Site
- XL149 EGU2011-13190
Oleksandr Ivakhnenko, Kalamkas Seitova, and Laura Utemisova
 CO2 and sour gas recycling model in carbonate gas condensate reservoir: Dynamic storage, upstream pollution reduction and enhancement of hydrocarbon recovery
- XL150 EGU2011-4398
 Cédric Laveuf, Corinne Loisy, Grégory Cohen, **Adrian Cerepi**, Michel Franceschi, François Larroque, Olivier Le Roux, Philippe Delaplace, Caroline Magnier, Virgile Rouchon and the Bruno Garcia (2) Team
 The CO2-Vadose Project: Geophysical and geochemical monitoring of CO2 migration in a carbonate reservoir in the vadose zone. Experimental design and the baselines
- XL151 EGU2011-14002
Rachel Berkowitz and Andrew W Woods
 Experimental Models of CO2 Leakage from Subsurface Aquifers
- XL152 EGU2011-3431
Hsueh-yu Lu
 A Semi-quantitative Estimation of CO2 Mineral Sequestration in Miocene Basalt in Northwestern Taiwan
- XL153 EGU2011-1240
Dieter Pudlo, Daniel Albrecht, Leonhard Ganzer, Reinhard Gaupp, Ulrike Hilse, Bernd Kohlhepp, Viktor Reitenbach, and Joachim Wienand
 The impact of diagenetic fluid-rock reactions on the alteration of central German Rotliegend sandstones - a baseline evaluation on potential CO2 reservoir rocks
- XL154 EGU2011-2955
Jih-hao Hung and Jong-chang Wu
 In-Situ Stress and Fault Reactivation Associate with LNG Injection in the Tienchanshan Gas Field, Fold-Thrust Belt of Western Taiwan

ERE2.6 – Biogeochemical and microbiological aspects of Geologic Carbon Capture and Storage – Orals

Convener: Hilke Würdemann | Co-Conveners: Oleg Pokrovsky

Room: 3

Chairperson: Hilke Würdemann

- 15:30–15:45 EGU2011-14145
Judith A. McKenzie and Crisogono Vasconcelos
 Microbial Induced Mineral Formation in the Deep-Subsurface Biosphere
- 15:45–16:00 EGU2011-9534
Karim Benzerara, Estelle Couradeau, Emmanuelle Gérard, David Moreira, and Purificación López-García
 Study of Mg-carbonate precipitation by laboratory cultivated microbialites
- 16:00–16:15 EGU2011-1598
Vasileios Mavromatis, Liudmila Shirokova, Irina Bundeleva, Oleg Pokrovsky, Pascale Bénézech, Eric Oelkers, and Emmanuelle Gerard
 Biomineralization of hydrous Mg carbonates in the Salda Lake, SW Turkey: New insights from stable Mg isotopes.
- 16:15–16:30 EGU2011-13354
Patrick Meister
 A natural CO2 reservoir in the Peru Margin: what can we learn for CO2 storage?
- 16:30–16:45 EGU2011-5080
Anne Gunn Rike, Marion Børresen, Othilde Elise Hovelsrud, Thomas H.A. Haverkamp, Tom Kristensen, and Kjetill S. Jacobsen
 Microbial characterization of seabed sediments overlaying the proposed CO2 storage site Johansen formation
- 16:45–17:00 EGU2011-10596
Andrea Kassahun, Thomas Muschalle, Claudia Gniese, and Nils Hoth
 Analysis of biomolecules and microbial transformation products in gas field formation waters and in laboratory experiments simulating geological storage of carbon dioxide

ERE2.6 – Biogeochemical and microbiological aspects of Geologic Carbon Capture and Storage – Posters

Convener: Hilke Würdemann | Co-Conveners: Oleg Pokrovsky

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Hilke Würdemann

- XL155 EGU2011-3726
Liudmila Shirokova, Jordan Guntram, Oleg Pokrovsky, and Pascale Benezeth
 Interaction of heterotrophic bacteria extracted from CO₂ injection pilot site with diopside surfaces: A combined macroscopic kinetic and AFM approach
- XL156 EGU2011-14030
Dagmar Kock, Daria Morozova¹, Janin Frerichs, Hilke Würdemann, and Martin Krüger
 Distribution and activities of microorganisms in the reservoir and around gas wells in a long-term used gas field in the Altmark, Germany
- XL157 EGU2011-12243
Daria Morozova, Mashal Alawi, Dagmar Kock, Martin Krüger, and Hilke Würdemann
 Baseline characterization of the deep microbial life for the Enhanced Gas Recovery in the Altmark natural gas reservoir
- XL158 EGU2011-13910
Hilke Würdemann, Daria Morozova, Maren Wandrey, and Michael Zettlitzer
 Geochemical and microbial monitoring during CO₂ storage in deep subsurface saline aquifers in Ketzin pilot site, Germany
- XL159 EGU2011-12166
Daria Morozova, Daniela Lett, Michael Zettlitzer, and Hilke Würdemann
 Insights into microbial community composition and its response to the CO₂ injection and storage in the saline aquifer, Ketzin, Germany
- XL160 EGU2011-12310
Daniela Lett, Daria Morozova, and Hilke Würdemann
 Fluorescence in situ Hybridisation - a useful tool for analysing the microbial community from a saline aquifer during CO₂ storage in Ketzin
- XL161 EGU2011-12546
Linda Pellizzari, Maren Wandrey, Mashal Alawi, Dieter Voigt, and Hilke Würdemann
 Controlling drill mud contamination - Laboratory experiments
- XL162 EGU2011-14089
Monika Kasina, Patrick Meister, Maren Wandrey, and Hilke Würdemann
 Microbial induced changes of mineral composition in a CO₂ storage site, Ketzin, Germany
- XL163 EGU2011-13345
Monika Kasina, Anne Kleyböcker, Daria Morozova, Marietta Liebrich, Maren Wandrey, and Hilke Würdemann
 Microbial influence on mineral creation in carbon capture and storage (CCS) procedures
- XL164 EGU2011-12658
 Julia West, Ian McKinley, **Caroline Graham**, Barbara Palumbo-Roe, and Christopher Rochelle
 Potential impact of CO₂ storage on subsurface microbial ecosystems and implications for groundwater quality
- XL165 EGU2011-13499
Burt Thomas, Yousif Kharaka, and Robert Rosenbauer
 Methanogenic growth at high partial pressures of CO₂: Implications for the injection of CO₂ into biogenic gas reservoirs
- XL166 EGU2011-13904
Oleg Pokrovsky, Liudmila Shirokova, Gabrielle Stockman, Svetlana Zabelina, Pascale Bénézech, Emmanuelle Gerard, Benedicte Menez, and Harald Alfredsson
 Quantifying the role of microorganisms in silicate mineral dissolution at the conditions of CO₂ storage in basalts
- XL167 EGU2011-14028
Evgeniya Yu. Li, Patrick Meister, and Timothy G. Ferdelman
 pH effect of Fe oxidation during abiotic and microbially mediated silicate weathering: Implications for CO₂ sequestration in subsurface storage sites

