

**Particle Technology Seminar HS13**

Fridays 14-17h; ML F40

- Sept 27 "Pb-free bonding technique using base metal nanoparticle"  
*Dr. Toshitaka Ishizaki, Toyota Central R&D Labs., Inc., Japan*  
"Online Characterization of Nanoparticle Growth during Flame Aerosol Synthesis"  
*Arto Gröhn, PTL*
- Oct 11 "Synthesis and characterization of ZnO-Ag core-shell nanorods"  
*Donovan Chie, Semester project, PTL*
- Oct 18 "Flame-made Ga/TiO<sub>2</sub> Catalysts for Dehydrogenation of Ethane by CO<sub>2</sub>"  
*Rajesh Koirala, PTL*
- Oct 25 "In-Situ Carbon Black Coating of Size-Controlled LiFePO<sub>4</sub> Nanoparticles by FSP"  
*Severin Hahn, Semester project, PTL*
- Nov 8 "TiO<sub>2</sub>-Ag/TiO<sub>x</sub> core-shell nanoparticles for mass production"  
*Samuel Regli, planning presentation of BS thesis, PTL*
- Nov 15 "Interactive evolution of pH and Ag+ ion release from nanosilver in water"  
*Kakeru Fujiwara, PTL*
- Nov 22 "Breath Analysis: Blood Glucose and Breath Composition from Portable Gas Sensors and PTR-TOF-MS"  
*Marco Righettoni, PTL*  
"Development of a circulating fast fluidized bed reactor for the surface modification of powders in the afterglow of atmospheric-pressure plasmas"  
*Andreas Güntner, ETHZ*
- Nov 29 "ZnO nanoparticles for catalytic hydrogen production"  
*Donovan Chie, final presentation of SA thesis, PTL*
- Dec 10 Tue  
**ML J37.1 @1pm** "Nanomaterials and cells - pros and cons"  
*Prof. Dr. Barbara Rothen-Rutishauser, BioNanomaterials Research Group, Adolphe Merkle Institute, University of Fribourg, Fribourg, Switzerland*
- Dec 13  
**@3.15pm** „Improving resistance measurements in integrative NOx sensors"  
*Christoph Tobler, final presentation of BS thesis PTL*  
"In situ amino acid coating of Ca/Fe oxides by flame spray pyrolysis"  
*Jesper Knijnenburg, PTL*
- Jan 6 Mon  
**ML E13 @2pm** „Synthesis and characterization of conductive polymer nanocomposite films By FSP"  
*Christoph Blattmann, PTL*
- Jan 15 Wed  
**ML E13 @1pm** "Band gap tuning by annealing FSP-made TiO<sub>2</sub>-Ag/TiO<sub>x</sub>"  
*Samuel Regli, final presentation of BS thesis PTL*  
„In-Situ Carbon Black Coating of Size-Controlled LiFePO<sub>4</sub> Nanoparticles by FSP"  
*Severin Hahn, Semester project, PTL*

**ML F40 @5.30pm** "Breath Analysis Overview"

*Terence H. Risby, Prof. Emeritus, The Johns Hopkins University, USA*

"Breath Analysis, Technological Approach"

*Alessandro Ragnoni, Research for Innovation, Loccioni, Italy*

- Jan 22 Wed** "Multi-scale modeling and simulation of nano-structured polymeric materials at and beyond equilibrium: Bridging the time and length scales"  
**ML E13 @10.30** *Prof. Vlasios G. Mavrantzas, University of Patras, Greece*
- Jan 24** "The cytotoxicity of pyrogenic nanosilica (fumed silica) on murine macrophages"  
**CLA J1 @1pm** *Anastasia Spyrogianni, PTL*
- Jan 31** "Coagulation of fractal-like aerosols from free molecular to continuum regime"  
**ML E13 @4pm** *Eirini Goudeli, PTL*