

Symposium title: Solid State Chemistry Potpourri in Kyoto

Date: March 11 (Tue), 12 (Wed)

Place: Katsura Campus, Kyoto University

A2 Bldg. Room A2-306 (3rd floor)

Directions to Katsura Campus

<http://www.t.kyoto-u.ac.jp/en/access/katsura>

March 11

10:15-10:20 Opening remark

10:20-10:50 Daisuke Kan (ICR, Kyoto Univ.)

Control of structural distortions in transition-metal oxide films through interfacial octahedral connectivity

10:50-11:20 Masaki Azuma (TIT, Tokyo)

Charge Glass in Perovskite PbCrO_3

11:20-12:00 John Wiley (Univ. New Orleans, USA)

From Layers to Scrolls – Layer Construction and Peapod Formation through the Manipulation of Niobium Oxides

(lunch)

13:30-14:00 Ryu Abe (Grad. Sch. Eng., Kyoto Univ.)

Visible-Light-Responsive Photocatalysts for Solar Hydrogen Production

14:00-14:40 Ram Seshadri (UCSB, USA)

The continuing puzzle of bismuth pyrochlores

14:40-15:00 Guillaume Builly (Grad. Sch. Eng., Kyoto Univ.)

Transition-metal oxyhydride thin films

(coffee break)

15:30-16:00 Toshiharu Teranishi (ICR, Kyoto Univ.)

Charge separation in Type-II semiconductor heterodimers

16:00-16:40 Amparo Fuertes (ICMAB, Spain)

Functional oxynitrides: photocatalysts, phosphors and CMR materials

16:40-17:10 Mikio Takano (iCeMS, Kyoto Univ.)

BaFeO_3 : Ferromagnetic Iron Oxide

(banquet)

March 12

9:30-9:50 Masato Goto (Grad. Sch. Sci., Kyoto Univ.)

Novel phase transitions in double perovskite fluorides A_2BMF_6 with multiple instability

9:50-10:20 Takafumi Yamamoto (Grad. Sch. Eng., Kyoto Univ.)

Valence control of square planar coordinate iron oxides

10:20-11:00 Oliver Mentre (UCCS, France)

New atypical low-D ferromagnetic oxides

11:00-11:30 Renzhi Ma (NIMS)

Solution-based synthesis and function exploration of layered transition-metal hydroxides: Control of valence state and coordination geometry

11:30-12:00 Zenji Hiroi (Univ. Tokyo)

Spinodal decomposition in the TiO_2 - VO_2 system

(lunch)

13:30-14:00 Shoji Yamanaka (Hiroshima Univ.)

Preparation and superconductivity of intercalation compounds of titanium nitride chloride $TiNCl$

14:00-14:40 Ken Poeppelmeier (Northwestern Univ., USA)

Mixed Metal Oxide-Fluorides: Synthesis and Reactivity

(coffee break)

15:10-15:40 Teruki Motohashi (Hokkaido Univ.)

Structural chemistry of nonstoichiometric manganese oxides: redox property control for realizing oxygen-storage applications

15:40-16:10 Yutaka Ueda (JAEA / Kyoto Univ.)

Materials development by controlling oxygen nonstoichiometry

16:10-16:15 Concluding remark