

Oral Programme MC1

Clay Minerals in Extraterrestrial Environments

Convener: David L. Bish, Ralph Milliken

Monday 15 June, 2009

Chairs: Ralph Milliken

- 08.50 – 09.20 MC1a.Mon.KL1
*Nicholas J. Tosca**
EXTRACTING AQUEOUS CHEMISTRY FROM CLAY-BEARING ASSEMBLAGES FORMED ON ANCIENT MARS
- 09.20 – 09.40 MC1a.Mon.L2
Rosalba Bonaccorsi, Carol R. Stoker, The Marte Science Team*
ORGANICS-BEARING PHYLLOSILICATES UNDER HYPERACIDIC AND OXIDIZING CONDITIONS: PRESERVATION POTENTIAL AND APPLICATION TO MARS
- 09.40 – 10.00 MC1a.Mon.L3
Jochen Jänchen, Diedrich Möhlmann*
ADSORPTION STUDIES ON THE CHONDRITE ORGUEIL METEORITE
- 10.00 – 10.20 MC1a.Mon.L4
David Blake, David Bish, Steve Chipera, David Vaniman, Philippe Sarrazin*
CHEMIN: IN SITU X-RAY DIFFRACTION ANALYSES OF MARTIAN PHYLLOSILICATES ON MSL '11
- 10.20 – 10.40 MC1a.Mon.L5
Francois Poulet, John Carter, Jean-Pierre Bibring, Nicolas Mangold, John F. Mustard, Scott Murchie, Yves Langevin*
DIVERSITY OF MINERALOGY AND OCCURENCES OF CLAY MINERALS ON MARS

COFFEE BREAK 10.40-11.00

Monday 15 June, 2009

Chairs: David L. Bish

- 11.00 – 11.30 MC1b.Mon.L1
Scott Murchie, Frank Seelos, Debra Buczkowski, John Mustard, Bethany Ehlmann, Ralph Milliken, Eldar Z. Noe Dobrea, Janice Bishop, Nancy Mckeown, Sandra Wiseman, Raymond Arvidson, James Wray, Gregg Swayze, Roger Clark*
DIVERSITY OF MARTIAN PHYLLOSILICATE DEPOSITS FROM ORBITAL REMOTE SENSING
- 11.30 – 11.50 MC1b.Mon.L2
Ralph E. Milliken, David I. Bish*
SOURCES, SINKS, AND STABILITY OF CLAY MINERALS ON MARS
- 11.50 – 12.10 MC1b.Mon.L3
John Mustard, Bethany Ehlmann, Scott Murchie, Abigail Fraeman, Ralph Milliken, Eldar Noe Dobrea, Janice Bishop, Raymond Arvidson, Gregg Swayze, Roger Clark*
CHARACTER OF MARTIAN PHYLLOSILICATE-BEARING EARLY CRUST FROM ORBITAL REMOTE SENSING
- 12.10 – 12.30 MC1b.Mon.L4
Janice I. Bishop, Nancy K. Mckeown, John F. Mustard, Debra I. Buczkowski, Roger N. Clark, Bethany I. Ehlmann, Giuseppe Marzo, Ralph E. Milliken, Scott I. Murchie, Eldar Noe Dobrea, Mario Parente, Ted I. Roush, Gregg A. Swayze, James J. Wray, The Crism Team*
DISTRIBUTION AND VARIABILITY OF PHYLLOSILICATES ON MARS OBSERVED BY MRO/CRISM
- 12.30 – 12.50 MC1b.Mon.L5
*Joseph Michalski**
COMBINING VISIBLE/NEAR INFRARED AND THERMAL INFRARED REMOTE SENSING DATA TO ANALYZE MARTIAN CLAY MINERALS

Tuesday 16 June, 2009

Chairs: David L. Bish & Ralph Milliken

- 08.50 – 09.20 MC1c.Tue.L1
Damien loizeau, Nicolas Mangold, François Poulet, Jean-Pierre Bibring, Veronique Ansan, Ernst Hauber, Yves Langevin, Brigitte Gondet, G. neukum*
STRATIGRAPHY OF THE CLAY-UNIT OF THE MAWRTH VALLIS REGION, MARS

