

Oral Sessions

Monday, September 20

8:45-9:00	Opening Remarks	
Oral-1: Correlated systems-I Chair: M. Kawasaki		
9:00-9:30	Invited Oral	"Unusual Manifestations of Ferroelectric Order in Multiferroics" M. Fiebig, University of Bonn, Germany
9:30-9:45	Contributing Oral	"Free-standing structures of epitaxial correlated oxides: a role towards all-oxide MEMS devices" L. Pellegrino, CNR-SPIN, Italy
9:45-10:00	Contributing Oral	"Beyond linear magneto-optics in ferromagnetic oxides" G. Herranz, ICMB-CSIC, Spain
10:00-10:30	Coffee break	
Oral-2: Ferroelectrics-I Chair: M. Fiebig		
10:30-11:00	Invited Oral	"Experimental observation of crystallization of paired holon state in a model high-Tc compound" A. Rusydi, National University of Singapore, Singapore
11:00-11:15	Contributing Oral	"Universal behavior in structural and ferroelectric properties for RE-substituted BiFeO3 thin films" D. Kan, University of Maryland, USA
11:15-11:30	Contributing Oral	"Strain-induced Mophotropic phase boundary of multiferroic BiFeO3 thin film on silicon substrate" W. -I. Liang, National Chiao Tung University, Taiwan
11:30-13:00	Lunch	
13:00-14:30	Poster session-I	
Oral-3: Devices and applications-I Chair: D. Blank		
14:30-15:00	Invited Oral	"Surface Property of C12A7 Electrides" H. Hosono, Tokyo Institute of Technology, Japan
15:00-15:15	Contributing Oral	"Diffusion driven self organization of SrRuO3 nanowires on ordered surface terminations" G. Koster, University of Twente, The Netherlands
15:15-15:30	Contributing Oral	"Field-Induced Water Electrolysis Switches SrTiO3 from an Insulator to a Metal" H. Ohta, Nagoya University, Japan

15:30-15:45	Contributing Oral	"Interfacial redox reactions at Al/perovskite oxides heterojunctions showing resistive switching" Taiki Yamamoto , The University of Tokyo, <i>Japan</i>
15:45-16:15	Coffee break	
Oral-4: Oxide heterostructures and interfaces-I Chair: T. W. Noh		
16:15-16:45	Invited Oral	"Fractional Quantum Hall Effect at the (MgZn)O/ZnO Interfaces" M. Kawasaki , Tohoku University, <i>Japan</i>
16:45-17:15	Invited Oral	Y. Dagan , Tel Aviv University, <i>Israel</i>
17:15-17:30	Contributing Oral	"Two-dimensional quantum oscillations and spin-orbit interaction in LaAlO3/SrTiO3 interfaces" A. Caviglia , University of Geneva, <i>Switzerland</i>
17:30-17:45	Contributing Oral	"Influence defects in two-dimensional electron gases based on the LaAlO3/SrTiO3 interface" T. Fix , University of Cambridge, <i>United Kingdom</i>
17:45-18:00	Contributing Oral	"Charge writing at the LaAlO3/SrTiO3 surface" Y. W. Xie , The University of Tokyo, <i>Japan</i>
18:00-18:15	Contributing Oral	"Interface preferential band occupation in La2/3Sr1/3MnO3 films by angle resolved photo-emission spectroscopy" A. Tebano , Università di Roma Tor Vergata, <i>Italy</i>

Tuesday, September 21

Oral-5: Correlated electron systems-II Chair: C. -B. Eom		
9:00-9:30	Invited Oral	"First principles simulations on insulating/insulating and insulating/metal oxide interfaces" J. Junquera , Universidad de Cantabria, <i>Spain</i>
9:30-9:45	Contributing Oral	"Evolution of the band alignment with interfacial composition and magnetic order at the interface of a hole-doped Lanthanum manganite, La _{1-x} A _x MnO ₃ and SrTiO ₃ " J. D. Burton , Nebraska Center for Materials and Nanoscience, <i>USA</i>
9:45-10:00	Contributing Oral	"Fabrication and physical properties of antiferromagnetic double Perovskite compound Sr _{2-x} La _x VMoO ₆ " K. Ueda , Nagoya University, <i>Japan</i>
10:00-10:15	Contributing Oral	"Defect energy levels at Al/Pr _{0.8} Ca _{0.2} MnO ₃ interfaces exhibiting resistance switching determined by deep level transient spectroscopy" I. Ohkubo , The University of Tokyo, <i>Japan</i>

