

MECC'08 – Posters

Tuesday, September 23, 2008	
Symposium 2. Fe-rich phyllosilicates and Fe oxy-hydroxides in terrestrial, marine and extraterrestrial environments	
1	Boris POKID'KO , Viktoriya KRUPSKAYA, Leonid VOEVODIN – An influence of different Fe-species on the rheological properties of bentonite suspensions
2	Kalle KIRSIMÄE, Peeter SOMELAR , Nele MUTTIK, Evelin VERSH – Chloritization of mafic target rocks in the impact-induced hydrothermal system at Kärdla impact crater, Estonia
3	Erzsébet TÓTH , Tamás G. WEISZBURG, Teresa JEFFRIES, C. Terry WILLIAMS, András BARTHA, Éva BERTALAN, Ildikó CORA – Submicroscopic accessory minerals overprinting clay mineral REE patterns
Symposium 4. Sorptive, chemical and physical properties of clays and their derivatives	
4	Cherifa BACHIR , Peter G. WEIDLER – Physicochemical and magnetic properties of aluminium and zirconium pillared clays
5	Tomasz BAJDA, Zenon KŁAPYTA – Sorption of chromate by clinoptilolite, glauconite and montmorillonite modified with alkylammonium surfactant
6	Monica BENÍTEZ-GUERRERO, José PASCUAL-COSP, Vladimir BALEK, Milan BENEŠ, Jan ŠUBRT, José Luis PÉREZ-RODRÍGUEZ, Luis Alan PÉREZ-MAQUEDA – Thermal behaviour of lead-containing bentonite from Gador
7	Jana HRACHOVÁ , Peter BILLIK, Peter KOMADEL, Vladimír Štefan FAJNOR – The effect of organocations on the mechanochemical activation of montmorillonite
8	Lubos JANKOVIC – Adsorption of an acidic textile dye to organo-bentonite
9	Maria C. JIMÉNEZ de HARO, Angel JUSTO , Juan POYATO, Luis Alan PÉREZ MAQUEDA, Anton LERF, Friedrich E. WAGNER, José Luis PÉREZ RODRÍGUEZ – Effect of the layer charge on the thermal behaviour of NH_4^+ -vermiculites
10	Zdenek KLIKA , Petra HORÁKOVÁ, Pavla ČAPKOVÁ, Michal RITZ, Pavel MALÝ – Interactions of methylene blue with montmorillonites
11	Krystyna KREINER, Andrzej KRZYŻANOWSKI , Mieczysław ŻYŁA – Sorption properties of naturals and modified clay minerals
12	Andrzej KRZYŻANOWSKI , Anna MICHAŁOWSKA, Katarzyna ZARĘBSKA – Changes in the porous structure of acid-activated mixed sorbent (montmorillonite – silica gel)
13	Andrzej KRZYŻANOWSKI , Monika MOTAK, Helmut PAPP, Katarzyna ZARĘBSKA – Silica gel modified montmorillonite as catalytic supports in deNOx reaction
14	Andrzej KRZYŻANOWSKI , Katarzyna ZARĘBSKA – The investigation of influence of replaceable cations stabilization process on properties of received intercalates
15	Jana MADEJOVÁ , Helena PÁLKOVÁ, Martin PENTRÁK, Peter KOMADEL – Studies of acid-treated clay minerals by near-infrared spectroscopy
16	Marián MATEJDES , Marián JANEK – Effect of montmorillonite on the association constants of supramolecular complexes with fluorescence dyes
17	Monika MOTAK , Helmut PAPP – The removal of nitrogen oxides by modified montmorillonites
18	Monika MOTAK , Helmut PAPP – The redox properties of iron- and copper-impregnated montmorillonites: effect on DeNOx activity
19	Miroslav POSPIŠIL , Petr KOVÁŘ, Petr MALÝ, Zdeněk KLIKA, Petra HORÁKOVÁ, Marta VALÁŠKOVÁ, Pavla ČAPKOVÁ – Molecular modeling of montmorillonite (Wyoming, Cheto) surface covered by methylene blue cations
20	Petr PRAUS , Martina TURICOVÁ, Mariana KLEMENTOVÁ – Preparation of silver-montmorillonite nanocomposites
21	Torsten SEIFFARTH , Christian KAPS – The role of minor components in the fixation of Cu^{2+} cations by bentonites after saturation with Cu^{2+} solutions and thermal treatment
22	Tomas ZACHER , Marian JANEK – Preparation of novel inorganic-organic nanocomposites from „host-guest“ intercalates of kaoline and halloysite

	Symposium 9. Drilling industry - clays - environmental problems