- 09.20 – 09.40 MC1c.Tue.L2
*Eldar Noe Dobrea**, *Joel Hurowitz*, *Doug Ming*, *Janice I. Bishop*, *Nancy Mckeown*
PEDOGENESIS ON THE RED PLANET? EVIDENCE FOR POSSIBLE ALTERATION HORIZONS ON MARS
- 09.40 – 10.00 MC1c.Tue.L3
*Bethany I. Ehlmann**, *John F. Mustard*, *Roger N. Clark*, *Gregg A. Swayze*, *Scott I. Murchie*
EVIDENCE FOR LOW-GRADE METAMORPHISM/DIAGENESIS ON MARS FROM PHYLLOSILICATE MINERAL ASSEMBLAGES
- 10.00 – 10.20 MC1c.Tue.L4
*C. Popa**, *G. Diachille*, *f. Esposito*, *I. Colangeli*
DELTAS AND PHYLLOSILICATES ON MARS: MRO-CRISM OBSERVATIONS
- 10.20 – 10.40 MC1c.Tue.L5
*Gilles Berger**, *Alain Meunier*
~~THE OUT-CASSING OF A BASALT FLOW AS A SOURCE OF MARTIAN PHYLLOSILICATES~~

Poster Programme MC1

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

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

Chairs: David L. Bish & Ralph Milliken

MC1.Sun.P1 *Nancy Mckeown*, Janice I. Bishop, Eldar Noe Dobrea, Eli Silver*
CHARACTERISTICS OF CLAY UNITS IN THE MAWRTH VALLIS REGION, MARS

MC1.Sun.P2 *Susan Hopper*, Loc Van Duong, Ray Frost, Wayde Martens*
HALLOYSITE HAS BEEN FOUND IN THE WOLFE CREEK METEORITE SHALE BALLS

MC1.Sun.P3 *Susan Hopper*, Loc Van Duong, Ray Frost, Wayde Martens*
WOLFE CREEK METEORITE CRATER SHALE BALLS: REEVESITE

Oral Programme MC2

Clay synthesis

Convener: Peter Ryan, J Chun-Hui Zhou

Monday 15 June, 2009

Chairs: Peter Ryan & J. Chun-Hui Zhou

- 11.00 – 11.30 MC2.Mon.KL1
*Bradley Scott, David Glassford, Gilles Villemure**
PREPARATION OF 2:1 COBALT CLAYS COMPOSED ON REGULAR HEXAGONAL PARTICLES AND OF 1:1 NICKEL CLAYS COMPOSED ON NANOTUBULAR PARTICLES
- 11.30 – 11.50 MC2.Mon.L2
Luca Zampori, Paola Gallo Stampino, Cinzia Cristiani, Giovanni Dotelli*
SYNTHESIS OF ORGANOCCLAYS USING NON-IONIC SURFACTANTS: EFFECT OF TIME, TEMPERATURE AND CONCENTRATION
- 11.50 – 12.10 MC2.Mon.L3
Lydie Le Forestier, Fabrice Muller, Frederic Villieras*
TEXTURAL AND HYDRATION PROPERTIES OF A SYNTHETIC MONTMORILLONITE COMPARED WITH THE NATURAL NA-SWY2 CLAY ANALOGUE
- 12.10 – 12.30 MC2.Mon.L4
Hirohisa Yamada, Kenji Tamura, Shingo Yokoyama*
SYNTHESES OF TRIOCTAHEDRAL PHYLLOSILICATES IN SODIUM SAPONITE –PHLOGOPITE SYSTEM
- 12.30 – 12.50 MC2.Mon.L5
*N. Q. Fan, H. S. Xia, G. F. Jiang, D. S. Tong, C. X. Lin, C. H. Zhou**
INVESTIGATION ON CONTROLLABILITY OF METAL COORDINATION AND CRYSTALLINITY IN SYNTHETIC CATIONIC HECTORITE-LIKE SOLIDS

Poster Programme MC2

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: Peter Ryan & J. Chun-Hui Zhou

