



Monday August 16, 2010			
9:00	Auditorio General, University of Guanajuato: Inauguration – Opening ceremony		
9:40	Keynote R. Ontiveros (University of Guanajuato) A brief look at the Guanajuato Mining History 01OC		
10.10	Hitoshi Sakai Memorial Session: A. Ueda (Kyoto University). In Honor of Hitoshi Sakai 02OC		
10:20	Keynote (Hitoshi Sakai Memorial Session: Measurements and applications of stable and radiogenic isotopes and other tracers): W. George Darling (British Geological Survey, UK). W.G. Darling, D.C. Goody, B.L. Morris & A.M. MacDonald. Using CFCs and SF6 for groundwater dating: a SWOT analysis 00HS		
10:50	Transfer to Hotel Real de Minas		
Location	Room 1	Room 2	Room 3
Sessions	Hitoshi Sakai Memorial Session: Measurements and applications of stable and radiogenic isotopes and other tracers	Significance of water-rock interaction for reconnaissance and remediation of contaminated sites	Water-rock interactions in biogeochemical processes and genesis of petroleum
Session chairs	Peter Birkle (Mexico) and Akira Ueda (Japan)	Manfred van Afferden (Germany) and Ma. Teresa Alarcón (Mexico)	Sandra Ortega-Lucach (Mexico) and Astrid Möller (Mexico)
11:40	<i>P. Birkle, M.A. Lozada Aguilar, E. Soriano Mercado & J.J. Torres Villaseñor. Isotopic exchange between thermal fluids and carbonates at offshore Campeche oil fields, Gulf of Mexico 01HS</i>	<i>F. Liu, L. Xie & H.H. Chen. A new oxygen releasing material applied to permeable reactive barrier 01RR</i>	<i>G. De Giudici, D. Medas, F. Podda & R. Cidu. Hydrozincite seasonal precipitation at Naracauli (Sardinia, Italy): hydrochemical factors and morphological features of the biomineralization process 01BG</i>
12:00	<i>T.D. Bullen & R. Amundson. Interpreting Ca and Fe stable isotope signals in carbonates: a new perspective 02HS</i>	<i>Y. Mamindy-Pajany, C. Hurel, N. Marmier & M. Roméo. Geochemical stabilization of contaminated Mediterranean dredged sediments 02RR</i>	<i>V. de Montety, J. B. Martin, M. J. Kurz, M. J. Cohen & C. Foster. Influence of biogeochemically induced carbonate cycles on metals content of a karst river 02BG</i>
12:20	<i>I. Cartwright, T. Weaver, D. Cendon & I. Swane. Environmental isotopes as indicators of aquitard effectiveness, Murray Basin, Australia 03HS</i>	<i>P. Pacherova, V. Blaha, L. Erbanova, M. Novak, L. Rukavickova & T. Paces. Metal and sulfate mobilization and consecutive decontamination at a toxic waste landfill 03RR</i>	<i>M. Li, X. Xie & Y. Wang. Impact of microbiological processes on arsenic mobilization in groundwater of Datong Basin, Northern China 03BG</i>
12:40	<i>Y. Kiro, A. Starinsky, Y. Yechieli, C.I. Voss & Y. Weinstein. The application of radium isotopes in the evaluation of saline water circulation in the Dead Sea aquifer 04HS</i>	<i>M. van Afferden, P. Mosig & R.A. Müller. Vertical flow soil filter systems for the remediation of groundwater contaminated with MTBE and benzene 04RR</i>	<i>A. Möller & A.M. Hansen. A zero-point system dynamics model of the fate of xenobiotics applied to ethylenethiourea in soil systems 04BG</i>
13:00	<i>K.M. Lara & B. Weber. Evaluation of seawater intrusion using Sr isotopes: An example from Ensenada, B.C., Mexico 05HS</i>	<i>A. Villalobos-Aragón, A.S. Ellis, Ma.A. Armienta & O. Morton Bermea. Chromium contamination in León valley, Guanajuato, Mexico: a Cr stable isotope perspective 05RR</i>	<i>L. Esnault, M. Libert, O. Bildstein, M. Jullien & C. Mustin. Clay-iron reducing bacteria interaction in deep geological environment: experimental and modeling approach 05BG</i>
13:20	Lunch		



Monday August 16, 2010. Cont.

14:50	Keynote (Water-rock interactions in mine tailings): Svetlana Bortnikova (Trofimur Institute of Petroleum Geology and Geophysics, Novosibirsk, Russia). S.B. Bortnikova, Yu.A. Manstein, O.L. Gaskova & E.P. Bessonova & N.I. Ermolaeva. Drainage water - mine tailings interaction: environmental risk and origin of secondary metal deposit 00MT		
Location	Room 1	Room 2	Room 3
Sessions	Measurements and applications of stable and radiogenic isotopes and other tracers, cont.	Water-rock interactions in mine tailings	Water-rock interactions in biogeochemical processes and genesis of petroleum, cont.
Session chairs	Peter Birkle (Mexico) and Akira Ueda (Japan)	María Aurora Armienta (Mexico) and Carlos Gutiérrez Ojeda (Mexico)	Sandra Ortega-Lucach (Mexico) and Astrid Möller (Mexico)
15:30	<i>M. Novak, I. Jackova & E. Prechova.</i> Interplay of bedrock and atmospheric sulfur sources for catchment runoff and biota 06HS	<i>L. Fanfani, C. Dadea & R. Cidu.</i> Preliminary assessment of water quality in the Rio Mannu di Narcao basin (Sardinia, Italy) 01MT	<i>Y.-C. Zhang, C.P. Slomp, P. van Cappellen, H.P. Broers, H.F. Passier, M.E. Böttcher, E.O. Omoregie, J.R. Lloyd & D.A. Polya.</i> Denitrification coupled to pyrite oxidation in a sandy aquifer: stable isotopic and microbiological evidence 06BG
15:50	<i>A.E. Sveinbjörnsdóttir, S. Amorsson, J. Heinemeier, H. Armannsson & H. Kristmannsdóttir.</i> Dissolved inorganic carbon isotopes in natural waters in Iceland 07HS	<i>M.A. Armienta, O. Cruz, N. Cenicerros, A. Aguayo, O. Toledo, G. Villaseñor & P. Girón.</i> Evaluation of the potential release of toxic metals and metalloids from tailings at an historical mining site of Mexico 02MT	<i>M.A. Guzmán-Vega & S. Ortega-Lucach.</i> Origin of oil in the Mexican Gulf Coast Basin 07BG
16:10	<i>A. Ueda, K. Nagao, T. Shibata & T. Suzuki.</i> Occurrence of geopressured fluids with high δD and low Cl in northwestern Hokkaido, Japan 08HS	<i>F. Frau & R. Cidu.</i> Short-term chemical variation in stream water impacted by past mining: results from Baccu Locci (Sardinia, Italy) 03MT	<i>F. Yang & X. Su.</i> An experimental study on biodegradation of nitrobenzene in groundwater and soil by indigenous microbes 08BG
16:30	Coffee break		
16:50	<i>D.S. Vinson, J.R. Lundy, G.S. Dwyer & A. Vengosh.</i> Sr isotopes, hydrogeologic setting, and water-rock interaction in the Mt. Simon sandstone (Minnesota, USA) 09HS	<i>B.L. Sherriff, D.J. Etcheverry, N.V. Sidenko & J. Van Gulck.</i> Water-tailings interactions at Ruttan Cu-Zn Mine Manitoba, Canada 04MT	
17:10	<i>L. Aquilina, V. De Montety, T. Labasque, J. Molénat, L. Ruiz, V. Ayraud-Vergnaud & E. Fourré.</i> CFC and SF6 concentrations in shallow groundwaters: implications for groundwater age determination 10HS	<i>R. Pérez-Rodríguez R., M.C. Alfaro-De la Torre, J. Castro-Larragoitia, P. Schaaf & G. Solis-Pichardo.</i> Use of lead isotopes to identify pollution sources in Mexican mining sites, a case study 05MT	
17:30	<i>T. Alemayehu, M. Dietzel & A. Leis.</i> Evolution of groundwater in volcanic aquifer of Axum, Ethiopia: Isotopic and hydrochemical evidence 11HS	<i>N.A. Prisekina & S.B. Bortnikova.</i> The mineral modes of potentially toxic elements in the waste rocks of Veduginskoe gold deposits 06MT	



