

GENERAL PROGRAMME

June 24

9:15 – 9:30 Registration

9:30 Workshop opening

Morning session

Chairs: Stanislav Filatov, Lorenz Kienle

9:45 - 10:15 M. Jansen

From atomistic energy landscapes to phase diagrams

10:15 - 10:45 V.S. Urusov

Title to be defined

Coffee break

11:05 - 11:35 O. Mentre

New perovskite oxo-halides: block assembly, disorder and properties

11:35 - 12:05 S. Krivovichev

Modular chemistry of complex oxides for actinide waste immobilization: the pyrochlore-murataite polysomatic series

12:05 - 12:35 W. Depmeier

2D and 3D actinide borates

Lunch

Afternoon session

Chairs: Martin Jansen, Vladislav Blatov

14:15 – 14:45 A. Shevelkov

Building metal-inorganic frameworks (MIF's) using group 15 Clusters and polyanions as linkers

14:45 – 15:15 O. Oeckler

Influence of real-structure effects on the properties of metastable tellurides

15:15 – 15:45 T. Doert

Commensurately and incommensurately modulated square layers

15:45 – 16:15 L. Cario

Structure prediction of new inorganic compounds from 2D secondary building units

16:15 – 16:45 C. Masquelier

Synchrotron X-rays and neutrons as essential tools in Li battery research : new structures and new properties of LiFePO₄-based cathodes

Coffee break

Evening session

Chairs: Wulf Depmeier, Olga Yakubovich

17:05 – 17:35 O. Siidra

Oxo- and hydroxocentered units in Pb and Tl compounds

17:35 – 18:05 M. Colmont

Bi-phosphates : from assembly of O(Bi,M)₄ tetrahedra to the a diversity of structural intergrowths

18:05 – 18:35 S. Filatov

From volcano to the atom: O-Me units in volcanic minerals and gases

19:15 Welcome party

June 25

Morning session

Chairs: Wolfgang Bensch, Elena Belokoneva

09:00 - 09:30 W. Bensch

In-situ investigation of chemical reactions using synchrotron radiation

09:30 – 10:00 L. Kienle

Transmission electron microscopy in fundamental research and material science

10:00 – 10:30 J. Senker

NMR crystallographic strategies for the structure elucidation of semicrystalline carbon nitrides

Coffee break

10:50 – 11:20 M. Ruck

Low-temperature synthesis of inorganic materials

11:20 – 11:50 S. Britvin

Chemical tailoring of structures and properties of layered titanates

11:50 – 12:20 R. Niewa

New and old iron nitrides via high-pressure–high-temperature synthesis

Lunch

Afternoon session

Chairs: Sergey Krivovichev, Olivier Mentre

14:00 – 14:30 A. Baranov

Chemical bonding analysis in position space

14:30 – 15:00 V. Blatov

Periodic-graph approaches in taxonomy and prediction of inorganic crystal structures

15:00 – 15:30 E. Belokoneva

Structure prediction on the base of topology-symmetry analysis

Coffee break

Evening session

Chairs: Michael Ruck, Werner Paulus

15:50 – 16:20 O. Perez

Complex ordering states in solid state chemistry

16:20 – 16:50 E. Gaudin

Structural properties of two different series of binary and ternary intermetallics crystallizing with the Sm_5Ge_4 -type or $\text{Ho}_4\text{Co}_{3+x}$ -type structures

16:50 – 17:20 O. Yakubovich

Microporous borophosphates: crystal chemistry based on genetic approach

17:20 – 17:50 W. Paulus

Low temperature oxygen mobility in non-stoichiometric oxides

17:50 Workshop closing

18:45 Dinner