- MC2.Tue.P1 *Askhab Askhabov**, *Dmitry Kamashev*
NATURE OF PRIMARY PARTICLES AND MECHANISM OF SELF-ASSEMBLY OF THE STRUCTURAL UNITS OF OPAL-LIKE NANOMATERIALS
- MC2.Tue.P2 *Bui Hoang Bac*, *Yungoo Song**, *Myung Hun Kim*, *Gyoo Ho Lee*
SYNTHESIS OF FE-SUBSTITUTED ALUMINOSILICATE AND ALUMINOGERMANATE NANOTUBES
- MC2.Tue.P3 *María Bentabol**, *María Dolores Ruiz Cruz*
SOLID SOLUTIONS IN MICAS HYDROTHERMALLY SYNTHESIZED (400°C, 260 BAR)
- MC2.Tue.P4 *María Bentabol**, *María Dolores Ruiz Cruz*
THE SYNTHETIC (200 °C) KAOLINITE + SERPENTINE ASSEMBLAGE
- MC2.Tue.P5 *Fabio Carniato**, *Chiara Bisio*, *Giorgio Gatti*, *Enrico Boccaleri*, *Sandro Recchia*, *Leonardo Marchese*
HYDROTHERMAL SYNTHESIS OF V-CONTAINING SAPONITE CLAY. A NOVEL HETEROGENEOUS CATALYST FOR PROPENE OXIDATION
- MC2.Tue.P6 *Sukhen Das**, *Biswajoy Bagchi*, *Alakananda Bhattacharya*, *Ruma Basu*, *Papiya Nandy*
NANOCRYSTALLINE LOW TEMPERATURE MULLITE SYNTHESIS BY SOL-GEL TECHNIQUE
- MC2.Tue.P7 *Masashi Ookawa**, *Yoshihiro Hirao*, *Hiroshi Yamashita*, *Takashi Maekawa*, *Keiichi Inukai*
SYNTHESIS OF ALUMINIUM GERMANATE ANALOG OF IMOGOLITE CLAY MINERAL
- MC2.Tue.P8 *Pablo Pardo**, *Joaquín Bastida*, *Marek A. Kojdecki*, *Marek Zbik*, *Rafael Ibáñez*
ON THE BIMODAL CRYSTALLITE SIZE DISTRIBUTIONS OF TWO REFERENCE KAOLINS
- MC2.Tue.P9 *Peter C. Ryan**, *F. Javier Huertas*
INSIGHTS INTO THE TRANSFORMATION OF FERRUGINOUS BEIDELLITE TO K-S AND KAOLIN FROM SYNTHESIS EXPERIMENTS
- MC2.Tue.P10 *Abidin Zaenal**, *Matsue Naoto*, *Henmi Teruo*
A NEW SYNTHESIS ROUTE TO IMOGOLITE
- MC2.Tue.P11 *Di Zhang*, *Dongsheng Tong*, *Housheng Xia*, *Genfeng Jiang*, *Xi Xia*, *Ming Liu*, *Weihua Yu*, *Chunhui Zhou**
HYDROTHERMAL SYNTHESIS OF CLAY MINERALS
- MC2.Tue.P12 *Mahdi Meftah*, *Abdesslem Ben Haj Amara**
CHARACTERIZATION OF NIS NANOPARTICLES IN ZEOLITE TYPE LTA

Oral Programme MC3

Crystal Chemistry and Structure of Clays

Conveners: Stephen Guggenheim, Alain Meunier

Sunday 14 June, 2009

Chair: Stephen Guggenheim

- 11.00 – 11.30 MC3a.Sun.KL1
*Marcello Mellini**
HP AND HT STRUCTURES OF SERPENTINE MINERALS
- 11.30 – 11.50 MC3a.Sun.L2
*Jock Churchman**
HALLOYSITE – ARE WE THERE YET?
- 11.50 – 12.10 MC3a.Sun.L3
Javier Cuadros, Fernando Nieto, Teresa Wing-Dudek*
MACROSCOPIC AND MICROSCOPIC (TEM-AEM, HRTEM) EVIDENCE OF SMECTITE KAOLINIZATION MECHANISM AND K-S STRUCTURE
- 12.10 – 12.30 MC3a.Sun.L4
Emilia García-Romero, Mercedes Suarez*
ON THE CHEMICAL COMPOSITION OF SEPIOLITE
- 12.30 – 12.50 MC3a.Sun.L5
Roberto Giustetto, Roberto Compagnoni*
A NEW OCCURRENCE OF MASSIVE PLYGORSKITE FROM THE SESIA-LANZO ZONE, WESTERN ALPS

LUNCH 12.50-14.20

Sunday 14 June, 2009

Chair: Alain Meunier

- 14.30 – 15.00 MC3b.Sun.L1
Stephen Guggenheim, August F. Koster Van Groos*
DEEP OCEAN-FLOOR AND BORE-HOLE SIMULATIONS: EXAMPLES INVOLVING MONTMORILLONITE AND NONTRONITE
- 15.00 – 15.20 MC3b.Sun.L2
*Olga Kotova**
SURFACE PHYSICS AND CHEMISTRY OF CLAYS
- 15.20 – 15.40 MC3b.Sun.L3
Marcial G. Márquez, Patricia Aparicio, Saverio Fiore, Emilio Galán*
DETERMINATION OF THE KAOLINITE/HALLOYSITE RATIO IN KAOLINS USING XRD AND DTA-TG
- 15.40 – 16.00 MC3b.Sun.L4
Fernando Nieto, Marcello Mellini, Isabel Abad*
CRYSTAL STRUCTURE OF ILLITE
- 16.00 – 16.20 MC3b.Sun.L5
*Sabine Petit**
REVISITING THE RULE OF CATION MASS-VALENCE SUM TO ASSIGNING OH- BANDS IN DIOCTAHEDRAL SMECTITES IN THE LIGHT OF NEW DATA FROM SYNTHETIC GA-SMECTITES