23	Lucyna CZEKAJ, Jerzy FIJAŁ , Andrzej GONET, Stanisław STRYCZEK, Ireneusz GRZYWNOWICZ, Kazimierz MACNAR – Detoxication of drilling waste contaminated with oil products and their management in ground environment on the example of the Podkarpacie District
24	Aleksandra JAMROZIK – Method of thermal utilization of used drilling muds
25	Kazimierz MACNAR , Andrzej GONET, Stanisław STRYCZEK – Dewatering and neutralization of waste drilling muds
26	Krzysztof PIĄTCZAK – Shale-inhibiting fluids for HDD applications
27	Rafał WIŚNIEWSKI , Stanisław STRYCZEK – Rheological model for drilling fluids using generalized yield power law
28	Rafał WIŚNIEWSKI , Krzysztof SKRZYPASZEK – The computer method for determining a rheological model of drilling fluid
29	Roman ŻUREK, Lucyna CZEKAJ, Jerzy FIJAŁ – Impact of clay minerals and some drilling mud additives on microbial life
	Symposium 10. Industrial applications of clays
30	Saeer AHMAD , Yaseen IQBAL, Fazal GHANI – Phase composition and microstructure of brick-clay soil and fired clay-bricks from some areas in Peshawar, Pakistan
31	Maria GOREA , Horea BEDELEAN, Michael STAMATAKIS, Dana POP – Clay rocks and mining wastes from Greece as raw materials for lightweight aggregates
32	Maria GOREA , Horea BEDELEAN, Michael STAMATAKIS, Dana POP – Phase composition and technical properties of the Petrești bentonite (Cluj county, Romania) as raw materials for ceramic products
33	Jana HRACHOVÁ , Peter KOMADEL, Ivan CHODÁK – Rubber-layer silicate (nano) composites
34	Libor KOBERA , Jiří BRUS, Martina URBANOVÁ, Roman SLAVIK – Influence of water on stability of geopolymers investigated by NMR solid state spectroscopy
35	Ferenc KRISTÁLY – Mineralogical composition of test brick samples from illite and chlorite rich clay with pore forming additives (Tiszavasvári, Hungary)
36	L. LORENZO, P. NARANJO, E. M. FARFÁN TORRES, Rosa M. TORRES SANCHEZ – Uptake of As by 4-Na-mica and their mechanical treatment product
37	Eve MENGER-KRUG , René KADEN, Peter KROLLA-SIDENSTEIN, Katja EMMERICH, Kerstin PETRICK, Ursula OBST – Biological processes during clay maturation
38	Andrea SCHICKER , Susanne GIER – How to make loam bricks more stable
39	Vojka ŽUNIČ, Meta DOBNIKAR – Applicability of selected clays from NE Slovenia
Wednesday, September 24, 2008	
	Symposium 1. Crystal chemistry, structure and synthesis of clay minerals
40	Ilze LÜSE , Valdis SEGLINS, Agnese STUNDA – Possible illite polytypes in the glaciogenic sediments
41	Michael PLÖTZE , Günter KAHR – Diagnostic intercalation in clay minerals – use of Guanidine carbonate
42	Esperanca TAULER , J.A. PROENZA, S. GALÍ, M. LABRADOR, J. PORTILLO, J.F. LEWIS, F. LONGO, G. BLOISE – New data on sepiolite-falcondoite in garnierite veins from Falcondo Ni-laterite deposit (Dominican Republic)
	Symposium 5. Layered double hydroxides and nanohybrid materials
43	Sumio AISAWA, Hidetoshi HIRAHARA, Chie NAKADA, Eiichi NARITA – Synthesis and characterization of dipentaerythritol-intercalated layered double hydroxide
44	František KOVANDA , Lukáš KRŮPA, Tomáš ROJKA, Tomáš GRYGAR – Mixed oxides formed during thermal treatment of Co-M ^{III} layered double hydroxides (M ^{III} = Al and/or Fe)
45	Justyna PŁONA , Dariusz MUCHA, Bogna NAPRUSZEWSKA, Jerzy PODOBIŃSKI, Michał ŚLIWA, Ryszard GRABOWSKI, Ewa M. SERWICKA – Hydrotalcite-derived Cu-Zn-Al-Zr mixed oxide catalysts for CO ₂ to methanol conversion

46	Aiko YASUTAKE , Sumio AISAWA, Naoyuki KOBASHI, Satoshi TAKAHASHI, Hidetoshi HIRAHARA, Eiichi NARITA - 5-fluorouracil-intercalated layered double hydroxide as carrier for efficient cellular delivery
47	Małgorzata ZIMOWSKA , Roman DULA, Justyna PLONA, Bogna NAPRUSZEWSKA, Robert JANIK, Tadeusz MACHEJ, Ewa M. SERWICKA – Synthesis, physicochemical characterisation and catalytic properties of hydrotalcite-like Cu-Mn-Al compounds
