
International Workshop on Complex Oxides

Santorini 3 in Cyprus

Protaras, Cyprus

Technical Program

Monday, May 19

17:00 Registration opens

19:00 *Reception at Constantinos the Great Beach Hotel, Protaras*

Tuesday, May 20

Session 1

9:00 – 9:30 Jacobo Santamaria “Ferroelectric control of Spin transport in multiferroic tunnel junctions”

9:30 – 10:00 John Mitchell “Quo Vadis, Iridates”

10:00-10:30 Stratos Manousakis “Optoelectronic excitations in transition metal oxides”

10:30-11:00 *Coffee Break*

11:00-11:30 Ward Plummer “Atomic-Scale fingerprint of Mn Dopant at the Surface of $\text{Sr}_3(\text{Ru}_{1-x}\text{Mn}_x)_2\text{O}_7$ ”

11:30-12:00 Gustau Catalan “Giant piezoresistance in oxide thin films”

12:00-12:30 Hans Boschker “Interface superconductivity with gap behavior like a high temperature superconductor”

12:30-13:00 Matteo Montagnese “Accessing phonon-magnon interaction in low dimensional quantum magnets with dynamic heat transport measurements”

13:00-16:00 *Lunch Break*

16:00-16:30 *Coffee*

Session 2

16:30-17:00 Antoine Maignan “Magnetoelectric complex oxides: some examples of chromites and cobaltites”

17:00-17:30 John Giapintzakis “Resistive switching in LiCoO₂ thin films”

17:30-18:00 Maria Jose Calderon “Two-dimensional ferromagnetic electron gas at La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ interface”

18:00-18:30 Stephan Rosenkranz “Suppression of CDW order in NbSe₂: short-range order, phase coherence and the role of phase fluctuation on ‘pseudogap’ behavior”

Wednesday, May 21

Session 3

9:00-9:30 Maria Varela “Oxygen vacancy ordering: effects on the properties of thin films”

9:30-10:00 Suzanna Stemmer “Strong electron correlation physics in oxide quantum wells”

10:00-10:30 Guus Rijnders “Defect engineering in complex oxide heterostructures”

10:30-11:00 *Coffee Break*

11:00-11:30 George Sawatzky “The explicit role of O 2p states in high oxidation state transition metal oxides”

12:00-12:30 Stuart Parkin “Ionic liquid gate induced metallization”

12:30-13:00 Marcelo Rozenberg “Dielectric breakdown in narrow-gap Mott insulators”

13:00-16:00 *Lunch Break*

16:00-16:30 *Coffee*

Session 4

- 16:30-17:00 Silvia Picozzi “Coupling between spin and dipolar degrees of freedom in oxide systems”
- 17:00-17:30 Robert Klie “Scanning transmission electron microscopy of complex oxide interfaces”
- 17:30-18:00 Javier Junquera “Increasing the capacitance beyond the classical limits in capacitors with free-electron like electrodes”
- 18:00-18:30 Andrea Damascelli “Charge order, Fermi-Arc instability and d-wave bond order in underdoped cuprates”

Thursday, May 22

Session 5

- 9:00 – 9:30 Rossitza Pentcheva “Dirac fermions and Mott insulating states in (111) oriented perovskite superlattices”
- 9:30 – 10:00 Max Stengel “Flexoelectricity via coordinate transformation”
- 10:00-10:30 Carlos Leon “Oxide ion transport across grain boundaries”
- 10:30-11:00 *Coffee Break*
- 11:00-11:30 Despina Louca “Suppression of magnetic coupling by in-plane buckling in Sr FeO_x”
- 11:30-12:00 Richard Haglund “Vanadium dioxide at the interface with plasmonics and photonics”
- 12:00-12:30 Katherine Doerr “Haile strain-controlled domain dynamics in PbZrO”
- 12:30-13:00 Manuel Bibes “Electric-field control of magnetic order just above room temperature”
- 13:00-16:00 *Lunch Break*

16:0-16:30 *Coffee*

Session 6

16:30-17:00 Matthew Zervos “Group III and IV ternary metal oxide nanowires: growth and properties”

17:00-17:30 Miyoung Kim “Nanoscale spin-state ordering in LaCoO₃ epitaxial thin films”

17:30-18:00 Anand Bhattacharya “Tailoring Polar Oxides”

18:00-18:30 Michel Viret “BiFeO₃ a true multifunctional oxide”

19:30 *Banquet*

Friday, May 23

Session 7

9:00-9:30 Yusuke Kozuka “Quantum transport phenomena at oxide heterointerfaces”

9:30-10:00 Jaime Fernandez-Baca “Spin dynamics of multiferroic materials studied neutron scattering”

10:00-10:30 Satoshi Okamoto “Interface engineering: a novel quantum phenomenon”

10:30-11:00 *Coffee Break*

11:00-11:30 Jay Narayan “Functional Epitaxial Heterostructures of Complex Oxides”

11:30-12:00 Takeshi Egami “Local atomic structure of NaNbO₃”

12:00-12:30 Steve Pennycook “Imaging Octahedral Distortions with the Next Generation Microscope”

12:30-13:00 Sokrates Pantelides “Structure, stability, and phase transitions in TMOs”

END OF WORKSHOP

NOTE: All lectures are in Constantinos the Great Beach Hotel, Protaras