

Joint International Workshop of WFF & WFSM 2026

**The 12th Workshop on New Frontiers in Ferroelectrics 2026
& The 10th Workshop on Functional and Smart Materials 2026**

Program

6th March 2026

9:00	Group discussion & Free discussion
12:00	Lunch break
12:58	Hiroshi TAKASHIMA (AIST) <i>Opening</i>
13:00	Yoji HAMASAKI (National Defense Academy) <i>Structure and dielectric properties of high-entropy LnTa3O9</i>
13:25	Shinji MIGITA (AIST) <i>Explanatory lecture, Manufacturing technology for advanced semiconductor circuits and the role of dielectric materials</i>
13:50	Jun USAMI (AIST) <i>Direct Measurement of Pyroelectric/Electrocaloric Effects: From Domains to Design Metrics</i>
14:15	Suzuka UDAGAWA (Gakushuin University) <i>Dielectric properties and negative thermal expansion of non-centrosymmetric L'-Ta2O5 phase in ZrxTa1-xO2.5-0.5x</i>
14:40	Jun KANO (Okayama University) <i>Cellular responsibility by electric field</i>
15:05	Break
15:25	Shota NUNOMURA (AIST)

Defect generation and recovery dynamics in semiconductor device fabrication

15:50	Masanori KODERA (AIST) <i>Crystal Structure Engineering of Oxynitrides and Their Photocatalytic Performance</i>
16:15	Yosuke SHIRATORI (Institute of Science Tokyo) <i>Opening the Future of Energy: Our Challenge in Aqueous Quasi-Solid Lithium-Ion Batteries</i>
16:40	Shintaro YASUI (Institute of Science Tokyo) <i>Preparation of antiferroelectric titanite thin films with 1D-octahedral chain</i>
17:05	Hiroshi TAKASHIMA (AIST) <i>Preparation of freestanding BaTiO₃ nanocrystalline films and their dielectric properties(II)</i>
18:30	Banquet

7th March 2026

9:00	Hiroki MORIWAKE (JFCC, Institute of Science Tokyo) <i>Materials exploration for high-dielectric-constant materials using soft mode informatics</i>
9:25	Mitsuru ITOH (Institute of Science Tokyo) <i>Exploration of PNR-Induced High-Dielectric Perovskite Materials</i>
9:50	Akitoshi KOREADA (Ritsumeikan University) <i>Coherent TA Phonon Excitation via Stimulated Brillouin Scattering</i>
10:15	Yukio SATO (Kumamoto University) <i>Response of ferroelectric nanodomains to alternative-current electric fields</i>
10:40	Break
11:05	Kosuke MATSUZAKI (AIST) <i>A Novel Isovalent-Impurity Doping Approach for Carrier Control and Its Application to Photoelectric Conversion</i>
11:30	Kota NISHI (Ritsumeikan University) <i>Measurement of the elastic and piezoelectric constants of BiFeO₃ by Brillouin light scattering</i>
11:55	Yugo KUSANO (Ritsumeikan University) <i>Circularly polarized Hyper-Raman scattering in crystals</i>
12:20	Masaki TAKESADA (Hokkaido University)

Light Scattering from Correction term to Fermi's Golden Rule

12:45

Masaki TAKESADA (Hokkaido University)

Closing

13:00

18:00

Group discussion & Free discussion

8th March 2026

9:00

Group discussion & Free discussion

18:00

Excursion