COFFEE BREAK 16.20-16.40

Sunday 14 June, 2009

Chair: Sabine Petit

- 16.40 – 17.10 MC3c.Sun.L1
Joël Raynal, Michel Jullien*
CONTINUUM PHASE IN SMECTITES: EXTENSION TO HYDROUS PHYLLOSILICATES
- 17.10 – 17.30 MC3c.Sun.L2
*Jan Šrodorí**
LAYER CHARGES OF ILLITE-SMECTITE AND IMPLICATIONS FOR WELL-LOGGING

- 17.30 – 17.50 MC3c.Sun.L3
*Elizabeth T. Stathopoulou, Mercedes Suarez, Emilia García-Romero, Manuel Sanchez Del Rio, Gorge H. Kacandes, Vassilis Gionis, Georgios D. Chryssikos**
COMPOSITION DEPENDENCE OF THE UNIT CELL DIMENSIONS OF PLYGORSKITE
- 17.50 – 18.10 MC3c.Sun.L4
Mercedes Suarez, Emilia García-Romero, Georgios D. Chryssikos, Gionis Vassilis, George H. Kacandes, Sánchez Del Rio Manuel*
STRUCTURE AND PROPERTIES OF PLYGORSKITE WITH EXCESS AL
- 18.10 – 18.30 MC3c.Sun.L5
Erzsébet Tóth, Tamás G. Weiszbürg, Dana Pop*
CELADONITE VS. GLAUCONITE: ROOTS OF AND SOLUTIONS FOR THE MISUSE OF THE TERMS

Poster Programme MC3

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

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

Chairs: Stephen Guggenheim & Alain Meunier

- MC3.Sun.P1 *Burhan Davarçioğlu**
SPECTRAL CHARACTERIZATION OF CUKURBAG AREA (CAMARDI-NIGDE) CLAYS, CENTRAL ANATOLIAN REGION-TURKEY
- MC3.Sun.P2 *Charlotte Jeannin*, Olivier Grauby, Alain Baronnet*
HYDRATED HALLOYSITE STUDIED BY TRANSMISSION ELECTRON MICROSCOPY WITH AN ENVIRONMENTAL CELL
- MC3.Sun.P3 *Jeane A. Rosário*, Gabriel B. Moura, Laura A. Silva, Miguel E. Brys, Marivone Gusatti, Humberto G. Riella*
INFLUENCE OF DIVERSE TREATMENTS OVER SWELLING ON BENTONITES
- MC3.Sun.P4 *Hejing Wang*, Jian Zhou, Nan Zheng, Tingjing Xu, Ting Li*
CRYSTAL CHEMISTRY AND STRUCTURE STUDY ON PLYGORSKITE FROM HUAJIAGANG, CHINA
- MC3.Sun.P5 *Sedef Dikmen*, Bahri Ersoy*
ADSORPTION OF IONIC AND NON-IONIC SURFACTANTS ONTO TALC A NATURALLY HYDROPHOBIC MINERAL
- MC3.Sun.P6 *Bahri Ersoy, Sedef Dikmen**
CHARACTERIZATION OF TURKISH TALC AND ITS COAGULATION BEHAVIOUR IN THE PRESENCE OF CHLORIDE-BASED METAL SALTS
- MC3.Sun.P7 *Daoudi Lahcen*, Knidiri Abdelouahab*
PLYGORSKITE IN THE EOCENE ROCKS FROM WESTERN HIGH ATLAS, MOROCCO: STRUCTURE AND PROPERTIES
- MC3.Sun.P8 *Gairat Rakhmatkariev*, Dilnoza Jumaeva, Firuza Usmanovaa*
CALORIMETRIC STUDY OF THE MAJOR THERMODYNAMIC ADSORPTION FUNCTIONS AND THE MOLECULAR MECHANISMS OF THE ADSORPTION OF CO₂ ON K-MICA
- MC3.Sun.P9 *Fatima Zibouche*, Hacène Kerdjoudj*
STRUCTURAL CHARACTERIZATION OF KAOLIN FROM TAMAZERT (ALGERIA) DEPOSIT

