

## Oral Programme GG1

### Bentonite: Genesis, Properties and Uses

Conveners Aleksandra Milutinović-Nikolić, Daisy Barbosa Alves

Thursday 18 June, 2009

Chair: Daisy Barbosa Alves

- 14.30 – 15.00 GG1a.Thu.KL1  
*L.N. Warr\**, *H. Hofmann*, *A.J. Schleicher*  
A K-AR STUDY OF THE PELLIGRINI LAKE BENTONITE (MALARGÜE GROUP), NORTHERN PATAGONIA: CAN THE AGE OF MONTMORILLONITE FORMATION BE DETERMINED?
- 15.00 – 15.20 GG1a.Thu.L2  
*John Whitehouse\**  
BENTONITE OCCURENCES IN NEW SOUTH WALES, AUSTRALIA
- 15.20 – 15.40 GG1a.Thu.L3  
*Milton Luiz*, *Laquintinie Formoso*, *Norberto Dani\**, *Adolpho José Melfi*, *Tunas Soares*, *Kellen Muradás*  
CHARACTERIZATION OF BENTONITE CLAYS OF BOA VISTA (BRAZIL)
- 15.40 – 16.00 GG1a.Thu.L4  
*Norberto Dani\**, *Luiz Delfino Albarnaz*, *Milton Luiz Laquintinie Formoso*, *André Sampaio Mexias*, *Nelson Amoreti Lisboa*, *Marcus Vinicius Dorneles Remus*, *Gabriel Kolbe Teixeira*  
COMPOSITION AND ORIGIN OF RIO DO RASTO BENTONITE (BAÑADO DE MEDINA QUARRY, URUGUAY)
- 16.00 – 16.20 GG1a.Thu.L5  
*Sedigheh Alaeibakhsh\**  
RELATIONSHIPS AMONG PEDOGENESIS, MINERAL COMPOSITION, CHEMICAL AND PHYSICAL PROPERTIES OF BENTONITE DEPOSITS IN THE QUAZVIN PLAIN, N.W. IRAN

COFFEE BREAK 16.20-16.40

Thursday 18 June, 2009

Chair: Aleksandra Milutinović-Nikolić

- 16.40 – 17.10 GG1b.Thu.L1  
*Isabele Bulhões Aranha*, *Reiner Neumann\**, *Arnaldo Alcover Neto*, *Vanessa De Almeida Rocha*, *Rosa Bernstein Scorzelli*, *Pablo Munayco*, *Rosane A.S. San Gil*  
MINERALOGICAL CHARACTERISATION, ORGANOPHILIZATION AND OIL ABSORPTION PERFORMANCE TEST OF A BRAZILIAN BENTONITE
- 17.10 – 17.30 GG1b.Thu.L2  
*Youjun Deng\**, *Ana Luisa Barrientos Velázquez*, *Joe B. Dixon*  
BONDING OF AFLATOXIN B1 TO SMECTITE
- 17.30 – 17.50 GG1b.Thu.L3  
*R. Dohrmann\**, *S. Kaufhold*  
EXCHANGEABLE CA<sup>2+</sup> OF GYPSIFEROUS BENTONITE
- 17.50 – 18.10 GG1b.Thu.L4  
*Funda O. Inanli*, *Warren D. Huff\**  
QUARTZ CRYSTAL SIZE DISTRIBUTION OF THE ORDOVICIAN MILLBRIG K-BENTONITE
- 18.10 – 18.30 GG1b.Thu.L5  
*Margarete Wagner Simas\**, *Milton Luiz Laquintinie Formoso*, *Margot Guerra-Sommer*, *Luiz Fernando De Ros*  
MINERALOGY, PETROGRAPHY AND GEOCHEMISTRY OF THE FAXINAL COALFIELD TONSTEIN, AN ALTERED VOLCANIC-ASH LAYER

## Poster Programme GG1

**Posting:** Wednesday 17 June, 20.30-22.30. **Removal:** Friday 19 June.

**Attendance Time:** Thursday 18 June, 18:30-20:00

**Chairs:** Daisy Barbosa Alves & Aleksandra Milutinović-Nikolić

- GG1.Thu.P1 *Hossein Abbassnia\**, *Mohammad Hassan Karimpour*  
BENTONITE: A CLAYEY ROCK WITH A WIDE RANGE OF USES AND APPLICATIONS FROM EASTERN IRAN
- GG1.Thu.P2 *Sedigheh Alaeibakhsh\**  
EVALUATION AND CHARACTERIZATION OF BENTONITIC CLAYS OF THE QAZVIN PROVINCE (N.W.IRAN.) AND THEIR BENEFICIATION AND USE AS DRILLING MUDS
- GG1.Thu.P3 *Hossein Abbassnia\**, *Hbiballah Torshizian*, *Ehsan Sharifi*  
RECOGNITION OF BENTONITE MINES GENESIS BY THEIR OCCURRENCE IN EASTERN IRAN
- GG1.Thu.P4 *Olugbenga A. Falode\**, *A. Lukman*  
EFFECTS OF ELECTROLYTES AND TEMPERATURE ON THE PROPERTIES OF NIGERIAN BENTONITIC CLAY
- GG1.Thu.P5 *A. Milutinović-nikolić\**, *J. Dostanić*, *P. Banković*, *N. Jović-jovičić*, *S. Lukić*, *D. Jovanović*  
BENTONITE-BASED GEOTEXTILE COMPOSITES
- GG1.Thu.P6 *Telma Musso*, *Graciela Silva*, *Jorge Valles\**, *Gisela Pettinari*, *Luciano Di Nardo*, *Karl Ernst Roehl*  
BENTONITES FROM NORTH PATAGONIA TO BE USED IN COMPACTED CLAY LINERS
- GG1.Thu.P7 *Zoran Nedić*, *Tatjana Novaković\**, *Ljiljana Rožić*, *Jasmina Dostanić*  
TEXTURAL AND MORPHOLOGICAL PROPERTIES OF HETEROPOLY ACID SUPPORTED ON ACID- ACTIVATED SMECTITE CLAY
- GG1.Thu.P8 *Stanisa Stojiljkovic\**, *Ljubisa Nikolic*, *Zorica Vukovic*, *Vesna Nikolic*, *Agnes Kapor*  
SYNTHESIS AND CHARACTERIZATION OF BENTONITE -POLY (METHACRYLIC ACID) NANOCOMPOSITES
- GG1.Thu.P9 *Anja Terzić\**, *Ljubica Pavlović*  
EFFECT OF TEMPERATURE AND EXCHANGEABLE CATION ON MASS TRANSFER PHENOMENA IN A CLAY-MINERAL SYSTEM
- GG1.Thu.P10 *Ana Luisa Barrientos Velázquez\**, *Youjun Deng*, *Joe B. Dixon*  
EVALUATION OF SMECTITE CLAYS AS AFLATOXIN ADSORBENTS
- GG1.Thu.P11 *E. Caballero\**, *C. Jimenez de Cisneros*  
NATURAL THERMAL ALTERATION IN BENTONITES (CABO DE GATA, ALMERIA, SE SPAIN)
- GG1.Thu.P12 *Jorge A. Costa\**, *André S. Mexias*, *Márcia E. B. Gomes*  
CHARACTERIZATION OF CLAYSTONE FROM THE RIO DO RASTRO FORMATION, PARANÁ BASIN (SANTA CATARINA - SOUTH BRAZIL), USED IN THE CERAMIC INDUSTRY
- GG1.Thu.P13 *N. Jović-jovičić*, *A. Milutinović-nikolić\**, *P. Banković*, *Z. Mojović*, *B. Nedić*, *D. Jovanović*  
ORGANOBENTONITES AS SIMULTANEOUS ORGANO-INORGANIC SORBENTS
- GG1.Thu.P14 *P. Makri\**, *G.E. Christidis*  
MINERALOGY, CHEMISTRY AND SMECTITE LAYER CHARGE SYSTEMATICS IN BENTONITE DEPOSITS OF MILOS ISLAND, GREECE
- GG1.Thu.P15 *Zorica Mojović\**, *Predrag Banković*, *Aleksandra Milutinović-nikolić*, *Dušan Jovanović*  
Co-ALUMINOSILICATE-BASED ELECTRODES
- GG1.Thu.P16 *Tatjana Novaković\**, *Ljiljana Rožić*, *Srđan Petrović*  
STATISTICAL DESIGN OF EXPERIMENTS OF BETA-CAROTENE ADSORPTION ON ACID-ACTIVATED SMECTITE CLAY
- GG1.Thu.P17 *Ljiljana Rožić\**, *Tatjana Novaković*, *Srđan Petrović*  
MODELING AND OPTIMIZATION PROCESS PARAMETERS OF SMECTITE CLAY ACID ACTIVATION BY RESPONSE SURFACE METHODOLOGY
- GG1.Thu.P18 *Meryem Sakizci\**, *Burcu Erdoğan Alver*, *Ertuğrul Yörükoğullari*  
MINERALOGICAL AND THERMAL CHARACTERISTICS OF BENTONITES FROM TURKEY
- GG1.Thu.P19 *Haruo Sato\**  
THERMODYNAMIC ANALYSIS OF THE EFFECT OF SALINITY ON THE INTERLAYER SPACE OF SODIUM-MONTMORILLONITE
- GG1.Thu.P20 *Habib Allah Torshizian\**, *Sharifi Ehsan*  
INVESTIGATION OF CHEMICAL AND PHYSICAL PROPERTIES OF KHONJ BENTONITE MINE AND ITS

