
2017 International Symposium toward the Future of Advanced Researches
in Shizuoka University
~Joint International Workshops on Advanced Nanovision Science / Advanced Green Science /
Promotion of Global Young Researchers in Shizuoka University~

March 8th, 2017

S-Port 3F Conference Hall, Hamamatsu Campus, Shizuoka University

PROGRAM

9:30 Registration

Chair; Naoki Wakiya

9:50 Opening Remarks

Masakazu Kimura (Vice-President of Shizuoka University)

Kazuhiko Hara (Dean, GSST, Shizuoka University)

Chair; Masakatsu Nishigaki

Session 1: Informatics, and Materials Science I

10:00 [Invited Talk]

Non-Calibrated and Real-Time Human View Estimation Using a Mobile Corneal Imaging Camera

Atsushi Nakazawa (Graduate school of Informatics, Kyoto University)

10:30 [Invited Talk]

Palm-Sized Rapid Test Kit using Shear Horizontal Surface Acoustic Wave Immunosensor

Hiromi Yatsuda, Takashi Kogai, Naoyuki Yoshimura, Koji Kano and Mikihiro Goto
(Japan Radio Co., Ltd.)

Chair; Jun Kondoh

(Students and Young Researchers in Shizuoka University)

11:00 Performance of Mobile Data Offloading with Time Wise Offloading

Chinchu Viswan, Tatsuki Machida and Hiroshi Mieno

11:10 Wavelength Dependence of the Photosensitized Protein Oxidation Damage Caused by a Serials of Phosphate Porphyrin Complexes

Dongyan Ouyang and Kazutaka Hirakawa

11:20 A Mechanism of Antimicrobial Activity of a Short Peptide Derived from Lactoferricin B

Md. Moniruzzaman, Md. Zahidul Islam, Hideo Dohra and Masahito Yamazaki

11:30 The Effect of Tension on Entry of CF-TP10 into Single Vesicles

Md. Zahidul Islam, Sabrina Sharmin, Victor Levadnyy, Sayed Ul Alam Shibly and Masahito Yamazaki

11:40 Group Photo

12:00 Lunch

Chair; Koji Mori

Session 2: Device Related Science

13:30 [Invited Talk]

Printed Graphene Electronics

Adisorn Tuantranont, Chakrit Sriprachuabwong, Patiya Pasakon, Anurat Wisitsoraat
(Thailand Organic and Printed Electronics Innovation Cente (TOPIC))

14:00 [Invited Talk]

Photonic Crystal Microchip Laser

D. Gailevicius, V. Koliadenko, V. Taranenko, V. Purlys, M. Peckus and K. Staliunas
(ICREA & Departament de Física, UPC)

Chair; Naoki Wakiya

(Students and Young Researchers in Shizuoka University)

14:30 Investigation of Narrow Width Effect on Platinum and Titanium Thermistors for Room-Temperature
Antenna-Coupled Terahertz Microbolometer Fabrication

Amit Banerjee, Hiroaki Satoh, Ajay Tiwari, Norihisa Hiromoto and Hiroshi Inokawa

14:40 Silicon on Insulator Nanowire Photodiode with Surface Plasmon Antenna

Yash Sharma, Hiroaki Satoh and Hiroshi Inokawa

14:50 Surface Acoustic Wave Device with Controlled and Volume Existence Domain Structure using LiTaO₃
Single Crystal

Siarhei D. Barsukou, Jun Kondoh and Sergey A. Khakhomov

15:00 Fabrication of Silver Nano-Structures by Multi-Photon Induced Reduction

Seiya Toriyama, Vygantas Mizeikis and Atsushi Ono

15:10 Coffee Break

Chair; Norihisa Hiromoto

Session 3: Materials Science II

(Students and Young Researchers in Shizuoka University)

15:30 In-situ Mist-Catalyst CVD Process for Efficient Synthesis Technique of Spinnable MWCNT Forest

T. Kinoshita, M. Karita, T. Nakano and Y. Inoue

15:40 Luminescent Imaging of HeLa Cell using ZnS:Mn/NaGdF₄:Yb:Er Nanocomposite

I. K. Mohamed Mathar Sahib, D. Thangaraju, Y. Masuda, W. Inami, Y. Kawata,
Y. Shimura and Y. Hayakawa

15:50 Magnetic-Field-Induced Spontaneous Phase Separation in Manganese Ferrite Thin Films using
'Dynamic Aurora PLD'

Nipa Debnath, Wataru Kumasaka, Takahiko Kawaguchi, Naonori Sakamoto,
Kazuo Shinozaki, Hisao Suzuki and Naoki Wakiya

16:00 Fabrication of Two-Dimensional Close-Packed Shell Structure Thin Films

M. Sridevi, Takahiko Kawaguchi, Naonori Sakamoto, Kazuo Shinozaki,
Hisao Suzuki and Naoki Wakiya

- 16:10 Effect of Hydrochloric Acid on Thermoelectric Properties of Polypyrrole Nanotubes
Shantanu Misra, Meetu Bharti, Ajay Singh, A. K. Debnath, Y. Shimura,
D. K. Aswal and Y. Hayakawa
- 16:20 Enhanced Visible Light Induced Photocatalytic Activity on the Degradation of Organic Pollutant by
SnO Nanoparticles Decorated Hierarchical ZnO Nanostructures
S. Harish, J. Archana, M. Navaneethan, S. Ponnusamy, C. Muthamizhchelvan and
Y. Hayakawa
- 16:30 Synthesis and Characterization of ZnO Nanostructures by using Advanced Spray Pyrolysis
deposition technique
A.M.S.L.B. Attanayake, Ajith Bandara, Masayuki Okuya and Kenji Murakami
- 16:40 Novel SnO₂ Microspheres as Light Scattering Layer for Dye Sensitized Solar Cells Application
Murugesan Tarini, Natrajan Prakash, I.K. Mohamed Mathar Sahib,
Yosuke Shimura and Yasuhiko Hayakawa
- 16:50 Efficient Carbonate-Doped TiO₂ Mesoporous Nanospheres for Dye-Sensitized Solar Cell
R. Sankar Ganesh, M. Navaneethan, S. Ponnusamy, C. Muthamizhchelvan,
Y. Shimura and Y. Hayakawa
- 17:00 Closing Remarks
Hidenori Mimura (Director of RIE, Shizuoka University)
- 17:30 Reception & Awarding Ceremony of Presentations
(Until 19:30)