



Tohoku University-National Chiao Tung University The 6th Joint Technical Workshop (online) 2020

14:00-18:10 (JST), October 29/2020

in conjunction with
The 17th International Conference on Flow Dynamics (ICFD2020)

Moderator: Professor Seiji Samukawa, Tohoku University/AIST, Japan Professor Yiming Li, NCTU, Taiwan

Online Address < Open from 13:30 (JST) on Oct. 29> https://meet.google.com/xgv-ixvo-fgw

By commemorating the establishment of the Joint Research Center between Tohoku University, Sendai, Japan and National Chiao Tung University (NCTU), Hsinchu, Taiwan, a joint technical workshop will be held in conjunction with the 17th International Conference on Flow Dynamics (ICFD2020) at Sendai, Japan, on October 29, 2020. **Dr. Kazuhiko Endo (AIST/Tohoku University)** and **Professor Pei-Wen Li (NCTU)** are invited as keynote speakers. 3 Group Leaders and Invited Topics Speakers from 3 joint projects such as Nano-Devices, Hydrogen Energy System, and Bio-Medical Sensor Network from both universities will also have talks in this joint technical workshop.

Agenda

	Opening Addresses (14:00-14:30) Chair: Prof. Yiming Li (NCTU) Professor Ta-Sung Lee (R&D Vice-president, NCTU, Taiwan) Professor Kaoru Maruta (Director of IFS, Tohoku University, Japan) Professor Jenn-Hwan Tarng (Dean of ECE, NCTU, Taiwan)
	Technical Workshop
	Keynote Session Chair: Prof. Seiji Samukawa (Tohoku Univ.)
1) 14:30	(Keynote) Semiconductor Device Technology for Quantum Computer
,	Dr. Kazuhiko Endo (AIST/Tohoku University, Japan)
2) 15:00	(Keynote) Tunable Diameter and Interspace of Ge Quantum Dots for
	Qubits and Readout Devices Using Highly-Controllable Spacers and
	Selective Oxidation of SiGe
	Professor Pei-Wen Li (NCTU, Taiwan)
	General Session Chair: Prof. Seiji Samukawa and Prof. Yiming Li
3) 15:30	Nano-Devices Technologies Gr (1)
	Professor Seiji Samukawa (Tohoku University/AIST, Japan)
4) 15:40	(Invited) High Resolution sub-10 μ m Micro-LED Technology
	Dr. Xuelun Wang (AIST, Japan)
5) 16:00	Nano-Devices Technologies Gr (2)
	Professor Yiming Li (NCTU, Taiwan)
6) 16:10	(Invited) Full Color Microled by Quantum Dots Technology
	Professor Hao-Chung Kuo (NCTU, Taiwan)
7) 16:30	(Invited) Introduction of HYDROGENIUS Activities: Investigation of
	Material Compatibility to High-Pressure Hydrogen-Gas Environmen
	Professor Osamu Takakuwa (Kyushu University, Japan)
8) 16:50	(Invited) Oxidative Steam Reforming of Ethanol for Hydrogen
	Production over Metal Oxide/La ₂ ZR ₂ O ₇ Catalysts
	Professor Chi-Shen Lee (NCTU, Taiwan)
9) 17:10	Bio-Medical Sensor Network Gr (1)
	Professor Tetsu Tanaka (Tohoku University, Japan)
10)17:20	(Invited) Nanoengineered Energy Harvesting System for Health Care

Professor Ming-Dou Ker (NCTU, Taiwan)
12)17:50 (*Invited*) A Micromachined Multimodal Probe for Ischemia Muscle
Monitoring
Professor Yu-Ting Cheng (NCTU, Taiwan)

Professor Takahito Ono (Tohoku University, Japan)

Closing Remarks

11)17:40 Bio-Medical Sensor Network Gr (2)

Devices