Oral Programme MC4

Layered Double Hydroxides

Convener: Claude Forano

Monday 15 June, 2009

Chair: Claude Forano

- 08.50 – 09.20 MC4.Mon.KL1
*Andrey G. Kalinichev**, *P. Padma Kumar*, *R. James Kirkpatrick*
EFFECTS OF HYDROGEN BONDING ON THE PROPERTIES OF LAYERED DOUBLE HYDROXIDES INTERCALATED WITH ORGANIC ACIDS: MOLECULAR DYNAMICS COMPUTER SIMULATIONS
- 09.20 – 09.40 MC4.Mon.L2
*Wn Budhysutanto**, *D. Van agterveld*, *E. Schomaker*, *Ag. Talma*, *HJM. Kramer*
STABILITY AND TRANSFORMATION KINETICS OF 3R1 AND 3R2 POLYTYPES OF MG-AL LAYERED DOUBLE HYDROXIDES
- 09.40 – 10.00 MC4.Mon.L3
*Gabriela Carja**, *Yoshikazu Kameshima*, *Gabriela Ciobanu*, *Akira Nakajima*
NANOSIZED IRON OR TITANIUM OXIDES / LAYERED DOUBLE HYDROXIDES AS NANOSTRUCTURED ESSEMBLES
- 10.00 – 10.20 MC4.Mon.L4
Debajyoti Mondal, *Gilles Villemure**
EFFECT OF METAL BIBYRIDYL CATIONS ON THE ELECTROCHROMIC RESPONSES OF FILMS OF REDOX ACTIVE NICKEL-LAYERED DOUBLE HYDROXIDES
- 10.20 – 10.40 MC4.Mon.L5
G. Busca, *U. Costantino**, *R. Marazza*, *G. Ramis*, *M. Sisani*
MIXED METALS (Zn OR Mg, Ni, Al) LAYERED DOUBLE HYDROXIDES AS PRECURSORS OF ETHANOL STEAM REFORMING CATALYSTS

Poster Programme MC4

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: Claude Forano

- MC4.Tue.P1 *Gabriela Ciobanu**, *Gabriela Carja*, *Victoria Negut*, *Sofronia Dranca*
CELLULOSE ACETATE/HYDROTALCITE – LIKE ANIONIC CLAY NANOCOMPOSITES
- MC4.Tue.P2 *Antonio De Martino**, *Marianna Iorio*, *Antonio Violante*, *Massimo Pigna*, *Renato Capasso*
REMOVAL OF CHROMIUM BY LDH-POLYMERIN COMPLEXES
- MC4.Tue.P3 *Shuijiao Liao*, *Guanglong Liu*, *Duanwei Zhu**, *Liyang Ren*, *Jingzhen Cui*
SYNTHESIS, CHARACTERIZATION AND MN²⁺ ADSORPTION PROPERTIES OF BORON-DOPED ALUMINUM HYDROXIDE
- MC4.Tue.P4 *Zohra Bouberka*, *Zoubir Derriche*, *Hana Mestankova*, *Gilles Mailhot*, *Claude Forano**, *Vanessa Prevot*
ELABORATION AND CHARACTERIZATION OF NOVEL PHOTOCATALYST TiO₂/ LDH NANOCOMPOSITES
- MC4.Tue.P5 *Massimo Pigna**, *Antonio De Martino*, *Marianna Iorio*, *Renato Capasso*, *Antonio Violante*
POTENTIAL REMOVAL OF As(V), Cr(III) AND Cr(VI) FROM WATER USING LAYERED DOUBLE HYDROXIDES
- MC4.Tue.P6 *Felipe F. Silva*, *Gustavo F. Perotti*, *Ricardo A. A. De Couto*, *Fabrice Leroux*, *Ana M. C. Ferreira*, *Vera R. L. Constantino**
FUNCTIONAL HYBRID MATERIALS CONTAINING NATURAL DYE FROM ANNATTO INTERCALATED INTO LAYERED DOUBLE HYDROXIDES
- MC4.Tue.P7 *Thomas Kuehn**, *Herbert Poellmann*
SYNTHESIS OF AMINO ACID CONTAINING LAYERED DOUBLE HYDROXIDES
- MC4.Tue.P8 *Hella Mansouri*, *Claude Forano**, *Vanessa Prévot*, *Nicole Jaffrezic-Renault*, *Abdesslem Ben Haj Amara*
ELABORATION OF TRYPSIN-LDH BIOSENSOR FOR POLYPEPTIDE DETECTION
- MC4.Tue.P9 *Aiko Yasutake*, *Sumio Aisawa*, *Hidetoshi Hirahara*, *Satoshi Takahashi*, *Eiichi Narita**
PEPTIDE-EMBELLISHED 5-FU/LDH NANOHYBRID PARTICLES FOR DRUG DELIVERY SYSTEM
- MC4.Tue.P10 *Toshiyuki Hibino**, *Hitoshi Ohya*
BY-PRODUCT FORMATION DURING LAYERED DOUBLE HYDROXIDE PREPARATION BY USING UREA HYDROLYSIS
- MC4.Tue.P11 *František Kovanda**, *Petra Mašátová*, *Květa Jiráťová*
PREPARATION OF LAYERED DOUBLE HYDROXIDES ON METAL SUPPORTS
- MC4.Tue.P12 *Birte Hansen**, *Hilde Curtius*, *Reinhard Odoj*
PREPARATION AND CHARACTERIZATION OF A Fe(II)-CONTAINING Mg-Al-CI LAYERED DOUBLE HYDROXIDE
- MC4.Tue.P13 *Gustavo F. Perotti**, *Hernane S. Barud*, *Younes Messaddeq*, *Sydney J. S. Ribeiro*, *Vera R. L. Constantino*
SYNTHESIS OF LAYERED DOUBLE HYDROXIDE IN HETEROGENEOUS MEDIUM
- MC4.Tue.P14 *Hannah E. Cross*, *D. Robert Brown**
DEPENDENCE OF BASIC AND CATALYTIC PROPERTIES OF LAYERED DOUBLE HYDROXIDES ON SYNTHETIC ROUTES

