

Wednesday 26th Domain Walls	Thursday 27th Materials& Properties	Friday 28th Vortices and Domains
08:45 <b>Opening/Welcome</b>		
<b>SESSION W I (09:00 - 10:30)</b> <b>Chair: J.F. Scott</b>	<b>SESSION Th I (09:00 - 10:30)</b> <b>Chair: P. Paruch</b>	<b>SESSION F I (09:00 - 10:30)</b> <b>Chair: M. Stengel</b>
09:00 Exotic Functionality Associated with Charged Domain Walls in Ferroelectrics <b>M. Gregg</b>	09:00 Bulk and Flexo-Photovoltaic Effects <b>M. Alexe</b>	09:00 First-principles predictions of domain walls with tailored functional and topological properties <b>J. Iñiguez</b>
09:30 Advanced functional properties at improper ferroelectric domain walls <b>D.Meier</b>	09:30 Optically-Induced Polarization Switching in MoS <sub>2</sub> /BaTiO <sub>3</sub> heterostructures <b>A. Gruverman</b>	09:30 Bubble domains and topological phase transitions in ultrathin ferroelectric films <b>N. Valanoor</b>
10:00 Anomalous Domain Wall Motion in Cu-CI Boracite: Negative permittivity in an improper ferroelectric? <b>J. G. M. Guy</b>	10:00 Light-induced Reversible Control of Ferroelectric Domains <b>M-M. Yang</b>	10:00 Non-Ising and Chiral ferroelectric domain walls: insights from non-linear optical microscopy <b>S. Cherifi-Hertel</b>
10:15 Electric-field poling of an improper ferroelectric <b>S. Krohns</b>	10:15 Low-Energy polar domain walls in halide perovskites <b>A. Warwick</b>	10:15 Probing the Atomic Structure and Dynamic Behavior of Polar Vortex by Advanced Electron Microscopy <b>P. Chen</b>
10:30 <b>COFFEE BREAK (45 min) /Poster Session</b>	10:30 <b>COFFEE BREAK (45 min) /Poster Session</b>	10:30 <b>COFFEE BREAK (45 min) /Poster Session</b>
<b>SESSION W II(11:15 - 13:00)</b> <b>Chair: E. Salje</b>	<b>SESSION Th II (11:15 - 13:00)</b> <b>Chair: B. Noheda</b>	<b>SESSION F II (11:15 - 13:00)</b> <b>Chair: N. Bassari-Gharb</b>
11:15 Roles of oxygen vacancies at multiferroic interfaces in magnetic tunnel junctions <b>J. Santamaria</b>	11:15 Imaging Current distribution near the M-I transition in LAO/STO <b>E. Persky</b>	11:15 Universality of Topological Vortex Domains <b>S.W. Cheong</b>
11:45 Polarisation and octahedral tilting at La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> -PbTiO <sub>3</sub> interfaces in ferroelectric tunnel junctions <b>J. Peters</b>	11:45 In-situ imaging of electric field-induced ferroelastic domain motion in SrTiO <sub>3</sub> <b>B. Casals</b>	11:45 Controlling vortex-like patterns in ferroelectric-composite films <b>J. Mangeri</b>
12:00 Nanoscale domain clustering in tetragonal BaTiO <sub>3</sub> : Hysteresis loops and domain switching <b>J. Očenášek</b>	12:00 Enhanced ferroelectric domain wall motion in thin film hafnia-zirconia (HZO) on inorganic flexible substrates <b>A. Hsain</b>	12:00 MFM imaging of skyrmions at room temperature <b>E. Berganza</b>
12:15 The ferroelectric domain wall phonon polarizer <b>M. Royo</b>	12:15 DFT study of point defects at domain walls in YMnO <sub>3</sub> <b>S.M. Selbach</b>	12:15 Skyrmions and Bloch Walls in Ferroelectrics <b>J. Hlinka</b>
12:30 New Domain Studies in Ferroelectrics <b>J.F. Scott</b>	12:30 2D magnetic domain wall ratchet: the limit of submicrometric holes <b>J. Herrero-Albillos</b>	12:30 Configurable Domain Textures in Strain Graded Ferroelectric Nanoplates <b>C.H. Yang</b>
