

Thu. Sep 24, 2026

Oral Session (Device) | Device

9:55 AM - 11:00 AM JST | 12:55 AM - 2:00 AM UTC
Oral Session Room 1 (International Conference Hall)

[Session 1] Piezoelectric Motors and Control Systems 1

◆ Invited Talk

9:55 AM - 10:15 AM JST | 12:55 AM - 1:15 AM UTC
[2R102] Structural Design and Optimization Methods of Piezoelectric Motors for Aerospace Applications

Ying Yang¹ (1. Nanjing University of Aeronautics and Astronautics)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC
[2R103] Development of a Slider Retained Micro Linear Ultrasonic Motor Driven in L1B2 Mode

Kenshin Kaneshiro¹, Shunsuke Izuhara¹, Tomoaki Mashimo¹ (1. Okayama Univ.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC
[2R104] Sensorless Control of Contact Force at the Tip of a Robot Finger with Variable Posture Driven by an Ultrasonic Motor

Iori Miyata¹, Yanbo Wang¹, Tatsuki Sasamura², Shinichi Miyose³, Yoshitaka Oi³, Takeshi Morita¹ (1. Graduate School of Engineering, The University of Tokyo, 2. Department of Biomedical Engineering, Lund University, 3. NACHI-FUJIKOSHI CORP.)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC
[2R105] Design of an Ultrasonic Motor Using a Cross-Shaped Stator Transducer

Haoruo JIANG¹, Masaya TAKASAKI¹ (1. Saitama University)

Oral Session (Device) | Device

11:05 AM - 12:30 PM JST | 2:05 AM - 3:30 AM UTC
Oral Session Room 1 (International Conference Hall)

[Session 2] New Energy Technology (Energy Harvesting) & Airborne Transducers

◆ Invited Talk

11:05 AM - 11:25 AM JST | 2:05 AM - 2:25 AM UTC
[2R106] Piezoelectric energy harvesting for tyre integration

Veronika Kovacova¹, Mayara Cardozo¹, Omar Ramirez-Sanchez¹, Uros Prah¹, Junling Zhao², Emmanuel Defay¹ (1. Luxembourg Institute of Science and Technology, 2. Goodyear Innovation Center Akron)

◆ Invited Talk

11:25 AM - 11:45 AM JST | 2:25 AM - 2:45 AM UTC

[2R107] Energy Harvesting – Leveraging Bio-inspired Strategies

Shashank Priya¹ (1. MSU)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC
[2R108] Development and Evaluation of a 3DoF Linear Ultrasonic Motor

Shoma Tanaka¹, Shunsuke Izuhara¹, Tomoaki Mashimo¹ (1. Okayama University)

12:00 PM - 12:15 PM JST | 3:00 AM - 3:15 AM UTC
[2R109] Experimental Parameter Identification for an Ultrasonic Transducer under Load

Markus Dohmen¹, Tobias Hemsel¹, Walter Sextro¹ (1. Paderborn University, Chair of Dynamics and Mechatronics)

12:15 PM - 12:30 PM JST | 3:15 AM - 3:30 AM UTC
[2R110] Evaluation of Underwater Actuation Characteristics of a Micro Ultrasonic Motor and Its Applications

Shunsuke Fujiki¹, Shunsuke Izuhara², Tomoaki Mashimo³ (1. Graduate School of Environment, Life, Natural Science and Technology, Okayama University, 2. Faculty of Environmental, Life, Natural Science and Technology Assistant Professor, 3. Faculty of Environmental, Life, Natural Science and Technology Professor)

Oral Session (Device) | Device

1:30 PM - 2:40 PM JST | 4:30 AM - 5:40 AM UTC
Oral Session Room 1 (International Conference Hall)

[Session 3] Pb-Free Piezoelectrics & Smart Structures and Systems with Actuators and Sensors

◆ Invited Talk

1:30 PM - 1:50 PM JST | 4:30 AM - 4:50 AM UTC
[2R111] Innovative lead-free ultrasonic systems: Langevin, bending plate and membrane transducers for low to medium power applications

