Advances in oxide materials: Preparation, properties, performance – The Summer School [ESB 1001 UCSB]		
Computational tools for functional oxide materials: An introduction for experimentalists		
Monday 25th August Morning		
9:00 am to 10:30 am	**Ram Seshadri**	Crystal structures and electron counts
10:30 am to 11:00 am	Coffee Break	
11:00 am to 12:30 pm	**Matt Rosseinsky**	Some properties of crystals
Monday 25th August Afternoon [Lunch at the de la Guerra Dining Commons]		
2:00 pm to 3:30 pm	**David J. Singh**	Magnetic materials and magnetic exchange interactions from first principles
3:30 pm to 4:00 pm	Coffee Break	
4:00 pm to 5:30 pm	**Nicole Benedek**	Ferroelectrics
Tuesday 26th August Morning		
9:00 am to 10:30 am	**Nicole Benedek**	Exploring phase transitions from first principles
10:30 am to 11:00 am	Coffee Break	
11:00 am to 12:30 pm	**James Rondinelli**	Simulating strain effects and coupled electron-lattice interactions
Tuesday 26th afternoon: Barbecue at Goleta Beach		
Wednesday 27th August Morning		
9:00 am to 10:30 am	**David J. Singh**	Introduction to DFT, LAPW, and plane wave methods
10:30 am to 11:00 am	Coffee Break	
11:00 am to 12:30 pm	**James Rondinelli**	Computational tools for correlated and functional oxide discovery
Wednesday 27th August Afternoon: Lunch at the de la Guerra Dining Commons, followed by the Workshop at 2:00 pm		
Supported by: *International Center for Materials Research at UCSB, the Materials Research Laboratory: An NSF MRSEC, EPSRC Programme Grant "Chemical Synthesis of Transformative Extended Materials" at the University of Liverpool, and APL Materials (American Institute of Physics).*		

Advances in oxide materials: Preparation, properties, performance – The Workshop [ESB 1001 UCSB]		
Wednesday 27th August Afternoon		
2:00 pm to 2:30 pm	**Analytis, James**	A new spin-anisotropic harmonic honeycomb iridate
2:30 pm to 3:00 pm	**Attfield, Paul**	Orbital molecules in electronic oxides
3:00 pm to 3:30 pm	**Woodward, Patrick M.**	Synthesis and magnetic properties of osmate double perovskites
3:30 pm to 4:00 pm	Coffee Break	
4:00 pm to 4:30 pm	**Benedek, Nicole**	Ferroelectrics to fuel cells: In search of design principles for the ionic transport properties of complex oxides
4:30 m to 5:00 pm	**Cheetham, Anthony K.**	*TBA*
5:00 pm to 5:30 pm	**Dawber, Matthew**	Engineering new properties in ferroelectric oxide superlattices
5:30 pm to 6:00 pm	**Hiroi, Zenji**	Metal-insulator transitions in transition metal oxides
Thursday 28th August Morning		
9:00 am to 9:30 am	**Driscoll, Judith**	Strongly enhanced functionalities at vertical interfaces formed by self assembly in epitaxial nanocomposite films
9:30 am to 10:00 am	**Jackeli, George**	Magnetic order and excitations in insulating iridates
10:00 am to 10:30 am	**Lanzara, Alessandra**	Non equilibrium momentum dependent dynamic of high temperature superconductors
10:30 am to 11:00 am	Coffee Break	
11:00 am to 11:30 am	**Leighton, Chris**	Complex magnetotransport phenomena in ultra-thin film $La_{0.5}Sr_{0.5}CoO_{3-\delta}$ on $SrTiO_3$
11:30 am to 12:00 noon	**Levy, Jeremy**	Nanoscale phenomena in oxide heterostructures
12:00 noon to 12:30 pm	**Mandrus, David**	Doping and ultrasound studies of the structural phase transition in $EuTiO_3$
Thursday 28th August Afternoon [Lunch at the de la Guerra Dining Commons]		
2:00 pm to 2:30 pm	**Mitchell, John**	Honeycomb-layer iridates: Synthesis and properties beyond Na_2IrO_3
2:30 pm to 3:00 pm	**Ramesh, Ramamoorthy**	*E*–field control of magnetism using multiferroics
3:00 pm to 3:30 pm	**Rjinders, Guus**	Engineering functional properties in epitaxial oxide heterostructures
3:30 pm to 4:00 pm	Coffee Break	
4:00 pm to 4:30 pm	**Rondinelli, James**	Designing unusual phases in complex oxides using the versatile abilities of lattice instabilities
4:30 pm to 5:00 pm	**Rosseinsky, Matthew**	Computationally assisted identification of functional inorganic materials
5:00 pm to 5:30 pm	**Schlom, Darrell**	An interface engineering approach to room temperature magnetoelectric multiferroics in ferrite superlattices
5:30 pm to 6:00 pm	**Shimakawa, Yuichi**	Multiple magnetic interactions in ordered perovskite-structure oxides
Friday 29th August Morning		
9:00 am to 9:30 am	**Sinclair, Derek**	Fast ion conduction in $(Na_{1/2}Bi_{1/2})TiO_3$
9:30 am to 10:00 am	**Singh, David J.**	Tunability of the electronic and optical properties of stannate perovskites and their heterostructures
10:00 am to 10:30 am	**Seshadri, Ram**	Computational and data-driven approaches to oxide thermoelectrics
10:30 am to 11:00 am	Coffee Break	
11:00 am to 11:30 am	**Stemmer, Susanne**	Controlling strong electron correlations with oxide heterostructures
11:30 am to 12:00 noon	**Subramanian, M. A.**	New pigments based on transition metal oxides
12:00 noon to 12:30 pm	**Takano, Mikio**	Little-known Fe-oxides: Bacterial oxides and ozonized oxides
Friday 29th August Afternoon [Lunch at the de la Guerra Dining Commons]		
2:00 pm to 2:30 pm	**Wiebe, Chris**	The role of broken symmetry in the multiferroic dugganites $A_3TeX_3Z_2O_{14}$ (A = Ba, Pb, K; X = Co, Mn, Fe; Z = V, P)
2:30 pm to 3:00 pm	**Wilson, Stephen**	Exploring the magnetic ground state of a hyper-Kagome lattice of *J*=1/2 moments in a correlated iridate
3:00 pm to 6:00 pm	**Poster session**	
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