



The 16th Takayanagi Kenjiro Memorial Symposium



Research Institute of Electronics, Shizuoka University

Toward Advanced Imaging Science Creation

-Interdisciplinary Innovation in Nano Vision, Materials Science, and Mechatronics-

DATE November 11 and 12, 2014, Registration Fee: Free

Location Sanaru Hall, Hamamatsu Campus, Shizuoka University
3-5-1 Johoku, Naka-ku, Hamamatsu 432-8011, Japan.

Plenary Talks

- 1 *Strain engineering via octahedral distortions in epitaxial perovskite oxide films*
Arturas Vailionis (Stanford University, USA)
- 2 *TeraByte/s Data-bandwidth TSV and Interposer Design for 2.5D and 3D IC*
Joungho Kim (KAIST, Korea)
- 3 *Beam focusing/imaging in reflections from sub-wavelength gratings*
Yu-Chieh Cheng (Universitat Politècnica de Catalunya, Spain)
- 4 *Bio-inspired Nonlinear Nano-devices for Coexisting with Fluctuation*
Seiya Kasai (Hokkaido University, Japan)
- 5 *High reflection coating on a silver nanorod array for enhanced directional scattering*
Yi-Jun Jen (National Taiper University of Technology, Taiwan)

Collaborative Project Supported by Special Budget for Education and Research

- 1 *Methodology of single atom control for quantum processing in silicon and diamond*
Takahiro Shinada (Tohoku University, Japan)
- 2 *Application of terahertz imaging in pharmaceutical sciences*
Tomoaki Sakamoto (National Institute of Health Sciences, Japan)
- 3 *Sensor surfaces*
Saulius Juodkaziš (Swinburne University of Technology, Australia)
- 4 *Phosphorescence and long after glow property of $MSi_2O_2N_2:Eu$ ($M=Ca, Sr, Ba$) powder*
Hidetoshi Miyazaki (Shimane University, Japan)

Lectures of Takayanagi Prize Winners

- 1 *Effect of gravity on the dissolution and growth processes of InGaSb ternary alloy bulk semiconductor*
Yasuhiro Hayakawa (RIE, Shizuoka University, Japan)
- 2 *Single-shot measurement of terahertz temporal waveforms using probe pulse with tilted pulse front*
Yoichi Kawada (Hamamatsu Photonics K. K., Japan)
- 3 *Inverter Frequency and Transformer for Low Frequency Power Transmission*
Atsushi Nakata (Shizuoka Institute of Science and Technology)
- 4 *Single-crystalline organic semiconductor microcavities*
Kazuki Bando (Graduate School of Science, Shizuoka University, Japan)

Organizer: Research Institute of Electronics, Shizuoka University

Information: <http://www.rie.shizuoka.ac.jp/> Contact: TEL 053-478-1301, FAX 053-478-1651