

2026 International Conference on Physics and Mechanics of New Materials and Their Applications Advanced Materials Development & Performance

PHENMA/AMDP 2026



Organized by



**NATIONAL
KOREA MARITIME &
OCEAN UNIVERSITY**



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The Korean Society for Composite Materials



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**Hybrid Material Dispersion
Technology Alliance**

**Laser Advanced Machining
Support Center**



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Directions & Venue Information





Banquet Place

Google map address :
PArk, 180 Haeyang-ro 195beon-gil, Yeongdo-gu, Busan



Presentation Place
Library & B1 Building

Sea Wall Road

Google map address :
Korea Maritime & Ocean University Graduate School of Maritime Industries, 727, Taejong-ro, Yeongdo-gu, Busan, Republic of Korea (49112)



Citadines Connect Hotel

Google map address :
Citadines Connect Hari Busan, 58 Dongsam ocean-ro, Yeongdo-gu, Busan

Program Schedule

Day 1 (July 15, 2026) - Wednesday		
Time	Activity	Place
13:00-16:00	Conference Pre-Meeting	Engineering Building 1
16:00-18:00	Registration of the PHENMA 2026 participants at Registration desk	

Day 2 (July 16, 2026) - Thursday		
Time	Activity	Place
09:00-10:00	Registration of the PHENMA/AMDP 2026 participants at Registration desk	Library 2nd floor, Kim Kang-hee Hall
10:00-10:03	Chairperson: Dr. Se-Yoon Kim	
10:03-10:12	Opening address: Prof. Kim Yun Hae, Welcoming speech: President of KMOU, Ryoo Dong Keun Congratulatory address: Prof. Shun-Hsyung Chang, Prof. Mikito Yasuzawa and Prof. Ivan A.Parinov	
10:12-10:30	Group photo	
10:30-10:40 (10min)	Break	
10:40-11:20 (40min)	Keynote Speech I (Taiwan)	Library 2nd floor, Kim Kang-hee Hall
11:20-12:00 (40min)	Keynote Speech II (Japan)	
12:00-13:20 (80min)	Lunch Break	
13:20-14:25 (65min)	Parallel Sessions (Invited and Oral Presentations)	Room 1~5
14:25-14:40 (15min)	Tea Break	
14:40-15:45 (65min)	Parallel Sessions (Invited and Oral Presentations)	Room 1~5

Day 3 (July 17, 2026) - Friday		
Time	Activity	Place
09:00-10:00	Registration of the PHENMA/AMDP 2026 participants at Registration desk	Engineering Building 1
10:00-10:40 (40min)	Keynote Speech III (Japan)	Engineering Building 1, 2 nd floor
10:40-11:20 (40min)	Keynote Speech IV (Russia)	
11:20-11:30 (10min)	Tea Break	
11:30-12:10 (40min)	Keynote Speech V (Korea)	Engineering Building 1, 2 nd floor
12:10-13:30 (80min)	Lunch Break	
13:30-14:35 (65min)	Parallel Sessions (Invited and Oral Presentations)	Room 1~5
14:35-14:45 (10min)	Tea Break	
14:45-15:50 (65min)	Parallel Sessions (Invited and Oral Presentations)	Room 1~5
15:50-16:50 (60min)	Poster Presentation	Room 6, 7
16:50-18:00 (70min)	Move to the Banquet (P. ARK)	Bus
18:00-21:00	Banquet and Closing Ceremony (Chair: Prof. Koinkar)	

Day 4 (July 18, 2026) - Saturday		
Time	Activity	Place
09:00-16:00	Technical Tour	

PHENMA/AMDP 2026 Oral

Day 2 (July 16, 2026) - Thursday

Library, 2nd Floor, Kim Kang-Hee Hall

10:00-12:00 (120min)	PHENMA / AMDP 2026 Opening and Keynote Speeches Session Chair: Dr. Se-Yoon Kim	
10:00-10:30 (30min)	Opening address: Prof. Kim Yun Hae, Welcoming speech: President of KMOU, Ryoo Dong Keun Congratulatory address: Prof. Shun-Hsyung Chang, Prof. Mikito Yasuzawa and Prof. Ivan A.Parinov	Library 2nd Floor Kim Kang-hee Hall
10:30-10:40 (10min)	Group Photo & Tea Break	
10:40-11:20 (40min)	The Wave of Silicon: Past, Present, and Future of the Semiconductor Industry. (Prof. Chai-Sheng Wen, National Taiwan Ocean University, Taiwan)	Keynote Speech I
11:20-12:00 (40min)	Effective approaches for enhancing the Photocatalytic activities of Bismuth Halide-Based Nanocomposites (Prof. Pankaj Koinkar, Tokushima University, Japan)	Keynote Speech II