Oral Programme MC5

Serpentines as Hot Clays

Conveners: Alain Baronnet, Marcello Mellini

Wednesday 17 June, 2009

Chairs: Alain Baronnet & Marcello Mellini

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|---------------|---|
| 11.00 – 11.30 | MC5.Wed.KL1
<i>Bernard W. Evans*</i>
THE PHASE PETROLOGY OF SERPENTINITES |
| 11.30 – 11.50 | MC5.Wed.L2
<i>Muriel Andreani*, Manuel Munoz, Adelle Delacour, Clement Marcaillou, Marguerite Godard</i>
SERPENTINIZATION AT OCEANIC HYDROTHERMAL SITES WITH EMPHASIS ON IRON INCORPORATION IN SERPENTINE |
| 11.50 – 12.10 | MC5.Wed.L3
<i>Gordon Cressey*, Barbara Cressey, Fred Wicks</i>
POLYHEDRAL SERPENTINE: A SPHERICAL ANALOGUE OF POLYGONAL SERPENTINE |
| 12.10 – 12.30 | MC5.Wed.L4
<i>Etienne Balan*</i>
THEORETICAL INSIGHTS IN THE INFRARED SPECTRUM OF SERPENTINE MINERALS |
| 12.30 – 12.50 | MC5.Wed.L5
<i>Roy Trittschack*, Mélanie Aeberhard, Bernard Grobéty</i>
KINETICS OF CHRYSOTILE AND LIZARDITE DEHYDRATION |

Poster Programme MC5

Posting: 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: Alain Baronnet & Marcello Mellini

- MC5.Tue.P1 *Mihovil Logar*, Marcello Mellini*
STRUCTURAL REFINEMENT OF POLYGONAL SERPENTINE
- MC5.Tue.P2 *Zeynel Başibüyük*, Hüseyin Yalçın, Ömer Bozkaya*
ASBESTOS DEPOSITS OF CRETACEOUS AGE FROM NORTH ANATOLIAN OPHIOLITE BELT IN SİVAS REGION, TURKEY
- MC5.Tue.P3 *Nshan Zulumyan*, Annaİsa Hakyan, AnnaTerzyan*
THE DETECTION OF SERPENTINES STRUCTURAL FEATURES FOR FURTHER PROCESSING
- MC5.Tue.P4 *Nshan Zulumyan*, Anna Isahakyan, Hayk Beglaryan*
THE FEATURES OF SiO₂ OBTAINED FROM SERPENTINES
- MC5.Tue.P5 *Elisa Palacios-Lidon, Olivier Grauby, Claude Henry, Jean-Pierre Astier, Clemens Barth, Alain Baronnet**
DYNAMIC SCANNING FORCE MICROSCOPY (SFM) IMAGING OF THE (001) CLEAVAGE AND GROWTH SURFACES OF ANTIGORITE: TERRACES AND STEPS
- MC5.Tue.P6 *Olivier Grauby*, Alain Baronnet*
SYNTHESIS OF POLYHEDRAL SERPENTINE
- MC5.Tue.P7 *Yasuhiro Takai*, Seiichiro Uehara*
MICROTEXTURE OF GARNIERITES FROM THE WAKAYAMA MINE, OITA PREFECTURE, JAPAN
- MC5.Tue.P8 *Teruo Inoo, Seiichiro Uehara**
SERPENTINE MINERALS AND MICROSTRUCTURE OF ASBESTOS IN SERPENTINITES FROM CENTRAL KYUSHU, JAPAN
- MC5.Tue.P9 *Fabrice Salles*, Jean-Marc Douillard*
DETERMINATION OF THE SURFACE ENERGY FOR SERPENTINE
- MC5.Tue.P10 *Won-Sa Kim*, Marcello Mellin*
ANTIGORITE JADES FROM CHINA AND KOREA

