

Oral Programme BC1

Clays & Biomolecules: From the Origin of Life to Medical Applications

Conveners: Enzo Gallori, Qiaoyun Huang

Sunday 14 June, 2009

Chairs: Enzo Gallori & F. Javier Huertas

- 11.00 – 11.30 BC1a.Sun.KL1
*Herve Quiquampoix**
PROTEINS AND CLAYS: MECHANISMS OF INTERACTION
- 11.30 – 11.50 BC1a.Sun.L2
Rosalba Bonaccorsi, Christopher P. McKay, Carol R. Stoker*
BIOSIGNATURES PRESERVATION POTENTIAL AND HABITABILITY IN PHYLLOSILICATES VS. IRON-RICH ENVIRONMENTS AS MARS ANALOGUES
- 11.50 – 12.10 BC1a.Sun.L3
Hiromoto Nakazawa, Yoshihiro Furukawa, Toshimori Sekine, Oba Masahiro, Takeshi Kakegawa*
THE REASON WHY BIOMOLECULES ARE ALL HYDROPHILIC AND CLAY-AFFINITIVE
- 12.10 – 12.30 BC1a.Sun.L4
Dirk Schumann, Hyman Hartman, Denis Eberl, S. Kelly Sears, Reinhard Hesse, Hojatollah Vali*
INVESTIGATING THE LAYER STRUCTURE OF ILLITE/SMECTITE MIXED LAYER AS A MODEL FOR SELF-REPLICATING SYSTEM
- 12.30 – 12.50 BC1a.Sun.L5
*Nikolai P. Yushkin**
SIMPLEST BIOMODELLING SYSTEM: NATURAL GEL - MONTMORILLONITE

LUNCH 12.50-14.20

Sunday 14 June, 2009

Chairs: Enzo Gallori & Fabio Tateo

- 14.30 – 15.00 BC1b.Sun.L1
*Giovanni Valdre'**
RELATIONSHIP BETWEEN NANOMORPHOLOGY AND SURFACE POTENTIAL OF CLAY AND LAYERED MINERALS AND INTERACTIONS WITH BIOMOLECULES
- 15.00 – 15.20 BC1b.Sun.L2
Elisabetta Foresti, Marco Lelli, Giorgio Isidoro Lesci, Fabio Tateo, Norberto Roveri*
STUDY ON THE INTERCALATION AND RELEASE OF ZN-PCA- SAPONITIC BENTONITE
- 15.20 – 15.40 BC1b.Sun.L3
Cliff t. Johnston, Robert A. Schoonheydt, Gnanasiri S. Premachandra, Tamas Szabo*
LYSOZYME SORPTION ON SMECTITE
- 15.40 – 16.00 BC1b.Sun.L4
*Hella Mansouri, Abdesslem Ben Haj Amara, Vanessa Prevot, Christine Taviot-Gueho, Claude Forano**
IMMOBILIZATION OF TRYPSINE AND CHYMOTRYPSINE IN MG-AL AND ZN-AL LAYERED DOUBLE HYDROXIDE
- 16.00 – 16.20 BC1b.Sun.L5
Bernd Wicklein, Margarita Darder, Pilar Aranda, Eduardo Ruiz-Hitzky*
PHOSPHATIDYLCHOLINE-CLAY SYSTEMS AS ARTIFICIAL LIPID MEMBRANE SUPPORTS OF BIOLOGICAL SPECIES

Poster Programme BC1

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

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

Chairs: Enzo Gallori & Giovanni Valdré

- BC1.Sun.P1 *Sergio Branciamore, Giulia Talini, Enzo Gallori**
CLAY MINERALS AND THE ORIGIN OF GENETIC INFORMATION
- BC1.Sun.P2 *U. Sohling*, F. Ruf, K.Ralla, D. Riechers, C. Kasper, T. Scheper*
ADSORPTION AND SEPARATION OF PROTEINS WITH SMECTITIC CLAY MINERALS
- BC1.Sun.P3 *Bhavesh Kevadiya, Hasmukh A. Patel, Ghanshyam V. Joshi, Hari C. Bbajaj**
CONTROL RELEASE OF IMPORTANT DRUG MOLECULES FROM MONTMORILLONITE-DRUG HYBRIDS
- BC1.Sun.P4 *Qiong He, Dongyun Zheng, Shengshui Hu**
DEVELOPMENT AND APPLICATION OF A NOVEL NA-MONTMORILLONITE BASED SEROTONIN SENSOR
- BC1.Sun.P5 *Yves Chapron**
INTERACTION OF PEPTIDE PrP(92-138) AND MINERAL SURFACE
- BC1.Sun.P6 *Amaranta Pucci*, Sergio Branciamore, Marco Casarosa, Luigi Paolo D'acqui, Enzo Gallori*
NUCLEOBASES AND CLAY MINERAL: INTERACTION AND IMPLICATIONS FOR THE RNA WORLD
- BC1.Sun.P7 *Adi Radian*, Rachel Nechushtai, Yael Mishael*
IRON BINDING PROTEIN-CLAY COMPOSITES; EFFECT OF FE-S CLUSTER ON FERREDOXIN-CLAY INTERACTIONS