

5th Late Summer Workshop
„Nanoparticles and Nanomaterials in Aquatic Systems“
 September 29th - October 1st, 2010,
 Schloss Maurach, Lake Constance

P r o g r a m

<u>28. 09. 2010</u>	<u>Tuesday</u>
16.00 – 19.00	Registration
<i>19.00</i>	<i>Dinner</i>
<u>29. 09. 2010</u>	<u>Wednesday</u>
<i>08.00 – 09.00</i>	<i>Breakfast</i>
09.00 – 09.15	Welcome and opening remarks: <u>Martin Jekel</u> , Berlin, Germany
09.15 – 10.15	<u>Thilo Hofmann & Frank von der Kammer</u> , Vienna, Austria: “An introduction to natural and engineered colloids and nanoparticles”
<i>10.15 – 10.45</i>	<i>Coffee Break</i>
10.45 – 11.45	<u>R. Lee Penn</u> , Minneapolis, USA: “Iron oxide nanocrystal growth and aggregation”
11:50 – 12.10	<u>Juliane Braunschweig</u> , Munich, Germany: “Effect of humic coatings on colloid-mediated Fe oxide reduction”
12:10 – 12:30	<u>Elisabeth Neubauer</u> , Vienna, Austria: “Influence of sunlight induced breakdown of natural nanoparticles on trace metal mobility: insights from the application of different size separation techniques”
<i>12.30 - 13.30</i>	<i>Lunch</i>
13.30 – 14.30	<u>Glenn Waychunas</u> , Berkeley, USA: “Mineralogy and geochemistry at lower dimensionality: Mineral-water interfaces and nanoparticle-water interfaces”
14.30 – 15.30	<u>Willem van Riemsdijk</u> , Wageningen, Netherlands: “Surface characteristics of organic and inorganic nanoparticles and their interaction”
<i>15.30 – 16:00</i>	<i>Coffee Break</i>
16.00 – 17.00	<u>Jens Rieger</u> , Ludwigshafen, Germany: “Inorganic nanoparticles in hard water”

17.00 – 17.20	<u>André Matheis</u> , Stuttgart, Germany: “Laboratory experiments to characterize the transport and reactivity of zero-valent iron colloids in the subsurface”
17.20 – 17.40	<u>Diana Kozlova</u> , Essen, Germany: “Synthesis and characterization of silver-doped calcium phosphate nanoparticles”
17.45	Departure Birnau (15 minutes walk)
18.00	Visit Church of the Birnau Monastery
19.00	<i>Dinner</i>
<u>30. 09. 2010</u>	<u>Thursday</u>
08.00 – 09.00	<i>Breakfast</i>
09.00 – 10.00	<u>Mark Wiesner</u> , Durham, USA: “Aggregation, reactivity, and toxicity of fullerene-based nanomaterials: Separating fact from fiction”
10.00 – 10.20	<u>Markus Delay</u> , Karlsruhe, Germany: “Interactions and stability of silver nanoparticles in the aqueous phase: Influence of natural organic matter (NOM) and ionic strength”
10:20 – 10:40	<u>Samuel Legros</u> , Vienna, Austria: “Nanoparticles behaviour in water: the case of functionalized gold Nanoparticles”
10.40 – 11.10	<i>Coffee Break</i>
11.10 – 12.10	<u>Menachem Elimelech</u> , New Haven, USA: “Aggregation behavior of carbon-based nanomaterials in aquatic environments: Implications for transport, fate, and cytotoxicity”
12.10 - 12.30	<u>Thorsten Hüffner</u> , Essen, Germany: “Sorption of non-ionic organic compounds onto carbon-based nanomaterials”
12.30 – 14.00	<u>Lunch</u> (after lunch, ca. 13.30 group photo taken at the garden)
14:00 – 14:20	<u>Xiaoran Zhang</u> , Vienna, Austria: “Sorption of polycyclic aromatic hydrocarbons to multiwalled carbon nanotubes: a comparison of POM-SPE and centrifugation methods”
14:20 – 14:40	<u>Melanie Kah</u> , Vienna, Austria: “Sorption of polycyclic aromatic hydrocarbons to multiwalled carbon nanotubes in the low concentration range”
14.40 – 15.00	<u>Heiko Schwegmann</u> , Karlsruhe, Germany: „Surface characteristics of inorganic Nanoparticles and their impact on various model microorganisms”

15.00 – 15.30	Coffee Break
15.30 – 16.30	<u>Charles R. Tyler</u> , Exeter, United Kingdom: “Bioavailability and biological effects of metal oxide nanoparticles in fish”
16.30 – 16.50	<u>Tobias Meissner</u> , Dresden, Germany: “Nanoparticle and suspension characterization as basis for toxicological investigations”
16.50 – 17.10	<u>Harald Hagendorfer</u> , Dübendorf, Switzerland: “Asymmetric flow field flow fractionation (AF4) in combination with a multi-detector approach for the characterization of engineered nanoparticles”
17.10 – 17.30	<u>Thorsten Klawonn</u> , Schmallenberg, Germany: “Analysis of metal nanoparticles and potentially released metal ions in water and sediment”
18.30 - 20.00	Dinner
20.00	Wine-tasting at the Schloss
<u>01. 10. 2010</u>	<u>Friday</u>
08.00 – 09.00	Breakfast
09.00 – 10.00	<u>Alistair Boxall</u> , York, United Kingdom: “Assessing exposure for environmental risk assessment: the challenge of nanomaterials”
10.00 – 10.20	<u>Antonia Praetorius</u> , Zurich, Switzerland: “Modelling the fate and transport of engineered nanoparticles in water: A case study with TiO ₂ in three different water systems”
10.20 – 11.10	Coffee Break
11.10 – 11.30	<u>Carmen Nickel</u> , Duisburg, Germany: “Fate and behaviour of TiO ₂ Nanomaterials in the environment, influenced by their shape, size and surface area”
11.30 – 11:50	<u>Morgane Boulestreau</u> , Berlin, Germany: “Online analysis of the nanoparticles size distribution during ozonation and coagulation treatment”
11.50 – 12.00	<u>Martin Jekel</u> , Berlin, Germany Closing remarks
12.00	Lunch