Tobias Hemsel¹, Claus Scheidemann¹, Peter Bornmann², Martin Leibenger¹, Walter Littmann² (1. Paderborn University, Warburger Strasse 100, 33098 Paderborn, Germany, 2. ATHENA Technologie Beratung GmbH, Technologiepark 13, 33100 Paderborn, Germany)

◆ Invited Talk

1:50 PM - 2:10 PM JST | 4:50 AM - 5:10 AM UTC
[2R112] Electrospinning Piezoelectric Fiber Yarns as a Scalable Platform for AI-Integrated Self-Powered Sensors

Miso Kim¹ (1. Korea Advanced Institute of Science and Technology (KAIST))

2:10 PM - 2:25 PM JST | 5:10 AM - 5:25 AM UTC

[2R113] Biaxial Microcrack Engineering in Auxetic Stretchable Strain Sensors

Jaewon Cho¹, Miso Kim¹ (1. Korea Advanced Institute of Science and Technology)

2:25 PM - 2:40 PM JST | 5:25 AM - 5:40 AM UTC

[2R114] Quantitative Characterisation of Nonlinear Resonance Behaviour in Piezoelectric Components Using a Harmonic Balance FEM

Olga Friesen¹, Jonas Hölscher¹, Michael B. K. Siegmund¹, Finn Gebauer¹, Leander Claes¹, Bernd Henning¹ (1. Measurement Engineering Group, Paderborn University)

Oral Session (Device) | Device

3:05 PM - 4:10 PM JST | 6:05 AM - 7:10 AM UTC
Oral Session Room 1 (International Conference Hall)

[Session 4] Ultrasonic Technologies 1

3:05 PM - 3:20 PM JST | 6:05 AM - 6:20 AM UTC

[2R115] Design of a Multi-Frequency High-Power Ultrasonic Transducer with Acoustic Lens-Based Focusing Mechanism

Hayato Nishimura¹, Takeshi Morita¹ (1. The University of Tokyo)

3:20 PM - 3:35 PM JST | 6:20 AM - 6:35 AM UTC

[2R116] Non-contact Holding and Rotation of $\Phi 300$ Wafers Using the Ultrasonic Squeeze Film Levitation

Takumi Miyawaki¹, Masaaki Miyatake¹, Kazumi Haga², Yoshihiro Ishiguro² (1. Tokyo University of Science, Tokyo, Japan, 2. NanoSystem Solutions, Inc., Okinawa, Japan)

3:35 PM - 3:50 PM JST | 6:35 AM - 6:50 AM UTC

[2R117] Adaptive Vibration Shape and Eigenfrequency Tuning of Multiple Modes utilizing Synthetic Impedance for Ultrasonic-Assisted Laser Beam Welding

Christian Nowroth¹, Willi Ron¹, Jens Twiefel¹, Jörg Wallaschek¹ (1. Leibniz Universität Hannover - Institute of Dynamics and Vibration Research)

Invited Talk

3:50 PM - 4:10 PM JST | 6:50 AM - 7:10 AM UTC

[2R118] Optical Devices Using Refractive Index Gradients Induced by Ultrasound

Daisuke Koyama¹ (1. Doshisha University)

Oral Session (Device) | Device

4:15 PM - 5:20 PM JST | 7:15 AM - 8:20 AM UTC
Oral Session Room 1 (International Conference Hall)

[Session 5] Ultrasonic Technologies 2

Invited Talk

4:15 PM - 4:35 PM JST | 7:15 AM - 7:35 AM UTC

[2R119] Lead-free piezoelectric materials enable high-performance acoustofluidic devices

Wei Qiu¹ (1. Lund University)

4:35 PM - 4:50 PM JST | 7:35 AM - 7:50 AM UTC

[2R120] Development of an Acoustically Tunable Liquid Lens for Terahertz Beam Focusing

Naoki Tano¹, Kentaro Nakamura¹, Adrian Dobroiu¹, Safumi Suzuki¹, Marie Tabaru¹ (1. Science Tokyo)

4:50 PM - 5:05 PM JST | 7:50 AM - 8:05 AM UTC

[2R121] Particle Velocity Analysis for ELIPS-SAW Solid-Liquid Separation Devices operated at 1.0 MHz

Ririka Sato¹, Kyohei Yamada², Chikahiro Imashiro¹, Takeshi Morita¹ (1. The University of Tokyo, 2. Kansai University)

