

Oral Programme NM5

Natural zeolites: from genesis to applications

Conveners: Piergiulio Cappelletti, Alessio Langella, Nai-Qian Feng

Wednesday 17 June, 2009

Chairs: Piergiulio Cappelletti & Alessio Langella

- 08.50 – 09.20 NM5a.Wed.KL1
*David L. Bish**, *Hsiu-Wen Wang*
THE IMPORTANCE OF THE PARTIAL PRESSURE OF H₂O IN ZEOLITE PHASE TRANSITIONS
- 09.20 – 09.40 NM5a.Wed.L2
Piergiulio Cappelletti, *Giacomo D. Gatta**, *Alessio Langella*
NEW DATA ON PHILLIPSITES FROM NEAPOLITAN YELLOW TUFF
- 09.40 – 10.00 NM5a.Wed.L3
*Athanasios Godelitsas**, *Anestis Filippidis*, *Panagiotis Misaelides*
TRANSITION METAL COMPLEXES SUPPORTED ON NATURAL ZEOLITES: NEW COMPOSITE MATERIALS FOR INNOVATIVE APPLICATIONS
- 10.00 – 10.20 NM5a.Wed.L4
B. K. Singh, *S. S. Tomar*, *Renu Tomar**, *Radha Tomar**
SORPTION OF HOMOLOGUES OF REDIONUCLIDES ON SYNTHETIC ION EXCHANGER
- 10.20 – 10.40 NM5a.Wed.L5
*Yelda Akdeniz**, *Semra Ulku*
PREPARATION OF ANTIMICROBIAL NATURAL ZEOLITE: ION EXCHANGE BY MICROWAVE IRRADIATION AND CONVENTIONAL WATERBATH

COFFEE BREAK 10.40-11.00

Wednesday 17 June,, 2009

Chairs: Piergiulio Cappelletti & Alessio Langella

- 11.00 – 11.30 NM5b.Wed.L1
*Peter J. Leggo**
THE ENHANCEMENT OF NITRIFICATION IN AN ORGANO-ZEOLITIC-SOIL SYSTEM AND ITS EFFECT ON PLANT GROWTH AND QUALITY
- 11.30 – 11.50 NM5b.Wed.L2
*Andrea Buondonno**, *Gian Franco Capra*, *Elio Coppola*, *Maria Giustina Duras*, *Sergio Vacca*, *Carmine Colella*
FAVOURABLE EFFECTS OF NATURAL ZEOLITES ON SOILS TREATED WITH MUNICIPAL SEWAGE
- 11.50 – 12.10 NM5b.Wed.L3
Hossein M. Hosseini, *Fatemeh M. Shirazi**, *Khadjeh Naghizadeh*
USE OF NATURAL ZEOLITES IN AGRICULTURAL AND ENVIRONMENTAL FIELDS
- 12.10 – 12.30 NM5b.Wed.L4
*Cassidy Sooter**, *Wayne H. Hudnall*
RECYCLING OF ZEOLITE FILTERS THROUGH THE USE OF ELECTRODIALYSIS
- 12.30 – 12.50 NM5b.Wed.L5
*Nai-Qian Feng**, *Gai-Fei Peng*, *Quan-Lin Niu*
NATURAL ZEOLITE - A SPECIAL FUNCTIONAL MATERIAL IN CEMENT AND CONCRETE

Poster Programme NM5

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: Piergiulio Cappelletti & Alessio Langella

