

Fri. Sep 25, 2026

Poster Session | Poster session (core time)

1:30 PM - 2:20 PM JST | 4:30 AM - 5:20 AM UTC
Multipurpose hall

[Poster session] Poster session (core time)

[3P101] Advanced Metamaterial Piezoelectric Acoustic Transducer for Broadband Implantable Hearing Applications

Vishesh Singh¹, Jitendra Adhikari², Rajeev Kumar¹, Mohammad Talha¹ (1. School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, 2. Centre of Excellence in Product Design and Smart Manufacturing, Maulana Azad National Institute of Technology, Bhopal)

[3P102] Fabrication of a Polyimide Bilayer Film Actuator with a Straight Initial Shape

Kaisei Takahashi¹, Tomoya Fujino¹, Daisuke Yamaguchi¹, Shuichi Wakimoto¹, Takefumi Kanda¹ (1. Okayama University)

[3P103] Flow velocity piezoelectric polymer sensors utilizing flow-induced vibrations on flexible beam

Yuya Sato¹, Mitsuki Kurose¹, Takefumi Kanda¹, Shuichi Wakimoto¹, Daisuke Yamaguchi¹, Shinji Hiejima¹, Takeji Ueda² (1. Okayama University, 2. Hydro-VENUS Co.)

[3P104] Effective Opto-Piezo-Pyro-Elasticity Properties Evaluation of Bilayer Photovoltaic–Piezoelectric Smart Composites

Manish Kumar Sharma¹, Ankit Sharma¹, Rajeev Kumar¹, Vishal Singh Chauhan¹ (1. Indian Institute of Technology Mandi, Mandi, Himachal Pradesh)

[3P105] Light-Driven Structural Health Monitoring of Wind Turbine Structures Using a Bioinspired Spider–Honeycomb Auxetic Metamaterial-Based Photostrictive Actuator

Ankit Sharma¹, Manish Kumar Sharma¹, Rajeev Kumar¹, Himanshu Pathak¹, Kumar Sambhav² (1. Indian Institute of Technology Mandi Himachal Pradesh, 2. Uttar Pradesh Institute of Design Sector 62, Noida, Uttar Pradesh 201301)

[3P106] High-speed phased array ultrasonic levitation

Lisa Lochtenbergh¹, Daisuke Koyama¹ (1. Doshisha University)

[3P107] Tailoring the Ferroelectric and Piezoelectric Properties of KNN Ceramics via SrTiO₃ Modification

Yerin Cho¹, Hyeonwoo Kim¹, Jungyeun You¹, Jungho Ryu¹, Jungmin Park¹ (1. School of Materials Science and

Engineering, Yeungnam University)

[3P108] Curved-Surface Conductive Printing Using a Six-DOF Parallel Mechanism

Ryuki Suwabe¹, Zen Takano¹, Chiaki Tanuma², Sayoko Sakama¹, Yutaka Tanaka¹ (1. Graduate School of Engineering and Design, Hosei University, 2. Research Center for Micro-Nano Technology, Hosei University)

[3P109] Reduction of Dielectric Loss in Lead-Free NaNbO₃ Thin Films through Optimization of Sputtering Conditions

Wataru Sawada¹, Jingwei He¹, SangHyo Kweon¹, Isaku Kanno¹ (1. Kobe University)

[3P110] Sputtering Deposition of Epitaxial PMN-PT Thin Films on Si

SHIBO GONG¹, Xiaochuan Sun¹, Jingwei He¹, SangHyo Kweon¹, Isaku Kanno¹ (1. Kobe University)

[3P111] A Compact STM32F407-Based System for High-Speed Impedance Characterization and Phase-Locked Frequency Control of Piezoelectric Actuators

Martin Leibenger¹ (1. University of Paderborn)

[3P112] Investigation of Large-Area Acoustic Streaming Jets Generated by Multiple Through-holes

Kohei Aono¹, Shinsuke Uchida², Akitoshi Kasai², Hidekazu Kajiwar¹ (1. Muroran Institute of Technology, 2. Seidensha Electronics Co., Ltd.)

[3P113] Proximity/Tactile Multimodal Sensor Based on Piezoelectric MEMS Ultrasonic Transducers (PMUTs) for Robotic Hand Grasping Assistance

Seiji Aoyagi¹, Daiju Emi¹, Kensuke Nakamura¹, Tomokazu Takahashi¹, Kyohei Yamada¹, Masato Suzuki¹ (1. KANSAI Univ.)