EOS06/BG1.14/CL5.1/ERE5.4 – Modern Climate Science Education and Communications (co-organized) – Orals

Convener: Klaus Grosfeld | Co-Conveners: Annette Ladstaetter-Weissenmayer, Eva-Maria Pfeiffer, Oliver Dilly

Room: 29

Chairperson: n.n.

08:30–08:45 EGU2011-8969

Christina Klose and Dierk Hebbeln

The Bremen International Graduate School for Marine Sciences - GLOMAR

- 08:45–09:00 EGU2011-13164
Eva-Maria Pfeiffer, Detlef Stammer, Oliver Dilly, and **Hermann Held**
Interdisciplinary MSc and Doctoral Education in Climate System Science at the University of Hamburg
- 09:00–09:15 EGU2011-11972
Marianela Fader, **Andreas Hilboll**, Florian Rauser, and Sebastian Sonntag
Presenting Young Earth System Scientists (YESS) - a new network for new scientists
- 09:15–09:30 EGU2011-7511
Heike Huebener
Regional environmental agencies as facilitators for communicating climate change information
- 09:30–09:45 EGU2011-5766
Kirsti Jylhä and Reija Ruuhela
Visualization of climate change information - feedback from web page visitors
- 09:45–10:00 EGU2011-9511
Jennifer Lenhardt, Richard W. Müller, Uwe Pfeifroth, and the EURO4M team
The EURO4M project: Improving climate data products and services by interacting with climate data users

EOS06/BG1.14/CL5.1/ERE5.4 – Modern Climate Science Education and Communications (co-organized) – Posters

Convener: Klaus Grosfeld | Co-Conveners: Annette Ladstaeetter-Weissenmayer, Eva-Maria Pfeiffer, Oliver Dilly

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Klaus Grosfeld

- Z1 EGU2011-10213
Lorenz Martin, **Christoph Raible**, and Martin Grosjean
The Graduate School of Climate Sciences, University of Bern
- Z2 EGU2011-9833
Klaus Grosfeld, Gerrit Lohmann, Annette Ladstätter-Weißenmayer, John Burrows, Claudia Sprengel, Claudia Hanfland, Jelle Bijma and the joint ESSReS-PEP-POLMAR Team
ESSReS-PEP-POLMAR, an international and interdisciplinary postgraduate education concept on Earth and Environmental Sciences
- Z3 EGU2011-6623
Avan Antia, Kerstin Hoffmann, and Angelika Hoffmann
Education for
- Z4 EGU2011-13047
Antje Weitz and Bjorn Stevens
Structured supervision of doctoral studies in the IMPRS-ESM
- Z5 EGU2011-12028
Enrica Caporali, Elena Palmisano, and Juna Valdiserri
Enhancing Environment Education in Eastern Europe
- Z6 EGU2011-8395
Susanne Pfeifer, Hinnerk Ries, and Daniela Jacob
From regional climate models to climate change impact assessment: data support and demand
- Z7 EGU2011-11195
Peter Lemke, **Klaus Grosfeld**, Marietta Weigelt, Renate Treffeisen and the REKLIM Speakers Team
Climate Initiative Regional Climate Change (REKLIM), from climate simulation to climate advice
- Z8 EGU2011-12369
Hinnerk Ries, Daniela Jacob, and Richard Schmitt
Perceived temperature as an indicator for extreme events
- Z9 EGU2011-12901
hossien sharifan, Mona Saffar, A.Ahmad Dehghani, and Mohsen Tahmasebi
Investigation of Water temperature effects on Evaporation from of Salt Water Surfaces
- Z10 EGU2011-12779
hossien sharifan, Mehry Abdi, and Afsaneh Asady
Forecasting of annual precipitation in Different Regions

ESSI8 – Uncertainty in Environmental Data and Models (co-listed) – Orals

Convener: Dan Cornford | Co-Conveners: Stefano Nativi, Edzer Pebesma, Gerard Heuvelink

Room: 19

Chairperson: n.n.