Tuesday August 17, 2010			
9:00	Keynote (Characterization of mineral surfaces and water/mineral interfacial processes): Roland Hellmann (University of Grenoble, France). <i>R. Hellmann, R. Wirth & J.-P. Barnes.</i> Chemical weathering of silicate minerals: linking laboratory and natural alteration 00MS		
Location	Room 1	Room 2	Room 3
Sessions	Characterization of mineral surfaces and water/mineral interfacial processes	Water-rock interaction controlling groundwater quality	Environmental geochemistry
Session chairs	Mario Villalobos (Mexico) and Roland Hellmann (France)	Antonio Cardona (Mexico) and Thomas Rude (Germany)	Ma. Catalina Alfaro (Mexico) and Javier Castro (Mexico)
9:40	<i>N.W. Hinman & J.D. Esser.</i> Chemical factors driving streambed "armor" in Iron Spring Creek, Yellowstone National Park, Wyoming, USA 01MS	<i>A. Banning, T.R. Rude, A. Cardona, A. Aguillón-Robles & L. Padilla-Sánchez.</i> Uranium and arsenic in some aquifers from Mexico and Germany – a common geogenic development? 01GQ	<i>R. Cidu, S. Da Pelo, R. Caboi, L. Vittori-Antisari & G. Vianello.</i> Geochemical behavior of rare earth elements in waters from the Pineta S. Vitale (Ravenna, Italy) 01EG
10:00	<i>L. Luquot, M. Godard, P. Gouze, B. Gibert & M. Andreani.</i> Serpentinization of sintered olivine during seawater percolation experiments 02MS	<i>H. Guo, Z. Shen, B. Zhang, Y. Li, G. Wang, Z. Berner, X. Tang & S. Norra.</i> Geochemical and hydrological controls of As distribution in shallow groundwaters from the Hetao Basin, Inner Mongolia, China 02GQ	<i>E. Giménez-Forcada, C. Guardiola-Albert & I. Iribarren-Campaña.</i> Hydrogeotoxicity by As in spring waters from the Sierra de Gredos - Duero Basin area (Spain) 02EG
10:20	<i>J. Abe, N. Tsuchiya, S. Furukawa & N. Hirano.</i> Properties of H ₂ O and CO ₂ fluids in contact with quartz under supercritical conditions revealed by IR spectroscopy 03MS	<i>T. Kretzschmar.</i> Hydrochemical implications of an overexploited aquifer in a semi-arid environment of Northern Mexico 03GQ	<i>A.M. Hansen & L.C. González-Márquez.</i> Historical deposition of metals in Mexican water bodies) 03EG
10:40	<i>M. Villalobos, A. Pérez-Gallegos & C. Salazar-Camacho.</i> Ion adsorption at the goethite/water interface: a new face distribution – site density model 04MS	<i>S. Majumder, D. Chatterjee, A. Biswas, Z. Berner & H. Neidhardt.</i> Factor analysis to explain As mobilization: a case study for an area in West Bengal, India 04GQ	<i>I.J. Reznik, J. Ganor, J. Lati, M. Aharoni, O. Cohen, M. Maymon & I. Gavrieli.</i> Gypsum precipitation dynamics in a large experiment) 04EG
11:00	Coffee break		
11:20	<i>M. Villalobos & M. Villalobos.</i> Cr(VI) reduction at the magnetite-zero-valent iron/water interface 05MS	<i>T. Paces, F. Buzek, V. Blaha & E. Pacesova.</i> Long term chemical behavior of groundwater in granite with low permeability 05GQ	<i>Y. Deng, Y. Wang & T. Ma.</i> Geochemistry of trace oxyanions in arsenic affected aquifer from Hangjinhouqi, Inner Mongolia) 05EG
11:40	<i>I.V. Galitskaya & G.I. Batrak & V.S. Putilina.</i> Estimation of water-rock interaction parameters for groundwater quality forecast: experimental study 06MS	<i>C. Descourvieres, H. Prommer, N. Hartog & C. Oldham.</i> Identification of redox and buffering processes during injection of oxic water into a deep pyritic aquifer: experiments and kinetic reaction model 06GQ	<i>T.T. Yu, A.G. Zhou, X.Q. Li, H.S. Cai & Y.D. Liu.</i> Nitrate in drinking water in relation to the incidence and mortality of esophageal cancer, Linzhou-Anyang area, China) 06EG



Tuesday August 17, 2010. Cont.

