NIS Colloquium

MOFs: smart materials for catalysis and adsorption

Torino, Thursday 15 February 2007

Sala A Villa Gualino, Viale Settimio Severo, 63 - Torino

PROGRAMME

9.15-9.30 Colloquium opening: Adriano Zecchina
NIS - Centre of Excellence Università di Torino

Chair 1:
Joachim Sauer, Humboldt Universität, Berlin, Germany

9.30-10.10 *Gérard Ferey*
Institute Lavoisier, Versailles, France
A strange behavior in solid state sciences: the very large breathing in crystalline hybrid porous solids. Unexpected applications

10.20-11.00 *Jasmina Hafizovic*
Center for Materials Science and Nanotechnology, Dep. of Chemistry, Oslo, Norway
The inconsistency in the adsorption properties and powder XRD data of MOF-5 is rationalized by framework interpenetration and presence of organic and inorganic species in the nanocavities

11.10-11.40 Coffee break

11.40-12.40 *Gabriele Ricchiardi, Bartolomeo Civalleri*
NIS - Centre of Excellence Università di Torino, Italy
An overview of computational techniques applied to MOFs (structures and properties)

12.40-14.30 Lunch

Chair 2
Richard Blom, SINTEF Materials and Chemistry, Oslo, Norway

14.30-15.10 *Russell Morris*
School of Chemistry, University of St Andrews, UK
Chiral induction, a typical chemistry and potential applications of MOFs

15.20-16.00 *Marco Tagliabue*
ENI, San Donato M.se, Italy
Methane and Hydrogen Storage on Porous Solids: Which Contributions from MOF-like Materials?"

16.00-16.30 Coffee break

Chair 3
Jean-Marie Basset, ESCPE, Lyon, France

16.30-17.10 *Pascal Dietzel*
SINTEF Materials and Chemistry, Oslo, Norway
MOFs on the road towards application in catalysis

17.20-18.00 *Silvia Bordiga*
NIS Centre of Excellence Università di Torino, Italy
Combined use of spectroscopies in MOFs characterization

18.10-18.30 *Alexander Krivokapic*
Center for Materials Science and Nanotechnology, Dep. of Chemistry, Oslo, Norway
Dimensionality in bimetallic X+Pt/Pd-MOFs can it be controlled?

NIS Colloquia are realized in collaboration with NANOMAT Project and ASP ASSOCIAZIONE PER LO SVILUPPO SCIENTIFICO E TECNOLOGICO DEL PIEMONTE