ICMR Summer Workshop on Frontiers of Complex Oxides University of California, Santa Barbara July 6 – July 11, 2008

Sunday July 6, 2008 – Lagoon Plaza, UCEN			
6:00 pm to 8:00 pm	Reception and Registration		
Monday, 、	Monday, July 7, 2008 – Engineering Sciences Building, Room 1001		
Note: Breakfast each day will be in the dining commons for dorm dwellers or at the Best Western South Coast Inn for hotel dwellers			
9:00 am to 9:15 am	Nicola Spaldin, ICMR Director – Introduction		
	SESSION I GROWTH.		
9:15 am to 9:45 am	DISCUSSION LEADER Art Ramirez		
9:45 am to 10:30 am	Maarit Karppinen, Helsinki University of Technology – New Material Synthesis and Surface Engineering by Atomic Layer Deposition		
10:30 am to 11:00 am	Coffee Break		
11:00 am to 11:45 am	Darrell Schlom, Penn State University – A Thin Film Approach to Engineering Functionality into Oxides		
11:45 am to 12:30 pm	Masaki Azuma, Kyoto University – Charge and Orbital Orderings in Some New Oxides		
12:30 pm to 1:30 pm	Lunch at ESB		
AFTERNOON SESSION WILL TAKE PLACE AT THE MSI BUILDING RM 1302			
1:30 pm to 2:00 pm	Jam Session: What new growth capabilities would be useful?		
	SESSION II. PHENOMENA. Discussion Leader: Hide Takagi		
2:00 pm to 2:45 pm	Arunava Gupta, University of Alabama - Double Perovskite Thin Films and Heterostructures		
2.45 pm to 3.30 pm	Yoshi Tokura, University of Tokyo - Dynamical Magnetoelectric Effect in Oxide Multiferroics		
3.30 pm to 3.50 pm	Seung-Hun Lee, University of Virgina - Quantum Spin Dimer System Ba3Cr2O8		
4:00 pm to 6:00 pm	Poster Session / Discussion time (MRL Ground Floor Patio)		
6:15 pm	Dinner (Goleta Beach BBQ)		

Tuesday, July 8, 2008 – Engineering Sciences Building, Room 1001		
	SESSION III DEFECTS	
9:00 am to 9:30 am	DISCUSSION LEADER Susanne Stemmer	
9:30 am to 10:15 am	Matt McCluskey, Washington State University – Hydrogen in Bulk and Nanoscale Zinc Oxides	
10:15 am to 10:45 am	Break	
10:45 am to 11:30 am	David Keeble, University of Dundee – Point Defect Characterisation in Perovskite Oxides	
11:30 am to 12:15 pm	Larry Halliburton, West Virginia University – Use of Photoinduced Electron Paramagnetic Resonance to Investigate Donors and Acceptors in ZnO	
12:15 pm to 1:45 pm	Lunch at ESB	
1:45 pm to 2:00 pm	Regina Dittmann, Julich – Resistive Switching in Complex Oxides	
2.00 pm to 2.45 pm	David Look, Wright State University– Conduction in ZnO and Other Oxides; Defects and Impurities	
3:00 pm to 3:30 pm	Break	
3:30 pm to 4:15 pm	Masaki Kawasaki, Tohoku University– ZnO-based Heterostructures	
4:15 pm to 6:00 pm	Poster Session / Discussion time (ESB)	
6:00pm	Dinner at ESB	
Wednesday, July 9, 2008 – Engineering Sciences Building, Room 1001		
	SESSION IV: OXIDE-OXIDE INTERFACES	
9:00 am to 9:30 am	DISCUSSION LEADER: Harold Hwang	
9:30 am to 10:30 am	PLENARY LECTURE Herb Kroemer, UCSB– A Look Across the Fence: Interface Issues in Conventional Semiconductors	
10:30 am to 11:00 pm	Break	
11.00 am to 11.45 am	Jochen Mannhart, University of Augsburg – 2-DEGs in Oxide Heterostructures	
11.45 am to 12.30 pm	Jacques Tchakalian, University of Arkansas – Orbital Reconstruction, Covalent Bonding and Magnetiem at an Oxide Interface	
12:30 pm to 1.45 pm	Lunch at ESB	
1:45 pm to 2:30 pm	Josep Fontcuberta, Barcelona – Phase Seperation in (001) and La_2/3 Ca_1/3 Mn0_3 Epitaxial Thin Films	