Location	Room 1	Room 2	Room 3
Sessions	Characterization of mineral surfaces and water/mineral interfacial processes, cont.	Water-rock interaction controlling groundwater quality, cont.	Environmental geochemistry, cont.
Session chairs	Mario Villalobos (Mexico) and Roland Hellmann (France)	Antonio Cardona (Mexico) and Thomas Rude (Germany)	Ma. Catalina Alfaro (Mexico) and Javier Castro (Mexico)
12:00	<i>K. Vaca-Escobar & M. Villalobos.</i> Adsorption versus precipitation: Behavior of As(V) in Goethite/Pb(II)/Carbonate systems 07MS	<i>E. Kazak, S. Pozdniakov & A. Kazak.</i> Sensitivity of model of ferrous iron oxidation by dissolved oxygen in the groundwater system 07GQ	<i>C.H. Hu & W.B. Zhou.</i> Effects of hydrological changes on pollutant dispersion of Poyang Lake) 07EG
12:20	<i>S. Gin, P. Frugier, N. Godon, P. Jollivet & A. Verney-Carron.</i> Long-term behaviour of nuclear glass: recent advances in France 08MS	<i>H.-m. Li, X.-m. Xu, N. Zhang & B. Wang.</i> Colloid-facilitated transport of ammonia-nitrogen in water-bearing media 08GQ	<i>N.A. Kharitonova, G.A. Chelnokov, E.A. Vakh & N.V. Zarubina.</i> Content and distribution of REEs in high pCO ₂ spas from Sikhote-Alin ridge (Far East of Russia)) 08EG
12:40	<i>L.C. González-Márquez & A.M. Hansen.</i> Effect of sodium and calcium on the sorption and desorption of atrazine in soils 09MS	<i>T.P. Mityusheva.</i> Geochemical and isotopic characteristics of waters of sulphide springs Pre-Ural Foredeep (Russia) 09GQ	<i>D. Chatterjee, A. Biswas, S. Majumder, Z. Berner & H. Neidhardt.</i> Geochemistry of arsenic in the deltaic environment: shallow versus deeper aquifers levels) 09EG
13:00	<i>M. Carrillo-Cárdenas, M. Villalobos, R. Gibson & N.R. López-Santiago.</i> Interactions between four polycyclic aromatic hydrocarbons (PAHs) and the birnessite surface 10MS		<i>H. Pauwels, Ph. Negrel, M. Bouzit, L. Aquilina, Th. Labasque, J. Perrin & S. Fatima.</i> Vulnerability of over-exploited groundwater to fluoride contamination) 10EG
13:20	Lunch		
14:50	Keynote (Characterization of mineral surfaces and water/mineral interfacial processes): Miguel A. Blesa (University of San Martín, Argentina). <i>F. Roncaroli, P.Z. Araujo, P.J. Morando, A.E. Regazzoni & M.A. Blesa.</i> FTIR/ATR characterization of TiO ₂ /aqueous carboxylate solution interfaces undergoing chemical changes 11MS		
15:20	Poster sessions Hitoshi Sakai Memorial Session: Measurements and applications of stable and radiogenic isotopes and other tracers Water-rock interaction controlling groundwater quality Environmental geochemistry		
17:20	Water-rock interactions in mine tailings Significance of water-rock interaction for reconnaissance and remediation of contaminated sites Characterization of mineral surfaces and water/mineral interfacial processes Water-rock interactions in biogeochemical processes and genesis of petroleum		



Thursday August 19, 2010

9:00	Keynote (Solute interactions during transport in the vadose zone): W. Mike Edmunds (University of Oxford, UK) <i>W.M. Edmunds & C.B. Gaye. The unsaturated zone as an observatory for the African Sahel 00VZ</i>		
Location	Room 1	Room 2	Room 3
Sessions	Water-rock interactions in geothermal systems	Role of mineral surfaces in kinetics of weathering	Solute interactions during transport in the vadose zone
Session chairs	Ignacio Torres (Mexico) and Edgar Santoyo (Mexico)	Cristina Siebe (Mexico) and Arthur White (USA)	Ma. Vicenta Esteller (Mexico) and Paul Shand (Australia)
9:40	<i>P. Alt-Epping, L.W. Diamond & H. N. Wabe.</i> Implications of rock composition and PT conditions in deep geothermal reservoirs for chemical processes during fluid circulation 01GS	<i>R. Cavalcanti de Albuquerque, D. Kirste & D.M. Allen.</i> Arsenic mobilization in confined aquifers formed in glaciomarine deposits 01KW	<i>G.N. Breit, H.L. Goldstein, J.C. Yount & R.L. Reynolds.</i> Storage of soluble arsenic within the vadose zone of the Mojave Desert, USA circulation 01VZ
10:00	<i>H. Ármannsson & V. Hardardóttir.</i> Geochemical patterns of scale deposition in saline high temperature geothermal systems circulation 02GS	<i>F. Claret, S. Gaboreau, C. Lerouge, E.C. Gaucher, Y. Linard, S. Dewonck, X. Bourbon, A. Mazurier, J.C. Parneix, D. Pret & D. Borschneck.</i> Concrete/Clay reactivity in the Bure underground research laboratory 02KW	<i>X.B. Gao, Y.X. Wang & Q.H. Hu.</i> Release potential of arsenic from sediments into the groundwater under the effect of pH, phosphate and bicarbonate 02VZ
10:20	<i>O.V. Chudaev, V.A. Chudaeva, I.V. Bragin, E.V. Elovskii, V.V. Kulakov & A.M. Plysnin.</i> Geochemistry of the thermal waters of the Far East Russia and Siberia circulation 03GS	<i>D. Daval, O. Sissmann, J. Corvisier, B. Garcia, I. Martinez, F. Guyot & R. Hellmann.</i> The effect of silica coatings on the weathering rates of wollastonite (CaSiO ₃) and forsterite (Mg ₂ SiO ₄): an apparent paradox? 03KW	<i>J.T. He, J. Zhang, L. Han & Z.L. Shen.</i> Influences of soil organic matter and mineral composition on the sorption of trichloroethylene in the vadose zone 03VZ
10:40	<i>J.M. Marques, H.G.M. Eggenkamp, P.M. Carreira, J. Espinha Marques, H.I. Chaminé & J. Teixeira.</i> Assessment of two low-temperature geothermal resources in North Portugal circulation 04GS	<i>M. Hinderer, S. Roller, J. Hornung, F. Bauer & U.A. Glasmacher.</i> Major and trace elements including REE from synrift sediments in western Uganda 04KW	<i>C. Latrille & A. Cartalade.</i> New experimental device to study transport in unsaturated porous media 04VZ
11:00	Coffee break		
11:20	<i>L. Peiffer, Y. Taran, E. Lounejeva, G. Solis-Pichardo & D. Rouwet.</i> Geochemical evidence for two hydrothermal aquifers at El Chichón circulation 05GS	<i>L. Mora Palomino, C. Siebe & M. Kaupenjohann.</i> Kinetics of acid buffering reactions in acrisols from southeast Mexico 05KW	<i>P. Shand, R.W. Fitzpatrick, M. Thomas, R.H. Merry, S. Grocke, B. Thomas, N. Creeper, B. Hollis, K. Marsland, M. Fogg, R. Turner & J. Goode.</i> Mobilisation of metals and acidity during reflooding of a wetland containing acid sulfate soils 05VZ
11:40	<i>R.A. Bernard-Romero, Y.A. Taran & M. Pennisi.</i> Geochemistry of boron in fluids of Los Humeros and Los Azufres hydrothermal systems, Mexico circulation 06GS	<i>A.F. White, D.V. Vivit, M.S. Schulz & J. Fitzpatrick.</i> The weathering of granite: Results of 14 year-long column experiments 06KW	<i>T. Szocs, I. Horváth, A. Bartha, É. Bertalan, Gy. Tóth & M. Ballók.</i> Arsenic speciation and mobility in shallow groundwater: an example from Hungary 06VZ
12:00	<i>M. Morais.</i> Hydrochemical and isotopic interpretation of thermal waters from the Felgueira area (Central Portugal) circulation 07GS	<i>P. Zuddas & K. Pachana.</i> Early stage phyllosilicate mineral weathering: mineral structure versus surface nanocoating controls 07KW	<i>B. Wang, D. Eberl, L. Gough & D. Frohbieter.</i> Mercury in soils along a N/S transect in Alaska 07VZ