- 13:30–13:45 EGU2011-13514
Sarah Cornell
Social perspectives on environmental risk and uncertainty

- 13:45–14:00 EGU2011-11580
Jon Olav Skøien, Grégoire Dubois, Phuong Truong, Dan Cornford, and Michael Shulz
Uncertainty propagation in assessing ecosystems similarities - an example application using eHabitat
- 14:00–14:15 EGU2011-5932
Kristin Vogel, Carsten Riggelsen, and Frank Scherbaum
Learning Ground Motion Models from Data using Bayesian Networks
- 14:15–14:30 EGU2011-7767
Johan deHaan, Maarten Sneep, and Pepijn Veeffkind
Retrieval algorithms for TROPOMI - improving error estimates of retrieved quantities by using Optimal Estimation with explicit a priori data
- 14:30–14:45 EGU2011-1880
Lindsay Collins, Ken Carslaw, Graham Mann, Kirsty Pringle, and Dominick Spracklen
A systematic approach to computer model evaluation, using a global aerosol model
- 14:45–15:00 EGU2011-11001
Wouter Dorigo, Robert Parinussa, Klaus Scipal, Yi Liu, Richard de Jeu, and Wolfgang Wagner
Error characterisation of global active and passive microwave soil moisture data sets
- Chairperson: n.n.
- 15:30–15:45 EGU2011-9677
Heiko Mueller, Qing Liu, Quan Bai, Corne Kloppers, and Andrew Terhorst
Enabling Assessment and Propagation of Information Quality in the South Esk Hydrological Sensor Web
- 15:45–16:00 EGU2011-5384
Lucy Bastin, Matthew Williams, John Paul Gosling, Phuong Truong, Dan Cornford, Gerard Heuvelink, and Frederic Achard
Web Based Expert Elicitation of Uncertainties in Environmental Model Inputs
- 16:00–16:15 EGU2011-8339
Judith Versteegen, Floor van der Hilst, Derek Karssenbergh, and André Faaij
Communicating Uncertainty in Spatial Decision Support Systems - a Case Study of Bioenergy-Crop Potentials in Mozambique
- 16:15–16:30 EGU2011-3230
Didier G. Leibovici, Amir Pourabdollah, and Mike Jackson
Meta-propagation of Uncertainties for Scientific Workflow Quality Management in Interoperable Spatial Data Infrastructures
- 16:30–16:45 EGU2011-10149
Siegbert Kunz and Kym Watson
A Spatial Information Infrastructure for linking environmental and health data: the approach to information fusion including uncertainty handling in the EO2HEAVEN project
- 16:45–17:00 EGU2011-5554
Lydia E. Gerharz, Benjamin Proß, Christoph Stasch, and Edzer Pebesma
A Web-based Uncertainty-enabled Information System for Urban Air Quality Assessment

ESS18 – Uncertainty in Environmental Data and Models (co-listed) – Posters

Convener: Dan Cornford | Co-Conveners: Stefano Nativi, Edzer Pebesma, Gerard Heuvelink

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Dan Cornford

- XL199 EGU2011-769
Euan Macrae, Clare Bond, and Zoe Shipton
Quantification of uncertainty in geoscience interpretation: a statistical analysis of the factors that affect interpretational ability
- XL200 EGU2011-2965
Antonia K. Runge, Frank Scherbaum, and Carsten Riggelsen
Quantification of expert knowledge for PSHA using graphical tools
- XL201 EGU2011-2642
Christopher Moseley, Claus Döring, Bernd Ahrends, and Oleg Panferov
Uncertainties in regional climate scenarios data and their effect on results of impact models in forestry
- XL202 EGU2011-3372
Rachel Lowe, David Stephenson, Trevor Bailey, Tim Jupp, Richard Graham, and Adrian Tompkins
Communicating probabilistic climate-sensitive disease risk forecasts
- XL203 EGU2011-13186
Dan Cornford, Richard Jones, Alexis Boukouvalas, and Remi Barillec
Statistical Issues of Managing Uncertainties in Environmental Models

- XL204 EGU2011-13126
Dan Cornford, Edzer Pebesma, Stefano Nativi, Matthew Williams, Christoph Stasch, Richard Jones, and Lydia Gerharz
Realising the Uncertainty Enabled Model Web
- XL205 EGU2011-4077
Kerry Gallagher, Thomas Bodin, Malcolm Sambridge, Dominik Weiss, Malin Kylander, and David Large
Inference of abrupt changes in noisy data records using Bayesian transdimensional changepoint models
- XL206 EGU2011-5057
Matthias Vanmaercke, Jean Poesen, Faruk Ocakoglu, Mahmood Arabkhedri, and Maria Radoane
How long should we measure to obtain reliable average catchment sediment yields?
- XL207 EGU2011-11108
Mohamar Ouedraogo, **Aurore Degré**, Eléonore Beckers, and Charles Debouche
A methodology to assess the exactness of Stream Network modeling process on agricultural watersheds
- XL208 EGU2011-10893
Philipp Weihs and the actinicflux Team
The influence of the spatial resolution of topographic input data on the accuracy of 3-D UV actinic flux and irradiance calculations
- XL209 EGU2011-7018
Nadine Goris and Hendrik Elbern
Singular vector based uncertainties of initial values and emissions for the ZEPTEP-2 campaign
- XL210 EGU2011-2566
Maurice Cox, Alistair Forbes, Nigel Fox, Peter Harris, Graham Machin, and Michael de Podesta
Metrological issues in producing gridded temperature data sets
- XL211 EGU2011-9630
Greg Timms, Ben Howell, Paulo de Souza, Claire D'Este, Daniel Smith, Ross Atkins, and Chris Sharman
Automated Assessment and Visualisation of Measurement Uncertainties in a Low-Cost Marine Sensor Network
- XL212 EGU2011-7137
Richard Wartenburger, Alexander Stickler, and Stefan Brönnimann
Quality Control of Selected Historical Radiosonde Observations from 1948-1966
- XL213 EGU2011-8871
David Huard and Diane Chaumont
Bayesian uncertainty analysis of climatological changes in IDF curves
- XL214 EGU2011-7428
Nikos Gianniotis, Carsten Riggelsen, and Frank Scherbaum
Ensembles of Ground Motion Models
- XL215 EGU2011-9504
Anja Vrežko and Tomaž Podobnikar
Error Assessment of DEM generated from Contours

OS4.6 – Ocean Science in Support of Marine Renewable Energy (co-listed) – Posters