10:15-10:45	Coffee break	
Oral-6: Ferroelectrics-II Chair: J. Junquera		
10:45-11:15	Invited Oral	"Electron Charge Density Study of Perovskite-type Ferroelectric Oxides in Cubic Structure" Y. Kuroiwa, Hiroshima University, Japan
11:15-11:30	Contributing Oral	"High-Performance Bi-Based Ferroelectric Single Crystals Grown High-Oxygen Pressure Top-Seeded Solution Growth Method" Y. Noguchi, The University of Tokyo, Japan
11:30-11:45	Contributing Oral	"Unveiling the ac Dynamics of Ferroelectric Domains by Investigating the Frequency Dependence of Hysteresis Loops" S. M. Yang, Seoul National University, Korea
11:45-12:00	Contributing Oral	"Nanoscale studies ferroelectric domains and domain walls" P. Paruch, University of Geneva, Switzerland
12:00-13:30	Lunch	
13:30-15:00	Poster session-II	
Oral-7: Devices and applications-II Chair: J. -M. Triscone		
15:00-15:30	Invited Oral	"Switchable magnetization and polarization in multiferroic exchange-biased structures and films" J. Fontcuberta, ICMB-CSIC, Spain
15:30-15:45	Contributing Oral	"Coexistence of filamentary and homogeneous resistive switching in Fe-doped SrTiO3 thin film memristive devices" R. Dittmann, Research Center Juelich, Germany
15:45-16:00	Contributing Oral	"Resistive Switching Memory Effects in a Single Oxide Nanowire" T. Yanagida, Osaka University, Japan
16:00-16:15	Contributing Oral	"Resistance switching effect in the cuprate heterostructures" Y. G. Zhao, Tsinghua University, China
16:15-16:30	Contributing Oral	"Oxide initiative to make the dream of "Sahara solar breeder plan" come true" H. Koinuma, The University of Tokyo, Japan
16:30-17:00	Coffee break	
Oral-8: Oxide heterostructures and interfaces-II Chair: M. Koinuma		
17:00-17:30	Invited Oral	Y. Tokura, The University of Tokyo, Japan
17:30-17:45	Contributing Oral	"Towards Spin Injection in LaAlO3/SrTiO3 Heterostructures" N. Reyren, Unité mixte de physique CNRS/Thales, France
17:45-18:00	Contributing Oral	"The influence of the structure and quality of SrTiO3 on the SrTiO3-LaAlO3 interface properties" J. E. Kleibeuker, G. Rijnders, University of Twente, The Netherlands

18:00-18:15	Contributing Oral	"Growth dynamics and interfacial properties of band insulating oxides heterostructures" C. Aruta , Università di Napoli "Federico-II", <i>Italy</i>
18:15-18:30	Contributing Oral	"Atomic structural change induced by Sr/Ti off-stoichiometry of SrTiO ₃ homoepitaxial thin films grown by pulsed laser deposition" Takahisa Yamamoto , The University of Tokyo, <i>Japan</i>
19:00-	<i>Banquet</i>	

Wednesday, September 22

Oral-9: Correlated electron systems-III Chair: C. Ahn		
8:30-9:00	Invited Oral	"Electron correlations in artificial structures of complex materials" A. Rüegg , ETH Zurich, <i>Switzerland</i>
9:00-9:15	Contributing Oral	"Nanostrutured functional oxides for future optoelectronics and energy-related nanodevices" R. Nechache , Matériaux et Télécommunications, <i>Canada</i>
9:15-9:30	Contributing Oral	"Resonant charged carrier-phonon coupling in complex oxide heterostructures" Y. Segal , Yale University, <i>USA</i>
9:30-9:45	Contributing Oral	"Misfit Strain Accommodation in Epitaxial ABO ₃ Perovskites: BO ₆ Octahedral Rotations and Lattice Modulations" A. Vailionis , Stanford University, <i>USA</i>
9:45-10:15	<i>Coffee break</i>	
Oral-10: Ferroelectrics-III Chair: T. Kawai		
10:15-10:45	Invited Oral	"Ferroelastic switching for nanoscale nonvolatile magnetoelectric devices" C. -B. Eom , University of Wisconsin-Madison, <i>USA</i>
10:45-11:00	Contributing Oral	"Epitaxial control of periodic lattice distortions in Perovskite thin films" J. E. Boschker , Norwegian University of Science and Technology, <i>Norway</i>
11:00-11:15	Contributing Oral	"Interface effects in BiFeO ₃ -LaFeO ₃ superlattices" G. Rispens , University of Geneva, <i>Switzerland</i>
11:15-11:30	Contributing Oral	"Static and Dynamic Properties of Ferroelectric Domains in PbTiO ₃ /SrTiO ₃ Superlattices" P. Zubko , University of Geneva, <i>Switzerland</i>
11:30-11:45	<i>Closing Remarks & Prize Presentin</i>	