	Symposium 6. Clay minerals as a tools in geological processes interpretation
48	Ali Ismail AL-JUBOURY – Clay mineral assemblages and diagenesis in Ordovician shale of Iraq
49	Xabier ARROYO , Javier ARÓSTEGUI, Fernando NIETO – Detrital mica transformed to mixed-layer illite/smectite under early diagenetic conditions. Back-reaction processes
50	Czesław AUGUST , Radosław PUCHAŁA, Wojciech ŚLIWIŃSKI – Clay mineral composition in a seafloor sediments from Gulf of Thailand, South China Sea
51	Marta MILEUSNIĆ, Goran DURN , Franz OTTNER, Josip TIŠLJAR, Dunja ALJINOVIĆ, Uroš BARUDŽIJA – Origin of clayey materials deposited during Aptian/Albian emersion in Istria, Croatia
52	Katarzyna GÓRNIAK – Diversity of smectite minerals in the Polish Flysch Carpathians marls: crystal-chemistry and origin
53	Krzysztof BAHRANOWSKI, Adam GAWEŁ, Katarzyna GÓRNIAK , Leszek MARYNOWSKI, Tadeusz RATAJCZAK, Tadeusz SZYDŁAK - Middle Jurassic black shale (Skrzypny Shale Formation) – palaeoenvironmental significance one of the oldest deposits of the Pieniny Klippen Belt
54	Katalin JUDIK , Péter ÁRKAI – Comparison of very low-grade metamorphism in the Medvednica Mts. (Croatia) and the Bükkium (N Hungary)
55	Katalin JUDIK , Kadosa BALOGH , Péter ÁRKAI – K-Ar ages versus grain size, phyllosilicate „crystallinity” indices, crystallite size and lattice strain data: a case study of fine-grained siliciclastites of various metamorphic grades
56	Katalin JUDIK , Gerd RANTITSCH – Comparison of phyllosilicate reaction progress indicating parameters and organic maturity in the western Greywacke Zone
57	Selahattin KADİR , Esref ATABEY, Muhsin EREN – A preliminary approach to palygorskite occurrence in Middle Miocene dolomitic sediments of alluvial fan in Çanakkale, NW Turkey
58	Boris KRUK , Marta MILEUSNIĆ, Koraljka BAKRAČ, Darko TIBLJAŠ, Željko KASTMÜLLER, Nikolina ILIJANIĆ, Ljiljana KRUK – Clay mineralogy, geochemistry and pollen of the Ričice clay deposit, Croatia, a paleo-environmental reconstruction
59	Yulia V. KUSHCHEVA – K-Ar and Rb-Sr isotope systems are indicators of the transformation of Vendian-Riphean clayey rocks of the Russian Platform
60	Pavle I. PREMOVIĆ, Justyna CIESIELCZUK, Mirjana S. PAVLOVIĆ, Nikola D. NIKOLIĆ – Physicochemical conditions of formation of the epithermal dickite from Nowa Ruda, Poland
61	Regina PUKA , Jan ŚRODOŃ – Diagenetic changes in sandstones and shales from the Podhale Basin
62	Ewa T. SOKALSKA , Elżbieta DUBIŃSKA, Grzegorz KAPROŃ, Paweł BYLINA – Layer silicates from selected boreholes on Fore Sudetic Monocline (Western Poland)
63	Emilia Solotchina, Pavel Solotchin , Anastasia Zhdanova – Clay minerals of Lake Hovsgol (Mongolia) bottom sediments as indicators of paleoclimate changes in Central Asia
64	Bratislav Ž. TODORVIĆ , Pavle I. PREMOVIĆ, Mirjana S. PAVLOVIĆ – Cretaceous/Paleogene boundary (KBP) Fish Clay at Højerup (Stevns Klint, Denmark): Ni, Co and Zn in the carbonate and smectite of the black marl
65	Tatyana S. ZAITSEVA , Denis I. GOLOVIN, Igor M. GOROKHOV, Antony E. FALLICK, Anton B. KUZNETSOV, Tatyana L. TURCHENKO – Two illite generations in a Vendian shale: the K-Ar and O-isotope evidence
66	Mehdi Zarei , Karl Stahr – New formation of zeolite in a volcanic pumice of Hegau, SW Germany
	Symposium 11. Environmental interactions, clay barriers and waste management, geotechnics
67	Renata ADAMCOVA , Martin VALTER , Michael PLÖTZE – The response of two bentonites to an acid and/or thermal attack
68	Slávka ANDREJKOVIČOVÁ , Ivan JANOTKA, Peter KOMADEL – A blend of sodium Al-rich and Fe-rich bentonites – a potential filler for geosynthetic clay liners?