Convener: Daniel Conley | Co-Conveners: Phil Hosegood

Halls X/Y | Display Time 08:00–19:30

Author in Attendance: 15:30–17:00

Chairperson: Daniel Conley; Merrick Haller

- XY648 EGU2011-2832
Mark Hemer and David Griffin
The wave energy resource along Australia's southern margin
- XY649 EGU2011-4304
Gianmaria Sannino, Andrea Bargagli, Adriana Carillo, Luca Liberti, Vittorio Ruggiero, and Piero Lanucara
Assessment of the present and near future wave potential along the Mediterranean coasts: a high resolution numerical modeling study.
- XY650 EGU2011-6802
Jean-François Dorville, Raphael Cécé, Juvenal Dufaur, Sandrine Samot, Sony Broussillon, Maïna André, and Ruddy Blonbou
Determination of the marine potential energy in the French West Indies for the building of energy converter pilot
- XY651 EGU2011-9445
Merrick Haller, Pukha Lenee-Bluhm, David Newborn, Tuba Ozkan-Haller, Ken Rhinefrank, David Hill, David Honegger, and Aaron Porter
Experiments on the near-field and far-field wave effects of WEC arrays

- XY652 EGU2011-9622
Fotis Sotiropoulos, Leonardo P. Chamorro, Seokkoo Kang, and Roger Arndt
On the structure of turbulence around hydrokinetic turbines in an open channel: Experiments and numerical simulations
- XY653 EGU2011-11944
Francisco J. Ocampo-Torres and Pedro Osuna
Energy resources evaluation from wave records and historical simulation in the coastal region of the Baja California Peninsula
- XY654 EGU2011-11950
George Kallos, George Galanis, Christina Mitsakou, Panos Athanasiadis, Christos Spyrou, Sarantis Sofianos, and Christina Kalogeri
Energy resource mapping at the framework of MARINA PLATFORM project
- XY655 EGU2011-12472
Roberto Mínguez, **Antonio Espejo**, Antonio Tomás, Melisa Menéndez, Fernando J. Méndez, and Inigo J. Losada
Directional Calibrated Wind and Wave Reanalysis Databases using Instrumental Data for Optimal Design of Off-Shore Wind Farms
- XY656 EGU2011-13546
Rosa Maria Prol-Ledesma, Carlos Lechuga Deveze, Manel Fernández Ortiga, Antonio Correia, Evgueni Shumilin, Carles Canet, Dayán Rodríguez, and Viridiana Vázquez
High heat flow and gas discharge in a nascent spreading center in the northern Gulf of California
- XY657 EGU2011-13863
Daniel Conley and Martin Austin
The Use of HF Radar for Resource Assessment

Friday, 08 April

ERE3.2/GD1.3/GMPV53 – Mineral systems: from geological, geochemical and geophysical data to metallogenic systems simulation (co-organized) – Orals

Convener: Christopher Juhlin | Co-Conveners: Gilles Bellefleur, Klaus Gessner, Mark Jessel, Robert P. Moritz, Peter Sorjonen-Ward, Olivier Vanderhaeghe, Pär Weihed

Room: 3

Chairperson: Chris Juhlin, Gilles Bellefleur

- 08:30–08:45 EGU2011-71
Alireza Malehmir and Gilles Bellefleur
 Reflection seismic studies of mineral deposits and their host-rock structures: two case studies from Sweden and Canada
- 08:45–09:00 EGU2011-4578
Kreshimir N. Malitch and Rais M. Latypov
 New insights on the origin of ultramafic-mafic intrusions and associated PGE-Cu-Ni sulphide deposits of the Talnakh ore junction (Noril'sk province, Russia): geophysical and geochronological evidence
- 09:00–09:15 EGU2011-4854
Ernst Schetselaar, Don White, Doreen Ames, Eric de Kemp, Eric Grunsky, Sally Pehrsson, Christine Devine, Michal Malinowski, Jennie Byron, and Harold Gibson
 A Framework for 3D Multiparameter Mapping of VMS Ore Systems illustrated with a Case Study from the Flin Flon Mining District, Trans-Hudson Orogen, Canada
- 09:15–09:30 EGU2011-2197
Michal Malinowski, Don White, and Ernst Schetselaar
 3-D seismic modelling in the Flin Flon mining camp, Canada
- 09:30–09:45 EGU2011-8521
Colin Farquharson, Peter Lelièvre, and Charles Hurich
 Unified geophysical and geological 3-D Earth models
- 09:45–10:00 EGU2011-9869
Pietari Skyttä, Tobias Hermansson, Jenny Andersson, and Pär Weihed
 Age constraints on mineralization and deformation processes in the Palaeoproterozoic Skellefte District, Sweden

COFFEE BREAK

Chairperson: Olivier Vanderhaeghe, Peter Sorjonen-Ward

- 10:30–10:45 EGU2011-10123
Justine Jaguin, Marc Poujol, Denis Gapais, Philippe Boulvais, and Jean-François Moyen
 DEFORMATION/MINERALIZATION (Sb) COUPLING WITHIN THE MURCHISON GREENSTONE BELT, SOUTH AFRICA
- 10:45–11:00 EGU2011-2422
Romain Tartèse, Philippe Boulvais, Marc Poujol, and Eric Gloaguen
 The late Carboniferous Variscan evolution of the Armorican Massif (France): magmatism, hydrothermalism and metallogenic consequences
- 11:00–11:15 EGU2011-4319
Alison Ord, Bruce Hobbs, and Dan Lester
 The Development of Redox-pH-fronts in Hydrothermal Systems
- 11:15–11:30 EGU2011-4101
Olivier Vanderhaeghe, Fabre Cécile, Moyen Jean-François, André-Mayer Anne-Sylvie, Barbey Pierre, and Cuney Michel
 Cratons radioactivity, crustal growth, paleogeotherms and metallogenic provinces
- 11:30–11:45 EGU2011-7616
John Grocott, Armelle Kloppenburg, and David Hutchinson
 Quantitative Structural Modelling to Determine a Valid Kinematic Framework for the Cu-Au-Mo Porphyry Mineralisation System at Bingham Canyon, Utah, USA
- 11:45–12:00 EGU2011-2966
Mark Lindsay, Stéphane Perrouy, Mark Jessell, Laurent Aillères, Eric deKemp, and Peter Betts
 Model space exploration of the Ashanti Greenstone Belt, southwestern Ghana

