

**Particle Technology Seminar FS13**

Fridays 14-17h; ML F40

- Feb 22 "Engineered Nanoparticles by Spark Discharge and Evaporation/Condensation"  
*Dr. Maria E. Messing, Lund University, Sweden*
- Mar 01 "Selective Targeting of Cancer Cells with Multifunctional Plasmonic Nanoparticles"  
*Fabian Starsich, SA planning presentation, PTL*  
"Influence of Process Gas Supply on Particle Size in an Enclosed FSP Setup"  
*Tilman Schlotter, BS presentation, PTL*
- Mar 05 Tue "Aerosol spray route to mesoporous oxide supported catalysts"  
**ML E13 @1.15pm** *Dr. Feng (Ryan) Wang, Max-Planck-Institut für Kohlenforschung, Germany*
- Mar 08 "Investigation of Mg, Ba and K as storage material in NO<sub>x</sub> reduction catalysts"  
*Philip Lang, BA planning presentation, PTL*  
"Characterization of flame-made SiO<sub>2</sub> and SiO<sub>2</sub>-coated nanoparticles for toxicological studies"  
*Matthias Dupuch, PTL*
- Mar 22 "Nitric oxide detection by portable gas sensor"  
*Daniel Frick, BS planning presentation, PTL*  
"Ionic liquids for selectivity enhancement of chemo-resistive gas sensors"  
*Christian Probst, BS planning presentation, PTL*  
"Surface functionalization of flame-made SiO<sub>2</sub> nanoparticles"  
*Pascal Gschwend, BS planning presentation, PTL*  
"The effect of Pd on Rh/Al<sub>2</sub>O<sub>3</sub> catalysts for direct N<sub>2</sub>O decomposition"  
*Athanasia Tsoukalou, SA presentation, PTL*
- Apr 12 "Synthesis of ZnO nanorods in flame aerosol reactors"  
*Leonardo Meiler, MA planning presentation, PTL*  
"Optimization of combustion process in flame reactors"  
*Miltiadis Paraskevopoulos, SA planning presentation, PTL*
- Apr 17 Wed "Between bytes, particles and cells: Magdalini's journey to the small world"  
**CLA J1 @1pm** *Magdalini Panagiotkaopoulou, NTUA, Greece*
- Apr 19 "Engineering of Heterostructural Photoactive Nanostructures by Flame Spray Pyrolysis"  
*Kevin Wetter, SA planning presentation, PTL*  
"Flame-made nanostructured Ca/Fe oxides for nutritional supplements"  
"Flame synthesis and in situ functionalization of TiO<sub>2</sub> nanoparticles"  
*Jesper Knijnenburg, PTL*
- Apr 26 "Inorganic Protective Coatings for Lithium-Ion Battery Materials"  
*Severin Hahn, BS planning presentation, PTL*
- May 3 "Homolytic Activation of Peroxides with Cobalt"  
*Mr. Eyal Spier, Doctoral Student at D-CHAB, ETHZ*

- May 10 "Investigation of Mg, Ba and K as storage material in NO<sub>x</sub> reduction catalysts"  
*Philip Lang, presentation BS thesis, PTL*  
"Challenges and opportunities in pharmaceutical manufacturing modeling and optimization"  
*Prof. Marianthi Ierapetritou, Dep. of Chem. & Biochem. Eng.*  
*Rutgers - The State University of New Jersey*
- May 24 "Surface functionalization of flame-made SiO<sub>2</sub> nanoparticles"  
*Pascal Gschwend, presentation BS thesis, PTL*  
"Ionic liquids for selectivity enhancement of chemo-resistive gas sensors"  
*Christian Probst, presentation BS thesis, PTL*
- May 31 "Characterization of flame-made SiO<sub>2</sub> nanoparticles for toxicological studies"  
*Matthias Dupuch, presentation BS thesis, PTL*
- June 7 "Nitric oxide detection by portable gas sensor"  
**ML J34.1 @3.15pm** *Daniel Frick, presentation BS thesis, PTL*  
"Optimization of combustion process in flame reactors"  
*Miltiadis Paraskevopoulos, SA presentation, PTL*  
"Oxidative coupling of methane using flame-made Mn-Na<sub>2</sub>WO<sub>4</sub>/SiO<sub>2</sub> catalysts "  
*Rajesh Koirala, PTL*
- June 12 **Wed** "Selective targeting of cancer cells with multifunctional plasmonic nanoparticles"  
**ML E13 @2pm** *Fabian Starsich, presentation SA thesis, PTL*
- June 25 **Tue** "The effect of Pd on Rh/Al<sub>2</sub>O<sub>3</sub> catalysts for direct N<sub>2</sub>O decomposition"  
**CLA J1 @1pm** *Athanasia Tsoukalou, SA presentation, PTL*  
"Engineering of heterostructural photoactive nanostructures by flame spray pyrolysis"  
*Kevin Wetter, SA presentation, PTL*
- June 17 **Thu** "Particle Technology & Applications"  
**CLA J 1 @ 10:30am** *Dr. Yakov Kutsovsky, Cabot Co.*
- June 28 "Fluidization of nanoparticles: agglomerates structure, size and influence of the type of nanoparticle surface"  
**ML E13 @1pm** *Dr. Lilian De Martin Monton, Delft University of Technology, Netherlands*
- July 1 **Mon** "Particle Technology & Applications"  
**ML E13 @8.30am** *Dr. Kamal Akhtar, CRISTAL*
- July 5 "One-step flame synthesis of iron-containing organic/inorganic nanocompounds for nutrition"  
**ML E13 @1pm** *Laetitia von Rochow, presentation BS thesis, PTL*
- July 12 "Silica coated LiFePO<sub>4</sub> nanoparticles for lithium ion batteries"  
**ML E13 @ 1pm** *Severin Hahn, presentation BS thesis, PTL*
- Aug. 2 "Viscoelastic behavior of blood in small vessels: A numerical investigation"  
**ML E13 @1pm** *George Kelesidis, University of Patras, Greece*
- Aug. 5 **Mon** "Synthesis of ZnO nanorods in flame aerosol reactors"  
**ML E13 @2pm** *Leonardo Meiler, final presentation of MS thesis, PTL*

- Aug 16  
**ML E13 @2pm** "Modelling related to Nano-particle Synthesis"  
*Prof. Andreas Kempf, University Duisburg-Essen, Germany*
- Aug. 23  
**ML E 13 @1pm** "Rapid synthesis of multi-layered & multi-functional polymer nanocomposite films"  
*Christoph Blattmann, PTL*
- Aug. 30 "Rapid synthesis of multi-layered & multi-functional polymer nanocomposite films"  
*Christoph Blattmann, PTL*  
"The Collision Frequency of Fractal-like Aerosols in the Free Molecular Regime"  
*Maximilian Eggersdorfer, PTL*  
"Enclosed Flame Spray Pyrolysis: Control of Product Particle Size by Air Entrainment"  
*Oliver Waser, PTL*
- Sept. 13 "Synthesis and characterization of conductive polymer nanocomposite films By FSP"  
*Christoph Blattmann, PTL*