

12:30 - 13:50	LUNCH			
	Room 1	Room 2	Room 3	Room 4
	Domains I	Design and Simulation I	Growth Materials I	Electrocalorics I
<b>KEYNOTE</b> 13:50 - 14:20	<b>258.</b> (INVITED) Domain wall engineering: concept, challenges - <b>Hlinka, Jiri</b>	<b>175.</b> (INVITED) Accelerated discovery and design of ferroelectrics through statistical learning methods - <b>Rajan, Krishina</b>	<b>145.</b> (INVITED) Processing and properties of next generation textured piezoelectric ceramics - <b>Messing, Gary</b>	<b>55.</b> (INVITED) Multicaloric effects in multiferroics - <b>Planes, Antoni</b>
<b>INVITED</b> 14:20 -14:45	<b>418.</b> (INVITED) Towards ferroelectric domain wall electronics - <b>Gregg, Marty</b>	<b>171.</b> (INVITED) Simulation of topological domains in hexagonal RMnO <sub>3</sub> patterns and kinetics of domain walls- <b>Liu, Jun-Ming</b>	<b>361.</b> (INVITED) Optical and electrooptical properties of rare earth doped transparent ferroelectric ceramics - <b>Garcia, Ducinei</b>	<b>395.</b> (INVITED) Some guidelines for improving caloric responses using ferroelectrics - <b>Dkhil, Brahim</b>
14:45 -15:00	<b>368.</b> First-principles theory of domain wall dynamics in improper ferroelectric hexagonal manganites - <b>Artyukhin, Sergey</b>	<b>84.</b> Microscopic origins of the large piezoelectricity of lead-free (Ba,Ca)(Zr,Ti)O <sub>3</sub> - <b>Nahas, Yousra</b>	<b>421.</b> Simulation, Growth and Properties Characterization of Large Size Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> O <sub>3</sub> ) - Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> ) -PbTiO <sub>3</sub> Single Crystal - <b>Xu, Zhuo</b>	<b>64.</b> Antiferroelectric and lead-free ferroelectric materials as electrocaloric coolants - <b>Rozić, Brigita</b>
15:00 -15:15	<b>205.</b> Ultrafast and high-resolution imaging of polarization switching in ferroelectrics - <b>Kalinin, Sergei</b>	<b>152.</b> Correlations in polarization switching kinetics in polycrystalline ferroelectrics - <b>Khachatryan, Ruben</b>	<b>115.</b> Texture engineering: a convenient method to enhance the performance of piezoelectric ceramics - <b>Zhai, Jiwei</b>	<b>291.</b> Effect of Mn-addition on electrocaloric and dielectric properties of 0.9Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> - 0.1PbTiO <sub>3</sub> ceramics - <b>Vrabelj, Marko</b>
15:15-15:30	<b>17.</b> Roles of electronic orbital hybridizations in rare-earth- substituted BiFeO <sub>3</sub> in the vicinity of morphotropic phase boundary - <b>Tu, Chi-Shun</b>	<b>440.</b> Pressure induced switching in ferroelectrics: on the junction between physics and electrochemistry - <b>Cao, Ye</b>	<b>312.</b> Giant piezoelectric voltage coefficient in grain-oriented modified-PbTiO <sub>3</sub> material- <b>Yan, Yongke</b>	129. Understanding the True Electrothermal Response of Ferroelectric Thin Films - <b>Hanrahan, Brendan</b>
15:30 -15:45	<b>137.</b> Impact of flexoelectricity and surface charges on the formation and properties of domain structures in thin ferroelectric films - <b>Vorotiahin, Ivan</b>	<b>92.</b> Designing Lead-Free antiferroelectrics for energy storage - <b>Xu, Bin</b>	<b>340.</b> Understanding processing-structure-property relationships in textured lead-free materials - <b>Maurya, Deepam</b>	<b>138.</b> Electrocaloric Effect, Dielectric, Ferroelectric and Piezoelectric properties in Normal and Relaxor phases of La-doped PZT65/35 - <b>Samanta, Shibnath</b>
15:45 -16:00	<b>319.</b> (INVITED) Structural Characterizations of Hardening in A-site Non-stoichiometric (1-x)Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> - (x)BaTiO <sub>3</sub> Lead Free Piezoelectric Ceramics - <b>Prasertpalichat, Sasiporn</b>	<b>214.</b> Coupling effect in Relaxor-Ferroelectric layered composite – phase field simulation and analytical solution - <b>Wang, Shuai</b>	<b>349.</b> A Novel High Curie Temperature Piezo-/ferroelectric Solid Solution of Bi(Zn <sub>2/3</sub> Ta <sub>1/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> - <b>Yuan, Yi</b>	<b>282.</b> Molten Salt Synthetic Method for Making Perovskite Nanoparticles - <b>Mao, Yuanbing</b>
16:00 -16:20	<b>25.</b> (INVITED) Science and technology of interface-engineered biocompatible piezoelectric oxide/ultranano-crystalline diamond (UNCD (TM) ) films for a new generation of multifunctional/ biomedical MEMS/NEMS devices - <b>Auciello, Orlando</b>	<b>216.</b> Machine Learning guided Computational Search for Ruddlesden-Popper Oxides without Inversion Symmetry - <b>Balachandran, Prasanna V.</b>	<b>164.</b> (INVITED) Electromechanical Characterization of High-Coupling Textured PMN-PT and PMN-PZT Ceramics - <b>Blottman, John</b>	<b>TBD</b>