Thursday August 19, 2010. Cont.			
Location	Room 1	Room 2	Room 3
Sessions	Water-rock interactions in geothermal systems, cont.	Role of mineral surfaces in kinetics of weathering, cont.	Solute interactions during transport in the vadose zone, cont.
Session chairs	Ignacio Torres (Mexico) and Edgar Santoyo (Mexico)	Cristina Siebe (Mexico) and Arthur White (USA)	Ma. Vicenta Esteller (Mexico) and Paul Shand (Australia)
12:20	<i>M. Puxeddu & A. Dini.</i> Pliocene to present day evolution of the Larderello-Travale geothermal system, Italy 08GS	<i>S.L. Shvartsev.</i> Hydrogeochemical processes of dawsonite formation: Evidence for evolution of a water-rock system 08KW	<i>Z. Wang, H. Chen, J. Shi, Z. Zhang, Y. Fei & Y. Li.</i> Natural attenuation of contaminants from river water in the subsurface of the piedmont plain of Taihang Mountains 08VZ
12:40	<i>E.P. Bessonova & S.B. Bortnikova.</i> Geochemistry and origin model for thermal springs from Kamchatka and Kuril Islands 09GS	<i>I.E. Dubois, S. Holgersson, S. Allard & M.E. Malmström.</i> Correlation between particle size and surface area for chlorite and K-feldspar 09KW	<i>O. Goren, B. Lazar, A. Burg & I. Gavieli.</i> Water-rock interactions during recharge of effluents into a calcareous sandstone aquifer 09VZ
13:00	<i>R.E. Villanueva-Estrada, R.M. Prol-Ledesma & C. Canet.</i> Dissolved arsenic in shallow hydrothermal vents 10GS		
13:20	Lunch		
14:50	Keynote (Water-rock interactions in geothermal systems): Pang Zhong-he (Chinese Academy of Sciences) 00GS <i>Z. Pang, F. Yang, Y. Li & Z. Duan.</i> Integrated CO ₂ sequestration and geothermal development: Saline aquifers in Beitang depression, Tianjin, North China Basin 11GS		
15:20	WRI General Assembly		
16:30 - 18:30	Poster sessions: Water-rock interactions in geothermal systems Water in petrogenetical, magmatic and ore forming processes Water-rock interactions in watersheds Solute interactions during transport in vadose zone Water-rock interactions in karst and pore water chemistry in sedimentary rocks Role of mineral surfaces in kinetics of weathering Advances in numerical modeling of water-rock interaction processes Role of water-rock-gas interaction in sequestration of CO ₂ Geological hazards related to water-rock interaction		



Friday August 20, 2010

9:00	Keynote (Geological hazards related to water-rock interaction): Javier Aparicio (Mexican Institute of Water Technology). <i>J. Aparicio. The San Juan del Grijalva Landslide 00GZ</i>		
Location	Room 1	Room 2	Room 3
Sessions	Geological hazards related to water-rock interaction	Role of water-rock-gas interaction in sequestration of CO₂	Water-rock interactions in watersheds
Session chairs	Zsolt Berner (Germany) and Javier Aparicio (Mexico)	Ramiro Rodríguez (Mexico) and Oliver Bildstein (France)	Rick Wanty (USA) and Carl Bern (USA)
9:40	<i>Z.A. Berner, S. Bleeck-Schmidt, D. Stüben, T. Neumann, M. Fuchs & M. Lehmann. Reconstructing the history of paleo-floods: a geochemical approach 01GZ</i>	<i>N.N. Akinfiev & L.W. Diamond. Thermodynamic model of aqueous CO₂-H₂O-NaCl solutions from -22 °C to 100 °C and from 0.1 to 100 MPa 01SC</i>	<i>E.W. Banks, A.J. Love, C.T. Simmons & P. Shand. Assessing surface water-groundwater connectivity using hydraulic and hydrochemical approaches in fractured rock catchments, South Australia 01WS</i>
10:00	<i>M.L. Carapezza, T. Ricci, F. Barberi, M. Ranaldi & L. Tarchini. Hazardous gas blowouts from shallow wells in the Colli Albani volcanic complex (Rome, Italy) 02GZ</i>	<i>S. Arnórsson, N. Hurtig, A.P. Gysi, D. K. Bird & P. A. O'Day. Carbon dioxide waters in Iceland: A natural analogue to CO₂ sequestration in basaltic aquifers 02SC</i>	<i>H.L. Buss, A.F. White, C. Dessert, J. Gaillardet, A.E. Blum & P.B. Sak. Depth profiles in a tropical, volcanic critical zone observatory: Basse-Terre, Guadeloupe 02WS</i>
10:20	<i>G.C. Ulmer, G. Myer & S. Peterson. Stokes law considerations and paleobiology of an Ordovician marine mud slide 03GZ</i>	<i>A. Crédoz, O. Bildstein, L. Trotignon & M. Jullien. Modeling the reactive transport of CO₂-enriched fluids in clayey caprock formations in the context of CO₂ geological storage 03SC</i>	<i>R.S. Harmon, W.B. Lyons, S.T. Goldsmith, A. Carey, S. Welch, K. Welch, I. Forizs, D. Long & H. Mitasova. Geochemistry of rivers in Panama 03WS</i>
10:40	<i>H.M. Shan, H.C. Liang, S.X. Peng, A.A. Longe & A.G. Zhou. Effects of Water-Saturation and water-loss processes on composition and structure variations of landslide, Three Gorges reservoir, China 04GZ</i>	<i>E.C. Gaucher, A. Lassin, C. Lerouge, Ch. Fléhoc, N.C.M. Marty, B. Henry, Ch. Tournassat, S. Altmann, A. Vinsot, S. Buschaert, J.-M. Matray, O.X. Leupin & M. de Craen. CO₂ partial pressure in clayrocks: a general model 04SC</i>	<i>P. Krám & J. Hruška. Streamwater chemistry in three contrasting monolithologic watersheds 04WS</i>
11:00	Coffee break		
Sessions	Water in petrogenetical, magmatic and ore forming processes	Role of water-rock-gas interaction in sequestration of CO₂, cont.	Water-rock interactions in watersheds, cont.
Session chairs	Fco. Javier Orozco-Villaseñor (Mexico) and Hjalti Franzon (Iceland)	Ramiro Rodríguez (Mexico) and Oliver Bildstein (France)	Rick Wanty (USA) and Carl Bern (USA)
11:20	<i>W. Wei, M. Kastner, R. Rosenbauer, L.H. Chan & Y. Weinstein. Alkali elements as geothermometers for ridge flanks and subduction zones 01MO</i>	<i>P. Gouze, L. Luquot, M. Andreani, G. Pèpe, J. Dweik & P. Jouanna. Clay particules decohesion during dissolved and gaseous CO₂ injection through fractured claystone 05SC</i>	<i>D.K. Nordstrom, R.B. McCleskey, D.D. Susong, R.L. Runkel & J.W. Ball (Emeritus). Fate of thermal solutes for Gibbon and Firehole Rivers, Yellowstone National Park, USA 05WS</i>
11:40	<i>W.C. Evans, R.H. Mariner, D. Bergfeld, K.M. Revesz & J.P. McGeehin. Carbon isotope composition of CO₂ at Cascade Arc volcanoes 02MO</i>	<i>Y.K. Kharaka, J.J. Thordsen, T.D. Bullen, D.R. Cole, T.J. Phelps, J.T. Birkholzer & S.D. Hovorka. Near surface and deep subsurface monitoring for successful geologic sequestration of CO₂ 06SC</i>	<i>R.B. Wanty, P.L. Verplanck, C. Bern, C. SanJuan, E.H. deWitt, T.L. Klein, D. Fey, T.S. Schmidt & S.E. Church. Weathering rates in headwater catchments of central Colorado, USA 06WS</i>