13:00 <b>LUNCH (1 h 45 MIN)</b>	13:00 <b>LUNCH (1 h 45 MIN)</b>	13:00 <b>LUNCH (1 h 45 MIN)</b>
<b>SESSION W III (15:00 - 16:15)</b> <b>Chair: I. Arias</b>	<b>SESSION Th III (15:00 - 16:15)</b> <b>Chair: M. Alexe</b>	<b>SESSION F III (15:00 - 16:15)</b> <b>Chair: Z.G. Ye</b>
14:45 "One sees qualities at a distance and defects at close range": local and macroscale effects of defects on ferroelectric polarisation and domain walls <b>P. Paruch</b>	14:45 A rhombohedral ferroelectric phase in epitaxially-strained Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> thin films <b>B. Noheda</b>	14:45 Seeing is believing: Watching Domain Walls @ Work <b>L. Eng</b>
15:15 Selective control of ferroelectric polarization in thin films using trailing flexoelectric field <b>S.M. Park</b>	15:15 Designer defect stabilization of the super tetragonal phase in >70-nm-thick BiFeO <sub>3</sub> films on LaAlO <sub>3</sub> substrates <b>Bulanadi</b>	15:15 Digital Holographic tomograph for three-dimensional observations of domain structures in ferroelectric single crystals <b>P. Mokry</b>
15:30 Mechanically soft domain walls in ferroelectrics <b>C. Stefani</b>	15:30 The effect of Mg-doping towards the enhancement of the ferroelectric properties of epitaxially stabilized thin <b>A. Pignolet</b>	15:30 Advanced Electron Microscopy and Spectroscopy on Ferroic Domains <b>P.Gao</b>
15:45 Bloch lines, vortices and fast kinks: elements of functional domain boundaries <b>E. Salje</b>	15:45 Engineering domain and superdomain architectures in PTO films <b>E. Langenberg</b>	15:45 Domain Shapes of isolated domains in bulk uniaxial ferroelectrics. From convex polygons to domain <b>V. Ya-Shur</b>
16:15 <b>COFFEE BREAK (30min)</b>	16:15 <b>COFFEE BREAK (30min)</b>	16:15 <b>COFFEE BREAK (30min)</b>
<b>SESSION W IV (16:45 - 18:00)</b> <b>Chair: D. Meier</b>	<b>SESSION Th IV (16:45 - 18:00)</b> <b>Chair: A. Gruverman</b>	<b>SESSION F IV (16:45 - 18:00)</b> <b>Chair: L. Eng</b>
16:45 Macroscopic polarization from antiferrodistortive cycloids in SrTiO <sub>3</sub> <b>M. Stengel</b>	16:45 Probing domain wall orientations in ferroelectric superlattices <b>P. Zubko</b>	16:45 Multi-scale Domain Structure and High Piezoelectricity in PbZr <sub>1-x</sub> Ti <sub>x</sub> O <sub>3</sub> (PZT) <b>Z.G. Ye</b>
17:15 The role of flexoelectricity in ferroelectric domain wall fracture <b>I. Arias</b>	17:15 Nonlinear polarization dynamics of relaxor-PT single crystals at cryogenic temperatures <b>L. Riemer</b>	17:15 Study of in-plane domain growth and interaction at non-polar surfaces of Mg-LiNbO <sub>3</sub> <b>D. Alikin</b>
17:30 Modeling low frequency modes, electrostriction and flexoelectricity at ferroelectric domain walls <b>S. Artyurkin</b>	17:30 Electromechanical response of relaxor-ferroelectric solid solutions across the phase diagram <b>N. Bassari-Gharb</b>	17:30 Domain stability at high temperatures in periodically poled Rb-doped KTiOPO <sub>4</sub> <b>H. Kianirad</b>
17:45 Discretization-originated Peierls-Nabarro barriers in phase-field simulations of ferroelectric domain walls <b>P. Marton</b>	17:45 PinPoint Piezo Force Microscopy- frictionless imaging technique <b>L. Weisser</b>	17:45 CLOSING REMARKS

18:30

CULTURAL VISIT MODERNIST  
ARCHITECTURE

20:30

CONFERENCE DINNER