5:05 PM - 5:20 PM JST | 8:05 AM - 8:20 AM UTC

[2R122] Localized Shear-Horizontal Surface Acoustic Waves for High-Throughput Microparticle Focusing

Zhirui Chen¹, Wei Qiu², Takeshi Morita¹ (1. Graduate School of Engineering, The University of Tokyo, 2. Department of Biomedical Engineering, Lund University)

Fri. Sep 25, 2026

Oral Session (Device) | Device

9:50 AM - 10:55 AM JST | 12:50 AM - 1:55 AM UTC
Oral Session Room 1 (International Conference Hall)

[Session 6] Ultrasonic Technologies 3

Invited Talk

9:50 AM - 10:10 AM JST | 12:50 AM - 1:10 AM UTC

[3R102] Applications of Plastic Materials for Ultrasonic Devices

Kentaro Nakamura¹ (1. Institute of Science Tokyo)

10:10 AM - 10:25 AM JST | 1:10 AM - 1:25 AM UTC

[3R103] Influence of acoustic streaming on levitation force in near-field acoustic levitation phenomenon

Kohei Aono¹, Manabu Aoyagi¹, Hidekazu Kajiwara¹ (1. Muroran Institute of Technology)

10:25 AM - 10:40 AM JST | 1:25 AM - 1:40 AM UTC

[3R104] Acoustic Pressure generated by an Elliptical reflector for high-Power ultraSound (ELIPS) Under Continuous-Wave Excitation

Makoto Shimaoka¹, Yumi Matsushita², Masafumi Shimojo², Makoto Higuchi², Chikahiro Imashiro¹, Takeshi Morita¹ (1. Graduate School of Engineering, The University of Tokyo, 2. Advanced Neuroimaging Center, QST)

10:40 AM - 10:55 AM JST | 1:40 AM - 1:55 AM UTC
 [3R105] A Dual-Excitation Ultrasonic Transducer for Enhanced Acoustic Agglomeration of Airborne Particles

Dalius Mažeika¹, Andrius Čeponis¹, Piotr Vasiljev², Regimantas Bareikis², Laurynas Šišovas¹, Sergejus Borodinas² (1. Vilnius Gediminas Technical University, 2. Vytautas Magnus University)

Oral Session (Device) | Device

11:10 AM - 12:30 PM JST | 2:10 AM - 3:30 AM UTC
 Oral Session Room 1 (International Conference Hall)

[Session 7] Piezoelectric Motors and Control Systems 2

11:10 AM - 11:25 AM JST | 2:10 AM - 2:25 AM UTC
 [3R106] Material Optimization for Type-C Rotor in Micro Ultrasonic Motor

Taiki Hosako¹ (1. Okayama University.)

11:25 AM - 11:40 AM JST | 2:25 AM - 2:40 AM UTC
 [3R107] Sensorless Torque Estimation and Frequency-Phase Hybrid Control for an Ultrasonic-Motor-Driven Soft Tissue Grasping Gripper

Yanbo Wang¹, Iori Miyata¹, Takeshi Morita¹ (1. The University of Tokyo)

11:40 AM - 11:55 AM JST | 2:40 AM - 2:55 AM UTC
 [3R108] Visual Control of Micro Spherical Ultrasonic Motor

Okuto Nakatsuka¹, Shunsuke Izuhara¹, Taro Shibasaki¹, Takateru Urakubo², Tomoaki Mashimo¹ (1. Okayama Univ., 2. Kobe Univ.)

11:55 AM - 12:10 PM JST | 2:55 AM - 3:10 AM UTC
 [3R109] Replacement of PZT in Langevin Transducers with Hard, Lead-Free Piezoceramics

Tobias Hemsel¹, Claus Scheidemann¹, Walter Littmann², Walter Sextro¹ (1. Paderborn University, Warburger Strasse 100, 33098 Paderborn, Germany, 2. ATHENA Technologie Beratung GmbH, Technologiepark 13, 33100 Paderborn, Germany)

12:10 PM - 12:25 PM JST | 3:10 AM - 3:25 AM UTC
 [3R110] Non-Contact Surface Wave Velocity Anisotropy Measurement of Food Using Airborne Ultrasound and a Parabolic Reflector with Radial Laser-Access Slits