Room 1

Oral (12 min presentation / 3 min Q&A)

13:20-14:25 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Se-Yoon Kim and Dr. Antonio Nakagaito)	Nanoscience
13:20-13:40 (20min)	Molding of all-cellulose plates by filtration of nanofiber aqueous suspension (Antonio Norio Nakagaito, Japan)	Invited speaker (17min presentation / 3min Q&A)
13:40-13:55 (15min)	Spin-state Manipulation of Fe Single Atom Catalysts for Enhanced Bifunctional ORR/OER Performance (Yongfang Zhou, New Zealand)	Oral 1
13:55-14:10 (15min)	Reduction of carbon dioxide using electrodes modified with copper hydroxide nanosheets incorporating fatty acid ions (Masashi Kurashina, Japan)	Oral 2
14:10-14:25 (15min)	Environmentally Safe Hydrogel-hydrochar Composites: from Synthesis to Practical Application (Margarita Getman, Ekaterina Kravchenko, Tatiana Minkina, Dariya Privizentseva, Russia)	Oral 3
14:25-14:40 (15min)		Tea Break
14:40-15:45 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Huang-Chang Lee)	Nanoscience
14:40-15:00 (20min)	Metal-Triggered Electrochromic Device with Gel Electrolyte. (Min Yen Yeh, Ming Jia Liu, Yun-Shiuan Yeh, Jin-Hau Yeh, Chi-Da Yang, Yu-Hung Chen, Shun Hsyung Chang, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
15:00-15:15 (15min)	Phase Stability and Domain Dynamics in PNN–PLN–PT Ceramics: Insights from Composition and Hf ⁴⁺ Perturbation (Yubin Li, Zhimin Li, Yangxi Yan, Ri-ichi Murakami, and Dongyan Zhang)	Oral 1
15:15-15:30 (15min)	Synthesis of Porous SiO ₂ Particles using the Bio Template of Escherichia Coli for Radiative Cooling Applications (Uzma Qazi, Dwi Fortuna Anjusa Putra and Shao Ju-Shih*)	Oral 2
15:30-15:45 (15min)	Synergistic Integration of Plasmonic Au and MoS ₂ Co-Catalyst in TiO ₂ for Hydrogen Evolution Under Visible Light (Minhaz Md Hussain, Japan)	Oral 3

Room 2

Oral (12 min presentation / 3 min Q&A)

13:20-14:25 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Kei-ichiro Murai and Dr. Sung-Won Yoon)	Structure
13:20-13:40 (20min)	Suppression of Hygroscopicity in Y-Substituted $\text{In}_2\text{Mo}_3\text{O}_{12}$ Negative Thermal Expansion Materials by K^+ Incorporation (Keiichiro Murai, Japan)	Invited speaker (17min presentation / 3min Q&A)
13:40-13:55 (15min)	Engineering yttrium distribution in spray pyrolyzed yttrium aluminum silicate glass particles with bioactivity and cytotoxicity evaluation in vitro (Yu Jen Chou, Taiwan)	Oral 1
13:55-14:10 (15min)	Morphology-Tuned Fe_2O_3 -Based Heterostructures for Sustainable Photocatalytic Degradation (Niloy Paul, Japan)	Oral 2
14:10-14:25 (15min)	Role of Pt Thickness and Nanoparticles in Liquid-Nitrogen-Enabled Nitrogen Incorporation for p-Type ZnO Thin Films. (Yi-Jing Chen, Han-De Chen, Xu-Yi Jie, Jun-Ting Wu, Lin-Wei Yang, Jian-Fu Tang)	Oral 3
14:25-14:40 (15min)		Tea Break
14:40-15:45 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Seong-Yeol Ba and Dr. Chih-Yuan Hsu)	Structure
14:40-15:00 (20min)	Optimization of SAE 8620 Steel 3D Printing Mold Processes and Evaluation of Physical Foaming Formability for Enhanced Elastomeric Performance of Industrial Foams (Jin-Woo Lee, Korea)	Invited speaker (17min presentation / 3min Q&A)
15:00-15:15 (15min)	Comparison of Joining Characteristics of Aluminum/Thermoplastic Composite Hybrid Joints According to Surface Treatment Methods (Ji-Yeol Kim, Korea)	Oral 1
15:15-15:30 (15min)	Influence of High-Temperature Isothermal Exposure on the Crystallization Behavior and Mechanical Properties of CF/PEKK Composites (Min-Jun Kim, Korea)	Oral 2
15:30-15:45 (15min)	Modified Fields–Backofen Constitutive Modelling of Cold Deformation Behaviour for 10B38 Boron Steel. (Hong-Thao Pham, Thanh-Cong Nguyen, Quang-Cherng Hsu, Taiwan)	Oral 3