ERE3.2/GD1.3/GMPV53 – Mineral systems: from geological, geochemical and geophysical data to metallogenic

systems simulation (co-organized) – Posters

Convener: Christopher Juhlin | Co-Conveners: Gilles Bellefleur, Klaus Gessner, Mark Jessel, Robert P. Moritz, Peter Sorjonen-Ward, Olivier Vanderhaeghe, Pär Weihed

Hall XL | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Pär Weihed, Olivier Vanderhaeghe, Chris Juhlin

- XL138 EGU2011-35
Alexander Rodnikov, Natalia Sergeeva, and Ludmila Zabarinskaya
Geodynamic and Metallogeny in the Pacific Mobil Belt
- XL139 EGU2011-223
Mahdieh Dehghannejad, Tobias Bauer, Alireza Malehmir, Christopher Juhlin, Rodney Allen, and Pär Weihed
Reflection seismic imaging to construct a 3D/4D geological model of the Skellefte Ore District, northern Sweden
- XL140 EGU2011-689
María de los Ángeles García Juanatey, Peter Hedin, Juliane Hübert, Ari Tryggvason, and Christopher Juhlin
MT and seismic reflection data in northwestern Skellefte Ore District, northern Sweden.
- XL141 EGU2011-5999
Changryol Kim and Ho-Sung Yoon
Integrated Geophysical Investigations of the Uranium Deposit in the Okcheon Metamorphic Belt in Korea
- XL142 EGU2011-6130
Jeongsul Son, Jung-ho Kim, and Samgyu Park
Complex resistivity survey for mineral exploration using L1 norm inversion
- XL143 EGU2011-6544
Samgyu Park, Jeong-Sul Son, Seong-Jun Cho, Jung-Ho Kim, and Changryol Kim
Application of Electrical Resistivity Survey for Detecting the Skarn Ore Body
- XL144 EGU2011-7934
Inna Yu. Badanina and **Kreshimir N. Malitch**
Origin of platinum-group mineral (PGM) nuggets from the Bor-Uryakh massif (Maimecha-Kotui Province, Russia): evidence from mineral composition
- XL145 EGU2011-9436
Anikina Elena and Gamyarin Gennady N.
Features of formation of silver-polymetallic deposits of Kolyma-Verkhoyansk fold belt (Russia)
- XL146 EGU2011-9573
Klaus Gessner, Vanessa Markwitz, and Alok Porwal
Structural controls on hydrothermal mineralization in the Menderes Massif, western Turkey
- XL147 EGU2011-11785
Elena Amplieva, Viktor Ivanov, Viktor Beltenev, and Irina Dobretsova
Semenov submarine hydrothermal massive sulfide cluster (13°31'N, Mid-Atlantic Ridge)
- XL148 EGU2011-13150
Lena V. S. Monteiro, Carolina P. N. Moreto, André L. S. Pestilho, Caetano Juliani, Roberto P. Xavier, and Anthony E. Fallick
Evolution of iron oxide-copper-gold deposits from the Southern Copper Belt, Carajás Mineral Province, Brazil
- XL149 EGU2011-13595
Luis Alva-Valdivia
The Peña Colorada iron oxide-ores, México: Petrological characterization
- XL150 EGU2011-2755
Gilles Bellefleur, Eric de Kemp, Jean Goutier, and Michel Allard
Seismic Imaging of the Geological Framework and Structures Related to Volcanogenic Massive Sulfide Deposits in the Archean Rouyn-Noranda District, Québec, Canada
- XL151 EGU2011-7534
Pietari Skyttä, Tobias Bauer, Saman Tavakoli, Pär Weihed, Rodney Allen, Mahdieh Dehghannejad, Maria García Juanatey, and Juliane Hübert
Multiscale 3/4D-modelling of mineral belts - examples from the Skellefte Mining District, Sweden
- XL152 EGU2011-11434
Eevaliisa Laine, Jouni Luukas, Aimo Ruotsalainen, Ilkka Suppala, Jukka Kousa, and Raimo Lahtinen
3D modeling of the bedrock surrounding the Lampinsaari and Kuuhkamo Zn-Cu deposits in the Vihanti area, Finland
- XL153 EGU2011-1183
Tola Mirza
Genesis of white acidic intrusion in Mawat Ophiolite Complex, Kurdistan Region, NE Iraq
- XL154 EGU2011-5355
Weronika Gorczyk, Bruce Hobbs, Guizhi Zhu, Klaus Gessner, and Alison Ord
INTRA-CRATONIC Lithosphere HETEROGENEITIES, FAULTING and Rayleigh-Taylor Instabilities - insight from 3D numerical modelling

