

ICMR Summer Program on Multiferroics and Beyond  
 University of California, Santa Barbara  
 July 20 – August 2, 2008

WEEK 1	
Sunday, July 20, 2008 – Lagoon Plaza, UCEN	
5:30 pm to 7:30 pm	Reception and Registration
Monday, July 21, 2008 – Engineering Sciences Building, Room 1001	
7:00 am to 8:30 am	Breakfast at Carrillo Dinning Commons
8:30 am to 10:00 am	Paul Chu, University of Houston - Multi-transitions in strongly correlated electron systems: ferroelectric, magnetic, superconductivity
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Nicola Spaldin, UCSB – Why magnetism and ferroelectricity are contraindicated, and how to trick them into coexisting
12:00 pm to 1:30 pm	Lunch at De La Guerra Dinning Commons (lunch served from 11:30 - 1:30)
1:30 pm to 5:00 pm	Free Time
5:00 pm to 6:00 pm	Early Dinner at Carrillo Dinning Commons
6:30 pm to 7:30 pm	Bernd Lorenz, University of Houston - Tuning multiferroic properties under extreme conditions: The effects of high pressure, magnetic fields, and substitutions
Tuesday, July 22, 2008 – Engineering Sciences Building, Room 1001	
7:15 to 8:30 am	Breakfast at Carrillo Dinning Commons
8:30 am to 10:00 am	Michel Kenzelmann, ETH and PSI – Symmetry of magnetic structures
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	David Singh, ORNL - Physics of perovskite oxides, part I
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (Lunch served from 11:30 - 1:30)
2:00 pm to 4:00 pm	Poster Session at ESB Courtyard
4:00 pm to 4:30 pm	Break
4:30 pm to 6:00 pm	Yukio Noda, Tohoku University – Crystal and magnetic structure analysis
6:00 pm and Onward	Dinner at De La Guerra Dining Commons (Dinner served between 5:45 - 7:15)
Wednesday, July 23, 2008 – Engineering Sciences Building, Room 1001	
7:00 am to 8:30 am	Breakfast at De La Guerra Dinning Commons
8:30 am to 10:00 am	Paul Chu, University of Houston – Possible transformation of multiferroics to superconductors
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Karin Rabe, Rutgers University - Magnetostructural coupling in multiferroics

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 July 20 – August 2, 2008

	from first principles, part 1
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (Lunch served from 11:30 - 1:30)
2:00 pm to 4:00 pm	Hands on Theory at ESB 1002
4:00 pm to 4:30 pm	Break
4:30 pm to 6:00 pm	Mas Subramanian, Oregon State University - Crystal chemical strategies for designing ferromagnetic insulators for magnetoelectronics
6:00 pm and Onward	Dinner at De La Guerra Dining Commons (Dinner served between 5:45 - 7:15)
Thursday, July 24, 2008 – Engineering Sciences Building, Room 1001	
7:00 am to 8:30 am	Breakfast at De La Guerra Dining Commons
8:30 am to 10:00 am	Michel Kenzelmann, ETH and PSI - Symmetry of multiferroic phases
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	David Singh, ORNL - Physics of perovskite oxides, part 2
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (Lunch served from 11:30 - 1:30)
2:00 pm to 4:00 pm	Discussion: Whither Multiferroics at <b>MRL 2053</b>
4:00 pm to 6:30 pm	Dinner at Carrillo Dining Commons and free time (Dinner served between 5:00 - 6:00)
6:30 pm – 7:30 pm	Yukio Noda, Tohoku University – Dielectric properties of multiferroics
Friday, July 25, 2008 – Engineering Sciences Building, Room 1001	
7:15 am to 8:30 am	Breakfast at Carrillo Dining Commons
8:30 am to 10:00 am	Sang Wook Cheong, Rutgers University - Symmetric and antisymmetric exchange striction in multiferroics
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Karin Rabe, Rutgers University - Magnetostructural coupling in multiferroics from first principles, part 2
12:00 pm to 4:30 pm	Lunch at De La Guerra Dining Commons and Free Time (Lunch served between 11:30 - 1:30)
4:30 pm to 6:00 pm	Sang Wook Cheong, Rutgers University - Multiferroicity in BiFeO <sub>3</sub>
7:00 pm	Banquet Dinner at the UCSB Faculty Club
Saturday, July 26, 2008 – Free Day	
8:00 am to 9:00 am	Breakfast served at the Carrillo Dining Commons during this time
	Optional Excursion
5:30 pm to 6:30 pm	Dinner served at the Carrillo Dining Commons during this time