APPLICATIONS

- GG1.Thu.P21 *Abdeldjalil Zadjajoui\**, *Abdelmalek Bekkouche*, *Myriam Duc*  
VALORISATION OF THE BENTONITIC CLAY DEPOSITS OF THE HAMMAM BOUGHRARA DISTRICT IN ALGERIA
- GG1.Thu.P22 *L. Chen*, *R.F. Jiang*, *D.S. Tong*, *G.F. Jiang*, *H.S. Xia*, *N.Q. Fan*, *M.Y. Li*, *C.H. Zhou\**  
EFFECTS OF PREPARATION METHODS ON PERFORMANCES OF ACID-ACTIVATED BENTONITE
- GG1.Thu.P23 *S.M. Hashemi\**  
GENESIS OF CLAY MINERALS IN VOLCANICLASTIC ROCKS OF TABAS (EAST OF IRAN)
- GG1.Thu.P24 *Adriana Almeida Silva*, *Alexandre Dantas*, *Guillermo R. Martín-Cortés*, *Maria Das Graças Da Silva Valenzuela*,  
*Francisco R. Valenzuela-díaz\**  
CHARACTERIZATION OF NATURAL AND ORGANOPHILIC BRAZILIAN BENTONITES
- GG1.Thu.P25 *Pierpaolo Mattias\**  
BENTONITES AND BENTONITIZED ROCKS OF MARCHE (UMBRO - MARCHEAN APENNINES)

## Oral Programme GG2

### Clay Mineral Association of the Cretaceous - Paleogene and Paleocene - Eocene Boundary Events

Convener: Pavle I. Premovic

#### Friday 19 June, 2009

Chair: Pavle I. Premovic

- 08.50 – 09.20 GG2a.Fri.KL1  
*Lars Riber, Florin Burca, Henning Dypvik\*, Denise R  ther, David Jargvoll, Jen   Nagy*  
MINERALOGICAL SHIFTS AT THE PALEOCENE-EOCENE THERMAL MAXIMUM (PETM) EVENT, SVALBARD
- 09.20 – 09.40 GG2a.Fri.L2  
*Pavle Premovi  , Maja Stankovi  , Justyna Ciesielczuk, Bratislav Todorovi  \**  
THE REDDISH "IMPACT" LAYER OF THE BASAL FISH CLAY AT CRETACEOUS-PALEOGENE BOUNDARY, H  JERUP (STEVNS KLINT, DENMARK)
- 09.40 – 10.00 GG2a.Fri.L3  
*Anton Preisinger\*, Selma Aslanian, Friedrich Grass, Johann Wernisch*  
FALLOUT AND BOUNDARY CLAY OF THE CRETACEOUS/PALEOGENE (K/T) BOUNDARIES OF CARAVACA (SPAIN), CERBARA (ITALY) AND BJALA (BULGARIA)
- 10.00 – 10.20 GG2a.Fri.L4  
*Katja I. Panov, Mirjana S. Pavlovi  , Pavle I. Premovi  , Budimir S. Ili  \*, Dragan M.   or  evi  *  
COSMOGENIC NI IN THE CRETACEOUS-PALEOGENE BOUNDARY CLAY AT BLAKE NOSE (NW ATLANTIC)
- 10.20 – 10.40 GG2a.Fri.L5  
*Victoria Krupskaya\*, Alexey Krylov, Vyacheslav Sokolov, Mikhail Chernov, Irina Andreeva*  
CLAY MINERALS OF THE CRETACEOUS AND PALEOGENE SEDIMENTS FROM THE LOMONOSOV RIDGE, ARCTIC OCEAN (BASED ON IODP-302 DATA)