Keiya Yamashita¹, Naoki Tano¹, Kentaro Nakamura¹, Marie Tabaru¹ (1. Institute of Science Tokyo)

Sat. Sep 26, 2026

Oral Session (Device) | Device

9:40 AM - 10:45 AM JST | 12:40 AM - 1:45 AM UTC
 Oral Session Room 1 (International Conference Hall)

[Session 8] Ultrasonic Technologies 4

◆ Invited Talk

9:40 AM - 10:00 AM JST | 12:40 AM - 1:00 AM UTC
 [4R102] Acoustic Wireless Power Transfer for Biomedical Implants and Underwater Electronics
 Hyun-Cheol Song¹ (1. Korea University)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC
 [4R103] A Closed-loop Flexible Ultrasonic Array for AI-guided Spatially Adaptive Wound Therapy

Pancheng Zhu^{1,2}, Yiyuan Yang^{1,2,3} (1. N.1 Institute for Health, National University of Singapore, Singapore, 2. Department of Biomedical Engineering, National University of Singapore, Singapore, 3. Institute for Digital Medicine, National University of Singapore, Singapore)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC
 [4R104] Opposing Elliptical-Reflector Focusing Structures (ELIPS) Enabling Surface Acoustic Wave Transmission and Reception for Measuring the Acoustic Properties of Liquids

Kyohei Yamada^{1,2}, Shoki Ieiri¹, Shinsuke Itoh³, Takashi Kasashima³, Chikahiro Imashiro¹, Takeshi Morita¹ (1. The University of Tokyo, 2. Kansai University, 3. Niterra Co., Ltd.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC
 [4R105] Study on the Prevention of Particle Adhesion on Semiconductor Wafers Using Ultrasonic Vibration

Tomoya Masuda¹, Masaaki Miyatake¹, Yuki Kumagai², Hayato Hishinuma² (1. Tokyo University of Science, 2. Yamaha Robotics. Co.)

Oral Session (Device) | Device

10:50 AM - 11:40 AM JST | 1:50 AM - 2:40 AM UTC
 Oral Session Room 1 (International Conference Hall)

[Session 9] Multiferroic and Composite Sensors / Actuators & MEMS Devices (Actuators and Sensors)

◆ Invited Talk

10:50 AM - 11:10 AM JST | 1:50 AM - 2:10 AM UTC
 [4R106] Magnetically Actuated Energy Conversion Devices: Magneto- Mechano-Electric and Luminescent Energy Generators

Jungho Ryu¹, Geon-Tae Hwang², Hyun-Cheol Song³, Dae-Yong Jeong⁴ (1. Yeungnam University, 2. Pukyong National University, 3. Korea University, 4. Inha University)

11:10 AM - 11:25 AM JST | 2:10 AM - 2:25 AM UTC

[4R107] Microparticle Sensing of Whole Droplet
Using Rayleigh-Type Surface Acoustic Wave

Shun Koda¹, Takahiro G Yamada², Yuta Kurashina¹ (1. Tokyo University of Agriculture and Technology, 2. University of California, San Diego)

11:25 AM - 11:40 AM JST | 2:25 AM - 2:40 AM UTC

[4R108] Model-Based Design of a Piezoelectric
Microtransducer for a Co-Resonant Nano-Mass
Spectrometer

Willi Ron¹, Xiao Xiao², Nynne Britt Edeler², Raphael Hasterok¹, Felix Herrmann³, Stefan Zimmermann³, Marc Christopher Wurz², Jens Twiefel¹ (1. Leibniz University Hannover, Institute of Dynamics and Vibration Research, 2. Leibniz University Hannover, Institute of Micro Production Technology, 3. Leibniz University Hannover, Institute of Electrical Engineering and Measurement Technology)

Oral Session (Device) | Device

📅 Thu. Sep 24, 2026 9:55 AM - 11:00 AM JST | Thu. Sep 24, 2026 12:55 AM - 2:00 AM UTC | 🏢 Oral
Session Room 1 (International Conference Hall)

