

IO Session I, Room 104, June 22 (Sat) PM

Session I: GIGAKU and Innovation

(Joint session of the JSPS A3 foresight Program, CJK 2013 Seminar)

14:00 ~ 15:00 GIGAKU and Innovation I

(Chairperson: Associate Prof. Tadachika Nakayama)

Welcoming Address by Tadachika Nakayama (NUT, Japan)

IO-1: “Sky-Infra Project in Mongolia : An Aero-Engineering Educational Project”
Yasuo Obikane, Bassandash Choijl (Mongolian Univ. of Sci. and Tech., Mongolia)

IO-2: “Electric Power Generation using Flow-induced Vibration”
Tsutomu Takahashi (NUT, Japan)

IO-3: “Integration of the Nanosecond Technology and Nanometer Technology for Hybrid Material Processing”
Tadachika Nakayama, Ji Won Lee, Hong Baek Cho, Minh Triet Huynh Tan, Thanh Son Nguyen, Weihua Jiang, Tsuneo Suzuki, Hisayuki Suematsu and Koichi Niihara (NUT, Japan)

15:00 ~ 16:00 GIGAKU and Innovation II

(Chairperson: Associate Prof. Tadachika Nakayama)

IO-4: “Preparation for possible entry of novel avian influenza A (H7N9) virus into Singapore”
Masafumi Inoue (Experimental Therapeutics Center, Singapore)

IO-5: “Innovative Technologies for Decoding the Brain” (invited)
Haruo Mizutani (Harvard University, USA)

IO-6 “Photochemistry acoustics and thermal imaging in inhomogeneous systems” (invited)
Jonathan Hobley (Institute of Materials Research and Engineering, Singapore)

16:00 ~ 16:20 Coffee Break

16:20 ~ 17:00 GIGAKU and Innovation III (Chairperson: Dr. Masashi Wada (JFCC, Japan))

IO-7 “Semi-Empirical Equations of Nanoparticle Size Synthesized by the Pulsed Wire discharge” (invited)
Yoshinori Tokoi (Nagaoka National College of Technology, Japan)

- IO-8 “The First Approach to Estimate Internal Stress in New Ceramic Composites Made by Nano-second Pulsed Discharge Technology” (invited 10min)
Koichi Yasuda¹, Tadachika Nakayama² (¹Tokyo Institute of Technology, Japan, ²NUT, Japan)
- IO-9 “Rare Earth Ion Doping to Semiconductors by Molecular Beam Epitaxy : Ce Doped Si” (invited, 10min)
Yusuke Miyata, Takeshi Yoshimura and Norifumi Fujimura (Osaka Prefecture Univ., Japan)

IO Session I, Room 104, June 23 (Sun) AM
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9:40 ~ 10:40 GIGAKU and Innovation VI
(Chairperson: Prof. Soo Wahn Lee (Sun Moon Univ., Korea))

- IO-10 “Modification and Photochemical Multifunctionalities of Titania Nanotubes” (invited)
Tohru Sekino¹, Hiroki Tsukamoto¹, Se-Hoon Kim¹, Tae-Ho Kim², Soo Wahn Lee², Shun-Ichiro Tanaka¹ (¹Tohoku Univ., Japan ²Sunmoon Univ., Korea)
- IO-11 “Magnetic and magneto-electric properties of Cr₂O₃/ LiNbO₃/ Cr₂O₃ thin films” (invited)
Takeshi Yokota, Koji Ichikawa, Manabu Gomi (Nagoya Institute of Technology, Japan)
- IO-12 “Epitaxial growth and electrical properties of magneto-electric material: Cr₂O₃” (invited, 10min)
Koji Ichikawa, Takeshi Yokota, Manabu Gomi (Nagoya Institute of Technology, Japan)
- IO-13 “Production of carbon nanotubes from chemical vapor deposition of methane in a continuous rotary reactor system” (10min)
Wei-Ming Yeoh, Siang-Piao Chai, Keat-Teong Lee, Abdul Rahman Mohamed (Universiti Sains Malaysia, Malaysia)

10:40 ~ 11:00 Coffee Break

11:00 ~ 12:00 Panel discussion

POSTER I June 22 (Sat), 12:00 ~ 14:00

Session I: GIGAKU and Innovation

- IP-1: “Laser Surface Texturing on Cast Steel surfaces for Improving Tribological Properties”
Khagendra Tripathi, Hyun Hwi Lee, Soo Wahn Lee (Sun Moon Univ., Korea)
- IP-2: “Aspect of graphite flakes obtained by sonochemical method at different ultrasonic frequencies”
Jinhyuk Choi, Sung-Hun Cho, Tae-Ho Kim, Soo-Wahn Lee (Sun Moon Univ., Korea)
- IP-3: “Length Measurement Using Optical Frequency Comb – Toward Developing Ultimate Green Length Traceability System -”
Dong Wei¹, Kiyoshi Takamatsu² and Hirokazu Matsumoto² (¹NUT, Japan, ²Univ. of Tokyo, Japan)
- IP-4: “Microwave hydrothermal synthesis and infrared to visible upconversion luminescence of Er³⁺/Yb³⁺ co-doped Bismuth molybdate nanopowder”
Rajesh Adhikari¹, Bhupendra Joshi¹, R. Narro-García², E. De la Rosa², Soo Wahn Lee¹ (¹Sun Moon Univ., Korea ²Centro de Investigaciones en Óptica, México)
- IP-5: “Hot pressed translucent Y₂O₃ doped Mg- α/β -Sialon ceramics”
Bin Li¹, Bhupendra Joshi¹, Soo Wahn Lee¹, Hao Wang², Tohru Sekino³ (¹Sun Moon Univ., Korea, ²Wuhan Univ of Tech., China, ³Tohoku Univ., Japan)
- IP-6: “Effect of surfactant on mechanical properties of electrodeposited Ni-SiC-BN(h) composite coatings”
Hyungsuk Kim, Gobinda Gywali, Soo Wahn Lee (Sun Moon Univ., Korea)
- IP-7: “Spindle error motion measurement using concentric circle grating and phase modulation interferometers”
Muhummad Madden¹, Masato Aketagawa¹, Takuya Kumagai¹, Yoshitaka Maeda¹ and Eiki Okuyama² (¹NUT, Japan, ²Akita Univ., Japan)
- IP-8: “Molecular Analysis and Cultivation of Causative Microbial Agents of Bulking in Mesophilic Methanogenic Granular Sludge”
Kyohei Kuroda^{1,2}, Mayu Toyonaga^{1,2}, Liwei Sun¹, Masashi Hatamoto², Takashi Yamaguchi² and Yuji Sekiguchi¹ (¹AIST, Japan and ²NUT, Japan)
- IP-9: “Ontology Employment in Categorical Clustering”
Hmway Hmway Tar (University of Computer Studies, Myanmar)
- IP-10: “Segmentation of Medical Images for Tumor Extraction by Combining K-means Clustering and Wavelet Transform”
Myat Mon Kyaw (University of Technology Yatanarpon, Myanmar)
- IP-11: “Implementation of a PC-Cluster Based Storage System for Cloud Storage”
Tin Tin Yee, Thinn Thu Naing (University of Computer Studies, Yangon, Myanmar)