

| <u>07/02/2017</u> |                   |   |   |              |  |
|-------------------|-------------------|---|---|--------------|--|
| start             | end               | name  | title   | chair        |  |
| 09:00:00          | 09:20:00          | Welcome by Professor José Fernando Mendes<br>Vice-Rector for Research and Doctoral degrees University of Aveiro |   | L. Duester   |  |
| 09:20:00          | 09:45:00          | Keynote 1 R. Kaegi  | Contributions of ENTER to Assess Fate and Transport of Engineered Nanomaterials in Urban (Waste)Water Systems                                       |              |  |
| 09:45:00          | 10:10:00          | Keynote 2 Michael Burkhardt   | Production volume of nanomaterials  | R. Kaegi     |  |
| 10:10:00          | 10:25:00          | A. Wimmer   | To What Extent Can Full-Scale Wastewater Treatment Plant Effluent Influence the Occurrence of Silver Nanoparticles in Surface Waters?               |              |  |
| 10:25:00          | 10:40:00          | E. Topuz  | Silver Nanoparticle Interactions with Aquatic Environmental Relevant Constituents Determine Their Environmental Fate?                               |              |  |
| 10:40:00          | 10:55:00          | A. Markus   | Nanoparticles in the Rhine – a new concern for the environment?   |              |  |
| 10:55:00          | 11:20:00          | Coffee/Poster   |   |              |  |
| 11:20:00          | 11:35:00          | T.T. Onay   | Effect of Nano-ZnO on Waste Stabilization in Simulated Landfills  |              |  |
| 11:35:00          | 11:50:00          | H. Auvinen  | Fate of silver nanoparticles in constructed wetland microcosms  |              |  |
| 11:50:00          | 12:05:00          | D. Lyons  | From wastewaters to estuaries and coastal waters – entry pathways and effects of engineered nanoparticles on brackish and marine organism           |              |  |
| 12:05:00          | 13:15:00          | Lunch   |   |              |  |
| 13:15:00          | 13:40:00          | Keynote 3 G. Sarret   | Fate of silver nanoparticles in agricultural soils  | M. Burkhardt |  |
| 13:40:00          | 13:55:00          | J. Makselon   | Experimental and numerical investigations of silver nanoparticle transport under variable flow and ionic strength in soil                           |              |  |
| 13:55:00          | 14:10:00          | I. Dror   | Transport of engineered nanoparticles in partially saturated sand columns   |              |  |
| 14:10:00          | 14:35:00          | Keynote 4 Yann Sivry  | The analytical toolbox: an overview of the main analytical improvements performed in the frame of ENTER   |              |  |
| 14:35:00          | 14:50:00          | M. Marguš   | Development of the electrochemical method for detection and characterization of metal sulfide nanoparticles (MeS) in the aquatic environment        | Y. Sivry     |  |
| 14:50:00          | 15:05:00          | A. Philippe   | Clean and efficient extraction method of titanium dioxide nanoparticles from commercialized sunscreens  |              |  |
| 15:05:00          | 15:35:00          | Coffee/Poster   |   |              |  |
| 15:35:00          | 16:00:00          | Keynote 5 E. Alasonati  | Metrological characterization of nanoparticles in environmental matrices by A4F and SP-ICPMS  |              |  |
| 16:00:00          | 16:15:00          | G. Cornelis   | Size detection limits of spICP-MS using different instruments or data treatment algorithms  |              |  |
| 16:15:00          | 16:30:00          | A. Praetorius   | Detection of engineered cerium oxide nanoparticles in soil samples using multi-element single-particle ICP-TOF-MS                                   |              |  |
| 16:30:00          | 16:45:00          | N. I. Supiandi  | Transformation of isotopically labeled CdSe/ZnS quantum dots in surface waters  |              |  |
| 16:45:00          | 17:00:00          | N. Tepe   | Comparison of sample introduction systems and calibration methods for the characterization of nanoparticulate suspensions by single particle ICP-MS |              |  |
