

## Particle Technology Seminar WSo5/o6

Fridays 14-17h; ML F40, Coordinator: M.C. Heine (heine@ptl.mavt.ethz.ch)

Nov 7 NO G33	Soft- and hard TiO <sub>2</sub> agglomerate nanoparticles made in flame reactors Lukas Wengeler (IVT, RWTH Aachen)
Nov 11 NO G15	FSP made bioglass nanoparticles Nadine Blunschi, PTL, ETHZ
Nov 18 ML F40	Surface modification of flame-made Ta <sub>2</sub> O <sub>5</sub> -doped SiO <sub>2</sub> Frederic Marxer, PTL, ETHZ
Nov 25 ML F40	Synthesis and Characterization of Nano-Sized ZnO Particles by Thermal Decomposition of Zinc Acetate Using <i>Broussonetia papyrifera</i> (L.) Vent Pulp (Por-Saa) as a Dispersant Chaikarn Liewhiran The evolution of soft- and hard agglomerates in diffusion flames Timothy Patey
Dec 2	No seminar
Dec 9 ML F40	Sintering Behavior of Polydisperse Primary Particles Martin Heine, PTL, ETHZ
Dec 16 13:15-17:00 ML F40	Laser Induced Incandescence in hydrocarbon flames Dr. Francesco Cignoli (Milano, Italy) Start up experiments on nanoparticles production with a hybrid burner Dr. Carla Bellomunno (Milano, Italy) The effect of particle size reduction of iron compounds on bioavailability in rats Fabian Rohner (ETH Food Science and Nutrition)
Dec 20 Tuesday NO G15	In-Situ SAXS Measurement of SiO <sub>2</sub> Nanoparticle Growth in Diffusion Flames Adrian Camenzind The evolution of soft- and hard agglomerates in diffusion flames Timothy Patey Adhesion Strength of thermophoretic deposited powder coatings Antonio Tricoli
Dec 23	Nanodielectrics Samuel Ansorge, Sefag ixosil AG (PFISTERER GRUPPE)
Jan 6	No seminar
Jan 9 Monday	Activities in the Aerosol Physics Laboratory at TUT Jyrki Mäkelä Particle production by liquid flame spray (LFS) Helmi Keskinen

Jan 13	No seminar
Jan 20	<p>Thermogravimetric Analysis of the Hydrolysis Reaction of Zinc Nanoparticles  Philippe Osch</p> <p>Zinc particle hydrolysis for hydrogen production - reactor evaluation and parametric study  Nic Piatkowski</p> <p>Untersuchung des Quenchverhaltens von Zink/Sauerstoffgemischen in einem Quarzglasreaktor  Remo Hotz (PSI)</p>
Jan 27	<p>Understanding Nanoparticle Formation and Evolution in Flame Synthesis  Prof. Yangchuan Xing (University of Missouri – Rolla)</p> <p>FSP made bioglass nanoparticles  Nadine Blunschi (PTL)</p>
Feb 3	<p>Surface modification of flame-made Ta<sub>2</sub>O<sub>5</sub>-doped SiO<sub>2</sub>  Frederic Marxer (PTL)</p> <p>Nanoparticle Dispersion and Characterization of flame-made Oxides based on Silica.  Thomas Rudin (PTL)</p> <p>Computational Studies of Nanoparticles from the Vapor Phase: Applications, Science &amp; Engineering  Prof. Sean Garrick (University of Minnesota)</p>
Feb 9 NO G15	The evolution of soft and hard silica agglomerates in diffusion flames Timothy Patey (PTL)
Feb 17	No seminar