

20th october

9:00 Welcoming and general information

9:30 Gabrielle E. Schaumann: *Presentation of the project INTERNANO*

10:00 Keynote: Mohamed Baalousha: *Development and application of fully quantitative sampling approach for analysis of engineered nanomaterials by microscopy techniques*

10:55 Coffee break

11:35 Sayed Amininejad, Ruben Weiss, Natalia P. Ivleva, and Thomas Baumann: *Visualization of TiO₂ nanoparticles in environmental samples by using Raman microspectroscopy*

12:00 Guillaume Fleury, Mirella Del Nero, and Rémi Barillon: *ESI-FTMS study of the effect of mineral surface properties on the sorptive fractionation of soil fulvic acids*

12:25 Lunch

14:00 Holger Schmidt: *Assessment of sub-lethal effects of silver nanoparticle exposure on biofilm morphology and functionality*

14:25 Philipp Schöftner, Dorothea Summer, Bernhard Wimmer, Simon Leitner, Andrea Watzinger, Tanja Kostic, Angela Sessitsch, Thomas G. Reichenauer: *Synergistic degradation of chlorinated hydrocarbons with microorganisms and zero valent iron*

14:50 Keynote 2: Thilo Hofman: *Fate of Nanoparticles regarding Drinking Water Supply*

15:45 Coffee break

16:10 Simon Lüderwald, Theresa Schell, Frank Seitz, Ricki R. Rosenfeldt, Vera Dackermann, Ralf Schulz, and Mirco Bundschuh: *Chronic toxicity of nano-sized titanium dioxide and silver on a benthic model organism: Importance of exposure pathway?*

16:35 Anna-Lena Grün, Christoph Emmerling, and Michael Schloter: *Effects of environmental relevant concentrations of silver nanomaterials on microorganisms in a loamy soil*

17:00 Tonya Gräf, Jan Köser, Alica Rother, Anna-Lena Borges, Suman Pokhrel, and Juliane Filser: *Copper oxide nanoparticles: characterization and evaluation of short- and long-term effects to different aquatic organisms*

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9:00 Keynote: Markus Flury: *The importance of air-water interfaces for colloid transport in soils*

9:55 Urs Dippon, Silke Pabst, and Sondra Klitzke: *Influence of natural organic matter and synthetic polymers on CeO₂-nanoparticle colloidal stability and their transport through sand filter columns*

10:20 Petra Skácelová, Jan Filip, Josef Kašlík, Vojtěch Stejskal and Tomáš Cajthaml: *Migration and fate of iron nanoparticles under field conditions: Results of a long-term monitoring*

10:45 Coffe break

11:25 Anke Wiener: *Investigations of three-dimensional transport and sedimentation properties for nano iron particles in one-dimensional column experiments*

11:50 Sandra Barnikol, George Metreveli, Sondra Klitzke, Frank Seitz, Ricki R. Rosenfeldt, Thomas Baumann, Mirco Bundschuh, Friederike Lang, Werner Manz, Ralf Schulz, Hans-Jörg Vogel, and Gabriele E. Schaumann: *A floodplain mesocosm system linking fate and effects of engineered nanoparticles at the aquatic-terrestrial interface*

12:15 Lunch

14:00 Keynote: Serge Stoll: *Towards a better understanding of interaction mechanisms between nanoparticles and environmental compounds*

14:55 Olena Oriekhova and Serge Stoll: *CeO₂ nanoparticles aging in aquatic systems*

15:20 Poster session

16:20 Morgane Desmau, Alexandre Gélabert, Clément Levard, Georges Ona-Nguema, Yann Sivry, Peter Eng, and Marc Benedetti: *Interactions of silver nanoparticles with the biofilm/mineral interface*

16:45 George Metreveli: *Aging and colloidal status of silver nanoparticles in natural and artificial aqueous media*

17:05 End of the workshop