| 20:00:00          | Conference dinner |   |   |              |  |

| <u>08/02/2017</u> |          |                        |   |            |
|-------------------|----------|------------------------|---|------------|
| start             | end      | name                   | title   | chair      |
| 09:15:00          | 09:40:00 | Keynote 6 A. Gutleb    | The problem of choice - non-vertebrate model organisms and nanoparticle   | L. Duester |
| 09:40:00          | 09:55:00 | P. Lycus               | Silver nanoparticles restrain the aerobic respiration in <i>Paracoccus denitrificans</i> , but have a little effect on the denitrification process  |            |
| 09:55:00          | 10:10:00 | C. M. R. Almeida       | Effect of silver nanoparticles on phytoremediation by the salt marsh plant <i>Phragmites australis</i>  |            |
| 10:10:00          | 10:40:00 |                        | Coffee/Poster   |            |
| 10:40:00          | 10:55:00 | K. Mehennaoui          | Influence of size and surface coating on AgNPs and AuNPs uptake by <i>Gammarus fossarum</i>   | A. Gutleb  |
| 10:55:00          | 11:10:00 | R. Rosenfeldt          | How nanoparticles affect heavy metal toxicity for pelagic and benthic freshwater crustaceans  |            |
| 11:10:00          | 11:25:00 | A. Barrick             | Nanomaterial toxicity through a High Throughput Screening Approach on <i>Mytilus edulis</i> hemocytes   |            |
| 11:25:00          | 11:40:00 | M.P. Cajaraville       | Molecular and cellular effects of silver nanoparticles on adult mussels exposed through the diet and on their offspring                             |            |
| 11:40:00          | 11:55:00 | L. De Marchi           | Physiological and biochemical responses of polychaete <i>Diopatra neapolitana</i> to graphene oxide   |            |
| 11:55:00          | 13:00:00 |                        | Lunch   |            |
| 13:00:00          | 13:25:00 | Keynote 7 Ruth Moeller | Regulatory aspects of nanomaterials   |            |
| 13:25:00          | 13:40:00 | C. Mouneyrac           | How to improve the environmental impact assessment of engineered nanomaterials under realistic conditions? The use of mesocosm facilities           |            |
| 13:40:00          | 13:55:00 | S. Loureiro            | Nano-heterostructures hazard assessment: mixture toxicity and fate scenarios  |            |
| 13:55:00          | 14:10:00 | L. Giambérini          | Integrated effect evaluation of metallic nanoparticles on a simplified freshwater food chain of micro-organisms and bivalves, an overview           |            |
| 14:10:00          | 14:40:00 |                        | Coffee/Poster   |            |
| 14:40:00          | 14:55:00 | C. Coutris             | Ag and TiO <sub>2</sub> nanoparticles interfere with the oxic and anoxic respiration of the activated sludge bacterium <i>Thauera linaloolentis</i> | L. Duester |
| 14:55:00          | 15:10:00 | A.-L. Fabricius        | Development of size-fractionation strategies for colloidal systems of sediment pore water samples   |            |
| 15:10:00          | 15:25:00 | F. Weigl               | Cloud-point extraction as a key technology for the species selective preconcentration of nanoparticles in environmental samples                     |            |
| 15:25:00          | 15:40:00 | S. Kurtz               | Engineered nanoparticles in the aquatic-terrestrial transition zone: A floodplain mesocosm study  |            |
| 15:40:00          | 15:55:00 | A. Georgantzopoulou    | Behaviour and ecotoxicological effects of Ag and TiO <sub>2</sub> nanoparticles in the effluent of a lab-scale waste water treatment plant          |            |
| 15:55:00          | 16:20:00 | L. Duester             | COST Action ES1205 (05/04/2013 – 04/04/2017) - a funeral eulogy   |            |
| 16:20:00          | 17:30:00 |                        | Drinks & Goodby   |            |
| 20:00:00          |          |                        | The final ES1205 football match   |            |