

## IIBS International Symposium: Recent Advances in Functional Materials | SSU\_IIBS

**Date & Time** Dec. 5 (Tue) 10:15~14:45

**Place** 8F, Ara Hall [\[On & Off Hybrid Session\]](#)

**Organized by** Integrative Institute of Basic Sciences

Time (Korea Time)	Presenter	Title
<b>Dec. 5 (Tue) 10:15~12:00   Session 1   Chair: Se Young Park (Soongsil University, Korea)</b>		
10:15-10:45	Karin M. Rabe (Rutgers University)	Switchable functional materials from first principles
10:45-11:15	Cyrus E. Dreyer (Stony Brook University)	Quantum embedding for point defects: case studies and challenges
11:15-11:30	Jaekwang Lee (Pusan National University)	Phonon decoupling in double perovskite oxides
11:30-11:45	Kyoung-Whan Kim (Korea Institute of Science and Technology)	Magnetic phase transition induced by an in-plane current injection in a van der Waals magnet Fe <sub>5</sub> GeTe <sub>2</sub>
11:45-12:00	Kook Tae Kim (Soongsil University)	Time-resolved soft x-ray resonant scattering study on dynamics of polar vortex structures induced by femtosecond laser pulses
<b>Dec. 5 (Tue) 13:00~14:45   Session 2   Chair: Hongseok Oh (Soongsil University, Korea)</b>		
13:00-13:30	Kenji Nomura (University of California San Diego)	Energy efficient oxide-TFT technology
13:30-14:00	Ya-Ju Lee ( National Cheng Kung University.)	All-inorganic perovskite quantum dots: building blocks of bio-inspired neuromorphic visual system
14:00-14:15	Ki Hoon Lee (Incheon National University)	Proximity superconductivity with altermagnetism
14:15-14:30	Kyoung-Ho Kim (Chungbuk National University)	Mid-infrared plasmonics in nanostructures
14:30-14:45	Sangwon Wi (Soongsil University)	Optoelectronic Synapse Behaviors in Tb <sup>3+</sup> /Al <sup>3+</sup> Co-doped CaSnO <sub>3</sub> with long persistent luminescence