Friday August 20, 2010. Cont.			
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Sessions	Water in petrogenetical, magmatic and ore forming processes, cont.	Role of water-rock-gas interaction in sequestration of CO₂, cont.	Water-rock interactions in watersheds, cont.
Session chairs	Fco. Javier Orozco-Villaseñor (Mexico) and HjalTI Franzon (Iceland)	Ramiro Rodríguez (Mexico) and Oliver Bildstein (France)	Rick Wanty (USA) and Carl Bern (USA)
12:00	<i>H. Franzson, G.H. Guðfinnsson, H.M. Helgadóttir & J. Frolova.</i> Porosity, density and chemical composition relationships in altered Icelandic hyaloclastites 03MO	<i>Z. Liu & W. Dreybrodt.</i> A new direction in effective accounting for the atmospheric CO ₂ budget: Considering the combined action of carbonate dissolution, global water cycle and the photosynthetic uptake of DIC by aquatic organisms 07SC	<i>W.B. Zhou, M.L. Wang & C.H. Hu.</i> Spatial-temporal distribution of nitrogen and phosphorous in Poyang Lake, China 07WS
12:20	<i>G. Lambrecht & L.W. Diamond.</i> Fluid mixing and boiling during latest stage orogenic gold mineralization at Brusson, NW Italian Alps 04MO	<i>Y. Okuyama, Y. Nakashima, M. Sasaki, N. Todaka & C. Akasaka.</i> Dawsonite as a mineralogical guide to understand geochemical processes associated with CO ₂ geological storage: a comparative study of numerical simulation with natural occurrences 08SC	
Sessions	Water in petrogenetical, magmatic and ore forming processes, cont.	Role of water-rock-gas interaction in sequestration of CO₂, cont.	Advances in numerical modeling of water-rock interaction processes
Session chairs	Fco. Javier Orozco-Villaseñor (Mexico) and HjalTI Franzon (Iceland)	Ramiro Rodríguez (Mexico) and Oliver Bildstein (France)	Graciela Herrera (Mexico) and Benito Chen (USA)
12:40	<i>F.J. Orozco-Villaseñor.</i> Mineralogy and genesis of the Rayas ore shoot, and its geological relation with other ore bodies, Veta Madre, Guanajuato, Mexico 05MO	<i>F. Gherardi, K. Pruess & T. Xu.</i> Modeling gas-water-rock interactions at Mt. Amiata geothermal field (Italy) 09SC	<i>C. R. Bern & O. A. Chadwick.</i> Quantifying colloid mass redistribution in soils and other physical mass transfers 01NM
13:00	<i>N. Özgür.</i> A new genetical copper deposit model from the East Pontic metallotect, NE Turkey: the Murgul type 06MO	<i>D. Wolff-Boenisch, S.R. Gislason & S. Wenau.</i> Effect of seawater and its components on the dissolution of peridotite under CO ₂ pressure 10SC	<i>B. Chen-Charpentier & H.V. Kojouharov.</i> Unconditionally positive numerical methods for adsorption-desorption in porous media 02NM
13:20	Lunch		
14:50	Keynote (Water in petrogenetical, magmatic and ore forming processes): Mark H. Reed (University of Oregon, USA). <i>M. Reed & J. Palandri.</i> Ascent and cooling of magmatic fluids: Precipitation of vein and alteration minerals 07MO		



Friday August 20, 2010. Cont.			
Location	Room 1	Room 2	Room 3
Sessions	Water-rock interactions in karst and pore water chemistry in sedimentary rocks	Role of water-rock-gas interaction in sequestration of CO₂, cont.	Advances in numerical modeling of water-rock interaction processes, cont.
Session chairs	Eugene Perry (USA) and Konstantin Choumiline (Mexico)	Ramiro Rodríguez (Mexico) and Oliver Bildstein (France)	Graciela Herrera (Mexico) and Benito Chen (USA)
15:30	<i>A. Cardona, I. Varsanyi, L.O. Kovacs, J.J. Carrillo-Rivera, F.J. Aparicio-Mijares, C. Gutierrez-Ojeda, M. Martínez-Morales, L. González-Hita & I. Mata-Arellano. Mixing processes and water-rock interaction in contrasting geologic environments of Mexico and Hungary</i> 01KP	<i>L. Zheng, N. Spycher, J. Apps & J. Birkholzer. Potential impacts of CO₂ leakage on the quality of fresh water aquifers</i> 11SC	<i>G.S. Herrera & J. Briseño. Hydraulic conductivity and state estimation for stochastic flow and transport models</i> 03NM
15:50	<i>K. Choumiline, A.P. Rodríguez-Castañeda, N. Silverberg, E. Shumilin, F. Aguirre-Bahena, D. Sapozhnikov & L. Pérez-Cruz. Arsenic and uranium in the settling particulate matter and sediments of Alfonso Basin, La Paz Bay</i> 02KP	<i>S. Sigurbjörnsson, H. Kristmannsdóttir & Th.I. Sigfússon. Experimental reaction of carbonated water with tholeiitic basalt at low temperatures</i> 12SC	<i>F.A. Mathurin, B.E. Kalinowski, M. Åström & M. Laaksoharju. Temporal evolution of groundwater chemistry in fractured bedrock at depth between 400 and 700 m: results of M3 modelling</i> 04NM
16:10	<i>G. Magro, F. Gherardi & S. Bellani. Noble gases in karstic and thermal waters of Strimon basin (Greece-Bulgaria)</i> 03KP	<i>K.D. Romanak, R.C. Smyth, C. Yang, S.D. Hovorka & J. Lu. Role of dedolomitization in the detection of anthropogenic CO₂ in freshwater aquifers</i> 13SC	<i>D. Vlassopoulos, B. Bessinger, P.A. O'Day. Aqueous solubility of As₂S₃ and thermodynamic stability of thioarsenites</i> 05NM
16:30	Coffee break		
16:50	<i>E.C. Perry, G. Velazquez-Oliman, N. Wagner, A. Paytan & J. Street. Sr ions and isotopes in groundwater Campeche, Mexico: insight into development of Edzna Valley</i> 04KP	<i>A.R. Scislawski & P. Zuddas. Estimating the reactive mineral surface area during CO₂ rich fluid-rock interaction by an inverse modelling approach</i> 14SC	<i>M. Předota, D.J. Wesolowski, M.L. Machesky & P.T. Cummings. Molecular dynamics simulations of rutile/aqueous solution interface</i> 06NM
17:10	<i>Z.Q. Kang, F.F. Yu, Y. Chang, Z.Y. Wang & Q.B. Huang. Discrimination of karst hydrogeology conditions using the trace element strontium</i> 05KP		<i>M.C. Suárez A. Tetra-dimensional poroelasticity for non-isothermal rocks</i> 07NM



