

Modelling the mineralogical world: how and why

June 14-15, 2016, Department of Earth Sciences,
Sapienza University of Roma
"Sergio Lucchesi" room



KEYNOTE TALK:

A. R. Oganov ,
SUNY –Stony Brook, New York

Discovering new materials,
minerals and phenomena with
evolutionary algorithms

Speakers:

Celestino Angeli (University of Ferrara, Italy) – **Modelling the diffusion process in microporous materials: environmental and technological impacts,**

D. Belmonte (University of Genova) – ***Ab initio* thermodynamics of deep mantle processes: the mineral physics perspective**

M. Bruno (University of Torino) - **On the simulation of the crystal surfaces**

M. Faccenda (University of Padova) – **Petrological numerical modelling of the convective Earth**

M. Merli (University of Palermo)– **Catastrophes in the electron density: what happens to a crystal when it approaches the phase transition point**

C. Stangarone (University of Parma) – **Unravelling vibrational frequencies of crystal lattices: quantum mechanical approach and possible application in Planetary Science**

Scientific Committee:

P. Comodi University of Perugia, Italy ; A. Martucci University of Ferrara, Italy ; M. Pasero University of Pisa, Italy ; M. Prencipe University of Torino, Italy; G. Salviulo, University of Padova, Italy

Technical Committee

G. Andreozzi (Sapienza University of Roma), P. Comodi (University of Perugia) , A. Martucci (University of Ferrara), M. Pasero (University of Pisa), M. Prencipe (University of Torino), G. Salviulo (University of Padova)