- XL155 EGU2011-29
mohamadali rajabzadeh and **soqra rasti**
Mineralization study on Iron deposits from Dehbid area, Fars province, South Iran: Geochemical and mineralogical data
- XL156 EGU2011-236
susan ebrahimi
Geology, mineralogy and fluid characteristics of the Masjed Daghi epithermal gold deposit, NW Iran
- XL157 EGU2011-318
Seyedeh Zahra Afshooni, Dariush Esmaeily, and Hooshang Asadi Haroni
The study of mineralography in Kahang exploration area (NE Isfahan)
- XL158 EGU2011-1222
Dicle Bal Akkoca and Sevcan Kürüm
Regional Variations in Clay Mineralogy and Geochemistry of Mn-Rich Marine Clays from Maden-Hazar Basin in the Neotethys, (Eastern Turkey)
- XL159 EGU2011-4100
Julie Machault, Luc Barbanson, Thierry Augé, Laurent Bailly, and Alexandre Felicio
Traceability of concentrate: characterization of microfacies and consideration of mineral processing
- XL160 EGU2011-3799
Benoit Rivard, Derek Rogge, Jilu Feng, Brian Grant, and Jamie Pardie
Hyperspectral sensing in support of mineral exploration in the arctic: example from the Cape Smith Nickel belt, Canada
- XL161 EGU2011-5412
Arnaud Pecher, Nicholas Arndt, Arthur Bauville, Clément Ganino, Mei-fu Zhou, Iacono Marziano Giada, Gaillard Fabrice, and Charlotte Arthurion
Pumping Iron from a Metamorphic Aureole into an Steeply Inclined Dyke-like Intrusion; a New Model for the Formation of the Panzhihua Fe-Ti-V Deposit
- XL162 EGU2011-11958
Nicola Mondillo, Maria Boni, and Giuseppina Balassone
Supergene Zn-dolomite: an old-new actor on the nonsulphide ore scene

ERE4.1 – Landscape functionality and conservation management – Orals

Convener: Antonio Leone | Co-Conveners: Veerle Van Eetvelde, Federica Gobattoni, Raffaele Pelorosso

Room: 3

Chairperson: Antonio Leone

- 13:30–13:45 EGU2011-4332
Danica Zupanski and Ratko Ristic
Impact of floating debris from the Drina River and mitigation measures
- 13:45–14:00 EGU2011-7815
Paul Passy, Josette Garnier, Gilles Billen, Corinne Fesneau, and Julien Tournebize
Landscape management and nutrient transfers through a watershed. How to decrease nitric pollution in the intensive agricultural basin of the Seine (France)?
- 14:00–14:15 EGU2011-13881
Laura Melelli and Mario Floris
A new Geodiversity Index as a quantitative indicator of abiotic parameters to improve landscape conservation: an Italian case study.
- 14:15–14:30 EGU2011-4030
Raffaele Pelorosso, Stefano Della Chiesa, Ulrike Tappeiner, Antonio Leone, and Duccio Rocchini
Conservation strategies definition for large abandoned landscape of Mediterranean basin
- 14:30–14:45 EGU2011-4023
Federica Gobattoni, Raffaele Pelorosso, Giuliana Lauro, Antonio Leone, and Roberto Monaco
PANDORA: Procedure for mathematical analysis of landscape evolution and equilibrium scenarios Assessment
- 14:45–15:00 EGU2011-9971
Filiberto Lembo
Semi-underground houses and their role in the building of sustainable urban landscape

ERE4.1 – Landscape functionality and conservation management – Posters

Convener: Antonio Leone | Co-Conveners: Veerle Van Eetvelde, Federica Gobattoni, Raffaele Pelorosso

Hall XL | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Raffaele Pelorosso

- XL163 EGU2011-49
Irina Averkieva and Irina Pripulina
Impact of landscape factors an anthropogenic emission on reactive nitrogen accumulation in forests of Central Russia
- XL164 EGU2011-4028
Raffaele Pelorosso, Federica Gobattoni, Antonio Leone, and Arnoud Temme
A dynamic landscape evolution model for P export estimation from crops through sediment volume assessment: the case of the lake Bolsena watershed, Italy.
- XL165 EGU2011-5753
Fabio Recanatesi, Maria Nicolina Ripa, and Antonio Leone
Remote sensing change detection of vegetation: a case study from Palestinian West Bank using GIS and Landsat TM data
- XL166 EGU2011-8030
Catrin Promper, Margreth Keiler, and Thomas Glade
Anthropogenic influenced landscape - a multi-temporal analysis of high alpine catchments
- XL167 EGU2011-12476
Antonella Guida, **Antonello Pagliuca**, and Gianluca Rospì
Microclimatic performance of a restored hypogeuem: the case of "Locanda di San Martino
- XL168 EGU2011-13453
Giulia Curatola, Boris Thies, Hanna Meyer, and Joerg Bendix
Landscape Dynamics in Southern Ecuador's Tropical Mountain Forest Ecosystem Using Remote Sensing Techniques
- XL169 EGU2011-13397
Ingrid Jacquemin, Corentin M. Fontaine, Rik De Vreese, Louis François, Allyson Marek, Ann Van Herzele, Guénaël Devillet, and Nicolas Dendoncker
Participatory valuation and modelling of ecosystem services under land use change
- XL170 EGU2011-7981
Francesco Fava, Claudio Zucca, and Pier Paolo Roggero
Vegetation condition assessment and monitoring in Mediterranean agropastoral regions
- XL171 EGU2011-11867
Giuseppe Pulighe, Francesco Fava, Claudio Zucca, Salvatore Madrau, Massimo D'Angelo, and Roberto Scotti
Mapping land cover changes associated with restoration actions to combat desertification in a Mediterranean sylvopastoral landscape
- XL172 EGU2011-12918
Janine Kettering, Bora Lee, Steve Lindner, Ralf Kiese, Yakov Kuzyakov, and John Tenhunen
N budget in intensive agriculture under monsoon climate: an extensive balance approach for nitrogen fluxes on landscape scale
- XL173 EGU2011-12392
Pedro Dinis, João Almeida, Alexandre Tavares, and Marina Cabral Pinto
Relations between lithology and soil use in a wine production region (Bairrada region, Portugal)
- XL174 EGU2011-367
Nunzia Casale, Filiberto Lembo, and Francesco Paolo R. Marino
Principles and case studies of bioclimatic semi-underground architecture
- XL175 EGU2011-538
Catiana Calcagno, Filiberto Lembo, and Francesco Paolo R. Marino
New semi-underground house models, high density-low rise
- XL176 EGU2011-10007
Francesco Paolo R. Marino
Criticality of the isolation choices of the underground building to the ground
- XL177 EGU2011-12936
Antonio Michele Zaminga
Multi-family settlement in the northern side of Potenza Italy
- XL178 EGU2011-1872
Juan Antonio Pascual-Aguilar, Vicente Andreu, Pablo Vázquez, and Yolanda Picó
Detection of illicit drugs on surface waters of interconnected urban, agricultural and natural wetlands water networks