Room 3

Oral (12 min presentation / 3 min Q&A)

13:20-14:25 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Hitoshi Mizuguchi and Dr. Chang-Wook Park)	Analysis
13:20-13:40 (20min)	Chromatographic Signatures of Electrochemical Reversibility in HPLC with Multi-TEME Detection (Hitoshi Mizuguchi, Japan)	Invited speaker (17min presentation / 3min Q&A)
13:40-13:55 (15min)	Effects of Surface-Modified Starting Powders on the Sintering Properties of $(\text{Mg}_{0.2}\text{Ni}_{0.2}\text{Zn}_{0.2}\text{Co}_{0.2}\text{Mn}_{0.2})_2\text{SiO}_4$ Ceramics (Shao-Ju Shih, Taiwan)	Oral 1
13:55-14:10 (15min)	Computational Schemes for Determining Parameters of Nonlinear Elastic Materials (S.A. Egorova, M.I. Karyakina, Russia)	Oral 2
14:10-14:25 (15min)	Sensitive Determination of PET and PC in Airborne Particulate Matter by Thermochemolysis-GC/MS (Ogawa Tomoya, Japan)	Oral 3
14:25-14:40 (15min)		Tea Break
14:40-15:45 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Sung-Min Yoon and Prof. Shao-Ju Shih)	Analysis
14:40-15:00 (20min)	Magnet Reduction and Efficiency Limit Analysis of a Small External Rotor BLDC Motor for Precision Applications. (Chun-Yu Hsiao, Yu-Pei Cai, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
15:00-15:15 (15min)	Hydrochar as a Waste Product with Added Value (Dariya Privizentseva, Ekaterina Kravchenko, Margarita Getman, Russia)	Oral 1
15:15-15:30 (15min)	Electrostatic Discharge Susceptibility of DDR5 DIMM Analyzed via Electromagnetic Simulation. (Yu-Lin Chiu, Jyh-Liang Wang, Taiwan)	Oral 2
15:30-15:45 (15min)	Effect of bias voltage on X-ray elastic constant and residual stress in titanium nitride films (Kazuya Kusaka, Japan)	Oral 3

Room 4

Oral (12 min presentation / 3 min Q&A)

