



EU RITA User workshop
(Research Infrastructure Transnational Access)
"The Structure and Properties of Materials at High Pressure"
Verbania-Pallanza, Sep. 28 - Oct. 01, 2008



Program

Sunday 28 Sept. **Arrival** at Hotel Castagnola, Verbania-Pallanza

from 18:00 **CHECK-IN, WELCOME PARTY**
20:00 **DINNER**

Monday 29 Sept.

- 09:10 – 09:20** *Dave Rubie/Bayreuth*
Opening remarks
- 09:20 – 09:40** *Reidar G. Tronnes/Oslo, T. Boffa-Ballaran, D.J. Frost, T. Balic-Zunic, L.A. Olsen, S. Stølen*
Phase relations and mineral physics of the lowermost mantle - the analogue compositional approach
- 09:40 – 10:00** *Bernie Wood/Oxford*
Metal-silicate partitioning of Pb and Tl and the isotopic evolution of the silicate Earth
- 10:00 – 10:20** *Andrew Berry/London*
NMR of mantle phases
- 10:20 – 10:40** *Dave Dobson/London*
Majorite-magnesiowüstite reaction and viscous decoupling of the upper and lower mantle
- 10:40 – 11:10** **BREAK**
- 11:10 – 11:30** *Simon Hunt/London*
Thermal diffusivity of subduction zone assemblages
- 11:30 – 11:50** *Nick Petford/Bournemouth*
Reynolds dilatancy in partially molten aggregates
- 11:50 – 12:10** *G. Diego Gatta/Milano, T. Boffa Ballaran*
Effect of the channel-content on the elastic behaviour of open-framework materials
- 12:10 – 12:30** *Paola Comodi, Sabrina Nazzareni/Perugia*
HP-HT behaviour of sulphates
- 12:30 – 14:00** **LUNCH**
- 14:00 – 16:00** **POSTER SESSION**
- 16:00 – 16:20** *Suzanne McEnroe/Trondheim*
Effects of pressure on magnetic properties of oxide minerals: unanswered questions
- 16:20 – 16:40** *Peter Robinson/Trondheim*
Geikielite and coupled spinel-rutile exsolution from titanohematite in the mesoproterozoic granulite facies, south Norway: keys to remanence and lamellar magnetism in planetary crusts
- 16:40 – 17:00** *Salvatore Mazzullo/Ferrara*
High pressure crystallization of semicrystalline polypropylene
- 19:00** boat transfer to **CONFERENCE DINNER** on Isola dei Pescatori (Albergo Verbano)

Tuesday 30 Sept.

- 09:00 – 09:20** *Nobuyoshi Miyajima/Bayreuth*
Burgers vector determination in deformed perovskite and post-perovskite of CaIrO₃ using thickness-fringes in weak beam dark field images
- 09:20 – 09:40** *Polina Gavrilenko/Bayreuth*
Water solubility in diopside
- 09:40 – 10:00** *Tibor Guzmics/Budapest*
Liquid immiscibility between a phosphorous carbonatite melt and a carbonate-bearing alkali aluminosiliceous melt, coexisting with apatite, K-feldspar and diopside at 1200 °C and 2.2 GPa: implications for carbonatite metasomatism in the mantle
- 10:00 – 10:20** *Vladimir L. Solozhenko and Oleksandr O. Kurakevych, Paris*
B-P system at high pressures and temperatures
- 10:20 – 10:50** *Alexandr Talyzin/Umeå*
Graphite oxide at high pressure
- 10:50 – 11:20** **BREAK**
- 11:20 – 11:40** *Miguel Á. Alario-Franco/Madrid*
Some surprises in the synthesis of Cr(IV) oxides and related perovskite based materials
- 11:40 – 12:00** *Jacques Rabier/Poitiers*
Dislocation mechanisms at the brittle to ductile transition in elemental semiconductors
- 12:00 – 12:20** *R. J. Cernik/Manchester*
A high pressure in-situ synthesis of multi-ferritic bismuth manganite
- 12:20 – 14:00** **LUNCH**
- 14:00 – ca. 19:00** **EXCURSION**
Departure to Orta Lake (Lago d'Orta) – approx. 30 km south of Verbania-Pallanza
Arrival at the town of Orta San Giulio ca. 14:45
15:00 – 18:00 individual sightseeing/visits to Sacro Monte (about 20 churches and chapels, Unesco World Heritage), town of Orta San Giulio and/or boat trip to the island of San Giulio)
18:00 departure from bus parking area
19:00 return to Hotel Castagnola
DINNER at Hotel Castagnola

Wednesday 01 Oct.

Departure (lunch available)