Kyushu University & National Taipei University of Technology

2025 JOINT SYMPOSIUM

Pioneer Research for Sustainable Development

AGENDA (Nov.27, Inamori Memorial Hall)

Time	Speakers
9:00-9:10	Opening Remarks (Group Photo)
Session A1 9:10-10:30	**Prof. Soichi YAMAGUCHI (KU)** *Digital Twin Applications in Harmful Algal Bloom Forecasting: First Field Implementation for Karenia Mikimotoi and Chattonella Spp.* **Prof. Yasuyuki MARUYA (KU)** *Climate Change Impact Assessment on Water Resources and Environment in a Catchment* **Prof. Yu-Cheng LIN (TT)** *Developing BIM-based Project Risk Management System in Construction* **Prof. Sunbin YOO (KU)** *Measuring Urban Transport Resilience as Accessibility Loss: Evidence from Flood and Rail Disruptions*
10:30-10:50	Break (Group Photo)
Session A2 10:50-12:30	**Prof. Yi-Hsuan Lee (TT)** *Development of Fe-Based Spinel Materials as Electrodes for SOFCs and SOECs* **Prof. Irwan SIMANULLANG (KU)** *Study on Composite-Based Moderators for Small Modular High-Temperature Gas-Cooled Reactors* **Prof. Zhenying (Jane) WANG (KU)** *Generalizing Classical Theories of Wetting to Real Liquids* **Prof. Hsiu-Hui CHEN (TT)** *Meniscus-Assisted Solution Shearing Enables Highly Ordered Molecular Alignment for Stable Organic Electrical Devices Performance* **Prof. Shao–Sian LI (TT)** *Magnetic Field-Driven Spin Polarization in Cobalt-Doped MoS_2 for Efficient N_2 to NH_3 Conversion*
12:30-13:30	Lunch @ Salon Room
Session B1 13:30-14:50	**Prof.Natsuki TSUSHIMA (KU)** *Aeroelastic-Flight Analysis Framework for Next Generation Aircraft* **Prof. Chin-Wen CHEN (TT)** *Poly(butylene-co-2,6-naphthalate) Copolyesters: Tailoring Structure for Self-healing Elastomers and Melt-spun Fibers* **Prof. Jhe-Yu LIN (TT)** *Microstructure Evolution in Ultrasonic Welding For Battery Cell Tabs Applications* **Prof. Wei-Tsu PENG (TT)** *Nanoscale Energy Transport in Metallic and Non-metallic Materials*
14:50-15:10	Break
Session B2 15:10-16:50	**Prof. Chun-Che LIN (TT)** *Inkjet-Printable Anti-Counterfeiting Ink Enabled by Microfluidic-Synthesized NIR PbS/CdS Quantum Dots* **Prof. Ryusei SAEKI (KU)** *Synthesis of Functional Metallic Materials via Electrochemical Deposition* **Prof. Po-Chun CHEN (TT)** *Iridium Oxide Based Electrode for Bio-Interface and Energy Applications* **Prof. Hiroshi NARAGINO (KU)** *Diamond-Based Sensors for Extreme Environments* **Prof. Ying-Chao HSU (TT)** *Heterogeneous Integration: Market Trends, Challenges and Innovations*
16:50-17:00	Closing Remarks