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WEEK 2	
Sunday, July 27, 2008 – Free Day	
8:00 am to 9:00 am	Breakfast served at the Carrillo Dining Commons during this time
	Optional Excursion
5:30 pm to 6:30 pm	Dinner served at the Carrillo Dining Commons during this time
Monday, July 28, 2008 – Engineering Sciences Building, Room 1001	
7:15 am to 8:30 am	Breakfast at De La Guerra Dining Commons
8:30 am to 10:00 am	R. Ramesh, UC Berkeley - Multiferroic Thin film heterostructures and nanostructures
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Maxim Mostovoy, University of Groningen – Introduction to theory of multiferroic and magnetoelectirc materials, part 1
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (lunch served from 11:30 - 1:30)
2:00 pm to 4:00 pm	Discussion: Whiter Multiferroics at <b>MRL 2053</b>
4:00 pm to 6:30 pm	Dinner at Carrillo Dining Commons and Free Time (Dinner served between 5:00 - 6:00)
6:30 pm to 7:30	Ichiro Takeuchi, University of Maryland - Magnetoelectrics: multiferroic devices operating at room temperature
Tuesday, July 29, 2008 – Engineering Sciences Building, Room 1001	
7:15 am to 8:30 am	Breakfast at Carrillo Dining Commons
8:30 am to 10:00 am	Kee Hoon Kim, Seoul National University - Quantitative determination of the cross-coupling effects in multiferroics: symmetry, magnetoelectric susceptibility, and future applications
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Thomas Lottermoser, University of Bonn – Nonlinear optics on ferroics and multiferroics
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (Lunch served from 11:30 - 1:30)
2:00 pm to 4:00 pm	Poster Session at ESB Courtyard
4:00 pm to 4:30 pm	Break
4:30 pm to 6:00 pm	Silvia Picozzi, INFN - Ab-initio approach to magnetically-induced ferroelectricity in multiferroics
6:00 pm and Onward	Dinner at De La Guerra Dining Commons (Dinner served between 5:45 - 7:15)

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July 20 – August 2, 2008

Wednesday, July 30, 2008 – Engineering Sciences Building, Room 1001	
7:30 am to 8:30 am	Breakfast at De La Guerra Dining Commons
8:30 am to 10:00 am	Jan Musfeldt, University of Tennessee – Magnetoelastic interactions in multiferroics: What the experiments show
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Maxim Mostovoy, University of Groningen - Introduction to theory of multiferroic and magnetoelectric materials, part 2
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (Lunch served from 11:30 - 1:30)
2:00 pm to 4:00 pm	Update Wikipedia
4:00 pm to 4:30 pm	Break
4:30 pm to 6:00 pm	Ichiro Takeuchi, University of Maryland - Exploration of multiferroic materials using the combinatorial strategy: discovery of a morphotropic phase boundary in a Pb-free piezoelectric perovskite
6:00 pm and Onward	Dinner at De La Guerra Dining Commons and Free Time (Dinner served from 5:45 - 7:15)
Thursday, July 31, 2008 - Engineering Sciences Building, Room 1001	
7:30 am to 8:30 am	Breakfast at De La Guerra Dining Commons
8:30 am to 10:00 am	Kee Hoon Kim, Seoul National University - High magnetic field investigations of multiferroics up to 45 T: methodology and surprises
10:00 am to 10:30 am	Break
10:30 am to 12:00 pm	Thomas Lottermoser, University of Bonn – Nonlinear optics on ferroics and multiferroics
12:00 pm to 2:00 pm	Lunch at De La Guerra Dining Commons (Lunch served from 11:30 – 1:30)
2:00 pm to 4:00 pm	Update Wikipedia
4:00 pm to 4:30 pm	Break
4:30 pm to 6:00 pm	Bernd Lorenz, University of Houston - Competing interactions, magnetic frustration, the “Devil’s Staircase”, and other exotic phenomena – How they become real in multiferroic compounds
6:00 pm and Onward	Dinner at De La Guerra Dining Commons and Free Time (Dinner served from 5:45 – 7:15)
Friday, August 1, 2008 - Engineering Sciences Building, Room 1001	
7:15 am to 8:30 am	Breakfast at Carrillo Dining Commons
8:30 am to 10:00 am	Silvia Picozzi, INFN - Electronic degrees of freedom as novel routes towards improper ferroelectricity in multiferroics: charge and orbital ordering
10:00 am to 10:30 am	Break

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10:30 am to 12:00 pm	Jan Musfeldt, University of Tennessee - Nanoscale multiferroics
12:00 pm to 2:00 pm	BBQ Lunch at Goleta Beach, Area A
2:00 pm and Onward	Dinner at De La Guerra Dining Commons and Free Time (Dinner served between 5:45 – 7:15)
Saturday, August 2, 2008	
7:15 am to 9:00 am	Breakfast at Carrillo Dinning Commons
8:00 am to 12:00 pm	Check Out from Manzanita Village