Poster sessions

Tuesday August 17, 2010

15:20 – 17:20

Poster number	Authors	Poster
Session: Hitoshi Sakai Memorial Session: Measurements and applications of stable and radiogenic isotopes and other tracers		
HS1	<i>N. Avrahamov, O. Sivan, Y. Yecheili & B. Lazar</i>	An attempt to date saline groundwater in the multi aquifers system of the Dead Sea area, using carbon isotopes
HS2	<i>S.K. Khayat, S. Geyer & A.M. Marei</i>	Tracing the inorganic carbon system in the groundwater from the lower Jordan Valley basin (Jericho/Palestine)
HS3	<i>H. Masuda, K. Makino, K. Matsui, T. Okabayashi, H. Yoshioka, Y. Kajikawa & U. Tsunogai</i>	*Geochemistry of groundwater and its flow system in the Osaka Basin, Japan
HS4	<i>E. Nakata, H. Suenaga, S. Tanaka & K. Nakagawa</i>	Stable carbon isotope ratios of natural gas seepage along normal faults in the southern Tokyo bay area (Mobara), Japan
HS5	<i>E. Portugal, A. F. Hernández & J. Álvarez Rosales</i>	Groundwater geochemistry of a lacustrine zone in the Mexicali Valley, Northwest Mexico
HS6	<i>X. Xie, Y. Wang, C. Su & M. Li</i>	* δD and $\delta^{18}O$ and chloride as indicators of groundwater recharge and discharge in Datong basin, Northern China
HS7	<i>A. Zian, L. Benaabidate & O. Sadki</i>	Isotopic composition of some thermal springs in the South Rifian Rides, Morocco
Session: Water-rock interaction controlling groundwater quality		
GQ1	<i>A.A. Aly & L. Benaabidate</i>	Salinity of water resources in the Siwa Oasis: monitoring and diagnosis
GQ2	<i>S. Demer, N. Özgür & Ü. Memiş</i>	Water quality of the groundwater system in Isparta, SW Turkey
GQ3	<i>L. Ma, X.P. Zhou, X.C. Cao, M.L. Lin & D.D. Yang</i>	Multivariate statistical analysis of coal mine groundwater chemistry characteristics: a case study of Guqiao Coal Mine, Huainan, China
GQ4	<i>C. Su & Y. Wang</i>	*Distribution and evolution of high-fluoride shallow groundwater in Datong Basin, China
GQ5	<i>M.L. Wang, W.B. Zhou & C.H. Hu</i>	The hydrochemical characteristics of Poyang Lake, China



Poster sessions

Tuesday August 17, 2010

15:20 – 17:20

Poster number	Session: Environmental geochemistry	
EG1	<i>T. Bahaj, M. Wartiti & M. Zahraoui, F. Podda & R.Caboi</i>	Preliminary results on water geochemistry from the Oulmès Plateau (Morocco)
EG2	C. Chen , L. Chen , F. Liu , H.H. Chen , C. Chen , M.X. Huo & J.B. Ma	*The test method for semi-volatile organic compounds in groundwater and a case study
EG3	E. Giménez-Forcada	Salinization stages in coastal plain of Osa-Albegna (Italy) using HFE-diagram
EG4	A. Hernández-Antonio & A.M. Hansen	Role of suspended soil in the photodegradation of atrazine
EG5	X.Q. Li , A.G. Zhou , C.F. Liu , Y.Q. Gan , T.T. Yu & Y.D. Liu	Fluoride in groundwater of Hebei Plain, Northern China: mineral origin elucidated by isotopic and ion chemistry
EG6	X.M. Luo , S.H. Zhao & M.Z. Li	Effect of salinity on phthalic acid esters adsorption kinetics
EG7	Y.O. Rosenberg , J. Ganor & S. Zmora-Nahum	**The effect of pH on the formation of gypsum scale in the presence of phosphonate antiscalant
EG8	M. Gutiérrez & Ma. T. Alarcón Herrera	Arsenic anomalies of an arid region determined from sediment geochemistry
EG9	N. Tsuchiya , Y. Ogawa , R. Yamada , S. Yamasaki , C. Inoue , T. Komai , J. Hara , Y. Kawabe , T. Shiratori & S. Kano	Geosphere environmental informatic universal system for evaluation of geological pollution on heavy metals
EG10	Y. Harlavan , M. Shirav & S. Ilani	Tracing industrial versus airborne particles in soils using Pb isotopes
	Session: Characterization of mineral surfaces and water/mineral interfacial processes	
MS1	J. Chen & Z. Bao	A kinetic study on dolomite dissolution by microcalorimetry
MS2	N. Hirano , K. Yamamoto , A. Okamoto & N. Tsuchiya	Observation of quartz fracturing under the hydrothermal condition using visible type autoclave
MS3	L. Manzhou , Y. Qiru & Y. Changsheng	The role of water/rock interaction in water bursting from the bottom bed of a bauxite ore deposit
MS4	M. Perre	Calcite dissolution in thin water film
MS5	H. Saishu , A. Okamoto & N. Tsuchiya	Precipitation of silica minerals in hydrothermal flow-through experiments
MS6	M. Usman , K. Hanna , M. Abdelmoula , C. Ruby & P. Faure	Reactivity of FeIII oxyhydroxides with FeII in batch and dynamic flow systems
MS7	N.N. Vlasova & M. Kersten	Effect of temperature on selenate adsorption by goethite



