

# Recent advances in spectroscopic imaging and related modern techniques 3

13<sup>th</sup> May, 2019

Tokyo Institute of Technology, Ookayama campus,  
West Bldg. 9, Collaboration Room

## PROGRAM

- 9:45-10:00 Opening Remarks/ J.Morikawa  
“Recent application of the 4- polarization method of FTIR imaging for molecular orientation of pharmaceutical and polymeric materials”  
---- chair by Dr. Y. Hikima
- 10:00-10:20 Meguya Ryu/Junko Morikawa (Tokyo Tech)  
“Thermo-spectroscopy for the kinetic and static applications; microfluidic, phase change materials, and biomedical tissues”
- 10:20-10:40 Nattanai Kuanusont/Yusuke Shimoyama (Tokyo Tech)  
“Porous carbon composite cathode fabricated by supercritical CO<sub>2</sub> for Li-air battery”
- 10:40-11:00 Takuya Okamoto/Yukio Kawano (Tokyo Institute of Technology)  
“Nanoscale observation of confined mid-infrared field distribution in a spiral antenna with scanning near-field optical microscopy”
- 11:00-11:30 Prof. Shinji Ando (Tokyo Institute of Technology)  
“Conformational characterization of imide compounds and polyimides using far-infrared spectroscopy and DFT calculations”
- 11:30-13:30 Lunch  
---- chair by Prof. J.Morikawa / Prof. S.Kazarian
- 13:30-14:00 Dr. Shun Muroga (AIST)  
“ATR-FTIR Study of Carbon Nanotube/Fluoroelastomer Nanocomposites”
- 14:00-14:30 Dr. Yuta Hikima (Kyoto University)  
“Polarized NIR spectroscopic imaging of polymer product”
- 14:30-15:00 Prof. Harumi Sato (Kobe University)  
“Phase separation and crystallization behavior of PHB/PLLA blends by ATR-FTIR Imaging”
- 15:00-15:25 Break  
---- chair by Prof. H. Sato
- 15:25-16:00 Prof. Sergei Kazarian / Cai Li Song  
(Imperial College London / Tokyo Institute of Technology)  
“FT-IR spectroscopic imaging: new trends and emerging applications”
- 16:00-16:50 Prof. Yukihiro Ozaki (Kwansei Gakuin)  
“Recent progress in NIR and Raman imaging”
- 16:50-17:00 Closing remarks / Prof. Sergei Kazarian

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