69	Horea BEDELEAN , Andrada MĂICĂNEANU, Silvia BURCĂ, Maria STANCA – Heavy metal ions removal from wastewaters using natural clays

70	Eleonora BUTENKO , Alexey KAPUSTIN – The adsorption of heavy metal ions by clay minerals
71	Eleonora BUTENKO , Alexey KAPUSTIN – The comparison of heavy metal adsorption by natural and synthetic talc
72	Biljana KOVACEVIC-ZELIC , Dubravko DOMITROVIC, Miso BLAZEVIC – Permeability testing of geosynthetic clay liners
73	Franz KÖNIGER, Gerhard KEMPER, Durime BUQEZI-AHMETI, Katja EMMERICH, Rainer SCHUHMAN – Characterisation of porous mineral materials using time domain reflectometry methods
74	Igor STRÍČEK , Vladimír ŠUCHA, Peter UHLÍK – Gamma-irradiation effects on smectite properties
Symposium 12. Geology of clays and related deposits	
75	Vanja BIŠEVAC , Darko TIBLJAŠ, Dražen KURTANJEK, Siniša MIKLAUŽIĆ, Dražen BALEN, Stjepan ŠČAVNIČAR – Clay minerals in zeolite deposit of Poljanska, Croatia
76	Anita GRIZELJ , Darko ŠPANIC, Darko TIBLJAŠ, Marijan KOVAČIĆ – Diagenesis of pelitic sediments in the Sava Depression (Croatia)
77	Ali Gürel - Clay mineralogy of the late Miocene successions of north part of the Aktoprak basin (Central Turkey)
78	Maria MAYRHOFER , Franz OTTNER, Birgit TERHORST, Eva KÖTTRITSCH, Bodo DAMM – Clay minerals and slope stability in Quaternary sediments in landslide areas of the Wienerwald Flysch Zone (Vienna Forest/Lower Austria)
79	Béla RAUCSIK , Andrea VARGA, Ágnes ROSTÁSI – Climato-environmental controls on clay mineralogy of the Lower Toarcian black shale succession of the Mecsek Mountains, Hungary: a possible evidence for extreme continental weathering during the early Toarcian oceanic anoxic event
Thursday, September 25, 2008	
Symposium 3. Kaolinite group minerals: properties, modifications and new applications	
80	Anwarul HAQ , Yaseen IQBAL and M. Riaz KHAN – Thermal, phase and micro-structural characterization of locally available kaolin clays
81	Selahattin KADIR , Firdevs KART – Mineralogy, geochemistry, and origin of the Sogut kaolin deposits in Paleozoic Saricakaya granite and granodiorite complexes in Bilecik, Northwest Turkey
82	Monika KASINA , Marek MICHALIK, Beata ZYCH-HABEL – Morphological diversity of diagenetic kaolinite in Cracow Sandstone Series sandstones (Upper Silesia Coal Basin)
83	Aleksandra KOZŁOWSKA , Marta KUBERSKA, Anna MALISZEWSKA – Kaolinite group minerals in the Upper Carboniferous and the Lower Permian sandstones of Pomerania area (Poland)
84	Viktoriya KRUPSKAYA , Svetlana NIKOLAEVA, Mikhal BUTOCHNIKOV – Kaolinites from NW Portugal: composition, structure and properties (materials from the field trip of EUROCLAY-2007)
85	Vladimir NOVIKOV, Nikolay BORTNIKOV, Viktoriya KRUPSKAYA , Rimma MINEEVA, Alexandr ZHUKHLISTOV, Georgiy PILOYAN, Aleksandr SPERANSKIY, Evgeniya BUSHUEVA – Crystalline morphological peculiarities of kaolinites from the lateritic weathering crust of South Vietnam granites
86	Martin PENTRÁK , Jana MADEJOVÁ – Acid dissolution of differently ordered kaolinites
87	Lubomír SMRČOK , Daniel TUNEGA, Jana VALÚCHOVÁ, Anibal Javier RAMIREZ-CUESTA, Alexander IVANOV – Inelastic neutron scattering (INS) study of hydrogen bonds in kaolinite-dimethylsulfoxide intercalate