Poster sessions

Tuesday August 17, 2010

15:20 – 17:20

Poster number	Session: Water-rock interactions in mine tailings	
MT1	<u>E.V. Cherkasova & B.N. Ryzhenko</u>	Simulation of metallurgy waste influence on undergroundwater composition
MT2	<u>J. Delgado, R. Juncosa, A. Vázquez, S. Fernández, M.A. Arias, R. González & A. Fernández</u>	Hydrochemical evolution of the Meirama pit lake (NW Spain) after two years of flooding
MT3	<u>M.V. Esteller, E. Domínguez-Mariani, S.E. Garrido & M. Avilés</u>	*Arsenic in groundwater at an abandoned mining area in Central Mexico
MT4	<u>M. E. García-Arreola, L. M. Flores-Vélez & S. Soriano-Pérez</u>	*Assessment of the distribution and leaching of arsenic in soils near tailing piles
MT5	<u>J. Liu, Y. Zhou, Y. Liu, Z. Sun, Z. Qin & X. Yongguo</u>	Study on some influence factors of in-situ leaching of uranium mining in Shihongtan deposit
MT6	<u>Y.R. Ramos, D. Muñoz, I. Rodríguez, G. Jiménez, V. Ramírez, J.C. Martínez & E. Elorza</u>	Detrimental effects of mining on water quality in a small catchment of Guanajuato, Mexico
MT7	<u>J.A. Romero-Guadarrama, A.J. Marmolejo-Rodríguez, M.A. Sánchez-Martínez, A. Sánchez-González & V.R. Magallanes-Ordóñez</u>	Mercury in sediments from a drainage catchment basin of the Au mining district of El Triunfo, B.C.S., Mexico
MT8	<u>Z.X. Sun, J.H. Liu, W.J. Shi & X.R. Jiao</u>	**Mechanism of chemical plugging during the in-situ leach mining process in the Shihongtan uranium deposit, Xinjiang, China
MT9	<u>N.V. Yurkevich & O.P. Saeva</u>	Water-rock interaction modeling for mine tailings in Kemerovo and Cheljabinsk regions, Russia
MT10	<u>G.D. Zheng, S.Y. Liang, Y. Takahashi, T.A. Mahdi & H.R. Thomas</u>	*Chemical speciation of certain elements in coal mining drainage in the Neath Canal, South Wales, UK
MT11	<u>C. Ardau, D. W. Blowes & C. J. Ptacek</u>	Laboratory experiment on influence of mineralogical assemblage on drainage quality in mine tailing samples
MT12	<u>D. Quispe, R. Pérez-López, C. Ayora & J.M. Nieto</u>	Pilot scale field experiments for treatment of sulfide-rich mining wastes using fly ash
MT13	<u>C. Siebe, A. Herre, S. Cram, Y.R. Ramos-Arroyo & H. Riojas-Rodríguez</u>	Manganese mobilization from quarries and tailings in four watersheds of the Molango Mining District, Mexico



Poster sessions

Tuesday August 17, 2010

15:20 – 17:20

Poster number	Session: Significance of water-rock interaction for reconnaissance and remediation of contaminated sites	
RR1	<i>V.A. Alekseyev, L.N. Kochnova & O.A. Tyutyunnik</i>	*Extraction of hazardous elements with water from contaminated rocks
RR2	<i>G. Fernández, J. Pérez, M.A. Gómez, G. Garralón, F. Plaza & A. Garralón</i>	*Membrane autopsy, a tool for reverse osmosis desalination control, based on geochemical analysis
RR3	<i>J.R. Hernández, J.L. Nava, G. Carreño & F. Martínez</i>	*Removal of Arsenic (V) by electro-coagulation process
RR4	<i>J.M. Yang, Y.Y. Cheng, L. Hu & F. Gao</i>	Experimental study of nitrogen oxide removal from flue gas by using solid mineral adsorbents
RR5	<i>V.S. Putilina, I.V. Galitskaja, I.A. Pozdnyakova & T.I. Yuganova</i>	Water–rock interaction and redox zones in aquifers at waste disposal sites
RR6	<i>O.P. Saeva, N.V. Yurkevich & V.G. Kabannik</i>	The electrochemical remediation of acid drainage
RR7	<i>Y. Jiang, Q. Zhou, X. Zhou, J. Jia & Y. Li</i>	Application of ground penetrating radar in contamination survey
Session: Water-rock interactions in biogeochemical processes and genesis of petroleum		
BG1	<i>O.S. Naymushina, S.L. Shvartsev, M.A. Zdvizhkov & A. El-Shinawi</i>	*Chemical characteristics of swamp waters: a case study in the Tom River basin, Russia
BG2	<i>R. Tonoue & S. Nakashima</i>	<i>In-situ heating infrared micro-spectroscopy for the detailed kinetic study of aliphatic hydrocarbon decrease of humic substances</i>
BG3	<i>E. Torres, C. Ayora, C.R. Cánovas & A.M. Sarmiento</i>	Characterization of two water reservoirs that receive acid mine drainage in the Odiel Basin, South West of Spain
BG4	<i>J. Xiao, B. Zhu, Z.Y. Ma & C.M. Yang</i>	*Occurrence regularities and influencing factors of coal bed methane (CBM) in the Dengfeng coalfield, Henan province, China



Poster sessions

Thursday August 19, 2010

15:20 – 17:20

Poster number	Authors	Poster
Session: Water-rock interactions in geothermal systems		
GS1	<i>M.A. Alam, P. Sánchez & M.A. Parada</i>	*Geochemical processes camouflaging original signatures in the thermal waters of south-central Chile
GS2	<i>R.M. Barragán, V. M. Arellano, A. Aragón, J. I. Martínez, A. Mendoza & L. Reyes</i>	Geochemical data analysis (2009) for Los Azufres geothermal fluids (Mexico)
GS3	<i>V. Cruz, V. Vargas & K. Matsuda</i>	Geochemical characterization of thermal waters in the Borateras geothermal zone, Peru
GS4	<i>G. Izquierdo, M. Flores & M. Ramírez</i>	Laboratory work on the response of reservoir rocks from the Los Humeros geothermal field, Puebla, Mexico, with acid solutions
GS5	<i>H.K. Singh & D. Chandrasekharam</i>	Evaluation of Tuwa geothermal system through water-rock interaction experiment
GS6	<i>W.-J. Sun, D.-L. Dong & J. Jiao</i>	The origin of hot springs at Hengjing, south Jiangxi, China
GS7	<i>A. Bassam, A. Álvarez del Castillo, O. García-Valladares & E. Santoyo</i>	Determination of flowing pressure gradients in producing geothermal wells by using artificial neural networks
Session: Water in petrogenetical, magmatic and ore forming processes		
MO1	<i>E.M. Galimov, B.N. Ryzhenko & E.V. Cherkasova</i>	*Aqueous phase composition of the early Earth
MO2	<i>H. Kristmannsdóttir, S. Arnórsson & Á.E. Sveinbjörnsdóttir & H. Ármannsson</i>	**Geochemistry and classification of cold groundwater in Iceland
MO3	<i>A.E. Woermann, B.G. Eriksson, C.S.K. Saxena & D.G.C. Ulmer</i>	Water in the Earth's interior: a planetary water-rock problem
MO4	<i>Z.S. Zhang, Z.P. Jiang, G.L. Guo, Y. Zhao & R. M. Hua</i>	-Characteristics of chloritization in granite-type uranium deposits in southern China
MO5	<i>V.P. Zverev</i>	*Global geological water exchange and evolution of the Earth
Session: Water-rock interactions in watersheds		
WS1	<i>N. Saddiki, L. Benaabidate, T. Bahaj & M. El Wartiti</i>	Assessment of Sebou watershed water quality downstream the cities of Fez and Meknes, Morocco
WS2	<i>M. Tostado & T. Kretzschmar</i>	Hydrogeochemical development of the San Miguel watershed, Baja California, Mexico



