

## 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 Środoń*  
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)