13:20-14:25 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Weison Li and S.A. Egorova)	Sensing & Architecture
13:20-13:40 (20min)	MXene Based Self-Powered Monitoring of Environmental Pollutants and Biomarkers (Aman Mahajan, India)	Invited speaker (17min presentation / 3min Q&A)
13:40-13:55 (15min)	Fractional Hypersingular Diffusion Layer for Robust Signal Denoising on Metric Graphs (Yu. E. Drobotov, Russia)	Oral 1
13:55-14:10 (15min)	Polycarbonate Transfer Technique for 2D Semiconductor Devices (Meng-Lin Tsai, Taiwan)	Oral 2
14:10-14:25 (15min)		Oral 3
14:25-14:40 (15min)		Tea Break
14:40-15:45 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Chiao-Yun Chang and Dr. Masashi Kurashina)	Sensing & Architecture
14:40-15:00 (20min)	SrMnO₃-based Self-rectifying Memristor Crossbar Arrays. (Yu-Hao Chen, Cheng-Yu Wu, Yu-En Huang, Ting-Hsuan Tsai, Hsin-Ti Chiu, Yueh-Wei Chen, Yu-An Chiu and Chen-Fang Kang)	Invited speaker (17min presentation / 3min Q&A)
15:00-15:15 (15min)	Architecture-Optimized Ag–CsPbI ₃ Platforms for PIERS Detection. (Chih-Yi Liu, Jhih-Yan Guo, Dian Luo and Shun-Wei Liu, Taiwan)	Oral 1
15:15-15:30 (15min)	GaN Based UV Photodetector Application as Optical Communication with Biorobot Control (Cheng-Yu Wu, Pei-Yi Liang, Hsin-Ti Chiu, Chia-Kuan Hung, Wen-An Chen, Yu-An Chiu, Yueh-Wei Chen, Chun-Yi Chen, Chih-Min Chuang, Zun-Hao Shih, Dung-Sheng Tsai, Chen-Fang Kang, Taiwan)	Oral 2
15:30-15:45 (15min)	A Multi-Mode 24 GHz mm Wave Radar Sensing System for Privacy-Preserving Home Security Applications. (Chun-Yu Hsiao, Jao-Yi Lin, Yichao Wang, Taiwan)	Oral 3

Room 5

Oral (12 min presentation / 3 min Q&A)

13:20-14:25 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Chun-Yu Hsiao and Chih-Tsung Chang)	AI
13:20-13:40 (20min)	Deep Learning-based Feature Extraction for 40 Hz SSVEP Recognition in Flicker-Free Neuromodulation Systems. (Hong-Ming Lin, Chih-Tsung Chang, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
13:40-13:55 (15min)	Neuromorphic Memristor via Machine Learning. (Yu-Cheng Wang, Ya-Ge Huang, Guan-Lin Li, Yu-Kai Shen, Taiwan)	Oral 1
13:55-14:10 (15min)	Quantum Transport in Simple Structure Based Neuromorphic Memristor via Machine Learning. (Yu-Hao Chen, Ting-Hsuan Tsai, Yu-En Huang, Hsin-Ti Chiu, Cheng-Yu Wu, Chen-Fang Kang, Taiwan)	Oral 2
14:10-14:25 (15min)	Machine Learning Approach for Stationary State Problems of One-dimensional Schrödinger Equation in Self-rectifying Memory Array. (Yu-An Chiu, Yueh-Wei Chen, Ting-Hsuan Tsai, Yu-En Huang, Chen-Fang Kang*, Taiwan)	Oral 3
14:25-14:40 (15min)		Tea Break
14:40-15:45 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Yi-Chieh Hsu and Dr. Sung Won Yoon)	Sensing & Architecture
14:40-15:00 (20min)	Influence of ZnO Doping Concentration and Resistive Layer Thickness on Switching Characteristics and Conduction Mechanisms of Flexible RRAM Devices. (Yuan-Nan Tsai*, Chen-Jui Yang, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
15:00-15:15 (15min)	An Enhanced Ripple-Based Regulator with Master-Slave RS Control and Dual-Loop Feedback. (Yi-Chieh Hsu*, Yi-Cheng Lai, Taiwan)	Oral 1
15:15-15:30 (15min)	A Stable and High-Efficiency Boost Converter LED Driver with PWM Control for High-Voltage Applications. (I-Wen Chang, Yi-Chieh Hsu, Taiwan)	Oral 2
15:30-15:45 (15min)	A Switched Capacitor Regulator with Low Input Voltage for Energy Harvesting System. (Yi-Chieh Hsu, I-Wen Chang, Yu-Cheng Liang, Yi-Cheng Lai, Taiwan)	Oral 3

Day 3 (July 17, 2026) - Friday

Main Hall (Room 1)