Symposium 7. Clay minerals in soil environment	
88	Lilya BOUDRICHE , Rachel CALVET, Ange NZIHOU, John DODDS, Henri BALARD, Boualem HAMDY – Using an attapulgite clay for the removal of Pb (II) from solution
89	Agata BARTKOWIAK, Jacek DŁUGOSZ , Mirosław KOBIERSKI, Ryszard ZAMORSKI – Clay minerals in organic-mineral soils and sediments from the Unisław Basin (Poland)
90	Jacek DŁUGOSZ , Mirosław KOBIERSKI, Ryszard ZAMORSKI – Clay minerals in histosols formed at outcrops of greenschists from the Svanoy Island (Norway)
91	Wojciech ŁOBCZOWSKI , Jerzy WEBER, Andrzej KOCOWICZ – Clay minerals in soil derived from phonolite of Opolno-Zdroj area, Sudety Mts., SW Poland
92	Yulia SIMAKOVA – Transformation of the soil clay minerals under the anthropogenic salinization

93	Jarosław SZADORSKI , Jerzy WEBER – Clay mineral composition of different horizons of soils derived from granites at Sudety Mts and Foresudetic Block, SW Poland
94	Łukasz UZAROWICZ , Marek MICHALIK – Clay mineral formation in acid soils in the area of abandoned pyrite mine in Wieściszowice (Rudawy Janowickie Mts., SW Poland)
95	Karin WRIESSNIG , Franz OTTNER – A comparison of paleosoils in different loess deposits
96	Zbigniew ZAGÓRSKI – Preliminary mineralogical characteristics of soils developed from Lower Triassic clay deposits (Buntsandstein) in the Holy Cross Mts. (S Poland)
Symposium 13. Man and clays: health, history, environment	
97	Bernhard KRUZIK , Franz OTTNER – Adobe construction: examination of mineralogically different clays of Austria regarding their use as construction building materials
98	Marta MILEUSNIĆ , Maja MIŠE, Ivan GLAVAŠ, Boris ČARGO – Possible raw material for manufacture of helenistic pottery on the island of Vis, Croatia
99	Ingeborg WIMMER-FREY , Marie GRUBER, Gabriela KRIST – Scientific study of the artwork at Nako, India
Symposium 14. Clay minerals as nanomaterials in current and prospect applications	
100	Jakub MATUSIK , Adam GAWEŁ, Elżbieta BIELAŃSKA, Krzysztof BAHRANOWSKI – Aluminosilicate nanotubes derived from kaolinite group minerals
101	Alicja MICHALIK-ZYM, Małgorzata ZIMOWSKA, Elżbieta BIELAŃSKA, Krzysztof BAHRANOWSKI, Ewa M. SERWICKA – Layered sodium disilicates as precursors of mesoporous silicas: hydration of $\delta\text{-Na}_2\text{Si}_2\text{O}_5$ and $\alpha\text{-Na}_2\text{Si}_2\text{O}_5$
102	Helena PÁLKOVÁ , Jana MADEJOVÁ, Jerzy PODOBIŃSKI, Joanna KRYŚCIAK-CZERWENKA, Ewa M. SERWICKA – Acid sites developed on aluminated PCH derived from Laponite
103	Marta STRYCHARCZYK , Helena PÁLKOVÁ, Małgorzata ZIMOWSKA, Ewa M. SERWICKA, Krzysztof BAHRANOWSKI, Zbigniew OLEJNICZAK – Montmorillonite-derived porous clay heterostructures (PCHs): A study of structure evolution
104	Jana VALÚCHOVÁ, Stefan KAVECKÝ, Maria CAPLOVICOVA, Stefan HEISSLER, Marian JANEK – Synthesis of multiwall carbon nanotubes catalysed by smectite type of clays
105	Małgorzata ZIMOWSKA, Mirosława BAZARNIK , Jakub BAZARNIK, Krzysztof BAHRANOWSKI – Modification of FSM-16 mesoporous materials structure - preliminary results