#### COFFEE BREAK 10.40-11.00

#### Friday 19 June, 2009

Chair: Henning Dypvik & Pavle I. Premovic

- 11.00 – 11.30 GG2b.Fri.L1  
*Dirk Schumann\*, Timothy D. Raub, Robert E. Kopp, Jean-Luc Guerquin-Kern, Ting-Di Wu, Isabelle Rouiller, Aleksey V. Smirnov, S. KellySears, Uwe L  cken, Sonia M. Tikoo, Reinhard Hesse, Joseph L. Kirschvink, Hojatollah Vali*  
GIGANTIC BIOGENIC MAGNETITE IN BOUNDARY CLAYS AT THE PALEOCENE-EOCENE THERMAL MAXIMUM
- 11.30 – 11.50 GG2b.Fri.L2  
*Ramkumar Muthuvairavasamy, Anbarasu Kuppan\*, Doris Stueben, Zsolt Berne*  
ENVIRONMENTAL AND CLIMATIC CONDITIONS ACROSS CRETACEOUS-TERTIARY TRANSITION IN THE CAUVERY BASIN, SOUTH INDIA: EVIDENCES FROM CLAY AND BULK MINERALOGICAL DATA
- 11.50 – 12.10 GG2b.Fri.L3  
*Martin Kennedy\*, Thomas Wagner*  
PRESERVATION OF ORGANIC CARBON WITHIN THE INTERLAYER SITES OF SMECTITE WITHIN MILLINEAL SCALE CYCLES OF A CRETACEOUS OAE
- 12.10 – 12.30 GG2b.Fri.L4  
*J. P. Shrivastava\*, Mansoor Ahmad*  
CLAY MINERALOGICAL VARIATIONS IN THE BOLE HORIZONS FROM THE EASTERN DECCAN VOLCANIC PROVINCE: DURATION OF DECCAN VOLCANISM AND K/Pg BOUNDARY
- 12.30 – 12.50 GG2b.Fri.L5  
*Pavle I. Premovi  \**  
THE CRETACEOUS-PALEOGENE BOUNDARY CLAY BEDS IN THE WORLD OCEANS: EVIDENCE FOR THE GLOBAL ACIDIFICATION OF OCEAN SURFACE

**Poster Programme GG2**

**Posting:** Wednesday 17 June, 20.30-22.30. **Removal:** Friday 19 June.

**Attendance Time:** Thursday 18 June, 18:30-20:00

**Chair:** Pavle I. Premovic

- GG2.Thu.P1 *Ray Ferrell\**, *David T. King jr.*, *Lucille W. Petruny*  
CLAY PSEUDOMORPHS OF KT MICROTEKTITES, SHELL CREEK, ALABAMA, USA
- GG2.Thu.P2 *Pavle I. Premović*, *Nikola D. Nikolić*, *Budimir S. Ilić*, *Dejan T. Dulanović\**  
GEOCHEMISTRY OF THE CRETACEOUS-PALEOGENE BOUNDARY CLAY FROM THE STARKVILLE-SOUTH SITE (THE RATON BASIN, USA): VANADIUM
- GG2.Thu.P3 *J. Arostegui*, *J.I. Baceta*, *V. Pujalte*, *M.C. Zuluaga\**  
LATE CRETACEOUS-EARLY PALEOCENE MID-LATITUDE CLIMATES: INFERENCES FROM CLAY MINERALOGY OF TREMP-GRAUS BASIN COASTAL SEQUENCES (PYRENEES, N SPAIN)
- GG2.Thu.P4 *Jamel Gharsalli\**, *Rim Rkik*, *Housseem Mzali*, *Faiçal Turki*, *Fakher Jamoussi*, *Fakher Jamoussi*  
CHANGES IN CLAY MINERALS OF CRETACEOUS-PALEOGENE IN NORTH EASTERN TUNISIA AND DISCUSSION ABOUT THE RESPONSIBLE FACTORS: PALAEOGEOGRAPHY, DIAGENETIC AND VOLCANIC INFLUENCES
- GG2.Thu.P5 *Bratislav Z. Todorović*, *Mirjana S. Pavlović*, *Pavle I. Premović*, *Nenad S. Krstić\**, *Miloš G. Đorđević*  
GEOCHEMISTRY OF THE CRETACEOUS-PALEOGENE BOUNDARY CLAY (FISH CLAY) AT HOJERUP (STEVNS KLINT, DENMARK): CU IN THE SMECTITE CONCENTRATE

**Oral Programme GG3**

**Clay minerals and fluid flow through faults**

**Convener:** Dimitris Papoulis

**Tuesday 16 June, 2009**

**Chair:** Dimitris Papoulis

- 14.30 – 15.00 GG3.Tue.KL1  
*P. Sardini\*, E. Morichon, D. Guisseau, E. Laverret, D. Pret, P. Dudoignon, P. Patrier-mas*  
CLAYS AND CLAY MINERALS AS MARKERS OF FAULTS ACTIVITY IN GEOLOGICAL SYSTEMS
- 15.00 – 15.20 GG3.Tue.L2  
*Philippe Gouze\*, Muriel Andreani, Linda Luquot, Paul Jouanna*  
CHANGES IN SEAL CAPACITY OF FRACTURED CLAYSTONE CAPROCKS INDUCED BY DISSOLVED AND GASEOUS CO<sub>2</sub> SEEPAGE
- 15.20 – 15.40 GG3.Tue.L3  
*Anja M Schleicher, Ben A Der Pluijm, Laurence N Warr\**  
CLAY NANO-COATINGS AND THEIR ROLE IN FAULT-CREEP ACTIVITY ON THE SAN ANDREAS FAULT AT THE SAFOD DRILLHOLE IN PARKFIELD, CALIFORNIA
- 15.40 – 16.00 GG3.Tue.L4  
*Holger Seher\*, Nairobi Albarran, Robert Götz, Thorsten Schäfer, Wolfgang Hauser, Tiziana Missana, Horst Geckeis, Thomas Fanghänel*  
COMPACTED BENTONITE EROSION UNDER GRAN-ITE GROUNDWATER CONDITIONS
- 16.00 – 16.20 GG3.Tue.L5  
*Paola Mameli, Giacomo Oggiano\**  
TERTIARY TECTONICS OF NORTH-WESTERN SARDINIA AND ITS BEARING ON KAOLIN DEPOSITS GENESIS

**Poster Programme GG3**

**Posting Time:** Monday 15 June, 20.30-22.30; **Removal:** Wednesday 17 June, 12.50-14.30;

**Attendance Time:** Tuesday, 16 June, 18:30–20:00

**Chair:** Dimitris Papoulis

- GG3.Tue.P1      *Dimitris, Papouls\*, Ioannis k. Koukouvelas*  
CLAY MINERALS AND FLUID INVOLVEMENT IN THE ACTIVE HELIKE NORMAL FAULT, GULF OF CORINTH, GREECE
- GG3.Tue.P2      *Mohamed Khodja\*, Khadidja Guellil, Malika Khodja-Saber, Joelle Duplay, Zoubir Kessaissia*  
CLAYS SOURCE OF DAMAGE DURING DRILLING OIL RESERVOIR
- GG3.Tue.P3      *Sheng-Rong Song\*, Li-Wei Kuo*  
CHARACTERISTICS OF CLAY MINERALOGY IN THE FAULT ZONE OF THE TCDP AND ITS IMPLICATION
- GG3.Tue.P4      *B. Lacroix\*, D. Charpentier, M. Buatier, P. Labaume*  
CRYSTALLISATION OF SYNKINEMATIC PHYLLOSILICATES IN THRUST FAULTS: EXAMPLES FROM THE PYRENEAN OROGENIC PRISMB