	Chair: Prof. Pankaj Koinkar	
10:00-10:40 (40min)	Solution of an Edge Crack in a Semi-infinite Plate of General Anisotropy Subjected to a Self-equilibrating Loads at a Crack Face (Prof. Akihide Saimoto, Nagasaki University, Japan)	Keynote Speech III
10:40-11:20 (40min)	Building an Optimal Radar Sequence of Binary Phase-manipulated Signals as a Discrete Optimization Problem and Various Heuristic Approaches to its Solution. (Prof. Boris Melnikov, Bo Zhang, Elena Melnikova, Russia)	Keynote Speech IV
11:20-11:30 (10min)	Tea Break	
11:30-12:10 (40min)	Current Status of Domestic and International Standardization of Key Materials in Korean Industry (Dr. Chi-Sung Song, National Standard Coordinator, Korea)	Keynote Speech V

Room 1		
Oral (12 min presentation / 3 min Q&A)		
13:30-14:35 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Chih-Yi Liu and Dr. Meng-Lin Tsai)	AI
13:30-13:50 (20min)	Automated Optical Inspection Platform for Micro-LED Matrices Integrating Embedded Control and Deep Learning. (Wei Cheng Chen, Tzu Hsun Kao, Min Yen Yeh, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
13:50-14:05 (15min)	Adaptive Control of a Robotic Manipulator with Nonlinear Dynamics Using Hybrid Neural Network Control Loops N.K. (Litvinov, Yu. E. Drobotov, Russia)	Oral 1
14:05-14:20 (15min)	An Investigation into the Impact of Environmental Factors on the Stability of Remote Monitoring Systems in Animal Shelters Using Open Meteorological Data (Yu-Cheng Wang, Taiwan)	Oral 2
14:20-14:35 (15min)	Numerical Investigation of Placement and Geometry Effects of PZT Patches on MEMS Cantilever Electromechanical Behavior (hubham Kumar Mishra, Abhinav Sharma, Mohd. Zahid Ansari, Afzal Husain, Russia)	Oral 3
14:35-14:45 (10min)		Tea Break
14:45-15:50 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Kyo-Moon Lee)	Structure
14:45-15:05 (20min)	Black-box Optimization Techniques for Modelling New Materials (P.A. Oganessian, E.I. Fomenko, S.A. Gorshkov, A.V. Vissarionova, Russia)	Invited speaker (17min presentation / 3min Q&A)
15:05-15:20 (15min)	Prediction and Validation of Mechanical Properties of Fiber-Reinforced Composites Using Physics-Based Modeling and Machine Learning (Soonmin Hong, Korea)	Oral 1
15:20-15:35 (15min)	A Study on the Properties of Composites Using Vitrimer Resin Based on an Automated Intermediate Material Manufacturing Process (Min-Ji Koo, Korea)	Oral 2
15:35-15:50 (15min)	Microstructure and Electrical Properties of RF Magnetron Sputtered MoC Thin Films for Precision Resistor Applications (Ying-Chieh Lee, Taiwan)	Oral 3

Room 2

Oral (12 min presentation / 3 min Q&A)

13:30-14:35 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Boris Melnikov, Dr. Jin-Woo Lee)	Structure
13:30-13:50 (20min)	Film Structure and Corrosion Protection Mechanisms of Film-Forming Amines: Role of Surface Oxidation State and Hydrophobicity (Ken Yoshida, Japan)	Invited speaker (17min presentation / 3min Q&A)
13:50-14:05 (15min)	Suppression Strategy for Crack-Tip Stress Concentration in Lip-Type Cracks under Coupled Mechanical and Electrothermal Loading (Wan-Yu Xu, Yi-Lun Liao, Ching-Kong Chao, Yu-Hsi Huang, Taiwan)	Oral 1
14:05-14:20 (15min)	Atomistic Mechanism of Friction-Force Independence on the Normal Load and Other Friction Laws for Dynamic Structural Superlubricity (Nikolay Brilliantov, Russia)	Oral 2
14:20-14:35 (15min)	Metal Decorated BiVO ₄ with Improving Photocatalytic Performance (Trinh Duy Nguyen, Vinh Huu Nguyen, Que-Minh T. Doan, Truc Thai Thanh, Oanh T.K. Nguyen, Taeyoon Lee)	Oral 3
14:35-14:45 (10min)		Tea Break
14:45-15:50 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Kazuya Kusaka and Dr. A. S. Kornievsky)	Analysis
14:45-15:05 (20min)	Hypersingular Integral Inversion of Mean-Field Potentials for Non-Destructive Mapping of Defect Distributions in Advanced Materials (Yu. E. Drobotov, Russia)	Invited speaker (17min presentation / 3min Q&A)
15:05-15:20 (15min)	Numerical Investigation and Comparison of Effective Elastic Properties of Regular Porous Structures (A.S. Kornievsky, A.V. Nasedkin, Russia)	Oral 1
15:20-15:35 (15min)	Analysis of the Friction–Wear Correlation of Tire Tread Compound Considering Strain-Dependent Nonlinear Viscoelastic Properties (Hyunseung Kang, Korea)	Oral 2