[Session 1] Piezoelectric Motors and Control Systems 1

♥ Invited Talk

9:55 AM - 10:15 AM JST | 12:55 AM - 1:15 AM UTC

[2R102] Structural Design and Optimization Methods of Piezoelectric Motors for Aerospace Applications

Ying Yang¹ (1. Nanjing University of Aeronautics and Astronautics)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[2R103] Development of a Slider Retained Micro Linear Ultrasonic Motor Driven in L1B2 Mode

Kenshin Kanesiro¹, Shunsuke Izuhara¹, Tomoaki Mashimo¹ (1. Okayama Univ.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[2R104] Sensorless Control of Contact Force at the Tip of a Robot Finger with Variable Posture Driven by an Ultrasonic Motor

Iori Miyata¹, Yanbo Wang¹, Tatsuki Sasamura², Shinichi Miyose³, Yoshitaka Oi³, Takeshi Morita¹ (1. Graduate School of Engineering, The University of Tokyo, 2. Department of Biomedical Engineering, Lund University, 3. NACHI-FUJIKOSHI CORP.)

10:45 AM - 11:00 AM JST | 1:45 AM - 2:00 AM UTC

[2R105] Design of an Ultrasonic Motor Using a Cross-Shaped Stator Transducer

Haoruo JIANG¹, Masaya TAKASAKI¹ (1. Saitama University)

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📅 Thu. Sep 24, 2026 11:05 AM - 12:30 PM JST | Thu. Sep 24, 2026 2:05 AM - 3:30 AM UTC | 🏛️ Oral
Session Room 1 (International Conference Hall)

[Session 2] New Energy Technology (Energy Harvesting) & Airborne Transducers

💎 Invited Talk

11:05 AM - 11:25 AM JST | 2:05 AM - 2:25 AM UTC

[2R106] Piezoelectric energy harvesting for tyre integration

Veronika Kovacova¹, Mayara Cardozo¹, Omar Ramirez-Sanchez¹, Uros Prah¹, Junling Zhao², Emmanuel Defay¹ (1. Luxembourg Institute of Science and Technology, 2. Goodyear Innovation Center Akron)

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[2R107] Energy Harvesting – Leveraging Bio-inspired Strategies

Shashank Priya¹ (1. MSU)

11:45 AM - 12:00 PM JST | 2:45 AM - 3:00 AM UTC

[2R108] Development and Evaluation of a 3DoF Linear Ultrasonic Motor

Shoma Tanaka¹, Shunsuke Izuhara¹, Tomoaki Mashimo¹ (1. Okayama University)

12:00 PM - 12:15 PM JST | 3:00 AM - 3:15 AM UTC

[2R109] Experimental Parameter Identification for an Ultrasonic Transducer under Load

Markus Dohmen¹, Tobias Hemsel¹, Walter Sextro¹ (1. Paderborn University, Chair of Dynamics and Mechatronics)

12:15 PM - 12:30 PM JST | 3:15 AM - 3:30 AM UTC

[2R110] Evaluation of Underwater Actuation Characteristics of a Micro Ultrasonic Motor and Its Applications

Shunsuke Fujiki¹, Shunsuke Izuhara², Tomoaki Mashimo³ (1. Graduate School of Environment, Life, Natural Science and Technology, Okayama University, 2. Faculty of Environmental, Life, Natural Science and Technology Assistant Professor, 3. Faculty of Environmental, Life, Natural Science and Technology Professor)

Oral Session (Device)	Device
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📅 Thu. Sep 24, 2026 1:30 PM - 2:40 PM JST | Thu. Sep 24, 2026 4:30 AM - 5:40 AM UTC | 🏛️ Oral Session Room 1 (International Conference Hall)

[Session 3] Pb-Free Piezoelectrics & Smart Structures and Systems with Actuators and Sensors

♥ Invited Talk

1:30 PM - 1:50 PM JST | 4:30 AM - 4:50 AM UTC

[2R111] Innovative lead-free ultrasonic systems: Langevin, bending plate and membrane transducers for low to medium power applications

Tobias Hemsel¹, Claus Scheidemann¹, Peter Bornmann², Martin Leibenger¹, Walter Littmann² (1. Paderborn University, Warburger Strasse 100, 33098 Paderborn, Germany, 2. ATHENA Technologie Beratung GmbH, Technologiepark 13, 33100 Paderborn, Germany)

