

**ACCADEMIA NAZIONALE DEI LINCEI
INTERNATIONAL UNION OF CRYSTALLOGRAPHY**

Convegno Internazionale

**MICRO-AND MESOPOROUS MINERAL PHASES
Mineralogical, Crystallographic and Technological Aspects**

6 e 7 DICEMBRE 2004

PROGRAMMA - INVITO

Lunedì 6 dicembre

- 8.30 Registrazione
- 9.30 Indirizzi di saluto
- 10.30 L. B. MCCUSKER: IUPAC nomenclature for ordered microporous and mesoporous materials and its application to non-zeolite mineral phases
- 11.00 S.V. KRIVOVICHEV: Topology of microporous structures
- 11.30 J. ROCHA, Z. LIN: Microporous mixed octahedral-pentahedral-tetrahedral framework silicates
- 12.00 N.V. CHUKANOV, I.V. PEKOV: Heterosilicates with tetrahedral-octahedral frameworks. Mineralogical and crystal-chemical aspects
- 12.30 I.V. PEKOV, N.V. CHUKANOV: Microporous framework silicate minerals with rare and transition elements. Minerogenetic aspects

- 14.30 G. FERRARIS, A. GULA: Polysomatic aspects of microporous minerals. Heterophyllosilicates, palysepioles and rhodesite-related structures
- 15.00 S. QUARTIERI, G. VEZZALINI: The "template" effect of the extra-framework species on the high-pressure behaviour of microporous materials
- 15.20 V.A. BLATOV: A method to analyze pores in crystal structures by means of Voronoi-Dirichlet polyhedra
- 15.40 F. LIEBAU, H. KÜPPERS: On the determination of pore volumes, pore shapes and migration paths of inorganic micro- and mesoporous materials
 - 16.00 Intervallo e sessione posters
- 17.00 E. MAKOVICKY: Microporous and mesoporous sulphides
- 17.30 M. PASERO: A short outline of the tunnel oxides
- 18.00 X. ZOU, L. TANG, Y. LI, T. CONRADSSON, M.S. DADACHOV: Novel open-framework germanates synthesized by organic templating
- 18.20 O.V. YAKUBOVICH, V. MASSA, I.V. PEKOV, P.G. GAVRILENKO: Crystal chemical features in a cordierite-sekaninaite series of micro-porous minerals
- 18.40 F. HATERT, A.-M. FRANSOLETT: Natural and synthetic alluaudite-type phosphates: crystal chemistry and applications

Martedì 7 dicembre

- 9.00 E. BONACCORSI, S. MERLINO: Modular microporous minerals: cancrinite-davyne group and C-S-H phases
- 9.30 W. DEPMEIER: The sodalite family. A simple architecture, but versatile framework structure
- 10.00 T.J. WHITE, C. FERRARIS, J. KIM, M. SRINIVASAN: Apatite. An adaptive framework structure
 - 10.30 Intervallo e sessione posters
- 11.00 M. MELLINI: Micro- to mesoporous mineral phases
- 11.30 G. CROCE, M. MILANESIO, D. VITERBO, H. AMENITSCH: A mesoporous pattern created by nature in siliceous spicules from marine sponges
- 11.50 D. GOZZI, L. LATINI, M. TOMELLINI: Carbon nanotubes and H₂ production
- 12.10 W.F. KUHS, G. GENOV, D. STAYKOVA, A. ZELLER, K.S. TECHMER, T. HEINRICH, G. BOHRMANN: Porous microstructures of gas hydrates
- 12.30 A.A. ELISEEV, K.S. NAPOLSKII, I.V. KOLESNIK, A.V. LUKASHIN, Yu.D. TRETYAKOV, N.A. GRIGORIEVA, S.V. GRIGORIEV, A.A. VOROBIEV, P. GÖRNERT: The use of mesoporous systems for preparation of one-dimensional ordered magnetic nanowires
- 12.50 F. FARZANEH, N. KAZEMI, E. ZAMANIFAR: Modified Ti- and V-containing metallosilicates. Mesoporous molecular sieves MCM-41 as selective catalysts for epoxidation of alkenes

- 14.30 A. BIENIOK, U. BRENDEL, G. AMTHAUER: Synthesis and characterization of a microporous cobaltophosphate with the cancrinite framework structure
- 14.50 G. DELLA VENTURA, F. BELLATRECCIA: The channel constituents of cancrinite-group minerals
- 15.10 S. USSEGLIO, D. COCINA, J. VITILLO, G. SPOTO, A. ZECCHINA: FTIR spectroscopic study of the adsorption of CO and H₂ on Na- and Sr-exchanged ETS-4
- 15.30 S. ZANARDI, R. MILLINI, L.C. CARLUCCIO, A. CARATI, G. BELLUSSI, C. PEREGO, G. CRUCIANI: Synthesis and structure of ERS-12, a new layered tetramethylammonium silicate composed by ferrierite layers
- 15.50 S.V. GORYAINOV, R.A. SECCO, Y. HUANG, H. LIU: Electrical conductivity of hydrated and dehydrated zeolites A at high pressures
 - 16.10 Intervallo e sessione posters
- 17.10 N. PHONTHAMMACHAI, M. KRISSANASAERANEE, E. GULARI, A.M. JAMIESON, S. WONGKASEMJIT: High surface area and thermally stable TiO₂ synthesized directly from titanium triisopropanolamine precursor
- 17.30 K. GARBEV, B. GASHAROVA, A. STUMM, G. BEUCHLE, P. STEMMERMANN: Synthesis of microporous C-S-H phases of truscottite-type using unsubstituted and Zn-substituted gyrolite as precursor
- 17.50 A.Y. LIKHACHEVA, S.A. VENIAMINOV, E.A. PAUKSHTIS: On existence of the H-natrolite
- 18.10 A. WACLAW-HELD, R. FÓRMANIAK, W. KALETA, K. NOWINSKA: Organometallic rhodium complexes encapsulated in mesoporous molecular sieves
 - 18.30 Discussione e chiusura dei lavori

Il convegno è organizzato congiuntamente dall'Accademia Nazionale dei Lincei e dall'International Union of Crystallography, nell'ambito dell'attività della Commission on Inorganic and Mineral Structures.

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