**Oral Programme GG4**

**Clay Minerals & Climate Change**

Convener: Luigi Marinoni

**Friday 19 June, 2009**

**Chairs:** Luigi Marinoni & Massimo Setti

- 14.30 – 15.00 GG4.Fri.KL1  
*Jean-Frank Wagner\**, *Oscar Baeza*, *Tatjana Steinke*, *Rolf Kilian*  
MECHANISM OF LATE GLACIAL TO HOLOCENE CLAY MINERAL TRANSPORT IN A FJORD SYSTEM ACROSS THE SOUTHERNMOST ANDES (53°S)
- 15.00 – 15.20 GG4.Fri.L2  
*István Viczián \**  
MINERALOGY OF PLIOCENE AND QUATERNARY ALLUVIAL SEDIMENTS OF THE PANNONIAN BASIN: A QUANTITATIVE APPROACH
- 15.20 – 15.40 GG4.Fri.L3  
*Patricia Angelika Roeser\**, *Emmanoel Viera Silva-Filho*, *Ana Luiza Spadano Albuquerque*, *Ana Maria Graciano Figueiredo*, *Rômulo Simões Angélica*, *Holger Weiss*  
CLAY MINERALS AS POSSIBLE PALEOCLIMATIC INDICATORS FOR RIO DA PRATA BASIN
- 15.40 – 16.00 GG4.Fri.L4  
*Victor Mats\**, *Tamara Lomonosova*, *Galina Vorobjova*, *Liba Granina*, *Gelena Vologina*  
EVOLUTION OF CRUST- AND SOIL FORMATION AND SEDIMENTATION FROM LATE CRETACEOUS TO QUATERNARY (THE BAIKAL REGION)
- 16.00 – 16.20 GG4.Fri.L5  
*Tatiana Alekseeva\**, *Pavel Kabanov*, *Andrey Alekseev*, *Berta Zolotareva*, *Veronika Alekseeva*  
LATE CARBONIFEROUS PLYGORSKITIC PALEOSOL: KEY TO PENNSYLVANIAN CLIMATE

**Poster Programme GG4**

**Posting:** Wednesday 17 June, 20.30-22.30. **Removal:** Friday 19 June.

**Attendance Time:** Thursday 18 June, 8:30–20:00

**Chairs:** Luigi Marinoni & Massimo Setti

- GG4.Thu.P1 *Nikolina Iljanić\**, *Slobodan Miko*, *Ozren Hasan*, *Saša Mesić*, *Martina Šparica-Miko*, *Georg Koch*, *Koraljka Bakrač*  
HOLOCENE EVOLUTION OF THE VRANSKO JEZERO CATCHMENT (CROATIA): A RECONSTRUCTION BASED ON CLAY MINERALOGY AND GEOCHEMISTRY
- GG4.Thu.P2 *Ali Kasraian\**, *Hamidreza Owliaie*  
CLAY MINERAL DISTRIBUTIONS IN THE SEDIMENTARY ROCKS OF KOHGILOUYE, IRAN
- GG4.Thu.P3 *Ceren Küçükuyusal\**, *Asuman G. Türkmenoğlu*, *I. Ömer Yılmaz*  
CLAY MINERALS AS PALEOCLIMATE INDICATORS OF PLIOCENE-PLEISTOCENE TIME RANGE, ANKARA AREA, TURKEY
- GG4.Thu.P4 *Xabier Murelaga*, *M<sup>a</sup> Cruz Zuluaga\**, *Juan Cruz Larrasoaña*, *Miguel Garces*, *Javier Pérez Rivas*, *Marta Vázquez-Urbez*  
CLAYS AND CLIMATIC VARIATIONS IN THE EARLY-MIDDLE MIOCENE OF THE EBRO BASIN (IBERIAN PENINSULA)
- GG4.Thu.P5 *Shlomo Shoval\**, *Olga Zlatkin*  
CLIMATIC CHANGES DURING THE PLIOCENE AS OBSERVED FROM LAGOONAL SEDIMENTS OF THE SEDOM FORMATION, THE DEAD SEA BASIN
- GG4.Thu.P6 *Shlomo Shoval\**  
CLAY MINERAL ASSEMBLAGES OF A PLIOCENIC SALINE ENVIRONMENT – THE LAGOONAL SEDIMENTS OF THE SEDOM FORMATION, THE DEAD SEA BASIN
- GG4.Thu.P7 *Nurdan Yavuz-Işik\**, *Asuman Günel Türkmenoğlu*  
COMPARISON OF CLAY MINERALS OF THE NEOGENE FLUVIAL-LACUSTRINE DEPOSITS WITH POLLEN DATA AS CLIMATIC INDICATOR IN THE CAPPADOCIAN VOLCANIC PROVINCE, CENTRAL ANATOLIA, TURKEY
- GG4.Thu.P8 *Alfonso Yuste\**, *María José Mayayo*, *Arantxa Luzón*, *Blanca Bauluz*  
PALAEOENVIRONMENTAL IMPLICATIONS FROM PHYLLOSILICATES ASSOCIATIONS IN A LACUSTRINE SYSTEM (EBRO BASIN)
- GG4.Thu.P9 *Mustafa Ergin\**, *Emel Bayhan*, *Abidin Temel*, *Nezaket Dönmez*  
CLAY MINERAL DISTRIBUTION IN LATE QUATERNARY SEDIMENTS FROM THE CINARCIK BASIN-IZMIT GULF TRANSITION, MARMARA SEA, TURKEY

## Oral Programme GG5

### Clays in Geological Processes

Conveners: Anne Marie Karpoff, Giovanni Mongelli

#### Sunday 14 June, 2009

Chairs: Etienne Balan & Jeanne Percival

- 11.00 – 11.30 GG5a.Sun.KL1  
*D. Beaufort\**, *P. Patrier*, *D. Quirt*, *E. Morichon*, *C. Rigault*, *S. Gaboreau*, *E. Laverre*  
CLAY MINERALS AND ASSOCIATED PHASES RELATED TO THE DEPOSITION OF UNCONFORMITY-TYPE URANIUM DEPOSITS
- 11.30 – 11.50 GG5a.Sun.L2  
*André Mexias\**, *Everton Bongiolo*, *Márcia E. B. Gomes*, *Christophe Renac*, *Patricia Patrier-Mas*, *Guilherme C. Troian*, *Denise Canarim*, *Dijeane Rigo*  
EPITHERMAL (AU, CU) DEPOSITS (CA 600 MA) IN SOUTH BRAZIL – CONSTRAINTS FROM CLAY MINERALS AND PHYLLOSILICATES
- 11.50 – 12.10 GG5a.Sun.L3  
*Thierry Allard\**, *Elisa Morichon*, *Chloe Fourdrin*, *Etienne Balan*, *Emmanuel Fritsch*, *Georges Calas*  
TRACING GEOCHEMICAL PROCESSES USING RADIATION-INDUCED DEFECTS IN KAOLINITE: A REVIEW
- 12.10 – 12.30 GG5a.Sun.L4  
*Jeanne B. Percival\**, *Sean A. Bosman*, *Katherine E. Venance*, *Pat A. Hunt*, *Paul Ramaekers*, *Charlie W. Jefferson*  
ORIGIN OF ENIGMATIC BEDS IN PROTEROZOIC SANDSTONE, ATHABASCA BASIN, SASKATCHEWAN, CANADA
- 12.30 – 12.50 GG5a.Sun.L5  
*Elisa Morichon\**, *Daniel Beaufort*, *Thierry Allard*  
RADIATION-INDUCED DEFECTS MEASUREMENTS IN CLAY MINERALS RELATED TO UNCONFORMITY-TYPE DEPOSITS

