

2012 International Workshop on Advanced Nanovision Science

Program

January 23 (Mon), 2012

11:00~13:00 **Registration**

13:00~13:05 **Opening Remarks**

Director, Prof. Hidenori Mimura (*Research Institute of Electronics, Shizuoka University, Japan*)

– Plenary Session –

13:05~13:55 **Invited “The New Review of the LEEPL Technology”**

Takao Utsumi (*Nanolith, LLC, Japan*)

13:55~14:25 **“Nanometric Technology”**

H.L. Hartnagel (*Technical University Darmstadt, Germany*)

14:25~14:55 **“Fabrication of Field Emitter Tips by High-Field Induced Deposition”**

Hans W.P. Koops (*HaWilko GmbH, Germany*)

14:55~15:10 Break

– Photophysics –

15:10~15:40 **“Development of encapsulated diband and triband phosphors for LED lighting and display devices”**

M.Kottaisamy, H.Kominami, Y.Nakanishi and K.Hara (*Thiagarajar College of Engineering, India and Research Institute of Electronics, Shizuoka University, Japan*)

15:40~16:10 **“Optical and electronic properties of Cobalt in different structural state”**

Vasil S. Stashchuk, Olena P. Polianska (*Faculty of Physics, Taras Shevchenko National University of Kyiv, Ukraine*)

16:10~16:40 **“Investigation about Pr-effective concentration and influence of Al-addition on the luminescence properties of SrTiO₃:Pr³⁺,Al phosphors”**

O.M.Marchylo, L.V.Zavjalova, G.S.Svechnikov, A.E.Belyaev, Y.Nakanishi, H.Kominami and K.hara

(*V.E. Lashkaryov Institute of Semiconductor Physics, national Academy of Science of Ukraine, Ukraine and Research Institute of Electronics, Shizuoka University, Japan*)

16:40~17:10 **“InAsSb photoconductors with long-wavelength operated at room temperature”**

Y.Z.Gao, X.Y.Gong, G.H.Wu, Y.B.Feng, T.Makino, H.Kan and Y.Hayakawa (*College of Electronics and Information Engineering, Tongji University, China and Research Institute of Electronics, Shizuoka University, Japan*)

18:00~20:00 **Reception** (*Takayanagi Memorial Hall*)

January 24 (Tue), 2012

– Imaging Devices and Micro Patterning Technology –

10:00~10:50 **Invited “Dependable optically reconfigurable gate array”**

Minoru Watanabe (*Faculty of Engineering, Shizuoka University, Japan*)

10:50~11:20 **“Novel Raman spectroscopy imaging in electronic devices: focus on device reliability”**

Andrei Sarua (*H.H.Wills Physics Laboratory, University of Bristol, United Kingdom*)

11:20~11:50 **“Micro Patterning of Functional Groups on Polymer Surface by Atmospheric Pressure Micro-Capillary Plasma Jet”**

Iuliana Motrescu (*Research Institute of Electronics, Shizuoka University, Japan*)

11:50~13:30 **Lunch**

– Nanodevices –

13:30~14:00 **“Single-dopant/interface interaction effects on transport characteristics of silicon nano-transistors”**

Daniel Moraru, E. Hamid, T. Mizuno, and M. Tabe (*Research Institute of Electronics, Shizuoka University, Japan*)

14:00~14:30 **“Maskless Nanoscale Fabrication by using Negative Charge Direct Writing”**

Ion Tiginyanu (*Academy of Sciences of Moldova, Moldova*)

14:30~15:00 **“Synthesis and applications of ultra long multi-walled carbon nanotubes”**

Adrian Ghemes (*Research Institute of Electronics, Shizuoka University, Japan*)

15:00~15:20 **Break**

– Sensing and Solar Materials –

15:20~15:50 **“Investigation on various quasi solid polymer gel electrolytes for dye sensitized solar cells”**

Varishetty Madhu Mohan (*Research Institute of Electronics, Shizuoka University, Japan*)

15:50~16:20 **“Thin film transistor characterization of graphene synthesized by CVD method”**

Ahalapitiya H. Jayatissa and Madhav Gautam (*Mechanical, Industrial and Manufacturing Engineering Department, The University of Toledo, USA*)

18:00~20:00 **Banquet** (YADOSHITA KICHIAN, Act Tower 5F, 111-2 Itayamachi, Naka-ku, Hamamatsu, TEL : 053-459-2080)