- NM5.Tue.P1 *Roxana Elena Apreutesei**, *Cezar Catrinescu*, *Adrian Ungureanu*, *Carmen Teodosiu*
ADSORPTION OF 4-CHLOROPHENOL ON SURFACTANT MODIFIED ALKALI-TREATED NATURAL ZEOLITES
- NM5.Tue.P2 *Guido Cerri**, *Antonio Brundu*, *Maria Cristina Bonferoni*, *Carla Caramella*, *Maurizio De' Gennaro*
EVALUATION OF ZEOLITES AS PROTEASE INHIBITORS FOR POSSIBLE EMPLOYMENT IN THE DELIVERY OF PEPTIDIC DRUGS
- NM5.Tue.P3 *Guido Cerri**, *Antonio Brundu*, *Abner Colella*, *Maurizio De' Gennaro*
THERMAL INACTIVATION OF PB-CLINOPTILOLITE
- NM5.Tue.P4 *Abner Colella*, *Bruno De Gennaro*, *Domenico Caputo*, *Carmine Colella**
SOLIDIFICATION OF Cd-LOADED ZEOLITE-RICH TUFF POWDERS BY REACTION WITH LIME
- NM5.Tue.P5 *Athanasios Godelitsas**, *Platon Gamaletsos*, *Maria Roussos-Kotsis*
GEOCHEMICAL CHARACTERISTICS AND PHYSICO-CHEMICAL PROPERTIES OF INDUSTRIAL MINERALS FROM KIMOLOS ISLAND, GREECE
- NM5.Tue.P6 *Ting-Yu Hao**, *Nai-Qian Feng*, *Zhi-Gang Wu*, *Bo Su*
STUDY ON THE MECHANISM OF NATURAL ZEOLITE ON SUPPRESSING ALKALI-AGGREGATE REACTION
- NM5.Tue.P7 *Olga Kotova*, *Dmitryshushkov**
ANALCIME-BEARING ROCKS OF THE TIMAN REGION: COMPOSITION, PROPERTIES, APPLICATION
- NM5.Tue.P8 *Mahdi Meftah*, *Walid Oueslati**, *Abdesslem B. Haj Amara*
CHARACTERIZATION OF NiS AND NiCoS NANOPARTICLES IN ZEOLITE TYPE LTA HOST
- NM5.Tue.P9 *Mojtaba Mehrabian**, *Farahnaz Sohrab*, *Ahmad Heidari*, *Kazem Zamanian*
EVALUATION THE APPLICATION OF ZEOLITE AND BENTONITE ON SOIL HYDRAULIC PROPERTIES
- NM5.Tue.P10 *Mojtaba Mehrabian**, *Ahmad Heidari*, *Kazem Zamanian*, *Rohollah Taghizadeh Mehrjardi*
NATURAL ZEOLITES AND NEW APPROACHES OF THEIR USE IN SOILS. A BRIEF REVIEW
- NM5.Tue.P11 *Mariano Mercurio**, *Vincenzo Monetti*, *Piergiulio Cappelletti*, *Maurizio De' Gennaro*, *Alessio Langella*
EVALUATION OF SOME TOXIC ELEMENTS IN ZEOLITITES USED FOR ANIMAL DIET
- NM5.Tue.P12 *Mariano Mercurio**, *Vincenzo Mercurio*, *Andrea Buondonno*, *Sandro Conticelli*, *Elio Coppola*, *Maurizio De' Gennaro*, *Celestino Grifa*, *Alessio Langella*, *Vincenzo Morra*
NATURAL ZEOLITITES AND WHITE WINES FROM CAMPANIA REGION: A NEW APPROACH FOR SOLVING OENOLOGICAL PROBLEMS
- NM5.Tue.P13 *Feng Naiqian**, *Shi Yunxing*, *Niu Qualin*
AN EXPERIMENTAL STUDY ON THE CHARACTERISTICS OF ZEOLITE SUPERPLASTICIZER
- NM5.Tue.P14 *Makoto Okamoto**
OCCURRENCE OF ALTERED ZEOLITES AT TAKAMATSU CRATER AS A SPECIAL LOCALITY IN JAPAN
- NM5.Tue.P15 *Hediye Apaydin Ozcelik**, *Ertugrul Yorukogullari*
DETERMINATION OF THERMAL PROPERTIES OF SOME NATURAL ZEOLITES FROM TURKEY
- NM5.Tue.P16 *Abbas Shahidi**
DETERMINATION OF PALLADIUM IN WATER SAMPLES AFTER PRECONCENTRATION ON TO MODIFIED ANALCIME ZEOLITE WITH N,N'-BIS(2-HYDROXYBENZYLIDENE)-2,2'-(AMINOPHENYLTHIO) ETHANE
- NM5.Tue.P17 *Tayebeh Shamspur**, *Ali Mostafavi*, *Iran Sheikhshoae*
COLUMN SOLID-PHASE EXTRACTION WITH PUMPELLYITE ZEOLITE MODIFIED BY A SCHIFF BASE LIGAND AND DETERMINATION OF TRACE AMOUNTS OF COBALT IONS
- NM5.Tue.P18 *Ruben Snellings**, *Gilles Mertens*, *Jan Elsen*
THE POZZOLANIC REACTION BETWEEN ZEOLITES AND LIME: A TIME AND SPATIALLY RESOLVED IR APPROACH
- NM5.Tue.P19 *Ruben Snellings**, *Gilles Mertens*, *Jan Elsen*
FLUID COMPOSITION EVOLUTION IN NATURAL ZEOLITE-CEMENT MIXTURES

- NM5.Tue.P20 *Juan Carlos Torres**, *Jose Carlos Gubulin*
ION-INTERACTION PARAMETERS OF BINARY 2:1 AND 2:2 ION-EXCHANGE SYSTEMS OBTAINED BY THE COUPLING OF THE MARGULES MODEL WITH A LINEAR FREE ENERGY CORRELATION APPROACH: EXPERIMENTAL PROOF FOR THE ISOTHERM BEHAVIOR
- NM5.Tue.P21 *H.W. Ye, N.Q. Feng**, *G.R. Gu, W.B. Xu, J.H. Zhou*
USAGE OF ZEOLITE-PLASTICIZER IN ULTRA HIGH PERFORMANCE –SELF COMPACTING CONCRETE AND ITS ULTRA HIGH-RISE PUMPING TECHNOLOGY
- NM5.Tue.P22 *UrsulaKelm**, *Sonia Helle, Oscar Jerez, Alexander Neaman*
EVALUATION OF THE ADDITION OF NATURAL ZEOLITE TO SOILS TO IMPROVE THEIR TEMPORARY COPPER RETENTION WHEN EXPOSED TO COPPER SULPHATE SOLUTIONS
- NM5.Tue.P23 *Maryam Mohamadi Nezhad**, *Ali Mostafavi, Iran Sheikhshoae, Tayebeh Shampur, Elaheh Molaakbari*
MODIFIED PUMPELLYITE ZEOLITE IMMOBILIZED WITH A SHIFF BASE AS NEW SORBENT FOR SIMULTANEOUS SEPARATION AND PRECONCENTRATION OF TRACE AMOUNTS OF Ag^+ , Cu^{2+} AND CO^{2+}