#### LUNCH 12.50-14.20

#### Sunday 14 June, 2009

Chairs: Daniel Beaufort & Anne Marie Karpoff

- 14.30 – 15.00 GG5b.Sun.L1  
*Olivier Vidal\**, *Benoit Dubacq*, *Romain Bousquet*  
THERMODYNAMICS OF CLAY DEHYDRATION AND STABILITY WITH T, P AND aH<sub>2</sub>O: CONSEQUENCES ON THE SISMOGENIC ZONE OF SUBDUCTION ZONES
- 15.00 – 15.20 GG5b.Sun.L2  
*Delphine Charpentier\**, *Martine Buatier*  
MECHANISM OF FORMATION OF FE-MONTMORILLONITE IN DEEP SEDIMENTS (PACIFIC OCEAN, COSTA RICA MARGIN)
- 15.20 – 15.40 GG5b.Sun.L3  
*Luca Aldega\**, *Javier Cuadros*, *Angela Laurora*, *Antonio Rossi*  
LOW TEMPERATURE ALTERATION OF TRIOCTAHEDRAL MICAS TO BEIDELLITE IN A KARSTIC ENVIRONMENT
- 15.40 – 16.20 POSTER SESSION PRESENTATION (A.M. Karpoff)

#### COFFEE BREAK 16.20-16.40

#### Sunday 14 June, 2009

Chair: Fernando Rocha & Daisy Barbosa Alves

- 16.40 – 17.10 GG5c.Sun.L1  
*Zehra Karakaş\**, *Baki Varol*, *Erdoğan Tekin*, *Turhan Ayyıldız*  
MINERALOGICAL AND CHEMICAL PROPERTIES OF SAPONITE-SEPIOLITE OCCURRENCES IN THE MIOCENE TO PLIOCENE BOUNDARY (ISKENDERUN BASIN), SOUTH OF TURKEY
- 17.10 – 17.30 GG5c.Sun.L2  
*Manuel Pozo\**, *José Pedro Calvo*, *José Antonio Medina*, *María Isabel Carretero*, *Angel Moreno*  
MINERALOGY AND GEOCHEMISTRY OF SAPONITE-SEPIOLITE TRANSITIONAL FACIES IN THE NEOGENE BATAILLONES BUTTE CLAY DEPOSIT (MADRID BASIN, SPAIN)
- 17.30 – 17.50 GG5c.Sun.L3

*Jaime Rueda-Gaxiola\**

GLAUCONITE AND FOSSIL PALYNOMORPHS PERMITTED TO RECONSTRUCT THE TRIASSIC PALEOGEOGRAPHY JUST BEFORE THE GULF OF MEXICO ORIGIN

17.50 – 18.10

GG5c.Sun.L4

*Francisco Tomazoni Neto, Marcus Vincius Dorneles Remus, Norberto Dani\*, Milton Luiz Laquintinie Formoso*  
MINERALOGY AND GEOCHEMISTRY OF NICKEL-ENRICHED SAPROLITE FROM JACARÉ DEPOSIT (PARÁ - BRAZIL)

18.10 – 18.30

GG5c.Sun.L5

*Tatyana S. Zaitseva\*, Igor M. Gorokhov, Nicolay N. Mel'nikov*  
MÖSSBAUER CHARACTERISTICS OF MIDDLE RIPHEAN GLOBULAR PHYLLOSILICATES (EASTERN SIBERIA) AND GEOLOGICAL SIGNIFICANCE OF THEIR ISOTOPE DATES

#### Monday 15 June, 2009

**Chairs:** Blanca Bauluz & Jan Srodon

08.50 – 09.20

GG5d.Mon.L1

*Andrea Schicker, Susanne Gier\**  
DIAGENESIS OF MALMIAN MARLSTONES, VIENNA BASIN

09.20 – 09.40

GG5d.Mon.L2

*Peeter Somelar\*, Kalle Kirsimäe*  
ILLITIZATION OF THE EARLY PALAEOZOIC BENTONITES IN THE BALTIC PALEOBASIN

09.40 – 10.00

GG5d.Mon.L3

*Ömer Bozkaya\*, Hüseyin Yalçın*  
GEOCHEMISTRY OF MIXED LAYER ILLITE-SMECTITE MINERALS FROM A TRIASSIC RIFT-RELATED EXTENSIONAL BASIN (ANTALYA UNIT, KEMER-KUMLUCA, SW TURKEY)

10.00 – 10.20

GG5d.Mon.L4

*Bala Ekinci\*, Ö. Işık Ece, Fahri esenli, Ş. Özdamar*  
MINERALOGICAL, PETROGRAPHICAL AND GEOCHEMICAL EVOLUTION OF THE HYDROTHERMAL KAOLIN-ALUNITE DEPOSITS: DUVERTEPE DISTRICT, BALIKESIR, TURKEY

10.20 – 10.40

GG5d.Mon.L5

Patrick J. Dowey\*, Gemma M. Byrne, David M. Hodgson, Richard H. Worden  
CHLORITE IN THE SUBSURFACE: A SYNTHESIS

#### COFFEE BREAK 10.40-11.00

#### Monday 15 June, 2009

**Chair:** Silvina Marfil & Fernando Nieto

11.00 – 11.30

GG5e.Mon.L1

*Fernando Rocha\*, Vitor Guimarães, Eduardo Ferreira Da Silva, Fatima Araujo, Teresa Drago*  
CLAY GEOCHEMISTRY AND MINERALOGY USED FOR PALEOENVIRONMENTAL RECONSTRUCTION OF THE MINHO ESTUARY RECENT SEDIMENTS

11.30 – 11.50

GG5e.Mon.L2

*Rosa Marques\*, M. Isabel Prudêncio, Fernando Rocha, R.A. Hernandez, M.M.S. Cabral Pinto, M.M.V.G. Silva, E. Ferreira Da Silva*  
A CONTRIBUTION FOR THE GEOCHEMICAL ATLAS OF SANTIAGO ISLAND, CAPE VERDE – TOTAL CONTENTS OF REE AND OTHER TRACE ELEMENTS IN THE TOPSOIL LAYER