Oral Programme MC7

Structural characterization of lamellar compounds

Conveners: Bruno Lanson, Douglas McCarty

Tuesday 16 June, 2009

Chairs: Douglas McCarty

- 11.00 – 11.30 MC7a.Tue.KL1
*Toshihiro Kogure**
VISUALIZATION OF STACKING DISORDER IN KAOLINITE BY HRTEM
- 11.30 – 11.50 MC7a.Tue.L2
Bruno Lanson, Nathaniel Findling, Boris A. Sakharov, Alain Plançon, Eric Ferrage, Victor A. Drits*
MODELLING X-RAY DIFFRACTION PATTERNS OF MIXED LAYERS BEYOND NEWMOD
- 11.50 – 12.10 MC7a.Tue.L3
Alain Plançon, Jacques Roux*
SOFTWARE FOR AN ASSISTED DETERMINATION OF THE STRUCTURAL PARAMETERS OF THE MIXED LAYER PHYLLOSILICATES
- 12.10 – 12.30 MC7a.Tue.L4
Eric Ferrage, Boris Sakharov, Laurent Michot, Bruno Lanson, Alfred Delville, Gabriel Cuello*
INTERLAYER ORGANIZATION OF WATER IN SYNTHETIC SAPONITE BY COMBINATION OF MOLECULAR SIMULATION AND X-RAY/NEUTRON DIFFRACTION PROFILE MODELING
- 12.30 – 12.50 MC7a.Tue.L5
Kerstin Petrick, Ralf Diedel, Miriam Peuker, Matthias Dieterle, Paul Kuch, René Kaden, Peter Krolla-Sidenstein, Katja Emmeri*
DO I-S MIXED-LAYER MINERALS INFLUENCE THE WORKABILITY OF TWO CERAMIC CLAYS FROM WESTERWALD, GERMANY?

LUNCH 12.50-14.20

Tuesday 16 June, 2009

Chairs: Bruno Lanson

- 14.30 – 15.00 MC7b.Tue.L1
Etienne Balan, Simon Delattre, Chloé Fourdrin, Marc Blanchard, Thierry Allard, Michele Lazzeri, Francesco Mauri*
INFRARED SPECTROSCOPY OF CLAY MINERALS FROM FIRST-PRINCIPLES
- 15.00 – 15.20 MC7b.Tue.L2
Frank Friedrich, Peter G. Weidler*
ALKALI METAL ACETATE INTERCALATION OF KAOLINITE OBSERVED BY ATR-FTIR SPECTROSCOPY
- 15.20 – 15.40 MC7b.Tue.L3
Anne-Claire Gaillot, Victor A Drits, Alain Manceau, Martine Lanson, Bruno Lanson*
CRYSTAL STRUCTURE OF BIRNESSITE: IMPACT OF pH AND LAYER CHARGE ORIGIN
- 15.40 – 16.00 MC7b.Tue.L4
*Alain Manceau**
X-RAY VIEWS OF THE DEFECT STRUCTURE AND CHEMISTRY OF LAYERED ENVIRONMENTAL NANOPARTICLES

Poster Programme MC7

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

Attendance Time: Tuesday, 16 June, 18:30–19:30

Chairs: Bruno Lanson & Douglas McCarty

- MC7.Tue.P1 *Patricia Aparicio**, *Ray E. Ferrell*, *Emilio Galán*
MG AND K CATION SATURATION EFFECTS ON SOIL CLAYS
- MC7.Tue.P2 *Abdesslem Ben Haj Amara*, *Hafsia Ben Rhaïem*, *Med-Salah Karmou*
HYDRATION PROPERTIES OF NA EXCHANGED WYOMING MONTMORILLONITE AND SYNTHESIZED TRIOCTAHEDRAL SAPONITE AND HECTORITE IN RELATION WITH LAYER CHARGE AND LOCATION
- MC7.Tue.P3 *Hafsia Ben Rhaïem**, *Abdesslem Ben Haj Amara*, *Med-Ali Toumi*
A THEORETICAL MODEL FOR SIMULATION OF SAXS AND XRD PATTERNS: DETERMINATION OF THE STRUCTURE AND MICROSTRUCTURE OF NATURAL CLAYS
- MC7.Tue.P4 *A. Dekayir*, *M. Amouric**, *M. Nciri*, *N. Allali*, *J. Olives*
MINERALOGY OF TALC DEPOSITS FROM AGOUNDIS(MOROCCO)
- MC7.Tue.P5 *Ioannis Mitsis**, *Athanasios Godelitsas*, *Jörg Göttlicher*, *Ralph Steininger*, *Platon Gamaletsos*, *Maria Perraki*, *Michael Stamatakis*
CHROMIUM-BEARING CLAYS FROM CROMMYONIA VOLCANIC AREA, GREECE
- MC7.Tue.P6 *Michael W. Möller*, *Dunja Hirsemann*, *Josef Brey**
SPONTANEOUS FORMATION OF REGULARLY INTERSTRATIFIED SYNTHETIC FLUOROHECTORITE
- MC7.Tue.P7 *Oladipo Omotoso**, *Stephen Aja*
RIETVELD REFINEMENT OF SOME DISORDERED IIB MG- AND FE-RICH CHLORITES
- MC7.Tue.P8 *Fabrice Salles**, *Jean-Marc Douillar*, *Drenaud Denoyel*, *Olivier Bildstein*, *Michel Jullien*, *Henri Van Damme*
DETERMINATION OF THE SPECIFIC SURFACE AREA IN SWELLING CLAYS

