

# UEC International Nanotribology Colloquium

September 2 (Fri), 2016

Building E-4,5, Room 241, University of Electro-Communications

Organizer: UEC Nanotribology Research Station (NaTRS)

## Program

- 13:00-13:05 Opening (Naruo Sasaki)
- 13:05-13:25 Naruo Sasaki (University of Electro-Communications, Japan)  
“Mechanism of nano-scale superlubricity and adhesion at carbon-network interfaces”
- 13:25-13:45 Masaru Suzuki (University of Electro-Communications, Japan)  
“Reentrant Slippage of  $^3\text{He}$ - $^4\text{He}$  Mixture Films”
- 13:45-14:05 Atsutaka Maeda (University of Tokyo, Japan)  
“Criteria for the validity of Amontons-Coulomb law - Study of friction using dynamics of driven vortices of superconductor-”
- 14:05-14:25 Kouji Miura (Aichi University of Education, Japan)  
“Phononic Lubrication at  $\text{MoS}_2(0001)$  Dot”
- 14:25-14:35 Break
- 14:35-15:35 Martin Dienwiebel (Fraunhofer IWM, KIT, Germany)  
“Nano-scale Tribology - Recent developments in the understanding of sliding contacts”
- 15:35-15:55 Hiroshi Matsukawa (Aoyama Gakuin University, Japan)  
“Superlubricity of the flake on the substrate”
- 15:55-16:05 Break
- 16:05-16:25 Shinji Yamada (Kao Corporation, Japan)  
“Friction Properties of Adsorbed Polymer Layers in Base Oil Solutions”
- 16:25-16:45 Kouji Miyake (AIST, Japan)  
“In-situ observation of the buried friction interface using infrared-visible sum-frequency generation spectroscopy”
- 16:45-17:05 Denis Damiron (IIS, University of Tokyo, Japan)  
“Tracking the bottom of the frequency shift -application to Morse parameter identification and lateral force microscopy-”
- 17:05-17:25 Hiroyuki Fujita (IIS, University of Tokyo, Japan)  
“In-situ TEM observation of formation and breakage at real point of contact”
- 17:25-17:40 Closing (Photo Session)
- 17:40-18:20 Poster Session