11.50 – 12.10

GG5e.Mon.L3

*Bratislav Z. Todorović, Justina Ciesielczuk, Nataša R. Đorđević\*, Pavle I. Premović, Thierry Allar*  
GEOCHEMISTRY OF THE EPITHERMAL DICKITE (JEDLINA ZDROJ, LOWER SILESIA, POLAND): ISOLATED Fe<sup>3+</sup> IONS

12.10 – 12.30

GG5e.Mon.L4

*Angélica Fortes Drummond Chicarino Varajão\*, Jacques Yvon, Maria Do Carmo Santos*  
THE USE OF CRYSTALLOGRAPHICAL PARAMETERS OF KAOLINITE TO DEFINE THE GENESIS OF THE KAOLIN FROM THE QUADRILÁTERO FERRÍFERO, BRAZIL

12.30 – 12.50

GG5e.Mon.L5

*Fernanda Cravero\*, Silvina Marfil, Pedro Maiza*  
STATISTICAL ANALYSIS OF GEOCHEMICAL DATA. A TOOL TO DISCRIMINATE THE ORIGIN OF KAOLIN DEPOSITS IN PATAGONIA, ARGENTINA

**Tuesday 16 June, 2009**

**Chair:** Wen-An Chiou & Asuman Turkmenoglu

- 08.50 – 09.20 GG5f.Tue.L1  
*Wen-An Chiou\**, *Richard H. Bennett*, *Matthew H. Hulber*  
CLAY FABRIC—THE ASSEMBLY OF CLAY PARTICLES
- 09.20 – 09.40 GG5f.Tue.L2  
*Asmae Khaldoun*, *Peder Moller*, *Gerard Wegdam*, *Bert De Leeuw*, *Yves Méheust*, *Jon Otto Fossum*, *Daniel Bonn\**  
QUICKCLAY AND LANDSLIDES OF CLAYEY SOILS
- 09.40 – 10.00 GG5f.Tue.L3  
*Hiroyuki Maeda\**, *Hiroshi Naya*, *Masanori Kohno*, *Shigenori Hasebe*  
LANDSLIDE CLAYS OF THE SENPOJI SLIDE AND OTHERS AROUND AKKESHI BAY, EASTERN HOKKAIDO, JAPAN
- 10.00 – 10.20 GG5f.Tue.L4  
*Selahattin Kadir\**, *Aydogan Akbulut*  
GEOLOGY, MINERALOGY, GEOCHEMISTRY AND GENESIS OF THE TAŞOLUK KAOLINITE DEPOSITS IN PRE-EARLY CAMBRIAN METAMORPHITES AND NEOGENE VOLCANITES OF AFYONKARAHISAR, TURKEY
- 10.20 – 10.40 GG5f.Tue.L5  
*Pedro Maiza*, *Silvina Marfil\**, *Nicolas Montecchiari*  
ALTERATION ZONATION "LOMA BLANCA" KAOLIN DEPOSIT, LOS MENUÇOS, RIO NEGRO PROVINCE, ARGENTINA

**COFFEE BREAK 10.40-11.00**

**Tuesday 16 June, 2009**

**Chair:** Anne Marie Karpoff

- 11.00 – 11.30 GG5g.Tue.L1  
*Hassan Baioumy\**, *H. Albert Gilg*, *Ernst Hegner*, *Stefan Hölzl*, *Heinrich Taubald*  
MINERALOGICAL, GEOCHEMICAL AND SR-PB-ND ISOTOPE STUDIES OF SEDIMENTARY KAOLIN DEPOSITS IN EGYPT: IMPLICATIONS FOR THEIR SOURCES AND ORIGINS
- 11.30 – 11.50 GG5g.Tue.L2  
*Cumhur Kocabaş\**, *Dimitris Papoulis*, *Mümtaz Çolak*, *Eleni Koutsopoulou*  
FORMATION OF ALTERATION ZONES AND DICKITE GENESIS IN SINDIRGI-BALIKESIR, WESTERN TURKEY

