

Conference Programme

Monday 10 March

17:30 - 18:55 Session 1

17:30 John Goodenough
Lessons from Transition-Metal Oxides

18:15 Serena Margadonna
Cooperative Jahn-Teller Distortion, Phase Transitions and Magnetism in Orbitally Active Transition Metal Fluorides

18:35 Tor Grande
Ferroelasticity of Sr and Ca substituted LaCoO₃-based perovskites

19:00 Group dinner

Tuesday 11 March

8:30 - 10:15 Session 2

08:30 Robert Cava
Magnetism and Structure of Li_xCoO₂ and comparison to Na_xCoO₂

09:15 Masaaki Isobe
New cobalt oxide CaCo₂O₄; a potential thermoelectric material with the calcium-ferrite type structure

09:35 Eric Toberer
Low thermal conductivity thermoelectric materials through spontaneous partitioning

09:55 Mario Bieringer
Structural Manipulations of Transition Metal Oxides for Magnetic Property Studies

10:15 - 12:00 Beachside poster session

12:00 - 13:00 Session 3

12:00 Abraham Clearfield
Solid State Chemistry of Porous Pillared Group IV Phosphonates

12:20 Nicolas Mercier
Organic-Inorganic Synergy in Halogenometallate Hybrids based on Functional Cations

12:40 Andrew Fogg
Synthesis and anion exchange chemistry of new intercalation hosts containing lanthanide cations, Ln₂(OH)₅(NO₃).xH₂O (Ln = Y, Gd-Lu)

13:00 - 16:00 Group lunch and free time.

- 16:00 - 17:45 Session 4**
- 16:00 Yuichi Shimakawa**
Complex ordered perovskites with intriguing physical properties
- 16:45 Martha Greenblatt**
La₂MVO₆ (M=Mn, Fe, Co, Ni): A Structural, Magnetic and X-ray Absorption Investigation
- 17:05 Sylvie Malo**
Novel 2212-based Fe-rich strontium ferrites: layered and collapsed structures
- 17:25 Pavel Karen**
Valence mixing and ordering in RBaFe₂O_{5+w}
- 17:45 - 18:00 Informal discussion and refreshments.**
- 18:00 - 19:25 Session 5**
- 18:00 Clare Grey**
TBC
- 18:45 Lorenzo Malavasi**
Neutron total scattering study of the fast oxygen ion conductor La₂Mo₂O₉
- 19:05 Ester Garcia-Gonzalez**
Ferroelectric properties and microstructural effects in NaNb_{1-x}Ta_xO₃
- 19:30 Group Dine-around (choice from a selection of hotel restaurants)**
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Wednesday 12 March

- 8:30 - 10:15 Session 6**
- 08:30 Jean-Marie Tarascon**
TBC
- 09:15 Anthony Roy West**
Oxygen Non-stoichiometry in Lithium Cathode Materials
- 09:35 Ladislav Kavan**
Nanotube-wiring: enhancement of electrochemical activity of LiFePO₄ (olivine) by amphiphilic Ru-bipyridine complex anchored to a single walled carbon nanotube
- 09:55 Edmund Cussen**
Switching on Ionic Conductivity in the Garnet Structure
- 10:15 - 10:45 Informal discussion and refreshments.**

10:45 - 12:10 Session 7

10:45 Antonio Fuentes

Mechanical Milling as a Tool for Manipulating the Structural Characteristics of Pyrochlores

11:30 Junji Akimoto

Single crystal synthesis, structure and properties of AB₂O₄-type compounds

11:50 Susana Garcia-Martin

Microstructural defects of ordered perovskites studied by selected area electron diffraction and high resolution transmission electron microscopy.

12:10 - 16:00 Group lunch and free time

16:00 - 17:45 Session 8

16:00 Mercuri Kanatzidis

Energy from waste heat. Solid state chemistry of nanostructured chalcogenides for thermoelectric applications

16:45 Tetsuya Kawashima

Crystal structure and superconductivity of transition metal nitride gamma-Mo₂N and NbN prepared under high-pressure

17:05 Oliver Mentré

Rational Design of New Bi-based Compounds: Continuous Series from 1D to 2D-subunits built up from Oxo-centred Tetrahedra.

17:25 Yuzuru Miyazaki

Preparation, Crystal Structure and Physical Properties of a'(alpha prime)-Na_xCoO₂

17:45 - 18:15 Informal discussion and refreshments.

18:15 - 19:40 Session 9

18:15 Wolfgang Schnick

Materials Design and Properties of Nitride Phosphors for LEDs

19:00 Alexander Norquist

Synthesis of Noncentrosymmetric Molybdates

19:20 Ulrich Schwarz

New binary silicides by tailoring electronic properties

20:00 Group Dinner

Thursday 13 March

08:30 - 10:15 Session 10

08:30 Klaus Yvon

Complex Metal Hydrides for Hydrogen Storage

09:15 Victor Kozhevnikov

Perovskite-like ferrites for partial oxidation of methane

09:35 Arnold Guloy

Chemical Bonding and Reactivity of Polar Intermetallics

09:55 Jürgen Köhler

Late Transition Metal Anions Acting as p-Metal Elements

10:15 - 10:45 Informal discussion and refreshments.

10:45 - 12:40 Session 11

10:45 Russell Morris

Ionothermal Materials Synthesis

11:30 Bernd Harbrecht

Nanocrystalline Nickel Oxide – Size-Controlled Synthesis and Magnetism

11:50 Gao Yingjun

Transmission Band Characteristics of Photonic Crystal

12:20 Hubert Huppertz

New Aspects of Borate Chemistry under High-Pressure

12:40 Group lunch and departure.
