

KJC-Fe15 Program
- 2026.08.26-29, Chung Kunmo Conference Hall-

Time	Session	Type	Title	Speaker	Duration
Day 0 / Aug 26 (Wed)					
18:00–20:00		Reception	Welcome Reception (Invitation only)	Venue: Lotte City Hotel 18F C'Café	
Day 1 / Aug 27 (Thu)					
08:50–09:10	Chan-Ho Yang / Tomoaki Yamada	Opening	Opening Ceremony		
09:10–09:55	Session P1 Chairs : Sang-Don Bu / Tomoaki Yamada	Plenary	Complex Oxide Heterostructures: Past Advances and Future Frontiers	Chang-Beom Eom (University of Wisconsin-Madison)	45 min
09:55–10:25	Session T1 Functionality & Applications Chairs : Tomoaki Yamada / Jieun Kim	Invited Talk 1	Ferroelectric ion conductors based on metal-cyanide compounds	Ryo Ohtani (Kyushu University)	30 min
10:25–10:55		Invited Talk 2	Atomic-scale design of functional polar states	Daesu Lee (POSTECH)	30 min
10:55–11:20		Break	Coffee Break		25 min
11:20–11:50	Session T2 Functionality & Applications Chairs : Akitoshi Koreeda / Taekjib Choi	Invited Talk 3	Linear and Memristive Electro-Optic Response Mediated by Ferroelastic Domain Wall Motion in Epitaxial Rhombohedral Pb(Zr,Ti)O ₃ Thin Films	Shinya Kondo (Nagoya University)	30 min
11:50–12:05		Oral Talk 1	Adoption of Tin Monoxide on Atomic-Layer Deposited Indium-Gallium-Zinc Oxide Ferroelectric Thin-Film Transistors for Enhanced Program and Erase Operation	Sahngik Aaron Mun (Seoul National University)	15 min
12:05–12:20		Oral Talk 2	Atomistic Insights into Polarity Switching Dynamics in Wurtzite-Type Aluminum Scandium Nitride: A First-Principles Study	Naoki Ohashi (National Institute for Materials Science)	15 min
12:20–14:00		Lunch	Lunch		100 min
14:00–14:30	Session T3 Exploration & Characterization Chairs : Sungkyun Park / Jun Usami	Invited Talk 4	AI for Ferroelectric Materials: From Atomistic Dynamics to Generative Design	Teruyasu Mizoguchi (Tokyo University)	30 min
14:30–15:00		Invited Talk 5	Machine-learning-guided inverse design of lead-free relaxors enabled by multimodal literature mining	Ho Won Jang (Seoul National University)	30 min
15:00–15:15		Oral Talk 3	Antiferroelectricity in Titanite-Type CaTiGeO ₅ Thin Films	Shintaro Yasui (Institute of Science Tokyo)	15 min
15:15–15:30		Oral Talk 4	Discovery of polar monoclinic phase of LaTaO ₄ in Carpy-Galy structure	Yongjin Shin (Dankook University)	15 min
15:30–16:00		Break	Coffee Break		30 min
16:00–18:00	Chairs : Yongsoo Yang / Jieun Kim / Yong-Jin Kim	Poster	Poster Session	Venue: John Hanner Hall	120 min