ERE5.1/GMPV32/HS12.1/SSS2.9 – Coupled reactive transport: Codes, applications and trends (co-organized) – Orals

Convener: Georg Kosakowski | Co-Conveners: Josep M. Soler, Peter Alt-Epping

Room: 3

Chairperson: Peter Alt-Epping

- 15:30–15:45 EGU2011-716
Maria Gabriela Davila Ordoñez, Maria Garcia Rios, Josep M. Soler, and Jordi Cama
 Modeling the dissolution of calcite coupled to gypsum precipitation in acid brines
- 15:45–16:00 EGU2011-2202
 Yaniv Edery, Harvey Scher, and **Brian Berkowitz**
 Modeling Dissolution and Precipitation Dynamics During Dedolomitization
- 16:00–16:15 EGU2011-4128
Jennifer Palguta, Colin F. Williams, Steven E. Ingebritsen, Stephen H. Hickman, and Eric Sonnenthal
 An approach for modeling geothermal reservoir behavior using the reactive transport simulator TOUGHREACT
- 16:15–16:30 EGU2011-11479
Caroline de Dieuleveult, Vincent Lagneau, and Juan Hidalgo
 Development of an isotopic fractionation and filiation module in the reactive transport code HYTEC
- 16:30–16:45 EGU2011-721
Andrey Afanasyev
 Simulation of multiphase flows of binary mixtures under sub- and supercritical conditions
- 16:45–17:00 EGU2011-12020
Marco De Lucia, Susanne Stadler, Matthias Rateitzak, and Michael Kühn
 Evaluating uncertainties in geochemical modelling for CO₂ storage: multivariate sensitivity analysis of database entries

ERE5.1/GMPV32/HS12.1/SSS2.9 – Coupled reactive transport: Codes, applications and trends (co-organized) – Posters

Convener: Georg Kosakowski | Co-Conveners: Josep M. Soler, Peter Alt-Epping

Hall XL | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: n.n.

- XL179 EGU2011-11527
Blaise Delmotte, Carole Delenne, Vincent Guinot, and Elena Gomez
 Calibration and sensitivity analysis of a one-dimensional model of pollutant transport and degradation in maturation ponds.
- XL180 EGU2011-12919
Thomas Gimmi, Olivier X. Leupin, Jost Eikenberg, Martin A. Glaus, Luc R. Van Loon, H. Niklaus Waber, Josep M. Soler, Acacia Naves, Javier Samper, Sarah Dewonck and the rest of the DR Team
 Results and modelling of the 4-year diffusion and retention (DR) experiment in Opalinus Clay in the Mont Terri URL
- XL181 EGU2011-4004
Josep M. Soler, Marja Vuorio, and Aimo Hautojärvi
 Reactive transport modeling of the interaction between water and a cementitious grout in a fracture
- XL182 EGU2011-10034
Alexandre Boisson, Luc Aquilina, and Olivier Bour
 Influence of flow velocity on denitrification in a pore-scale lab experiment
- XL183 EGU2011-2044
Georg Kosakowski and Urs Berner
 Influence of a concrete liner on the evolution of the near field of a HLW repository
- XL184 EGU2011-10789
Peter Alt-Epping and Larryn W. Diamond
 Implications of rock composition, brine composition and pressure/temperature conditions for CO₂ mineral trapping in deep saline aquifers
- XL185 EGU2011-10010
Christoph Egbers and Nicoleta Scurtu
 Challenges in the Numerical Modelling of the CO₂-Transport in Pipelines
- XL186 EGU2011-5581
Haibing Shao, Christina M. Haberer, Peter Grathwohl, and Olaf Kolditz
 Modeling the oxygen mass transfer across the capillary fringe using a multiphase reactive transport code - numerical model construction and comparison with experimental data
- XL187 EGU2011-13903
Mingliang Xie, Olaf Kolditz, and Helge Moog
 A geochemical model for highly saline solutions
- XL189 EGU2011-7457
Dedong Li, Christof Beyer, and Sebastian Bauer
 Simulation of fluid-mineral kinetic reactions during CO₂ storage using ChemApp and SUPCRT92 coupled to OpenGeoSys

- XL190 EGU2011-7625
Luis Manuel de Vries, Albert Nardi, Luit Jan Slooten, and Jesus Carrera
Random Walk Particle Tracking for reactive transport modelling
- XL191 EGU2011-11295
Sarah Jane Fowler, **Ferdinand Hingerl**, Thomas Driesner, Georg Kosakowski, Dmitrii Kulik, and Thomas Wagner
Reactive transport simulation by combining a multiphase-capable transport code for unstructured meshes with Gibbs energy minimization and multi-electrolyte solution models
- XL192 EGU2011-13635
Hamidreza M. Nick, Pierre Regnier, Martin Thullner, Stephan Matthai, and Florian Centler
A reactive transport model for complex geological media
- XL193 EGU2011-14156
Rajandrea Sethi and Tiziana Tosco
E-MNM1D: A model for the simulation of shear thinning suspensions of zerovalent iron micro and nanoparticles in porous media
- XL194 EGU2011-2696
Minh Tan Vu and Pierre M Adler
Deposition and/or dissolution in Porous Media
- XL195 EGU2011-3229
Mohamed Hayek, Georg Kosakowski, and Sergey Churakov
Analytical solutions for diffusive transport with heterogeneous reactions and porosity changes
- XL196 EGU2011-6773
alain dimier and elodie jeandel
A phreeqC-Elmer coupling algorithm for T-H-M-C modeling applications

