



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

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## Particle Technology Seminar FS11

Fridays 14-17h; ML F40

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|---|---|
| Feb. 25                                       | "Thiol-functionalized flame-made FeOx/SiO <sub>2</sub> nanoparticles"<br><i>Jesper Knijnenburg, PTL, ETHZ</i>   |
| March 4                                       | "One-step silica-coated nanoparticles by flame spray synthesis"<br><i>Samuel Gass, SE planning presentation, PTL</i>  |
| March 11                                      | "Size effects in NO <sub>x</sub> storage reduction catalysts: influence of SO <sub>2</sub> "<br><i>Robert Büchel, PTL, ETHZ</i>   |
| March 18                                      | "Functional magnetic nanocomposite materials with flame-made fillers"<br><i>Christoph Blattmann, BS planning presentation, PTL</i><br>"Flame synthesis of carbon coated tin nanoparticles for Li-ion battery electrodes"<br><i>Stefan Walser, BS planning presentation, PTL</i> |
| March 25                                      | "Flame synthesis of carbon coated copper oxide for Li-ion conversion reaction electrodes"<br><i>Andreas Güntner, BS planning presentation, PTL</i>  |
| April 11 <b>Mon</b><br><b>ML F40 @ 11am</b>   | "Sintering Rate and Mechanism of Amorphous Silicon Dioxide Nanoparticles"<br><i>Sebastian Conrady, SA planning presentation, PTL</i>  |
| April 29<br><b>@13.00</b>                     | "Evaporation of Van der Waals nanodroplets by Molecular Dynamics simulations"<br><i>Dr. Gianluca Santarossa, PTL, ETHZ</i><br>"Understanding nano-bio-interactions through nanoparticle design"<br><i>Prof. Lutz Mädler, University of Bremen</i>                               |
| May 2 <b>Mon</b><br><b>ML F40 @11am</b>       | "Methodology and Infrastructure for Predictive Modelling"<br><i>Prof. M. Frenklach, Dep. of Mechanical Engineering, University of California, Berkeley, USA</i>   |
| May 6<br><b>CLA J1 @ 1pm</b>                  | "Flame synthesis of nanosized copper oxide for Li-Ion conversion reaction electrodes: Particle size effects on electrochemical performance"<br><i>Andreas Güntner, BS presentation, PTL</i>   |
| May 16 <b>Mon</b><br><b>ML H41.1 @3pm</b>     | "Flame Synthesis of Carbon Coated Tin Nanoparticles for Li-ion Battery Electrodes"<br><i>Stefan Walser, BS presentation, PTL</i>  |
| May 23 <b>Mon</b><br><b>CLA J1 @10am</b>      | "Functionalized SiO <sub>2</sub> particles for catalytic-environmental applications"<br><i>Prof. Yiannis Deligiannakis, University of Ioannina, Greece</i>  |
| May 25 <b>Wed</b><br><b>ML E12 @5.30pm</b>    | "Real-time analysis of exhaled breath: chances and pitfalls"<br><i>Prof. Anton Amman, Medical University of Innsbruck, Austria</i>  |
| June 23 <b>Thu</b><br><b>HG D3.1 @10.30am</b> | "Multicomponent Population Balances: Mixing of Components by Aggregation"<br><i>Prof. Themis Matsoukas, University of Michigan, USA</i>   |
| June 29 <b>Wed</b><br><b>ML E13 @3pm</b>      | "Investigation of scale-up routes of nano particle synthesis from the gas phase"<br><i>Carolin Schilling, University of Duisburg-Essen, Germany</i>   |

July 1 <b>ML E13</b>	„Sintering Rate and Mechanism of Amorphous Silicon Dioxide Nanoparticles“ <i>Sebastian Conrady, SA presentation, PTL</i>
Aug 19 <b>ML E13 @10am</b>	“Aggregate Morphology and Average Number and Diameter of Primary Nanoparticles during Sintering” <i>Max Eggersdorfer, PTL, ETHZ</i> „A Simplified CFD Model for Flame Spray Synthesis of Nanoparticles” <i>Arto Gröhn, PTL, ETHZ</i>
Aug 26 <b>ML E13</b>	"Flame synthesis of silica-coated color tunable nanophosphors" <i>Georgios Sotiriou, PTL, ETHZ</i>
Aug 31 <b>Wed</b> <b>ML F39</b>	„A Simplified CFD Model for Flame Spray Synthesis of Nanoparticles” <i>Arto Gröhn, PTL, ETHZ</i>
Sept 26 <b>Mon</b> <b>HG G30 @1pm</b>	"Nanotechnology and Bioengineering in an Evolving Chemical Engineering World: The Next Generation of Recognitive, Intelligent Medical Microdevices" <i>Prof. Nicholas A. Peppas, University of Texas at Austin, USA</i>