

THURSDAY, November 5, 2015

SESSIONS 11 & 12 & 13, in parallel

9:00–10:30

Nadir hall

SESSION 12: 1st European workshop:

Analysis of nanoparticles in food, cosmetics and consumer products

Chair: Stefan Weigel

9:00–9:20 **L64**

ANALYSIS OF NANOPARTICLES IN FOOD, COSMETICS AND CONSUMER PRODUCTS

Stefan Weigel, RIKILT Wageningen UR, Wageningen, The Netherlands

9:20–9:40 **L65**

APPLICATION AND FUTURE PERSPECTIVE OF AUTOMATED ELECTRON MICROSCOPY TO QUANTIFY ENGINEERED NANOPARTICLES IN COMPLEX MATRICES

Ralf Kaegi, Eawag, Duebendorf, Switzerland

9:40–10:00 **L66**

AN INNOVATIVE CONCEPT TOWARDS STANDARDIZED METHOD DEVELOPMENT TO SEPARATE, CHARACTERIZE AND QUANTIFY ENGINEERED NANOPARTICLES IN FOOD AND COSMETICS

Stephan Wagner, Helmholtz Centre for Environmental Research, Leipzig, Germany

10:00–10:20 **L67**

ON-LINE COUPLING OF SIZE SEPARATION BY HDC AND AF4 WITH SPICP-MS FOR IMPROVED ACCURACY IN NANOPARTICLE ANALYSIS

Ruud Peters, RIKILT Wageningen UR, Wageningen, The Netherlands

10:20–10:30 **L68***

DETECTION AND CHARACTERIZATION OF ALUMINIUM-CONTAINING NANOPARTICLES IN A COMPLEX FOOD MATRIX

Manuel Correia, National Food Institute, Technical University of Denmark, Soeborg, Denmark

10:30–11:00

Coffee Break / EXHIBITION

SESSIONS 14 & 15 & 16, in parallel

11:00–12:30

Nadir hall

SESSION 15: 1st European workshop:

Analysis of nanoparticles in food, cosmetics and consumer products

Chair: Stefan Weigel

11:00–11:20 **L69**

A SHORT TUTORIAL ON THE POSSIBILITIES AND FUTURE PERSPECTIVES OF ELECTRON MICROSCOPY TECHNIQUES TO MEASURE PARTICLE NUMBER SIZE DISTRIBUTIONS OF NANOMATERIALS

Ralf Kaegi, Eawag, Duebendorf, Switzerland

11:20–11:40 **L70***

ASYMMETRIC FLOW FIELD-FLOW FRACTIONATION FOR THE DETECTION AND CHARACTERIZATION OF NANOPARTICLES IN FOOD – A SHORT TUTORIAL

Katrin Loeschner, National Food Institute, Technical University of Denmark, Soeborg, Denmark

11:40–12:00 **L71**

SINGLE PARTICLE ICP-MS AS A ROUTINE TOOL FOR NANOPARTICLE ANALYSIS. A SHORT TUTORIAL

Ruud Peters, RIKILT Wageningen UR, Wageningen, The Netherlands

12:00–12:10 **L72***

COMPARISON OF THE SIZE OF TITANIUM (NANO-) PARTICLES IN SUGAR COATING OF SWEETS OBTAINED BY DLS, AF4-MALLS-ICP-MS AND SP-ICP-MS

Inmaculada De la Calle, Ultra Trace Analyses Aquitaine UT2A / ADERA, Pau, France

12:10–12:30

Discussion

12:30–13:30

Lunch

* Young scientists' presentation