



Sep. 4-5, 2025

Science Tokyo

Ookayama Campus (Sep. 4)  
Yushima Campus (Sep.5)  
Suzukakedai Campus (Sep.5)

# NCKU and Science Tokyo Technical Forum Summer, 2025; Suzukake Site



**Sep. 5, 2025@Suzukake Hall**

**9:45-9:50 Opening Remarks Takayuki Ohba (Prof. WOW Alliance Leader, Science Tokyo, IIR)**

**9:50-11:30 Key Note Session Chair. Prof. T.Yoda**

Yan-Kuin SU (Dean NCKU, AISSM) Fabrication of High Current GaN-Based HEMT on Si/SiC

Takashi Yoda (Prof. Science Tokyo, IIR) Wide Bandgap Power Devices and Modules: Fundamentals and Advanced Applications

Wei-Chou Hsu (Associate Dean, NCKU, AISSM) A High Performance Ga<sub>2</sub>O<sub>3</sub>/Sapphire Field-Effect Transistor by Mist CVD

Tatsuya Funaki (Murata Manufacturing Co.) COW Integration Technology for Capacitor Embedded Interposer

Yu-Lung LO (Associate Dean, NCKU, AISSM) A Hybrid Process to Reduce the Taper Angle of the Drilling Hole on SiC

**13:00-14:00 Supercomputer Tour (Supercomputing Research Center) Assoc. Prof. Toshio Watanabe**

**14:15-15:30 Presentation 1 Chair: Prof. T.Nakamura**

Toru Inoue (Prof. Science Tokyo, CIM) T.B.D. (Overview of the Center for Innovation Management (CIM))

Chi-Hua YU (Associate Prof. NCKU, AISSM) Intelligent Design Automation and Thermal Management for Advanced Packaging

Hiroyuki Ryoson (Dexerials Co.) Multiscale Thermal Management and Simulation for High Performance Computing

Yu-Chen LIU (Assistant Prof. NCKU, AISSM) Material Property Modulation via Machine Learning Method: Electronic Packaging Applications

**15:50-17:10 Presentation 2 Chair: Prof. N.Chujo**

Ming-Chi Chou (Prof. NCKU, AISSM) The Latest Development of the Next Generation Semiconductor at NCKU

Yoko Fujita (ZUKEN Inc.) Design Environment for Heterogeneous Integration

Jun MIZUNO (Prof. NCKU, AISSM) Surface Treatment Using DLC and its Applications

Norio Chujo (Prof. Science Tokyo) Bumpless Build Cube (BBCube™) 3D: Heterogeneous 3D Integration Using WOW and COW

**17:10-17:15 Closing Remarks Yoichi Oshima (Vice President, Science Tokyo)**

**17:30~ Social gathering @H-1 Bldg., 3F lounge**

## Contact

NCKU Forum Secretary

[ncku\\_forum2025@first.iir.isct.ac.jp](mailto:ncku_forum2025@first.iir.isct.ac.jp)