[3P114] Wireless Energy Transfer Characteristics of Lead-Free KNN Magnetolectric Composites Fabricated by TGG Process

Seo-Hyun Choi¹, Ju-Hee Kim¹, Yeong-Seo Yoon¹, Ye-Rok Choi¹, Byeong-Jae Min¹, Hyunseok Song¹, Hyun-Cheol Song¹ (1. Korea University)

[3P115] Application for Wireless Ultrasound Energy Transfer via Reactive Template Grain Growth Method with KNN-based Piezoelectric Material

Yeongseo Yoon¹, Hyunseok Song¹, Seung Bum Kim¹, Byeong-Jae Min¹, Ye-Rok Choi¹, Seo-Hyun Choi¹, Ju-Hee Kim¹, Hyun-Cheol Song¹ (1. Korea University)

[3P116] Design, fabrication and evaluation of piezoelectric thin films micromotor

Ryoto Uchida¹, Kanno Isaku¹ (1. Kobe Univ.)

[3P117] Stabilization of the Vibration
Characteristics for Micro Flow
Control Valves Using Particle Excitation

Daisuke Hirooka¹, Frédéric Giraud² (1. Kansai
University, 2. Univ. Lille, Arts et Metiers Institute of
Technology, Centrale Lille, Junia, ULR 2697 - L2EP)

[3P118] Noncontact Viscoelastic Measurement
and Thermal Characterization of Mochi Using an
Airborne Ultrasonic Transducer with a Parabolic
Reflector

MARIE TABARU¹, Ryo Aoki¹, Keiya Yamashita¹, Naoki
Tano¹, Kentaro Nakamura¹ (1. Institute of Science
Tokyo)

[3P119] High k_t^2 in Epitaxial (K, Na)NbO₃ Films by
DC Bias Application

Cocono Mita^{1,2}, Chuangsheng Zhang^{1,2}, Hiroki
Uchida^{1,2}, Yohkoh Shimano^{1,2}, Takahiko Yanagitani^{1,2} (1.
Waseda University, 2. ZAIKEN)

Poster Session | Poster session (core time)

📅 Fri. Sep 25, 2026 1:30 PM - 2:20 PM JST | Fri. Sep 25, 2026 4:30 AM - 5:20 AM UTC | 🏢 Multipurpose hall

[Poster session] Poster session (core time)

[3P101] Advanced Metamaterial Piezoelectric Acoustic Transducer for Broadband Implantable Hearing Applications

Vishesh Singh¹, Jitendra Adhikari², Rajeev Kumar¹, Mohammad Talha¹ (1. School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, 2. Centre of Excellence in Product Design and Smart Manufacturing, Maulana Azad National Institute of Technology, Bhopal)

[3P102] Fabrication of a Polyimide Bilayer Film Actuator with a Straight Initial Shape

Kaisei Takahashi¹, Tomoya Fujino¹, Daisuke Yamaguchi¹, Shuichi Wakimoto¹, Takefumi Kanda¹ (1. Okayama University)

[3P103] Flow velocity piezoelectric polymer sensors utilizing flow-induced vibrations on flexible beam

Yuya Sato¹, Mitsuki Kurose¹, Takefumi Kanda¹, Shuichi Wakimoto¹, Daisuke Yamaguchi¹, Shinji Hiejima¹, Takeji Ueda² (1. Okayama University, 2. Hydro-VENUS Co.)

[3P104] Effective Opto-Piezo-Pyro-Elasticity Properties Evaluation of Bilayer Photovoltaic-Piezoelectric Smart Composites

Manish Kumar Sharma¹, Ankit Sharma¹, Rajeev Kumar¹, Vishal Singh Chauhan¹ (1. Indian Institute of Technology Mandi, Mandi, Himachal Pradesh)

[3P105] Light-Driven Structural Health Monitoring of Wind Turbine Structures Using a Bioinspired Spider-Honeycomb Auxetic Metamaterial-Based Photostrictive Actuator

Ankit Sharma¹, Manish Kumar Sharma¹, Rajeev Kumar¹, Himanshu Pathak¹, Kumar Sambhav² (1. Indian Institute of Technology Mandi Himachal Pradesh, 2. Uttar Pradesh Institute of Design Sector 62, Noida, Uttar Pradesh 201301)

