

Materials Department and Materials Research Laboratory UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Summer Symposium

Chemistry and Physics of Functional Materials

Date: Tuesday 26th July 2011 Time: 9:00 am Venue: CNSI 1601

Schedule of talks:

- 9:00 am to 10:00 am Professor Zenji Hiroi, ISSP, University of Tokyo University, *Orbital switching in a kagomé mineral*
- 10:00 am to 10:15 am Moureen Kemei, *Structure and magnetism in spinel compounds*
- 10:15 am to 10:30 am Dr. Christina Birkel, *New thermoelectric compounds*
- 10:30 am to 11:00 am: *Break*
- 11:00 am to 12:00 noon: Professor Barbara Albert, TU Darmstadt, *The art of synthesis: ScB_{28} , $T'-La_2CuO_4$ (Li/Eu)MoO₄, CrB_4 , FeB, W_2B_4 – solids with fascinating properties*
- 12:00 noon to 12:15 pm: Kristin Denault, *New oxide and oxyfluoride phosphors*
- 12:15 pm to 12:30 pm Dr. Alex Birkel, *Microwave preparation of phosphor materials*
- 12:30 pm to 2:00 pm: *Lunch*
- 2:00 pm to 3:00 pm: Professor Yuichi Shimakawa, ICR, Kyoto University, *New perovskite -structure oxides containing Fe with unusual oxidation states and oxygen coordinations*
- 3:00 pm to 4:00 pm: Professor Karin Rabe, Rutgers, *Phase transitions and functional behavior in complex oxides from first principles*
- 4:00 pm to 4:15 pm: Lauren Misch, *Catalysis by noble metal ions in oxides*
- 4:15 pm to 4:30 pm: Phillip Barton, *Magnetic perovskite and rock-salt solid solutions*

Host: Ram Seshadri <seshadri@mrl.ucsb.edu>

