

**International Conference on
Electrical and Electronic Materials Engineering
(ICEME 2025)**

June 28, 2025, Osaka Institute of Technology, Umeda Campus

PROGRAM

9:00-9:05

Opening Remarks (Akihiko Fujii)

(Chair: Yo Shimizu)

9:05-9:50

Keynote Lecture

Along with Ordered Soft Molecular Systems

Masanori Ozaki

The University of Osaka, Japan

(Chair: Tsuyoshi Kawai)

9:50-10:15

Invited Lecture

Portable High-Power Biomass Fuel Cells for Demonstration at EXPO 2025

Keiichi Kaneto

Osaka Institute of Technology, Japan

«Break»

(Chair: Sadahito Uto & Ryotaro Ozaki)

10:30-10:55

Invited Lecture

Opportunity of Challenges of Electrical and Electronic Materials in Korea

Dae-Hee Park¹ and Hoon-kyu Shin^{2,3}

¹WonKwang University, ²POSTECH, ³KIEEME, Republic of Korea

10:55-11:20

Invited Lecture

On Conducting Polymer for Control of Osteoblast Behavior

Masaharu Fujii¹, Kanata Toyoshima², Haruo Ihori¹, Satoshi Okano¹, Sengo Kobayashi¹

¹Ehime University, ²National Institute of Technology, Hiroshima College, Japan

11:20-11:35

Milliwave and Terahertz Wave Applications Using Liquid Crystal

Hiroshi Moritake and Yo Inoue

National Defense Academy, Japan

«Lunch»

(Chair: Kazuya Tada)

12:40-12:55

Proposal of Light-Diffusivity-Adjustable Camera System for Image Database using Liquid Crystal Light Control Film

Keizo Nakayama and Motoya Okada

KINDAI University, Japan

12:55-13:10

Patterned Film Formation of InP-Type Quantum Dots toward Printed Hybrid Organic Light-Emitting Diodes

Hirotake Kajii

The University of Osaka, Japan

13:10-13:25

Development of All-Polymer Broadband Metamaterial Absorber by Printed Electronics

Tatsunosuke Matsui

Mie University, Japan

13:25-13:40

Improving Film Coverage and Promoting Domain Growth in Triple-Cation Perovskite Films via Inclined Bar-Coating at Low Deposition Temperature

Shogo Miyake¹, Akihiko Fujii², Kenjiro Fukuda¹ and Masanori Ozaki¹

¹The University of Osaka, ²Osaka Institute of Technology, Japan

«Break»

(Chair: Yuji Tsukamoto)

13:55-14:10

Liquid Crystal-Based Nonmechanical Beam Steering Devices

Yo Inoue and Hiroshi Moritake

National Defense Academy, Japan

14:10-14:25

Blue Phase Liquid Crystals for Holographic Optical Elements

Seong Yong Cho

Samsung Electronics, Republic of Korea

14:25-14:40

Enhancement of Electro-Optical Properties in Blue Phase Liquid Crystal by Ferroelectricity Incorporation

Kazuma Nakajima¹, Hirokazu Kamifuji¹, Mahiro Nakase¹, Hirotsugu Kikuchi², Kenjiro Fukuda¹ and Masanori Ozaki¹

¹The University of Osaka, ²Kyushu University, Japan

14:40-14:55

Surface Fluorine Chemistry and Pretilt-Driven Polarization Control in Ferroelectric Nematic Liquid Crystals

Hirokazu Kamifuji¹, Kazuma Nakajima¹, Mahiro Nakase¹, Hirotsugu Kikuchi², Kenjiro Fukuda¹ and Masanori Ozaki¹

¹The University of Osaka, ²Kyushu University, Japan

14:55

Closing Remarks (Akihiko Fujii)