

# 28th Physical Chemistry Colloquium -Laser Chemistry and Nano Materials-

5<sup>th</sup> – 6<sup>th</sup> Sep., 2008, Tohoku University

Conference Venue: Conference room@1st Floor, Laboratories for Advanced Materials  
Research Building (No.1), IMRAM, Tohoku University, Sendai, Japan

## 5th, September (13:00 ~)

1. **T. Lippert** (Paul Scherrer Inst., Switzerland)  
Laser-induced forward transfer (LIFT) of polymers using a sacrificial layer.
2. **H. Miyasaka** (Osaka University, Japan)  
Laser induced multiphoton gated photochromic reaction in diarylethene and fulgide derivatives.
3. **A. Fujii** (Tohoku University, Japan)  
Infrared laser spectroscopic investigation of nanoscale hydrogen bond networks in protonated water.
4. **H. Kono** (Tohoku University, Japan)  
First-principle simulation of dynamics and control of C<sub>60</sub> in near-infrared intense laser fields.
5. **M. Ziskind** (Université de Lille 1, France)  
Analysis of chemical species adsorbed on soot surface by laser desorption/laser ionization/mass spectrometry.
6. **F. Misaizu** (Tohoku University, Japan)  
Laser photodissociation of size- and isomer-selected cluster ions.
7. **K. Yoshihara** (Toyota Physical and Chemical Research Institute, Japan)  
UV light-induced water aerosol/droplet formation from ambient air.

18:00 ~ Banquet@ Sendai Excel Hotel Tokyu (fee ¥5,000)

## 6th, September (9:00 ~)

1. **T. Asahi** (Osaka University, Japan)  
Preparation of organic nanoparticles by laser ablation in water.
2. **P. V. Sushko** (<sup>1</sup>University College London, UK, <sup>2</sup>WPI-AIMR, Tohoku University)  
Photoinduced desorption of hyperthermal oxygen and metal atoms from oxide nanostructures: theoretical models from ab initio calculations.
3. **S. Hashimoto** (University of Tokushima, Japan)  
Laser ablation-induced preparation of metal nanoparticles in solutions, films and zeolite-supports.
4. **H. Oikawa** (Tohoku University, Japan)  
Recent progress on organic-inorganic hybridized nanocrystals/nanoparticles.
5. **F. Hubenthal** (Universität Kassel, Germany)  
Noble metal nanoparticles: From ultrafast electron dynamics to applications.
6. **F. Mafune** (University of Tokyo, Japan)  
Laser synthesis and manipulation of nanoparticles in solution.

For more information, visit <http://opc.chem.tohoku.ac.jp/pcc/>  
Organized by Organic Physical Chemistry (Fukumura's) Lab.  
Contact: +81-22-795-6569, kajimoto@mail.tains.tohoku.ac.jp