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[2R112] Electrospinning Piezoelectric Fiber Yarns as a Scalable Platform for AI-Integrated Self-Powered Sensors

Miso Kim¹ (1. Korea Advanced Institute of Science and Technology (KAIST))

2:10 PM - 2:25 PM JST | 5:10 AM - 5:25 AM UTC

[2R113] Biaxial Microcrack Engineering in Auxetic Stretchable Strain Sensors

Jaewon Cho¹, Miso Kim¹ (1. Korea Advanced Institute of Science and Technology)

2:25 PM - 2:40 PM JST | 5:25 AM - 5:40 AM UTC

[2R114] Quantitative Characterisation of Nonlinear Resonance Behaviour in Piezoelectric Components Using a Harmonic Balance FEM

Olga Friesen¹, Jonas Hölscher¹, Michael B. K. Siegmund¹, Finn Gebauer¹, Leander Claes¹, Bernd Henning¹ (1. Measurement Engineering Group, Paderborn University)

Oral Session (Device) Device

🗓 Thu. Sep 24, 2026 3:05 PM - 4:10 PM JST | Thu. Sep 24, 2026 6:05 AM - 7:10 AM UTC | 🏢 Oral Session Room 1 (International Conference Hall)

[Session 4] Ultrasonic Technologies 1

3:05 PM - 3:20 PM JST | 6:05 AM - 6:20 AM UTC

[2R115] Design of a Multi-Frequency High-Power Ultrasonic Transducer with Acoustic Lens-Based Focusing Mechanism

Hayato Nishimura¹, Takeshi Morita¹ (1. The University of Tokyo)

3:20 PM - 3:35 PM JST | 6:20 AM - 6:35 AM UTC

[2R116] Non-contact Holding and Rotation of $\Phi 300$ Wafers Using the Ultrasonic Squeeze Film Levitation

Takumi Miyawaki¹, Masaaki Miyatake¹, Kazumi Haga², Yoshihiro Ishiguro² (1. Tokyo University of Science, Tokyo, Japan, 2. NanoSystem Solutions, Inc., Okinawa, Japan)

3:35 PM - 3:50 PM JST | 6:35 AM - 6:50 AM UTC

[2R117] Adaptive Vibration Shape and Eigenfrequency Tuning of Multiple Modes utilizing Synthetic Impedance for Ultrasonic-Assisted Laser Beam Welding

Christian Nowroth¹, Willi Ron¹, Jens Twiefel¹, Jörg Wallaschek¹ (1. Leibniz Universität Hannover - Institute of Dynamics and Vibration Research)

💎 Invited Talk

3:50 PM - 4:10 PM JST | 6:50 AM - 7:10 AM UTC

[2R118] Optical Devices Using Refractive Index Gradients Induced by Ultrasound

Daisuke Koyama¹ (1. Doshisha University)

Oral Session (Device) | Device

📅 Thu. Sep 24, 2026 4:15 PM - 5:20 PM JST | Thu. Sep 24, 2026 7:15 AM - 8:20 AM UTC | 🏛️ Oral Session Room 1 (International Conference Hall)

[Session 5] Ultrasonic Technologies 2

💎 Invited Talk

4:15 PM - 4:35 PM JST | 7:15 AM - 7:35 AM UTC

[2R119] Lead-free piezoelectric materials enable high-performance acoustofluidic devices

Wei Qiu¹ (1. Lund University)

4:35 PM - 4:50 PM JST | 7:35 AM - 7:50 AM UTC

[2R120] Development of an Acoustically Tunable Liquid Lens for Terahertz Beam Focusing

Naoki Tano¹, Kentaro Nakamura¹, Adrian Dobroiu¹, Safumi Suzuki¹, Marie Tabaru¹ (1. Science Tokyo)

4:50 PM - 5:05 PM JST | 7:50 AM - 8:05 AM UTC

[2R121] Particle Velocity Analysis for ELIPS-SAW Solid-Liquid Separation Devices operated at 1.0 MHz

Ririka Sato¹, Kyohei Yamada², Chikahiro Imashiro¹, Takeshi Morita¹ (1. The University of Tokyo, 2. Kansai University)

