2013 International Workshop on Advanced Nanovision Science

Program

January 21 (Mon), 2013

09:00–10:15 Registration (Director’s room, R.I.E.)
10:15–10:20 Opening Remarks
   Director, Prof. Hidenori Mimura (Research Institute of Electronics, Shizuoka University, Japan)
10:20–11:10 Invited “Clarifying the effects of non-lasing band in 2D photonic crystal lasers by using the omnidirectional band measurement”
   Kazuyoshi Hirose¹, Yoshitaka Kurosaka¹, Akiyoshi Watanabe¹, Takahiro Sugiyama¹, Yong Liang² and Susumu Noda² (¹Hamamatsu Photonics K.K., ²Kyoto University, Japan)

- Nanotechnology (1) -

11:10–11:40 “Tailoring light field enhancement at nanoscale”
   G. Gervinskas, G. Seniutinas, R. Buividas, L. Rosa, and S. Juodkazis (Swinburne University of Technology, Australia)
11:40–12:10 “Effects of deep-level dopants on the electronic potential of thin Si pn junctions observed by Kelvin probe force microscope”
   Roland Nowak,¹,² Daniel Moraru,¹ Takeshi Mizuno,¹ Ryszard Jablonski,² and Michiharu Tabe¹ (¹Shizuoka University, Japan ²Warsaw University of Technology, Poland)
12:10–12:40 “Fabrication and Analytical Modeling of Microbolometer”
   Ajay Tiwari, Hiroaki Satoh, Makoto Aoki, Masanori Takeda, Norihisa Hiromoto, and Hiroshi Inokawa (Shizuoka University, Japan)
12:40 ~ 13:40 Lunch

- Thin Film Technology and Cold Emission –

   Arturs Medvids, Pavels Onufrijevs, Edvins Dauksta, Talivaldis Puritis, Dainis Grabovskis (Riga Technical University, Latvia)
14:10–14:40 “Performance of self-focusing electron emitter with cone shaped array”
   Guang Yuan¹, Chun Li¹, Jincheng Wang¹, Weidong Liu² (¹J. Ocean University of China, ²Hisense Co. Ltd., China)
14:40–15:10 “Deposition and characterization of a-C:H films with metal impurities”
   Zivile Rutkuniene, Lina Vigricaite, Alfonsas Grigonis (Kaunas University of Technology, Lithuania)
15:10–15:30 Break

- Imaging and Displays (1) -

15:30–16:00 “Smart TV development in China”
   Weidong Liu (Hisense Co. Ltd., China)
16:00–16:30 “Holographic stereogram & 3D technology”
   Jincheng Wang (Ocean University of China, China)
16:30–17:00 “Layered Deconvolution for Optical Image Recovery in Underwater”
   Rui Wang, Guoyu Wang (Ocean University of China, China)

18:00–20:00 Reception (Takayanagi Memorial Hall, Hamamatsu Campus, Shizuoka University)
January 22 (Tue), 2013

10:00–10:50 **Invited “Magnetic Bearings and Bearingless Motors”**
Junichi Asama, Member, IEEE (Shizuoka University)

- Imaging and Displays (2)-

10:50–11:20 **“Super High Resolution Diode Type CdTe-based Nuclear Radiation Detectors”**
(1.Institute of Semiconductor Physics of NAS of Ukraine, 2.Chernivtsi National University, Ukraine, 3.Shizuoka University, Japan)

11:20–11:50 **“Design and improvement of time-resolved CMOS image sensors with draining-only modulation pixels for fluorescence lifetime imaging microscopy”**
Zhuo Li, Shoji Kawahito, Keita Yasutomi, and Keiichiro Kagawa (Shizuoka University, Japan)

11:50–12:20 **“Nanostructuring in ZnS-Cu2S solid solutions”**
K. Ogurtcov, M. Sychov, V. Bakhmetyev, A. Eruzin, V. Lebedev, A. Sokolov, V. Trunov (1.St. Petersburg State Institute of Technology, 2.Petersburg Nuclear Physics Institute, Russia)

12:20–13:20 Lunch

- Thin Film Technology -

13:20–13:50 **“Optical coatings of metamaterials and birefringent thin films”**
Yi-Jun Jen, Meng-Jie Lin, Huang-Ming Wu, Jia-Wei Dai (National Taipei University of Technology, Taiwan)

13:50–14:20 **“The properties of thin ionic ceramics formed using physical vapor deposition techniques”**
Giedrius Laukaitis, Kristina Bockute and Darius Virbukas (Kaunas University of Technology, Lithuania)

14:20–14:50 **“Characteristics of polymer Schottky contacts on polar and nonpolar MgZnO films grown by RPE-MOCVD”**
Sanjay Kumar Mohanta, Atsushi Nakamura and Jiro Temmyo (Shizuoka University, Japan)

14:50–15:10 Break

- Nanotechnology (2) -

15:10–15:40 **“Study of Ag/Ni/multilayer graphene reflective ohmic contacts to p-type GaN for flip-chip LED applications”**
Lung-Chien Chen and Min-Hsueh Chiang (National Taipei University of Technology, Taiwan)

15:40–16:10 **“Nanostructured CdTe solar cells”**
Ernesto Dieguez, Sandra Rubio, José Luis Plaza, Marek Godlewski, Artur Medvis, Carlos Algona, Anna Cavallini, Piero Chirco, Mercedes Gabias (1.Universidad Autónoma de Madrid, Spain, 2.Institute of Physics, Polish Academy of Sciences, Poland, 3.Riga Technical University, Latvia, 4.Universidad Politécnica de Madrid, Spain, 5.University of Bologna, Italy, 6.SOFTEC, Italy, 7.Universidad de Málaga, Spain)

16:10–16:40 **“Preparation and characterization of nanosphere photoelectrode and polymer gel electrolyte for DSSC application”**
Varishetty Madhu Mohan and Kenji Murakami (Shizuoka University, Japan)

18:00–20:00 **Banquet** (Restaurant “Sakurakushi”, 315-23 Tamachi, Naka-ku, Hamamatsu, TEL: 053-452-3301)