

**Particle Technology Seminar HS14**  
Fridays 14-17h; ML F40

- Sept. 22 "Characteristics and catalytic properties of Pt/TiO<sub>2</sub> and Pt-Co/TiO<sub>2</sub> catalysts prepared by FSP in the selective hydrogenation of 3-nitrostyrene"  
*Prof. Joongjai Panpranot, Dep. of Chemical Eng., Chulalongkorn University in Bangkok*
- Sept. 26 "Conversion of Alkane to Alkene using Flame-made Nanoparticles"  
*Rajesh Koirala, PTL*
- Oct. 3 "Direct deposition of flame-made silver nanoparticles"  
*Christoph Blattmann, PTL*
- Oct. 10 "Formaldehyde detection by flame-made sensor arrays for breath analysis"  
*Samuel Regli, planning presentation of SA thesis, PTL*  
"Air Entrainment during Flame Aerosol Synthesis of Nanoparticles"  
*Oliver Waser, PTL*
- Oct. 17 "Fumed silica cytotoxicity: accounting for particle characteristics and experimental parameters"  
*Anastasia Spyrogianni, PTL*  
"Geopolymer coating of bacteria-containing granules for use in self-healing concrete"  
*Stefan de Koster, TU Delft, Netherlands*
- Oct. 24 "Direct deposition of flame-made silver nanoparticles"  
*Christoph Blattmann, PTL*  
"Influence of noble metal on the N<sub>2</sub>O production in NSR catalysts operation"  
*Jonathan Theodore, BSc thesis, PTL*
- Oct. 31 "Solar-Light Photocatalyst: Surface-Oxidized Crystalline TiO<sub>x</sub>on Ag/TiO<sub>2</sub>"  
*Kakeru Fujiwara, PTL*  
"Air Entrainment during Flame Aerosol Synthesis of Nanoparticles"  
*Oliver Waser, PTL*
- Nov. 14 "Reduction of NO<sub>x</sub> using noble metal (Pd and Au) doped TiO<sub>x</sub> under solar light"  
*Andrei Chirkunov, Semester thesis, PTL*  
"Experimental and Kinetic Modeling Study of Soot Formation in Laminar Premixed Flames"  
*Chiara Saggesi, Politecnico di Milano*
- Nov. 21 "Flame Synthesis and Characterization of ZnO Nanoparticles"  
*Donovan Chie, PTL*  
"Flame made Supported Pd and Au-Pd catalysts for Acetylene Hydrogenation"  
*Boontida Pongthawornsakun, Chulalongkorn University, Thailand*
- Nov. 28 "Flame synthesis of calcium phosphate/carbonate nanopowders for nutrition"  
*Lidija Posavec, Laboratory of Human Nutrition, ETH*  
"Polyaniline-based nanocomposites for transparent conductors"  
*Vasil Vasilev, planning presentation of BS thesis*  
"Direct deposition of flame-made silver nanoparticles"  
*Christoph Blattmann, PTL*

- Dec. 12            "Formaldehyde detection by flame-made sensor arrays"  
**@3.15pm**        *Samuel Regli, Semester Thesis, PTL*
- Dec. 19            "Deposition and Erosion Phenomena in Porous Media"  
*Georgios Kelesides, MS thesis, PTL*  
"Size effects of Rh/Ba/Al in NSR catalysts"  
*Jonathan Theodore, BS thesis, PTL*
- Jan. 09            "Preferential Oxidation of Carbon Monoxide over Pt-FeOx/CeO<sub>2</sub> Synthesized by  
**ML E13 @1.15pm** Two-Nozzle Flame Spray Pyrolysis"  
*Jochen Dreyer, City University of Hong Kong*  
"Hairsty colloidal particles: tuning glass transition, gelation and crystallization"  
*Prof. Dimitris Vlassopoulos, University of Crete*
- Jan. 16            "Removal of NO<sub>x</sub> using Pd doped TiO<sub>x</sub> under solar and visible light"  
**ML E13 @1.15pm** *Andrei Chirkunov, BS thesis, PTL*
- Jan. 23            "Structure and size-distribution by coagulation and surface growth"  
**ML E13 @1.15pm** *Georgios Kelesidis, MS planning presentation, PTL*
- Feb. 6            "Catalytic and spectroscopic studies on energy and exhaust gas aftertreatment  
**ML E13 @1.15pm** applications"  
*Anastasios Kampolis, PSI Villigen*
- Feb. 13            "Polyaniline-based nanocomposites for transparent conductors"  
**ML E13 @1.15pm** *Vasil Vaslev, final presentation of Bachelor project, PTL*