



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

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Particle Technology Seminar FSo8

Fridays 14-17h; ML F40

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| Jan. 25
ML E13 | "Admixing of nanoparticles in a dual asymmetric centrifuge: An approach for filler screening"
<i>Adrian Camenzind, PTL, ETHZ</i> |
| Feb. 6 Wed | "Nanodielectrics in High Voltage Applications: Insulating materials for outdoor use"
<i>Samuel Ansorge, ETHZ</i>
"Gas-phase, in-situ surface functionalization of flame-made nanoparticles"
<i>Nada Bjelobrk, ETHZ</i> |
| Feb. 25 Mon
@4pm | "Size characterization and sensitivity of flame made tin-oxide particles"
<i>Helmi Keskinen, Tampere University of Technology TUT, Finland</i> |
| Feb. 29 | "Structure of particle deposits in porous media and applications for filtration theory"
<i>Tobias Elmø, DTU Lyngby, Denmark</i> |
| March 10 Mon
ML E13 @ 9am | "Flame synthesis of tin-titanium-oxide solid solution and their application as gas sensor"
<i>Antonio Tricoli, PTL, ETHZ</i> |
| March 18 Tue
ML F34 @1pm | "Optimization of support, storage and noble metal in NO _x storage reduction catalysts"
<i>Alessandro Karpf, ETHZ</i> |
| April 4 | "Flame-made V ₂ O ₅ based oxidation catalysts"
<i>Tobias Vasella, ETHZ</i>
"Shear-induced and Brownian Coagulation"
<i>Max Eggersdorfer, ETHZ</i> |
| Apr 11 | "Carbon Coating of Nano Particles for Battery Materials"
<i>Waser Oliver, ETHZ</i> |
| Apr 18 | "The feasibility of using heat exchangers in the filtration of particulate emission and outlook to CFD modeling of flames and aerosols"
<i>Arto Gröhn, University of Kuopio, Finland</i> |
| Apr 25 | "Investigation on Potassium in NO _x storage reduction catalysts"
<i>Alessandro Karpf, ETHZ</i> |
| May 6 Tue
ML E13 @1pm | "Gelation in colloidal suspensions: Modulated phases, network formation & glassy dynamics"
<i>Dr. Emanuela Del Gado, Polymer Physics, ETHZ</i> |
| May 9 | "Environmentally Benign Processing of Nano-powders: Mixing and Fluidization"
<i>Prof. Rajesh N. Davé, New Jersey Institute of Technology, USA</i> |

- May 16 "Precursor selection for FSP: Towards homogeneous nanoparticles from cheap precursors"
Dr. Reto Strobel, PTL, ETHZ
- May 23 "Two-nozzle flame synthesis of Pt/Ba/Al₂O₃ for NO_x storage"
Robert Büchel, PTL, ETHZ
"The influence of water on NSR catalysts"
Stephanie Berger, University of Cincinnati, USA
- May 29 Thrs "Aerosol methods for safe production of metal nanoparticles"
ML E13 @ 1pm *Prof. Jorma Jokiniemi, University of Kuopio, Finland*
- May 30 "FSP-made V₂O₅ based oxidation catalysts: influence of support on VO_x-species"
@2.30pm *Tobias Vassella, final presentation of Bachelor work, ETHZ*
- June 9 "Flame-made fillers for dielectric nanocomposites with high permittivity"
ML E13 @ 10am *Georgios Sotiriou, ETHZ*
- June 13 "Rapid synthesis of anti-fogging and self-cleaning coatings on glass surfaces"
Marco Righettoni, ETHZ
- June 20 "Deposition of flame-made nanoparticles on porous media"
Tobias Elmø, DTU Lyngby, Denmark
- June 27 "Coagulation of highly concentrated aerosols from free molecule to continuum"
Beat Büsser, PTL, ETHZ
- July 3 "Dielectric properties of nanocomposites"
CLA E4 @2pm *Samuel Ansorge PFISTERER SEFAG AG and PTL, ETHZ*
- July 11 "Deposition of Polydisperse Agglomerates"
CLA D17 @1pm *Karl Goossens, ETHZ*
"Syntheses of noble metal/oxide nanocomposites using wet-chemistry methods"
Huanjun ZHANG, Hong Kong University of Science & Technology, China