2.30 pm to 2.50 pmAnand Bhattacharya, Argonne National Lab - Digital superlatices of LaMnO ₂ /SMnO ₅ : Ordered Analogs and Interfacial Reconstruction2.50 to 3.15 pmBreak3.15 pm to 4:00 pmDespina Louca, University of Virgina - Tb ₃ (Ga/Fe) ₅ O ₁₂ gamet which is both delectric and frustrated4:00 pm to 6.00 pmPoster Session / Discussion time (ESB)6:00 pmDinner (Banquet at Faculty Club)Thursday, July 2008 – Engineering Sciences Building, Room 1001SESSION V. THEORYSession / Discussion time (ESB)9:00 am to 9:30 amDISCUSSION LEADER: Nicola Spaldin9:30 am to 10:10 amElbio Dagotto, University of Tennessee and Oakridge National Lab - Recent Computational Results for Models of Strongly Correlated Electrons10:10 am to 10:40 amBreak11:20 am to 12:00 pmClaude Ederer, Trinity College Dublin – Towards a Many-Body Theory for Real Materials11:20 am to 12:00 pmTanusri Saha-Dasgupta, Bose Center – Fascinating World of Double Perrovskites11:30 pm to 2:10 pmLunch at ESB2:10 pm to 2:50 pmDavid Vanderbilt, Rutgers University – First Principals Approach to Magnetically – Induced Ferroelectricity in TbMn032:20 pm to 3:20 pmBreak3:20 pm to 4:00 pmMaxim Mostovoy, University of Groningen – Magnetoelectric Behavior			
3.15 pm to 4:00 pm Despina Louca, University of Virgina - Tb ₃ (Ga/Fe) ₃ O ₁₂ garnet which is both dielectric and frustrated 4:00 pm to 6.00 pm Poster Session / Discussion time (ESB) 6:00 pm Dinner (Banquet at Faculty Club) Thursday, July 10, 2008 – Engineering Sciences Building, Room 1001 SESSION V. THEORY 9:00 am to 9:30 am DISCUSSION LEADER: Nicola Spaldin 9:30 am to 10:10 am Elbio Dagotto, University of Tennessee and Oakridge National Lab – Recent Computational Results for Models of Strongly Correlated Electrons 10:10 am to 10:40 am Break 10:40 am to 11:20 am Claude Ederer, Trinity College Dublin – Towards a Many-Body Theory for Real Materials 11:20 am to 12:00 pm Tarusri Saha-Dasgupta, Bose Center – Fascinating World of Double Perovskites 12:00 pm to 1:30 pm Lunch at ESB AFTERNOON SESSION WILL TAKE PLACE AT THE MSI BUILDING RM 1302 1:30 pm to 2:10 pm Silvia Picozzi, INFN – First Principals Approach to Magnetically – Induced Ferroelectricity in Manganites 2:10 pm to 3:20 pm David Vanderbilt, Rutgers University – First Principals Study of Improper Ferroelectricity in TbMn03 2:20 pm to 4:00 pm David Komskii, University of Koln – Spontaneous Currents and Polarization in Mott Insulators: Are Electrons Really localized? 4:00 pm to 4:40 pm Maxim Mostovoy,	2.30 pm to 2.50 pm		
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5:15 pm Free Evening	4.40 pm to 5.00 pm		
	5:15 pm	Free Evening	

Friday, July 11, 2008 – Engineering Sciences Building, Room 1001		
9:00 am to 9:30 am	DISCUSSION LEADER R. Ramesh	
9:30 am to 10:15 am	Agnes Barthelemey, Thales University – Oxide Heterostructures for Spintronics	
10:15 am to 10:45 am	Break	
10:45 am to 11:30 am	Stuart Parkin, IBM - Ferromagnetism in nitrogen doped magnesium oxide	
11:30 am to 12:00 pm	Jam Session	
12:00 pm	Lunch at ESB	
4pm Materials Department Colloqium, Joerg Heber, How to get published in Nature Materials		