GMPV8 – Pollution and Geochemistry (co-listed) – Orals

Convener: Brunella Raco | Co-Conveners: Elissavet Dotsika, Luigi Marini

Room: 20

Chairperson: Elissavet Dotsika

- 15:30–15:45 EGU2011-2251
Stefanie H. Boltersdorf
Assessing the quality and quantity of N deposition by total N content and the stable isotope signatures in lichen tissue
- 15:45–16:00 EGU2011-8055
Gabriele Curci, Paolo Tuccella, Giovanni Cinque, and Guido Visconti
Impact of a renewable biomass energy power plant in urban landscape with complex terrain in Central Italy: modelling assessment and suggestions for monitoring site
- 16:00–16:15 EGU2011-1360
Franco Tassi, Caterina Liccioli, and Orlando Vaselli
VOC composition in air: multi-component sources in a polluted sub-urban area of Florence (Italy).
- 16:15–16:30 EGU2011-11564
Caroline Gauchotte, Laura McGregor, Phil Richards, Stephanie Kerr, Helen Gray, Paddy Daly, Russel Thomas, and Robert M. Kalin
Ultra-Resolution Chemical Fingerprinting of Dense Non-Aqueous Phase Liquids from Former Manufactured Gas Plants Sites.
- 16:30–16:45 EGU2011-11677
Mine Terzi, Beyhan Pekey, and Halim Aytekin Ergül
PCB Concentrations in Bottom Sediment Samples From Izmit Bay
- 16:45–17:00 EGU2011-7569
Zygmunt Strzyszczyk and **Marzena Rachwa?**
Formation of technogenic magnetic anomalies in forest soils depending on an amount of industrial dust deposition and the time factor

GMPV8 – Pollution and Geochemistry (co-listed) – Posters

Convener: Brunella Raco | Co-Conveners: Elissavet Dotsika, Luigi Marini

Hall A | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Brunella Raco

- A154 EGU2011-12435
Marina Cabral Pinto, Eduardo A. Ferreira da Silva, Maria MGV Silva, Paulo Melo-Gonçalves, Maria M. Inácio, and Amélia P. Reis
Maps of multi-elemental enrichment indices in soils and stream sediments from Santiago Island, Cape Verde

- A155 EGU2011-1072
Ibrahim Mohialdeen
Inorganic Geochemistry of the Upper Jurassic Chia-Gara Formation, a potential source rock in Iraqi Kurdistan Region
- A156 EGU2011-2723
Pablo Vazquez-Roig, Cristina Blasco, **Vicente Andreu**, and Yolanda Picó
Emerging contamination in coastal marsh waters of the eastern Spain
- A157 EGU2011-3151
Nicolae Calin, Aurora-Maruta Iancu, Maria Angela Anason, Delia-Georgeta Dumitras, Stefan Marincea, and Constantina Porumbescu
Geochemistry of phosphogypsum from Turnu Magurele, Romania
- A158 EGU2011-3752
Siou-Ying Tai and Hsueh-yu Lu
The study of water-rock interaction in Choshui River watershed, Taiwan.
- A159 EGU2011-3903
Anne Schucknecht and Jörg Matschullat
Geochemical soil baseline values in north-eastern Brazil - vital requirement for pollution studies
- A160 EGU2011-6796
Jeong-Won Lim, Eunhee Lee, Hee Sun Moon, and Kang-Kun Lee
Characterizing saltwater contamination of subsurface water around the underground storage cavern with hydrochemical analysis
- A161 EGU2011-7080
Ian Fielding
Ensuring risk-based remedial activities are sustainable: A case study at a former petroleum products terminal in Madeira
- A162 EGU2011-8398
Nicola Hardy, Rebecca Bartlett, and Ian Fielding
Biodegradation of light-end aliphatic hydrocarbons: Suitable rates for gasoline-type releases
- A163 EGU2011-9461
Ioannis Hatzianestis
Marine organic geochemistry of the Eastern Mediterranean: Polycyclic aromatic hydrocarbons in Aegean and Ionian Sea surface sediments
- A164 EGU2011-10827
Chun-Mei Hsu and Chien-Yen Chen
Antibiotic Sorption Using the Clay from Wushanding Mud Volcano, Taiwan
- A165 EGU2011-11283
Luminita Marmureanu, Camelia Talianu, Jeni Vasilescu, and Livio Belegante
Investigation of local sulfur dioxide pollution from a thermal power plant using lidar and point monitors measurements
- A166 EGU2011-12539
Marina Cabral Pinto, Maria M.G.V. Silva, Eduardo A. Ferreira da Silva, Pedro A. Dinis, and Fernando Rocha
Geochemistry and mineralogy of stream sediments of Santiago island, Cape Verde
- A167 EGU2011-887
Maite Lacarra, Marie-Noelle Houssais, Christophe Herbaut, Emmanuelle Sultan, and Abdou Aziz Mbengue
Formation of dense shelf water on the east Antarctic continental shelf off Adelie Land during 2008-2010
- A168 EGU2011-10470
Aykan Karademir, Bircan Telli, Seda Aslan Kilavuz, and Halim Aytekin Ergul
Assessment of the PCDD/F pollution in the bottom sediments in Izmit Bay, Turkey
- A169 EGU2011-11938
Halim Aytekin Ergul, Aykan Karademir, and Sayhan Topcuo?lu
Heavy Metal Concentrations in Bottom Sediment Samples from Izmit Bay
- A170 EGU2011-13141
Juan A. Romero Guadarrama, Alberto Sanchez, Ana J. Marmolejo Rodriguez, Carles Canet, Martha Sanchez Martinez, and Victor R. Magallanes Ordoñez
Geochemistry and mineralogy in sediments influenced by the gold mining district El Triunfo, Mexico
- A171 EGU2011-403
Vladimir Masloboev, Dmitry Makarov, Dmitry Nesterov, Svetlana Mazukhina, and **Sergey Muravyov**
Artificial geochemical barriers for directed formation of technogenic deposits and environment protection