Oral Programme MC7

Structural characterization of lamellar compounds

Conveners: Bruno Lanson, Douglas McCarty

Tuesday 16 June, 2009

Chairs: Douglas McCarty

- 11.00 – 11.30 MC7a.Tue.KL1
*Toshihiro Kogure**
VISUALIZATION OF STACKING DISORDER IN KAOLINITE BY HRTEM
- 11.30 – 11.50 MC7a.Tue.L2
Bruno Lanson, Nathaniel Findling, Boris A. Sakharov, Alain Plançon, Eric Ferrage, Victor A. Drits*
MODELLING X-RAY DIFFRACTION PATTERNS OF MIXED LAYERS BEYOND NEWMOD
- 11.50 – 12.10 MC7a.Tue.L3
Alain Plançon, Jacques Roux*
SOFTWARE FOR AN ASSISTED DETERMINATION OF THE STRUCTURAL PARAMETERS OF THE MIXED LAYER PHYLLOSILICATES
- 12.10 – 12.30 MC7a.Tue.L4
Eric Ferrage, Boris Sakharov, Laurent Michot, Bruno Lanson, Alfred Delville, Gabriel Cuello*
INTERLAYER ORGANIZATION OF WATER IN SYNTHETIC SAPONITE BY COMBINATION OF MOLECULAR SIMULATION AND X-RAY/NEUTRON DIFFRACTION PROFILE MODELING
- 12.30 – 12.50 MC7a.Tue.L5
Kerstin Petrick, Ralf Diedel, Miriam Peuker, Matthias Dieterle, Paul Kuch, René Kaden, Peter Krolla-Sidenstein, Katja Emmeri*
DO I-S MIXED-LAYER MINERALS INFLUENCE THE WORKABILITY OF TWO CERAMIC CLAYS FROM WESTERWALD, GERMANY?

LUNCH 12.50-14.20

Tuesday 16 June, 2009

Chairs: Bruno Lanson

- 14.30 – 15.00 MC7b.Tue.L1
Etienne Balan, Simon Delattre, Chloé Fourdrin, Marc Blanchard, Thierry Allard, Michele Lazzeri, Francesco Mauri*
INFRARED SPECTROSCOPY OF CLAY MINERALS FROM FIRST-PRINCIPLES
- 15.00 – 15.20 MC7b.Tue.L2
Frank Friedrich, Peter G. Weidler*
ALKALI METAL ACETATE INTERCALATION OF KAOLINITE OBSERVED BY ATR-FTIR SPECTROSCOPY
- 15.20 – 15.40 MC7b.Tue.L3
Anne-Claire Gaillot, Victor A Drits, Alain Manceau, Martine Lanson, Bruno Lanson*
CRYSTAL STRUCTURE OF BIRNESSITE: IMPACT OF pH AND LAYER CHARGE ORIGIN
- 15.40 – 16.00 MC7b.Tue.L4
*Alain Manceau**
X-RAY VIEWS OF THE DEFECT STRUCTURE AND CHEMISTRY OF LAYERED ENVIRONMENTAL NANOPARTICLES

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DETERMINATION OF THE SPECIFIC SURFACE AREA IN SWELLING CLAYS

Oral Programme MC8

Modeling diffraction effects from layered systems and nanomaterials

Convener: David L. Bish

Wednesday 17 June, 2009

Chair: David L. Bish

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| 08.50 – 09.20 | MC8.Wed.KL1
<i>Matteo Leoni*</i>
STRUCTURE/MICROSTRUCTURE ANALYSIS OF NANOCRYSTALLINE AND LAYERED SYSTEMS |
| 09.20 – 09.40 | MC8.Wed.L2
<i>Kristian Ufer*, Reinhard Kleeberg, Jörg Bergmann, Reiner Dohrmann</i>
STRUCTURALLY BASED MODELLING OF THE X-RAY DIFFRACTION PATTERNS OF ILLITE/SMECTITE MIXED LAYER MINERALS WITHIN THE RIETVELD METHOD |
| 09.40 – 10.00 | MC8.Wed.L3
<i>Hongji Yuan*, David L. Bish</i>
PARAMETRIC FITTING WITHIN THE NEWMOD ARCHITECTURE: SIMPLEX FITTING OF XRD PROFILES OF INTERSTRATIFIED PHYLLOSILICATES |
| 10.00 – 10.20 | MC8.Wed.L4
<i>P. Vishnu Kamath*</i>
POLYTYPISM AND DISORDER IN LAYERED DOUBLE HYDROXIDES |