



International Center for Materials Research  
Summer School on  
**Multiferroic Materials and Beyond**



The NSF-sponsored International Center for Materials Research (ICMR) is pleased to announce a residential fortnight-long summer school on Multiferroic Materials and Beyond, focused on materials needs in selected energy conversion technologies. The school will be held July 20 – August 1 2008, at the campus of the University of California, Santa Barbara. The format will be tutorial, with emphasis on fundamentals and examples from current research by the speakers. The tentative plan is to dedicate the mornings to lectures and the rest of the day to discussion groups, software and experimental demonstrations, and student posters.

The goal of the school will be to present a comprehensive picture of the state of the art in the field of multiferroic oxides with an emphasis on the theory of the coexistence and mutual interaction of different orders and fundamental aspects of the broken symmetries, the search for new compounds exhibiting magneto-electric coupling and multiferroicity, and the novel physical phenomena that result - for instance, extremely complex magnetic phase diagrams, ferroelectricity induced by magnetic order, the rotation of complete reversal of the ferroelectric polarization in magnetic field, ferromagnetic order induced by electric as well as magnetic fields, and the discovery of new elementary excitations. The summer school is designed to encourage cross-fertilization of ideas among the participants.

The organizing committee comprises Sang Cheong, Bernd Lorenz, Silvia Picozzi, David Singh, and Janice Musfeldt. The ICMR summer schools are coordinated by Nicola Spaldin (ICMR Director) and Jennifer Ybarra (Program Coordinator).

We welcome applications for the Summer School from graduate (PhD) students, post doctoral fellow and early career faculty. Participants are expected to be actively involved in multiferroics research. Local hospitality, meals, and housing will be provided. Partial travel support may be available.

**How to apply:**

Applicants should follow application instructions presented on the ICMR website: <http://www.icmr.ucsb.edu/programs/multiferroics.html>. For further details, please contact the ICMR Program Coordinator, Jennifer Ybarra, at [Ybarra@icmr.ucsb.edu](mailto:Ybarra@icmr.ucsb.edu). The application deadline is April 1, 2008.

*Lecturers*

**Sang Cheong**  
(Rutgers)

**Paul Chu**  
(Houston)

**Michael  
Kenzelmann**  
(ETH, Hopkins, NIST)

**Bernd Lorenz**  
(Houston)

**Thomas  
Lottmoser**  
(Bohn)

**Maxim Mostovoy**  
(Groningen)

**Janice Musfeldt**  
(Tennessee)

**Yukio Noda**  
(Tohoku)

**Silvia Picozzi**  
(Aquila)

**Ramamoorthy  
Ramesh**  
(Berkeley)

**David Singh**  
(ORNL)

**Nicola Spaldin**  
(UCSB)

**Mas Subramanian**  
(Oregon State)

**Ichiro Takeuchi**  
(Mayland)