[3P106] High-speed phased array ultrasonic levitation

Lisa Lochtenbergh¹, Daisuke Koyama¹ (1. Doshisha University)

[3P107] Tailoring the Ferroelectric and Piezoelectric Properties of KNN Ceramics via SrTiO₃ Modification

Yerin Cho¹, Hyeonwoo Kim¹, Jungyeun You¹, Jungho Ryu¹, Jungmin Park¹ (1. School of Materials Science and Engineering, Yeungnam University)

[3P108] Curved-Surface Conductive Printing Using a Six-DOF Parallel Mechanism

Ryuki Suwabe¹, Zen Takano¹, Chiaki Tanuma², Sayoko Sakama¹, Yutaka Tanaka¹ (1. Graduate School of Engineering and Design, Hosei University, 2. Research Center for Micro-Nano Technology, Hosei University)

[3P109] Reduction of Dielectric Loss in Lead-Free NaNbO₃ Thin Films through Optimization of Sputtering Conditions

Wataru Sawada¹, Jingwei He¹, SangHyo Kweon¹, Isaku Kanno¹ (1. Kobe University)

[3P110] Sputtering Deposition of Epitaxial PMN-PT Thin Films on Si

SHIBO GONG¹, Xiaochuan Sun¹, Jingwei He¹, SangHyo Kweon¹, Isaku Kanno¹ (1. Kobe University)

[3P111] A Compact STM32F407-Based System for High-Speed Impedance Characterization and Phase-Locked Frequency Control of Piezoelectric Actuators

Martin Leibenger¹ (1. University of Paderborn)

[3P112] Investigation of Large-Area Acoustic Streaming Jets Generated by Multiple Through-holes

Kohei Aono¹, Shinsuke Uchida², Akitoshi Kasai², Hidekazu Kajiwara¹ (1. Muroran Institute of Technology, 2. Seidensha Electronics Co., Ltd.)

[3P113] Proximity/Tactile Multimodal Sensor Based on Piezoelectric MEMS Ultrasonic Transducers (PMUTs) for Robotic Hand Grasping Assistance

Seiji Aoyagi¹, Daiju Emi¹, Kensuke Nakamura¹, Tomokazu Takahashi¹, Kyohei Yamada¹, Masato Suzuki¹ (1. KANSAI Univ.)

[3P114] Wireless Energy Transfer Characteristics of Lead-Free KNN Magnetoelectric Composites Fabricated by TGG Process

Seo-Hyun Choi¹, Ju-Hee Kim¹, Yeong-Seo Yoon¹, Ye-Rok Choi¹, Byeong-Jae Min¹, Hyunseok Song¹, Hyun-Cheol Song¹ (1. Korea University)

[3P115] Application for Wireless Ultrasound Energy Transfer via Reactive Template Grain Growth Method with KNN-based Piezoelectric Material

Yeongseo Yoon¹, Hyunseok Song¹, Seung Bum Kim¹, Byeong-Jae Min¹, Ye-Rok Choi¹, Seo-Hyun Choi¹, Ju-Hee Kim¹, Hyun-Cheol Song¹ (1. Korea University)

[3P116] Design, fabrication and evaluation of piezoelectric thin films micromotor

Ryoto Uchida¹, Kanno Isaku¹ (1. Kobe Univ.)

[3P117] Stabilization of the Vibration Characteristics for Micro Flow Control Valves Using Particle Excitation

Daisuke Hirooka¹, Frédéric Giraud² (1. Kansai University, 2. Univ. Lille, Arts et Metiers Institute of Technology, Centrale Lille, Junia, ULR 2697 - L2EP)

[3P118] Noncontact Viscoelastic Measurement and Thermal Characterization of Mochi Using an Airborne Ultrasonic Transducer with a Parabolic Reflector

MARIE TABARU¹, Ryo Aoki¹, Keiya Yamashita¹, Naoki Tano¹, Kentaro Nakamura¹ (1. Institute of Science Tokyo)

[3P119] High k_t^2 in Epitaxial (K, Na)NbO₃ Films by DC Bias Application

Cocono Mita^{1,2}, Chuangsheng Zhang^{1,2}, Hiroki Uchida^{1,2}, Yohkoh Shimano^{1,2}, Takahiko Yanagitani^{1,2} (1. Waseda University, 2. ZAIKEN)