Day 2 / Aug 28 (Fri)					
09:10–09:55	Session P2 Chairs : Hiroki Taniguchi / Yunseok Kim	Plenary	A Thin-Film Platform with Transformative Potential for Advanced Applications Based on Ferroelectric and Semiconducting Oxides	Norifumi Fujimura (Osaka Metropolitan University)	45 min
09:55–10:25	Session F1 Functionality & Applications Chairs : Hyeon Han / Hiroki Taniguchi	Invited Talk 6	Ferroelectric transistors for low-power NAND flash memory	Sijung Yoo (Samsung Electronics)	30 min
10:25–10:55		Invited Talk 7	Wurtzite-type ferroelectric film fabrication and their characterization	Kazuki Okamoto (Institute of Science Tokyo)	30 min
10:55–11:20		Break	Coffee Break		25 min
11:20–11:50	Session F2 Functionality & Applications Chairs : Hironori Fujisawa / Seung Chul Chae	Invited Talk 8	Polarization Engineering in HfO ₂ -Based Ferroelectric Thin Films: From Low-Field Switching to Self-Powered Deep-Ultraviolet Optoelectronics	Chung Wung Bark (Gachon University)	30 min
11:50–12:05		Oral Talk 5	Domain structure control of epitaxial Pb(Zr,Ti)O ₃ thin films via strain engineering using Sr(Zr,Ti)O ₃ underlying layers	Miki Nakahata (Institute of Science Tokyo)	15 min
12:05–12:20		Oral Talk 6	Dopant-Profile Engineering of Ultrathin Al:HfO ₂ Films for Stress-Mediated Texture Control and Low-Voltage Ferroelectricity	Dong In Han (Seoul National University)	15 min
12:20–14:00		Lunch	Lunch		100 min
14:00–14:30	Session F3 Exploration & Characterization Chairs : Jae-Hyeon Ko / Teruyasu Mizoguchi	Invited Talk 9	High-Throughput Search for Novel Ferroelectrics Using Polarization-Switching Pathway Analysis	Kazuki Shitara (Japan Fine Ceramics Center)	30 min
14:30–15:00		Invited Talk 10	Beyond Harmonicity: Anharmonic Phonons as a Route to Emergent Quantum Functionalities	Jaekwang Lee (Pusan National University)	30 min
15:00–15:15		Oral Talk 7	Data-driven characterization of ferroelectric hysteresis loop in HfO ₂ -based ferroelectrics	Seungjae Heo (Sungkyunkwan University)	15 min
15:15–15:30		Oral Talk 8	Microscopic origin of ferroelectricity in Zn(Ce,Mn)O thin films: XAFS and first-principles study of dopant local environment	Sang Hyo Kweon (Kobe University)	15 min
15:30–16:00		Break	Coffee Break		30 min
16:00–16:30	Session F4 Exploration & Characterization Chairs : Shigeo Mori / Si-Young Choi	Invited Talk 11	Three-Dimensional Polar Topology in Ferroelectric Nanoparticles	Yongsoo Yang (KAIST)	30 min
16:30–17:00		Invited Talk 12	New Wurtzite-type Ferroelectric material: LiGaO ₂	Sou Yasuhara (Institute of Science Tokyo)	30 min
17:00–17:15		Oral Talk 9	Ferroelectric control of tunneling magnetoresistance in multiferroic altermagnets	Se Young Park (Soongsil University)	15 min
17:15–17:30		Oral Talk 10	Anisotropic dielectric response and lattice instabilities in CaTiSiO ₅	Toshiya Uohashi (Nagoya University)	15 min
18:00–20:00		Banquet	Banquet	Venue: John Hanner Hall	120 min

Day 3 / Aug 29 (Sat)					
09:10–09:40	Session S1 Exploration & Characterization Chairs : Takao Shimizu / Yong-Jin Kim	Invited Talk 13	Pyroelectric Measurements as Probes of Polarization States in LiTaO ₃	Jun Usami (National Institute of Advanced Industrial Science and Technology)	30 min
09:40–10:10		Invited Talk 14	Recent exploration of antiferroelectric and ferroelastic titanite-type oxides	Taro Kuwano (Institute of Science Tokyo)	30 min
10:10–10:25		Oral Talk 11	Direct Observation of Ferroelastic Domain-wall Dynamics in a Molecular Ferroelectric	Itsuki Miyamoto (The University of Tokyo)	15 min
10:25–10:40		Oral Talk 12	TEM/STEM observation of the ferroelectric phases in Dion-Jacobson Perovskites	Shigeo Mori (Osaka Metropolitan University)	15 min
10:40–11:00		Break	Coffee Break		20 min
11:00–11:30	Session S2 Functionality & Applications Chairs : Tae Heon Kim / Taro Kuwano	Invited Talk 15	Compositional and Processing Design of Lead-Free (K,Na)NbO ₃ -Based Ferroelectric Dielectrics for MLCC Applications	Miso Kim (KAIST)	30 min
11:30–12:00		Invited Talk 16	Piezoelectric DC power generation mechanism via sequential in-phase polarization change	Hyun-Cheol Song (Korea University)	30 min
12:00–12:15		Oral Talk 13	Electric-Field-induced Weakly Ferromagnetic Domain Change by Ferroelectric Topological Domain Switching in Co-Substituted BiFeO ₃ Nanodots	Koomok Lee (Institute of Science Tokyo)	15 min
12:15–12:30		Oral Talk 14	Morphotropic phase boundary like dielectric enhancement in ALD deposited ZrO ₂ based thin film	Myeongchan Ko (KAIST)	15 min
12:30–13:00		Closing	Closing Remarks		
13:00–18:00		Excursion	Excursion	Venue: Cheongnamdae	