5:05 PM - 5:20 PM JST | 8:05 AM - 8:20 AM UTC

[2R122] Localized Shear-Horizontal Surface Acoustic Waves for High-Throughput Microparticle Focusing

Zhirui Chen¹, Wei Qiu², Takeshi Morita¹ (1. Graduate School of Engineering, The University of Tokyo, 2. Department of Biomedical Engineering, Lund University)

Oral Session (Device) | Device

📅 Fri. Sep 25, 2026 9:50 AM - 10:55 AM JST | Fri. Sep 25, 2026 12:50 AM - 1:55 AM UTC | 🏛️ Oral Session Room 1 (International Conference Hall)

[Session 6] Ultrasonic Technologies 3

♥ Invited Talk

9:50 AM - 10:10 AM JST | 12:50 AM - 1:10 AM UTC

[3R102] Applications of Plastic Materials for Ultrasonic Devices

Kentaro Nakamura¹ (1. Institute of Science Tokyo)

10:10 AM - 10:25 AM JST | 1:10 AM - 1:25 AM UTC

[3R103] Influence of acoustic streaming on levitation force in near-field acoustic levitation phenomenon

Kohei Aono¹, Manabu Aoyagi¹, Hidekazu Kajiwara¹ (1. Muroran Institute of Technology)

10:25 AM - 10:40 AM JST | 1:25 AM - 1:40 AM UTC

[3R104] Acoustic Pressure generated by an Elliptical reflector for high-Power ultrasound (ELIPS) Under Continuous-Wave Excitation

Makoto Shimaoka¹, Yumi Matsushita², Masafumi Shimojo², Makoto Higuchi², Chikahiro Imashiro¹, Takeshi Morita¹ (1. Graduate School of Engineering, The University of Tokyo, 2. Advanced Neuroimaging Center, QST)

10:40 AM - 10:55 AM JST | 1:40 AM - 1:55 AM UTC

[3R105] A Dual-Excitation Ultrasonic Transducer for Enhanced Acoustic Agglomeration of Airborne Particles

Dalius Mažeika¹, Andrius Čėponis¹, Piotr Vasiljev², Regimantas Bareikis², Laurynas Šišovas¹, Sergejus Borodinas² (1. Vilnius Gediminas Technical University, 2. Vytautas Magnus University)

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📅 Fri. Sep 25, 2026 11:10 AM - 12:30 PM JST | Fri. Sep 25, 2026 2:10 AM - 3:30 AM UTC | 🏢 Oral Session
Room 1 (International Conference Hall)

[Session 7] Piezoelectric Motors and Control Systems 2

11:10 AM - 11:25 AM JST | 2:10 AM - 2:25 AM UTC

[3R106] Material Optimization for Type-C Rotor in Micro Ultrasonic Motor

Taiki Hosako¹ (1. Okayama University.)

11:25 AM - 11:40 AM JST | 2:25 AM - 2:40 AM UTC

[3R107] Sensorless Torque Estimation and Frequency-Phase Hybrid Control for an Ultrasonic-Motor-Driven Soft Tissue Grasping Gripper

Yanbo Wang¹, Iori Miyata¹, Takeshi Morita¹ (1. The University of Tokyo)

11:40 AM - 11:55 AM JST | 2:40 AM - 2:55 AM UTC

[3R108] Visual Control of Micro Spherical Ultrasonic Motor

Okuto Nakatsuka¹, Shunsuke Izuhara¹, Taro Shibanoki¹, Takateru Urakubo², Tomoaki Mashimo¹ (1. Okayama Univ., 2. Kobe Univ.)