Poster sessions

Thursday August 19, 2010

15:20 – 17:20

Poster number	Session: Solute interactions during transport in the vadose zone	
VZ1	<i>J. Chen, F. Liu, Q.W. Zhang & P.B. Liu</i>	Distribution of nitrogen in the vadose zone under intermittent ventilation
VZ2	<i>X. Liang, C. Xiao, C. Du, X. Xu & R. Xiao</i>	Transfer and transformation mechanism of fluoride in water-sediment environment of Yangshapao Reservoir, Western Jilin Province, China
VZ3	<i>C.Y. Zhang, J.X. Zhang, L.N. Ma, S. Zhang, M.Y. Yin, Z.H. Li, Z. Ning & E.P. Bi</i>	Nitrogen and oxygen isotopic analyses of nitrate in groundwater and sediments using the denitrifier method
	Session: Water-rock interactions in karst and pore water chemistry in sedimentary rocks	
KP1	<i>G.A. Chelnokov, N.A.Kharitonova, M.G. Blokhin & I.V. Bragin</i>	Hydrochemical characteristics of Ca-Na-Cl brines of the Sukhodol estuary (Primorye, Far East Russia)
KP2	<i>I.A. Kostikova & V.P. Zverev</i>	Hydrogeochemical conditions of sea and pore waters in the coastal economic zone of Mexico
KP3	<i>Z. Shengzhang, Z. Guocheng, D. Zhenping, T. Jiansheng & C. Honghan</i>	Comparison study on the differential corrosion of Paleozoic and Cenozoic carbonate rocks
KP4	<i>Q. Yu, Y.-x. Wang & X.-b. Gao</i>	Hydrogeochemical features of Niangziguan karst water system in Shanxi
	Session: Role of mineral surfaces in kinetics of weathering	
KW1	<i>B.-S. Nie, S.-R. Zhai, X.-C. Li, N. Ma & R.-M. Zhang</i>	*Experiments on softening hard rock in mine by chemical method
KW2	<i>M.A. Kusiak, A. Kędzior, M. Paszkowski, K. Suzuki & J. Lekki</i>	*The Upper Silesia Coal Basin and provenance implications of a monazite study from the crystalline rocks of the Bohemian Massif
KW3	<i>R.H. Lara, R. Briones, M.G. Monroy & R. Cruz</i>	*Transformations of lead minerals in carbonate rich solutions and their implications on lead bioaccessible fractions in calcareous soils
KW4	<i>E. Musu, S. Da Pelo & P. Lattanzi</i>	**Energite oxidative dissolution: preliminary data of flow-through experiments
KW5	<i>C. Lerouge, S. Gaboreau, C. Claret, C. Crouzet, C. Flehoc, A. Gautier, C. Guerrot, E.C. Gaucher, Y.Linard, S. Dewonck, X. Bourbon & P. Agrinier</i>	Concrete/clay reactivity: constraints given by C, O and Sr isotopes



Poster sessions

Thursday August 19, 2010

15:20 – 17:20

Poster number	Session: Advances in numerical modeling of water-rock interaction processes	
NM1	<i>J. Bian, J. Tang & Z. Jiang</i>	*Groundwater quality evaluation using the support vector machine method, Western Jilin province
NM2	<i>Z. Chen, L. Ma, F. Hua, Y.F. Zhang & L.Q. Sun</i>	Non-Fickian and non-Darcian laws in the simulation of flow and solute transport
NM3	<i>C. Ortiz, J.F. Muñoz, M.F. Hernández & C. Bonilla</i>	Experimental changes in flow parameters and solute transport in agglomerated copper tailings after leaching
NM4	<i>S.Kh. Pavlov & K.V. Chudnenko</i>	Modeling of the formation of thermal waters enriched in nitrogen gas
NM5	<i>J. Peña, A. Garralón, P. Gómez, M.J. Turrero, B. Buil, L. Sánchez, J.M. Durán, R. Domínguez, A. Escribano, G. Garralón & M.A. Gómez</i>	*Remineralization with CO ₂ of the water from a reverse osmosis plant. Geochemical modelling
NM6	<i>E.C. Perez & R.J. Perez</i>	A new computational algorithm for redox stability diagrams
NM7	<i>R.J. Perez & R.A. Heidemann</i>	SPCALC: a new multiphase geochemical speciation software
NM8	<i>D. Pérez-Zárate, I.S. Torres-Alvarado, E. Santoyo & J. Martínez-Frías</i>	Statistical methodology to predict reaction time of water-rock experiments under quasi-steady state conditions
NM9	<i>Y. Zhou, Y. Wang, F. Zwahlen & J. Boillat</i>	Modeling of groundwater-surface water system of central Jiangnan Plain, China
Session: Role of water-rock-gas interaction in sequestration of CO₂		
SC1	<i>K.V. Chudnenko & S.Kh. Pavlov</i>	Staging of interaction in the "carbon-water-gas" system
SC2	<i>S. Biagi & F. Gherardi</i>	CO ₂ storage in a depleted gas reservoir in Italy: modeling the diffusion of CO ₂ -rich fluids within the wellbore cement of an abandoned well
SC3	<i>Y. Li, Z. Pang, F. Yang & Z. Duan</i>	*Modelling the geochemical response of CO ₂ injection into the Guantao Formation, North China Basin
SC4	<i>K. Labus</i>	*Modeling CO ₂ sequestration mechanisms, and capacity of Carboniferous aquifer rocks of the Upper Silesian Coal Basin (Poland, Czech Republic)
Session: Geological hazards related to water-rock interaction		
GH1	<i>A.V. Kiryukhin, T.V. Rychkova, M.Y. Puzankov, L.P. Vergasova</i>	*Hydrothermal system in Geysers Valley (Kamchatka) and triggers of the Giant landslide