

## Particle Technology Seminar HS10

Fridays 14-17h; ML F40

Sept. 20 Mon <b>CLA J1 @2pm</b>	"Sulfur in NOx storage reduction catalysts" <i>Robert Büchel, PTL, ETHZ</i>
Sept. 24	"Particle Dynamics in Mixing-limited Combustion Aerosol Reactors" "Investigation of Fluid Dynamics and Chemical Reactions in a Flame Spray Pyrolysis Aerosol Reactor" <i>Arto Gröhn, PTL, ETHZ</i>
Sept. 27 Mon <b>ML F39 @ 2pm</b>	"Report the research in ETH" <i>Masayuki Tsuji, Kanazawa University, Japan</i> "Thermally stable, silica doped WO <sub>3</sub> for sensing of acetone in the human breath" <i>Marco Righettoni, PTL, ETHZ</i>
Oct. 1	"Multi-particle sintering of fractal-like aggregates" <i>Max Eggersdorfer, PTL, ETHZ</i> "Molecular Dynamics of TiO <sub>2</sub> Nanoparticle Sintering to Complete Coalescence" <i>Beat Büsser, PTL, ETHZ</i>
Oct. 22	"Flame Spray Synthesis of Bi <sub>2</sub> O <sub>3</sub> Nanoparticles From Low Enthalpy Precursors" <i>Thomas Rudin, PTL, ETHZ</i> "Molecular Dynamics of TiO <sub>2</sub> Nanoparticle Sintering to Complete Coalescence" <i>Beat Büsser, PTL, ETHZ</i> "Thermally stable, silica doped WO <sub>3</sub> for sensing of acetone in the human breath" <i>Marco Righettoni, PTL, ETHZ</i>
Oct. 29	"Flame Spray Synthesis of Bi <sub>2</sub> O <sub>3</sub> Nanoparticles From Low Enthalpy Precursors" <i>Thomas Rudin, PTL, ETHZ</i>
Nov. 4 Thur <b>HG F 33.4</b>	"Tailoring the Structural Properties of Flame-Made Mixed Metal-Oxide Catalysts" <i>Björn Schimmöller, PTL, ETHZ</i>
Nov. 15 Mon <b>HG F33.5</b>	"Investigation of the Structural and Electronic Properties of Pure and Ti-doped SnO <sub>2</sub> Nanoparticles by First-Principles Calculations" <i>Dr. Gianluca Santarossa, PTL, ETHZ</i> "Amorphous LiFePO <sub>4</sub> for Li-ion Batteries" <i>Oliver Waser, PTL, ETHZ</i>
Nov 18 Thur <b>ML E13 @ 1pm</b>	"Flame Synthesis of ZnO-based Dye Sensitized Solar Cells" <i>Dr. Antonio Tricoli, PTL, ETHZ</i> "Investigation of the Properties of Pure and Ti-doped SnO <sub>2</sub> Nanoparticles by First Principles Calculations" <i>Dr. Gianluca Santarossa, PTL, ETHZ</i> "Chemo-resistive gas sensors for easy diagnosis of diabetes by breathe analysis" <i>Marco Righettoni, PTL, ETHZ</i>
Dec 10	"Agglomerate break-up in turbulent flows" <i>Max Eggersdorfer, PTL, ETHZ</i>

Dec 15 Wed <b>CLA J1 @ 10am</b>	“Two novel approaches to the synthesis of PZT nanoparticles” <i>Francesca Bortolani</i> “Investigation of Particle Synthesis by Flame Spray Pyrolysis” <i>Arto Gröhn, PTL, ETHZ</i>
Dec 17	“Reactive deposition of metals from supercritical carbon dioxide” <i>Vera Tschedanoff, PTL, ETHZ</i>
Dec 22 Thur <b>ML H41.1 @1am</b>	“Influence of the combustion temperature on product homogeneity in FASP” <i>Thomas Rudin, PTL, ETHZ</i>
Jan 3 Mon <b>ML E13</b>	“Multiscale Design for Aerosol Synthesis of Functional Nanoparticles” <i>Beat Büscher, PTL, ETHZ</i> „Atomistic simulations of subcritical evaporation of nanodroplets” <i>Dr. Gianluca Santarossa, PTL, ETHZ</i>
Jan 17 Mon <b>ML E13@1.15am</b>	“Comparison of Mass and Heat Transfer models for Flame Spray Pyrolysis” <i>Arto Gröhn, PTL, ETHZ</i>
Jan 25	“Population balance modeling of Brownian coagulation in a semi-batch reactor” <i>Jesper Knijnenburg, PTL, ETHZ</i>