Room 3

Oral (12 min presentation / 3 min Q&A)

13:30-14:35 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Toshihiro Moriga)	Analysis
13:30-13:50 (20min)	Influence of Silicone Oil Viscosity on Laser Cleaning Effects of A3003 Aluminum Alloy Surfaces (Sunghwan Kim, Korea)	Invited speaker (17min presentation / 3min Q&A)
13:50-14:05 (15min)	Analysis of Re-solidified Metal Layer Formation during Underwater Laser Cutting of Stainless Steel for Nuclear Decommissioning (Jaecook Jeon, Korea)	Oral 1
14:05-14:20 (15min)	ECHO LOG: A Study on Sonic Visualization and Interactive Experience of Delphinid Cetaceans in Taiwan Waters. (Wang Yun-Han, Xu Ruo-Zhen, Luo Yu-Ching, Qiu Xiang-En, Chen Cheng-Huan, Lan Wei-Hsien, Chang Shun-Hsyung, Wen Chai-Sheng, Lu Shi-Ming, Taiwan)	Oral 2
14:20-14:35 (15min)	Micromechanics-based Modeling of Electrical Conductivity in CNT-reinforced Cementitious Composites (Seoyoung Moon, Korea)	Oral 3
14:35-14:45 (10min)		Tea Break
14:45-15:50 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. S.A. Lychev and Mr. Sung Uk Yoo)	Analysis
14:45-15:05 (20min)	A Fast and Accurate Quasi-atom Method Hybrid Model for Simultaneous Atomistic and Continuum Simulation of Solids (Artem Chuprova, Egor Nuzhin, Nikolay Brilliantov, Russia)	Invited speaker (17min presentation / 3min Q&A)
15:05-15:20 (15min)	Space-Time Symmetries and Gauge Invariance in the Geometric Theory of Evolving Defects: A Noether Current Approach to Configurational Forces (S.A. Lychev, Russia)	Oral 1
15:20-15:35 (15min)	Distribution of Mode-I Thermal Stress Intensity Factor along a Front of Three-dimensional Surface Crack due to an Instantaneous Internal Point Heat (Yohei Sonobe, Shinichi Kubota, Takuichiro Ino Atsuhiko Koyama, Akihide Saimoto)	Oral 2
15:35-15:50 (15min)	Synergistic Enhancement Mechanisms and Design Strategies for PHT-Based Piezoelectric Ceramics with High Curie Temperature (Peng Zhang, China)	Oral 3

Room 4

Oral (12min presentation / 3min Q&A)

13:30-14:35 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. P. A. Oganessian and Dr. Ken Yoshida)	Sensing & Architecture
13:30-13:50 (20min)	Increasing Diamond Ore Beneficiation Process Efficiency with LMS-driven Production Simulation and VR/AR-approaches (V.A. Afanasyev, S.A. Tyasto, Russia)	Invited speaker (17min presentation / 3min Q&A)
13:50-14:05 (15min)	Green Graphene-Based Flexible Sensors for Wireless and Real-Time Pulse Monitoring. (Chiao-Deng Yeoh, Chen-Fang Kang, Dung-Sheng Tsai, Taiwan)	Oral 1
14:05-14:20 (15min)	Physics-Informed U-NET for Label-Free Stress Analysis in 3D Lattice Structure Design (Seunghyun Kim, Korea)	Oral 2
14:20-14:35 (15min)	An AI-Driven Dynamic Questionnaire System to Streamline Pre-Consultation for the Elderly (Chih-Fu Yang, Taiwan)	Oral 3
14:35-14:45 (10min)		Tea Break
14:45-15:50 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Prof. Daisuke Yonekura)	Sensing & Architecture
14:45-15:05 (20min)	A Finger-worn Responsive Bio-inspired Controller Utilizing a Silver-ink Force Sensing Resistor. (Yueh-Wei Chen, Yu-An Chiu, Cheng-Yu Wu, Hsin-Ti Chiu, Chen-Fang Kang, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
15:05-15:20 (15min)	Development of Large-Area Flexible CsPbBr ₃ Perovskite Quantum Dot LEDs. (Kuan-Yu Ke, Wu-Kai Tsui, Yin-Ting Hsu, Sih-An Chen, Lung-Chien Chen, Zong-Liang Tseng, Shun-Hsyung Chang, Taiwan)	Oral 1
15:20-15:35 (15min)	Rapid UTI Diagnostics using ITO EGFET with LAMP techniques (Chun-Ming Albert Wang, Taiwan)	Oral 2