**Poster ProgrammeGG5 (I)**

**Posting Time:** Saturday 13 June; **Removal:** Monday 15 June, 12.50-14.30;

**Attendance Time:** Sunday, 14 June, 18:30–20:00

**Chairs:** Blanca Bauluz & Jeanne B. Percival

- GG5.Sun.P1 *Juan Cruz Martínez\*, Jorge Anastasio Dristas, Hans-Joachim Massonne, Thomas Theye*  
A HYDROTHERMAL CLAY ASSEMBLAGE AT THE LATE-PROTEROZOIC UNCONFORMITY (BUENOS AIRES COMPLEX-LA TINTA FORMATION) OF THE BARKER AREA, TANDILIA RANGES, ARGENTINA
- GG5.Sun.P2 *Giuseppina Balassone\*, Maria Boni, Nicola Mondill*  
ZN-SMECTITE (SAUCONITE-LIKE) IN THE NONSULFIDE ZINC DEPOSIT OF ACCHA (SOUTHERN PERU)
- GG5.Sun.P3 *Agnes Impiccini\*, Marta Franchini, Sol O'leary, J. Valles*  
CLAY MINERALS AND ASSOCIATED PHASES ZONING ALONG THE EAST-WEST MAIN SECTION IN THE AGUA RICA CU-MO-AU DEPOSIT, CATAMARCA, ARGENTINA
- GG5.Sun.P4 *Cecile Rigault\*, Patricia Patrier, Daniel Beaufort*  
QUANTIFICATION OF FE<sup>3+</sup> IN CHLORITE: IMPLICATIONS FOR GEOTHERMOMETRY AND REDOX CONDITIONS
- GG5.Sun.P5 *Tetsuro Yoneda\*, Hiroshi Mokko, Tsutomu Sato*  
COMPOSITIONAL VARIATION OF CHLORITE FROM HYDROTHERMAL VEIN-TYPE ORE DEPOSITS IN JAPAN
- GG5.Sun.P6 *Catherine Evrard, Anne Marie Karpoff\*, Peter Stille, Gretchen I. Früh-Green, Raymond Montigny*  
MASSIVE CHLORITE FACIES AND CHERTS FROM LABUAN BASIN (S INDIAN OCEAN): RECORD OF A MAJOR HYDROTHERMAL EVENT DURING THE EVOLUTION OF KERGUELEN PLATEAU
- GG5.Sun.P7 *Ji Youliang\*, Zhou Yong*  
CHARACTERISTICS AND DIAGENETIC SIGNIFICANCE OF AUTHIGENIC CLAY MINERAL IN THE SANDSTONE OF LAIYANG FORMATION, LOWER CRETACEOUS, JIAOLAI BASIN
- GG5.Sun.P8 *María Dolores Ruiz Cruz, María Dolores Rodríguez Ruiz\*, Carlos Sanz De Galdea*  
CHLORITE, MARKER OF DETRITAL SUPPLIES IN PALEOZOIC GREYWACKES FROM THE BETIC-RIF INTERNAL ZONES
- GG5.Sun.P9 *María Dolores Rodríguez Ruiz\*, María Dolores Ruiz Cruz, Carlos Sanz De Galdeano, Khalil El Kadiri, Rachid Hlila*  
B-CELL PARAMETER BASED EVIDENCE OF TWO WHITE MICA GENERATIONS IN TRIASSIC ROCKS FROM THE RIF AREA
- GG5.Sun.P10 *Eva Manchado, Icaro Frois, Emilia Garcia-Romero, Mercedes Suarez*  
INFLUENCE OF THE TECTONICS IN THE GENESIS OF THE DEPOSIT OF SPECIAL CLAY FROM TAMAME DE SAYAGO (ZAMORA, SPAIN)
- GG5.Sun.P11 *Simona Mazziotti-Tagliani\*, Antonio Gianfagna, Sirio Ciccacci, Mariachiara Galiano*  
MINERALOGY OF CALANCHI AND BIANCANE LANDFORMS IN SOME ITALIAN LOCALITIES
- GG5.Sun.P12 *Yuanfeng Cai\*, Xiang Li, Xiumian Hu, Xiaoming Chen, Yuguan Pan*  
PALEO-CLIMATE HINT FROM MINERALOGICAL RECORD IN CRETACEOUS PELAGIC LIMESTONE FROM VISPI SECTION, CENTER ITALY
- GG5.Sun.P13 *Galina Lysiuk\*, Andrei Lysiuk*  
THE MINERALOGY OF THE FERROMANGANESE NODULES OF THE SHELF ZONE OF BALTIC SEA
- GG5.Sun.P14 *Alain Decarreau\*, Helena Palkova, sabine Petit, Nathalie Vigier*  
PARTITIONING OF LI BETWEEN SMECTITE AND SOLUTION: AN EXPERIMENTAL APPROACH
- GG5.Sun.P15 *Yulia Simakova\**  
THE WEATHERING CRUST ON THE PRE-URALIDE COMPLEX (BEDAMEL FORMATION), POLAR URALS
- GG5.Sun.P16 *Camila W.D. Dos Anjos\*, Alain Meunier, Edi M. Guimarães, Abderrazak El Albani*  
MG- AND FE-RICH CLAY MINERALS OF THE BLACK SHALES AND GREEN CLAYSTONES OF THE PERMIAN IRATI FORMATION IN THE NORTHERN PART OF THE PARANÁ BASIN, BRAZIL
- GG5.Sun.P17 *Zehra Karakaş\*, Turhan Ayyıldız, Mehmet Önal*  
LATE CRETACEOUS TO PALEOCENE AGED PALLYGORSKITE OCCURRENCES IN THE SOUTHEASTERN PART OF THE MALATYA BASIN, EAST ANATOLIA, TURKEY

- GG5.Sun.P18 *Gomes Márcia Elisa Boscato\**, *Mexias André Sampaio*, *Formoso Milton Luis Laquintinie*, *Everton Bongioiolo*  
CLAY MINERALS OF FLOOD BASALTIC ROCKS
- GG5.Sun.P19 *Huseyin Yalçin\**, *Ömer Bozkaya*, *Deniz Hozatlioğlu*  
CRETACEOUS SERPENTINITE-HOSTED PHLOGOPITE OCCURRENCES IN MALATYA-KULUNCAK AREA, TURKEY
- GG5.Sun.P20 *Zoran Nikic\**, *Danica Sreckovic Batocanin*  
HIGHLY CRYSTALLINE SMECTITE CLAYS AT THE ZLATIBOR MOUNTAIN, WESTERN SERBIA
- GG5.Sun.P21 *Ali Gürel*, *Selahattin Kadir\**  
PALAEOENVIRONMENT RELATED TO GEOLOGY AND MINERALOGY OF EARLY MIOCENE ALLUVIAL FAN TO CYCLIC SHALLOW LACUSTRINE DEPOSITIONAL SYSTEM IN THE AKTOPRAK BASIN (CENTRAL ANATOLIA, TURKEY)
- GG5.Sun.P22 *Blanca Bauluz\**, *Alfonso Yuste*, *María José Mayayo*, *José Manuel González López*  
AL- SI- RICH AMORPHOUS PHASE AS PRECURSOR OF DIAGENETIC KAOLINITE IN SANDSTONES
- GG5.Sun.P23 *Blanca Bauluz\**, *Jose Manuel González Lopez*, *Alfonso Yuste*, *Maria Jose Mayayo*  
DIAGENESIS OF TURBIDITES FROM THE HECHO GROUP (EOCENE) IN THE BASIN OF JACA (NE SPAIN)
- GG5.Sun.P24 *Sylwia Kowalska\**, *Jan Śródoń*  
EVOLUTION OF THE ILLITE PARTICLE THICKNESS DISTRIBUTION IN SHALES FROM THE LATE DIAGENESIS TO ANCHIMETAMORPHISM: EXAMPLE FROM THE CAMBRIAN AND EDIACARIAN ROCKS OF THE MAŁOPOLSKA MASSIF
- GG5.Sun.P25 *Gilda Collo*, *Federico M. Dávila*, *Fernando Nieto\**, *Julieta Nóbile*, *Ricardo A. Astini*  
INTERSTRATIFIED ILLITE/SMECTITE IN THE MIOCENE CENTRAL ANDEAN FORELAND: EVOLUTION OF CLAY MINERALS UNDER VERY LOW-PALEOGEOTHERMAL GRADIENTS
- GG5.Sun.P26 *Francesco Perri\**, *Francesco Muto*, *Claudia Belviso*  
THE MESOZOIC SILICICLASTIC DEPOSITS FROM WESTERN CALABRIA (SOUTHERN ITALY): MINERALOGICAL AND GEOLOGICAL IMPLICATIONS