11:55 AM - 12:10 PM JST | 2:55 AM - 3:10 AM UTC

[3R109] Replacement of PZT in Langevin Transducers with Hard, Lead-Free Piezoceramics

Tobias Hemsel¹, Claus Scheidemann¹, Walter Littmann², Walter Sextro¹ (1. Paderborn University, Warburger Strasse 100, 33098 Paderborn, Germany, 2. ATHENA Technologie Beratung GmbH, Technologiepark 13, 33100 Paderborn, Germany)

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[3R110] Non-Contact Surface Wave Velocity Anisotropy Measurement of Food Using Airborne Ultrasound and a Parabolic Reflector with Radial Laser-Access Slits

Keiya Yamashita¹, Naoki Tano¹, Kentaro Nakamura¹, Marie Tabaru¹ (1. Institute of Science Tokyo)

Oral Session (Device) | Device

📅 Sat. Sep 26, 2026 9:40 AM - 10:45 AM JST | Sat. Sep 26, 2026 12:40 AM - 1:45 AM UTC | 🏢 Oral
Session Room 1 (International Conference Hall)

[Session 8] Ultrasonic Technologies 4

💡 Invited Talk

9:40 AM - 10:00 AM JST | 12:40 AM - 1:00 AM UTC

[4R102] Acoustic Wireless Power Transfer for Biomedical Implants and Underwater Electronics

Hyun-Cheol Song¹ (1. Korea University)

10:00 AM - 10:15 AM JST | 1:00 AM - 1:15 AM UTC

[4R103] A Closed-loop Flexible Ultrasonic Array for AI-guided Spatially Adaptive Wound Therapy

Pancheng Zhu^{1,2}, Yiyuan Yang^{1,2,3} (1. N.1 Institute for Health, National University of Singapore, Singapore, 2. Department of Biomedical Engineering, National University of Singapore, Singapore, 3. Institute for Digital Medicine, National University of Singapore, Singapore)

10:15 AM - 10:30 AM JST | 1:15 AM - 1:30 AM UTC

[4R104] Opposing Elliptical-Reflector Focusing Structures (ELIPS) Enabling Surface Acoustic Wave Transmission and Reception for Measuring the Acoustic Properties of Liquids

Kyohei Yamada^{1,2}, Shoki Ieiri¹, Shinsuke Itoh³, Takashi Kasashima³, Chikahiro Imashiro¹, Takeshi Morita¹ (1. The University of Tokyo, 2. Kansai University, 3. Niterra Co., Ltd.)

10:30 AM - 10:45 AM JST | 1:30 AM - 1:45 AM UTC

[4R105] Study on the Prevention of Particle Adhesion on Semiconductor Wafers Using Ultrasonic Vibration

Tomoya Masuda¹, Masaaki Miyatake¹, Yuki Kumagai², Hayato Hishinuma² (1. Tokyo University of Science, 2. Yamaha Robotics. Co.)

Oral Session (Device) Device

📅 Sat. Sep 26, 2026 10:50 AM - 11:40 AM JST | Sat. Sep 26, 2026 1:50 AM - 2:40 AM UTC | 🏢 Oral
Session Room 1 (International Conference Hall)

[Session 9] Multiferroic and Composite Sensors / Actuators & MEMS Devices (Actuators and Sensors)

♥ Invited Talk

10:50 AM - 11:10 AM JST | 1:50 AM - 2:10 AM UTC

[4R106] Magnetically Actuated Energy Conversion Devices: Magneto- Mechano-Electric and Luminescent Energy Generators

Jungho Ryu¹, Geon-Tae Hwang², Hyun-Cheol Song³, Dae-Yong Jeong⁴ (1. Yeungnam University, 2. Pukyong National University, 3. Korea University, 4. Inha University)

11:10 AM - 11:25 AM JST | 2:10 AM - 2:25 AM UTC

[4R107] Microparticle Sensing of Whole Droplet Using Rayleigh-Type Surface Acoustic Wave

Shun Koda¹, Takahiro G Yamada², Yuta Kurashina¹ (1. Tokyo University of Agriculture and Technology, 2. University of California, San Diego)

11:25 AM - 11:40 AM JST | 2:25 AM - 2:40 AM UTC

[4R108] Model-Based Design of a Piezoelectric Microtransducer for a Co-Resonant Nano-Mass Spectrometer

Willi Ron¹, Xiao Xiao², Nynne Britt Edeler², Raphael Hasterok¹, Felix Herrmann³, Stefan Zimmermann³, Marc Christopher Wurz², Jens Twiefel¹ (1. Leibniz University Hannover, Institute of Dynamics and Vibration Research, 2. Leibniz University Hannover, Institute of Micro Production Technology, 3. Leibniz University Hannover, Institute of Electrical Engineering and Measurement Technology)