



**Seoul National University (SNU) /
Institute of Industrial Science, the University of Tokyo (IIS, UTokyo)
Joint Workshop on Innovative Micro/Nano Systems
SNU BK21 GoGE/SDG Program International Workshop**

February 2nd, 2024

Convention Hall of Institute of Industrial Science, the University of Tokyo

- 09:00 - 09:05** **Welcome opening** (Prof. Beomjoon Kim)
- 09:05 - 10:05** **Introduction of professors from SNU**
Prof. Joonho Kang, Prof. Ho-Young Kim, Prof. Sangwook Park, Prof. Suk Won Cha,
Prof. Jeonghun Kwak, Prof. Sung Jae Kim, Prof. Sooyeon Lee, Prof. Seung-Kyun Kang
- 10:05 - 11:05** **Introduction of professors from IIS**
(7 min. per person without question)
- 11:05 - 11:20** **Break**
- 11:20 – 11:45** **Prof. Masahiro Nomura, IIS, UTokyo**
Hydrodynamic heat transfer in graphite micro ribbons
- 11:45 – 12:10** **Prof. Yongtaek Hong, ECE, SNU**
Stretchable Hybrid Electronics for Body-Attachable Display, Sensor, Thermoelectric
Applications
- 12:10 - 12:15** **Group photo**
- 12:15 – 13:30** **Lunch (IIS, APE restaurant)**
- 13:30 – 15:00** **Poster presentation**
- 15:00 – 15:25** **Prof. Hiroshi Toshiyoshi, IIS, UTokyo**
MEMS Wavelength Tunable Laser Diode for Biomedical and Atomic Clock Applications
- 15:25 – 15:50** **Prof. Nathaniel Suk-Yeon Hwang, CBE, SNU**
Microfluidic Device for Islet Cell Transplantation with Immunoisolation
- 15:50 - 16:10** **Break**
- 16:10 – 16:35** **Prof. Naoji Matsuhisa, IIS, UTokyo**
Soft Electronic Sensors and Displays by Stretchable Electronic Materials
- 16:35 – 17:00** **Prof. Taeyong Kim, ME, SNU**
Transient Strain-Induced Electronic Structure Modulation in a Semiconducting Polymer
Imaged by Scanning Ultrafast Electron Microscopy
- 17:00 - 17:05** **Closing remarks** (Prof. Sung Jae Kim)
- 18:00 - 20:00** **Dinner banquet (IIS, KOMA2)**

Supported by

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Center for Research on Engineering in Medicine and Biology



Education and Research Program for Future ICT Pioneers &
SNU Mechanical Engineering 10-10 Project



Poster Presentation

1. Enhancing performance of InP quantum-dot light-emitting diodes by premixing 2-hydroxyethyl methacrylate into ZnMgO
Minhyung Lee, Hansol Seo and Jeonghun Kwak
SNU, Department of Electrical and Computer Engineering
2. Feedback-Enabled Regulation of Nanoelectrokinetic Preconcentration Dynamics
Taewan Kim, Sungjae Ha and Sung Jae Kim
SNU, Department of Electrical and Computer Engineering
3. Biodegradable Anisotropic Conductive Film for Implantable Electronics
Young Seo Kim and Seung-Kyun Kang
SNU, Department of Material Science and Engineering
4. Ecofriendly transfer printing for biodegradable electronics
Seung-Min Lee and Seung-Kyun Kang
SNU, Department of Material Science and Engineering
5. Amorphous oxide-based optoelectronic neuromorphic system integrated with SiN visible-light waveguide
Minsik Kong and Sooyeon Lee
SNU, Department of Material Science and Engineering
6. Harvesting soil water as inspired by desert horned lizards
Seungjoo Lee and Ho-Young Kim
SNU, Department of Mechanical Engineering

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