### **Poster ProgrammeGG5 (II)**

**Posting Time:** Monday 15 June, 20.30-22.30; **Removal:** Wednesday 17 June, 12.50-14.30;

**Attendance Time:** Tuesday, 16 June, 18:30–20:00

**Chairs:** Milton Formoso & Fernando Rocha

- GG5.Tue.P1 *Juan Diego Martín-Martín\**, *Ramon Salas*, *David Gómez-Gras*, *Horst Zwingmann*  
K/AR ISOTOPIC DATING OF VERY LOW-GRADE METAMORPHIC AND LATE DIAGENETIC CONDITIONS DURING THE MESOZOIC RIFTING EVOLUTION OF THE IBERIAN CHAIN, SPAIN
- GG5.Tue.P2 *Francesco Perri\**, *Salvatore Critelli*, *Francesco Cavalcante*, *Giovanni Mongelli*, *Rocco Dominici*, *Maurizio Sonnin*  
MINERALOGY AND CHEMISTRY OF CENOZOIC VOLCANICLASTIC SEDIMENTS FROM THE TUFITI DI TUSA FORMATION (SICILIDE COMPLEX, SOUTHERN ITALY)
- GG5.Tue.P3 *Vadim Pereladov*, *Ludmila Boldushevskaya\**, *Yuriy Philiptsov*  
THE BLACK SHALES OF THE KUONAMSKAYA FORMATION IN THE EAST OF THE SIBERIAN PLATFORM. CONDITIONS OF GENESIS. OIL AND GAS GENERATION POTENTIAL
- GG5.Tue.P4 *Rosa Marques\**, *M. Isabel Prudêncio*, *M. Isabel Dias*, *Fernando Rocha*  
MINERALOGY, REE AND OTHER TRACE ELEMENTS DISTRIBUTION IN DIFFERENT SIZE FRACTIONS OF CLAYS FROM WESTERN-CENTRAL PORTUGAL
- GG5.Tue.P5 *Paulo Miranda*, *Fernando Rocha\**, *Manuel Matias*, *Rui Moura*, *Helena Granja*, *Virginia Martins*  
PALEOENVIRONMENTAL RECONSTRUCTION OF THE APULIA (NW PORTUGAL) LAGOON SEDIMENTS BASED ON CLAY MINERALOGICAL ANALYSIS
- GG5.Tue.P6 *Noureddine Zaaboub\**, *Saadi Abdeljaoued*, *F. Javier Huertas*, *Alberto López-Galindo*  
MINERAL DISTRIBUTION IN THE GULF OF TUNIS SUPERFICIAL SEDIMENTS
- GG5.Tue.P7 *Anita Grizelj\**, *Darko Tibljaš*, *Marijan Kovačić*  
MINERALOGY AND GEOCHEMISTRY OF MIOCENE PELITIC SEDIMENTS FROM THE SOUTH-WESTERN PART OF THE PANNONIAN BASIN, CROATIA
- GG5.Tue.P8 *Shuli Ding\**, *Bohui Xu*, *Qinfu Liu*  
GEOCHEMICAL PROPERTIES OF ILLITE CLAY ROCKS IN HANXING MINING AREA, CHINA

- GG5.Tue.P9 *Qinfu Liu\*, Lihua Zheng, Shuli Ding, Shuai Wang*  
GEOLOGICAL NITROGEN IN COAL MINE WASTE AND ITS ENVIRONMENTAL EFFECTS
- GG5.Tue.P10 *Cristina Gómez, Fernanda Cravero\*, Liliana Luna, Mirta Garrido*  
BENTONITE FROM MALIMAN, ANDEAN PRECORDILLERA ARGENTINA
- GG5.Tue.P11 *Ana María Fernández\*, David Arcos, Marta Pelayo, Meaza Tsige, María Victoria Villar*  
THE BENTONITE DEPOSIT OF CORTIJO DE ARCHIDONA (SPAIN): PORE WATER CHEMISTRY AND GEOCHEMICAL-MINERALOGICAL VARIATIONS
- GG5.Tue.P12 *Bektaş Uz, Senel Ozdamar\*, Halis Manav, Bala Ekinci, Gürkan Bacak*  
THE MINERALOGICAL AND PETROGRAPHICAL PROPERTIES OF ZEOLITE OCCURRENCE WITHIN TUFFS IN SELBUKU AREA (BILECIK-NW TURKEY)
- GG5.Tue.P13 *S.N. Rychagov\*, V.I. Belousov, E.K. Padilla, O.R. Khubaeva, D.V. Melnikov*  
THE CLAY OF THE MUTNOVSKY HYDROTHERMAL DEPOSIT, KAMCHATKA
- GG5.Tue.P14 *S.N. Rychagov\*, V.I. Belousov, E.K. Padilla, O.R. Khubaeva, D.V. Melnikov*  
ROLE OF HYDROTHERMAL CLAYS IN THE FORMATION OF GEOLOGICAL STRUCTURE OF MODERN HYDROTHERMAL SYSTEMS ON VOLCANIC STRUCTURES
- GG5.Tue.P15 *F. Assassi\*, C. Renac, I. Djabri*  
RECONSTRUCTION OF FLUIDS TEMPERATURES OF KARSTIC MINERALISATION OF KAOLIN AT DJEBEL DEBBAGH (GUELMA, NORTHEASTERN ALGERIA)
- GG5.Tue.P16 *Marcondes Lima Da Costa, Milton Luiz Laquintinie Formoso\*, Rômulo Simões Angélica, Norberto Dani, Carlos Peter*  
KAOLINITE AS MAIN CLAY MINERAL OF THE AMAZON KAOLINS RELATED TO PALEOCENE LATERITIZATION
- GG5.Tue.P17 *Hussin Azimah\*, Tohar Siti Zaniza, Mustaffa Shukri Nadia Suzana*  
GEOLOGY AND MINERALOGY OF BIDOR CLAYS: AN EXAMPLE FROM THE PRIMARY MALAYSIA COMMERCIAL CLAY DEPOSITS
- GG5.Tue.P18 *Amin Eslami\*, Bijan Etemadi*  
MINERALOGY, GEOCHEMISTRY AND GENESIS OF THE FARYADUN CLAY DEPOSIT, SOUTH ABARKUH, IRAN
- GG5.Tue.P19 *Bijan Etemadi, Amin Eslami\*, Hamid Pirnajmodin Kelicheh*  
MINERALOGY, GEOCHEMISTRY & PROBABLE GENESIS OF SEMIRIM FIRE CLAY DEPOSIT, SEMIROM, IRAN
- GG5.Tue.P20 *Orhan Yavuz\*, Kagan Kayaci, Senel Ozdamar, Gursel Yanik, Alpagut Kara*  
GEOLOGICAL AND MINERALOGICAL PROPERTIES OF UNDERCLAYS IN AGACLI-KEMERBURGAZ REGION, ISTANBUL, TURKEY
- GG5.Sun.P21 *Gulzhan A. Kudaikulova\**  
CLAY MINERALS AS A DRILLING MUD MATERIAL
- GG5.Tue.P22 *José Francisco Marciano Motta\*, Marsis Cabral Junio, Luiz Carlos Tanno, Carolina Del Roveri, José Mário Coelho, Antenor Zanardo*  
GEOLOGICAL EVALUATION FOR BRAZILIAN PLASTIC CLAYS
- GG5.Tue.P23 *Gordana J. Dević\*, Zoran Popović*  
THE ALIPHATIC HYDROCARBON BIOMARKERS AND THEIR SIGNAL FROM TWO HYDRO-GEOCHEMICALLY DIFFERING SEDIMENTARY ENVIRONMENTS OF THE TERTIARY KREPOLJIN COAL BASIN (SERBIA)