

東京大学 大学院工学系研究科

附属ナノシステム集積センター (NanoHub)

**“National Taiwan University Day”**

- from bio-chemical to advanced electron devices and sensors -

**2025年7月28日 9:30-19:00****09:30 Welcome coffee****武田先端知ビル102 VDEC Seminar Room****09:45 Part A: Official welcome and overview presentation**

Chair: Prof. Yoshio Mita

09:45 Welcome address and Presentation of School of Engineering  
- Prof. Kohei Tsumoto, vice dean, School of Engineering, UTokyo10:05 Presentation of Institute of Industrial Science  
- Prof. Hiroshi Toshiyoshi, director of IIS, UTokyo10:20 Presentation of National Taiwan University, College of EECS  
- Prof. Jian-Jang Huang, Associate Dean of the College of Electrical Engineering and Computer Science, NTU10:35 Presentation of National Taiwan University, Graduate School of Advanced Technology (GSAT), NTU  
- Prof. Chien-Fu Chen (on behalf of Prof. Chih-Ta Chiueh, Dean of GSAT)**10:50 Group photo and coffee break****11:10 Part B topical session1: Bio-chemical and soft N/MEMS**

Chair: Prof. Yoshio Mita

11:10 CMOS-NEMS bio-chemical sensors  
- Prof. Chih-Ting Lin, Department of Electrical Engineering, NTU11:25 Bio-TFT devices and cardiomyocyte measurement  
- Dr. Tixier-Mita Agnes, Institute of Industrial Science, UTokyo11:40 Tuning Bioelectronic Interfaces via Electropolymerized Functional Conducting Polymers  
- Prof. Shyh-Chyang Luo, Prof. of the Department of Materials Science and Engineering, NTU11:55 Adhesive free bonding method by plasma activation for creating integrated flexible devices.  
- Dr. Masahito Takakuwa, Institute of Engineering Innovation, UTokyo12:15 Presentation of Department of Electrical Engineering and Information Systems & NanoHub  
- Prof. Yoshio Mita (on behalf of Prof. Yoshihiro Kawahara, department chair), UTokyo**12:20 Lunch and international collaboration discussion, SCR visit (upon an invitation)****14:00 Part B topical session2: Advanced Electron Devices and Processes**

Chair: Dr. Ryosho Nakane

14:00 Development of lateral and vertical nitride transistors  
- Prof. Jian-Jang Huang, Associate Dean of the College of Electrical Engineering and Computer Science, NTU14:15 Transport properties of 2DEG in ScAlN/GaN heterostructure  
- Dr. Takuya Maeda, Dept. of Electrical Engineering and Information Systems, UTokyo14:35 Design Optimization and Thermal Management of 3DIC  
- Prof. Tzu-Hsuan Chang, Assoc. Prof. of the Department of Electrical Engineering, NTU14:50 Nanogap pattern generation by Electron Beam lithography of VSB/CP method  
- Dr. Akio Higo, Advantest D2T endowed course, Systems Design Lab. (d.lab), UTokyo15:15 Analytical Devices for Advanced Semiconductor Processing  
- Prof. Chien-Fu Chen, Director of the Center for Semiconductor Processing and Systems Research,  
Graduate School of Advanced Technology, NTU**15:30 Coffee break****15:50 Part B topical session3: New Nano Materials and Electromechanical Devices**

Chair: Dr. Shun Yasunaga

15:50 Spin-wave-based reservoir computing  
- Dr. Ryosho Nakane, Nanosystem Integration endowed course, Systems Design Lab (D.lab), UTokyo16:05 Energy Storage and Harvesting of Hafnium Oxide for 3D Package Applications  
- Prof. Min-Hung Lee, Director of the Program for Semiconductor Devices, Materials, and Hetero-integration,  
Graduate School of Advanced Technology, NTU16:20 Optical Phase Shifter Based on Phase Change Material  
- Dr. Yuto Miyatake, Systems Design Lab (D.lab), UTokyo16:35 Nanowire and Sensors  
- Prof. Yi-Chia Chou, Prof. of the Department of Materials Science and Engineering, NTU16:50 Bistable MEMS for New Computing  
- Dr. Shun Yasunaga, Dept. of Electrical Engineering and Information Systems, UTokyo**17:10 Wrap-up and reception****19:00 The end of the day**参加費無料・登録制 (人数把握のため) <https://forms.gle/ezXorVpF4ZZZbZAK8>主催：東京大学 大学院工学系研究科 附属ナノシステム集積センター  
協賛：附属システムデザイン研究センター(d.lab) 基盤デバイス研究部門  
学際融合マイクロシステム国際連携研究機構 (LIMMS)  
連携研究機構マテリアルイノベーション研究センター (MIRC)  
応用物理学会 集積化MEMS技術研究会最新版情報：URL:[https://www.if.t.u-tokyo.ac.jp/~mita/NanoHubWS12\\_28Jul25.pdf](https://www.if.t.u-tokyo.ac.jp/~mita/NanoHubWS12_28Jul25.pdf)

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連絡先

申し込み



フライヤー