Room 5

Oral (12min presentation / 3min Q&A)

13:30-14:35 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Chen-Fang Kang and Prof. Yohei Sonobe)	Analysis
13:30-13:50 (20min)	Green Synthesis of β-Tricalcium Phosphate Particles from Waste Eggshells: A Comparative Study of Different Processes for Radiative Cooling (Yang Yu Hsuan, Taiwan)	Invited speaker (17min presentation / 3min Q&A)
13:50-14:05 (15min)	An End-to-End Simulation Framework for Piezoelectric Transducer Systems in Underwater Acoustic Communication (Nhut Thang Le, Cong Toai Truong, Ngoc Hung Nguyen, Quang Huy Cao, Huy Hung Nguyen, Tan Tien Nguyen, Van Tu Duong)	Oral 1
14:05-14:20 (15min)	Flame-Retardant Self-Reinforced PET Composites for Circular Automotive interior Panel (Se-Yoon Kim, Korea)	Oral 2
14:20-14:35 (15min)	Dry-Jet Wet-Spun Bamboo-Derived Continuous Cellulose Fibers for Composite Applications (Eunseok Lee, Korea)	Oral 3
14:35-14:45 (10min)		Tea Break
14:45-15:50 (65min)	Parallel Sessions (Invited and Oral Presentations) (Session chair: Dr. Sung Youl Bae)	Structure
14:45-15:05 (20min)	A Portable Double-Acting Piston Pump for Biomedical Applications: Design, Modeling, and Experimental Evaluation (Cong Toai Truong, Trung Dat Phan, Huy Hung Nguyen, Tan Tien Nguyen, Van Tu Duong)	Invited speaker (17min presentation / 3min Q&A)
15:05-15:20 (15min)	A Study on the Mechanical-Thermal Properties of Reformed Perlite Cores and BF/HDPE Sandwich-Structured Composites (Hyeon-Mok Jung, Korea)	Oral 1
15:20-15:35 (15min)	Development of Ti-Zr alloys with various pore structures and their mechanical properties for load-bearing implant materials (Seok-june Seo, Tomoyuki Fujii and Yoshinobu Shimamura)	Oral 2
15:35-15:50 (15min)	Comparative Study of TiC and TiN Reinforced CoCrFeNiAl High Entropy Alloy Composites Fabricated by Laser Powder Bed Fusion (Juwon Kim, Korea)	Oral 3

PHENMA/AMDP 2026 Poster

Room 6, 7 Chair Dr. Se-Yoon Kim		
No.	Paper title	Name
1	Improvement in Strength Variation of Bi-Zn Solder/Glass Joints Bonded Using Ultrasonic Soldering Method	Yuuto Nakanishi
2	Synthesis and Electronic Structure Characterization of Nanostructured Fe–Co–Ni Phosphides for Hydrogen Evolution	Sheng-Chang Wang
3	Interfacial Reactions Between Multi-walled Carbon Nanotubes-reinforced Sn-3.0 wt.%Ag-0.5 wt.%Cu Composite Solder With Cu	Yi-Pin Lin
4	In Situ Polymerization of HCl-doped Polyaniline on PET Fabrics for Robust, and Flexible Humidity Sensors	Cheng-Ho Chen
5	Effect of Polyaniline Content on the Performance of Humidity Sensors Based on Self-Fabricated Flexible Interdigitated Electrodes	Tzu-Yi Lin
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Note

