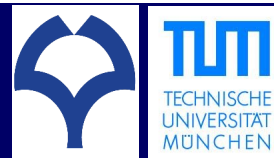


# OU-TUM Workshop: Trends in Catalysis



**Date:** May 16, 2013

**Venue:** Innovation Center, A bldg. B1 induction room

## Program

- 10:30-10:40** *Welcome Greetings*  
**Dr. Hiroshi Nakanishi**  
Department Applied Physics, Osaka University
- 10:40-11:10** *The adsorption of H<sub>2</sub>O on Li-Montmorillonite : First principles study*  
**Dr. Triati Dewi Kencana Wungu** (Osaka University)
- 11:10-11:40** *Mechanism of O ion migration in Pr<sub>2</sub>NiO<sub>4</sub>*  
**Susan Aspera** (Osaka University)
- 11:40-12:10** *NO oxidation on O pre-covered Pt<sub>4</sub>/CeO<sub>2</sub>*  
**Nguyen Tien Quang** (Osaka University)
- 12:10-13:30** **Lunch Break**
- 13:30-14:00** *Molecular orientation and surface site dependence of the dissociative adsorption of O<sub>2</sub> on Al(111) surface.*  
**Koji Shimizu** (Osaka University)
- 14:00-14:30** *The interaction of O<sub>2</sub> molecule with Co-Nx active sites*  
**Adhitya Gandaryus Saputro** (Osaka University)
- 14:30-15:00** *Borohydride oxidation on Au-3d metal alloys: Mechanistic study from first principles calculations*  
**Ryan Arevalo** (Osaka University)
- 15:00-15:15** **Break**
- 15:15-16:30** *Structure and reactivity of metal nanoparticles: Insights from DFT calculations*  
**Prof. Notker Roesch**  
Catalysis Research Center, Technical University of Munich
- 16:30-17:00** *Presentation/Closing Remarks*  
**Prof. Hideaki Kasai**  
Department Applied Physics, Osaka University
- 17:00-17:10** **Picture Taking**