

## EcoBalt2016 Conference Programme (Sessions A1 and B1; A2 and B2; A3 and B3; A4 and B4 will run in parallel)



Sunday October 9, 2016 (Struve hall)	
12:00-20:00	<b>REGISTRATION</b>
12:45-17:00	<b>TUTORIAL SESSION I: MEASUREMENT UNCERTAINTY:</b> Tutorial on measurement uncertainty in chemical analysis. Prof. Ivo Leito (University of Tartu, Estonia)
14:15-17:00	<b>Tartu city tours</b>
18:30-21:00	<b>WELCOME RECEPTION</b> (Welcome on the behalf of the University of Tartu); *Special presentation by Sven Začek

Monday October 10, 2016 (Day supported by Estonian Environmental Investment Centre)	
8:30-8:50	<b>Welcome on behalf of the Ministry of the Environment of Estonia</b> (Struve hall)
<b>PLENARY LECTURE I</b> (Struve hall): <b>Adapting to a Changing Climate</b> (Chair: Prof. Ivo Leito)	
8:50-9:25	<b>Evaluating the role of Plants in Regional and Global Air Chemistry and Climate.</b> Prof. Ülo Niinemets (Estonian University of Life Sciences)
9:25-9:40	<b>The Development Plan for Climate Change Adoption.</b> Evelyn Mürsepp (Ministry of the Environment of Estonia)
9:40-9:45	<i>Organizational information.</i> Prof. Ivo Leito
<b>PARALLEL SESSION A1</b> (Struve hall): <b>Environment, climate, economy, society</b> (Chair: Dr. Arturs Viksna)	
9:50-10:10	<b>Adapting to a Changing Climate: Energy and Infrastructure.</b> Laura Rimmelgas (Baltic Environmental Forum, Estonia)
10:15-10:35	<b>Adapting to a Changing Climate: Economy and Society.</b> Kaia Kask (University of Tartu, Estonia)
10:40-11:00	<b>Adapting to Climate Change in Estonia: Planning, Land-use, Health and Rescue Management.</b> Assoc. Prof. Hans Orru (University of Tartu, Estonia)
11:05-11:25	<b>Adapting to a Changing Climate: Natural Environment and Bioeconomy.</b> Monika Suškevičs (Estonian University of Life Sciences, Estonia)
11:30-12:30	<b>LUNCH</b>
<b>PLENARY LECTURE II</b> (Struve hall): <b>Green and sustainable chemistry</b> (Chair: Prof. Nicholas Gathergood)	
12:30-13:05	<b>Fifty Shades of Green: A Critical View to Green and Sustainable Chemistry.</b> Assoc. prof. Gordon W. Driver (Umeå University, Sweden)
<b>PARALLEL SESSION A2</b> (Struve hall): <b>Environmental management</b> (In collaboration with KIK) (Chair: Assoc. prof. Teemu Näykki)	
13:10-13:30	<b>Oxidative degradation of Recalcitrant Organic and Microbial Pollutants in Water.</b> Dr. Halan Prakash (Birla Institute of Technology and Science, India)
13:35-13:55	<b>Evaluation of the impact of industrial wastewater to wastewater treatment processes.</b> Assoc. prof. Taavo Tenno (University of Tartu, Estonia)
14:00-14:20	<b>Bio-recalcitrant Pollutants Removal from Wastewater with Combination of the Fenton Treatment and Biooxidation.</b> Prof. Marina Trapido (Tallinn University of Technology, Estonia)
14:25-14:45	<b>Source apportionment and modelling study of particulate matter from the key sources in Tartu.</b> Marek Maasikmets (Estonian Environmental Research Centre)
<b>PARALLEL SESSION B1</b> (Baer hall): <b>Sustainable chemistry and natural resources</b> (Chair: Assoc. prof. Gordon W. Driver)	
9:50-10:10	<b>Calcium Hydroxyapatite Derived by Environmentally Friendly Sol-Gel Processing Route.</b> Prof. Dr. Habil. Aivaras Kareiva (Vilnius University, Lithuania)
10:15-10:35	<b>Advancing marine biobased product development.</b> Mariann Nõlvak (Tartu Biotechnology Park, Estonia)
10:40-11:00	<b>BeeAware – Apiary project for green future.</b> Tõnis Tänav (University of Tartu, Estonia)
11:05-11:25	<b>Analyses of Environmental Protection Issues among Special Protection Areas Inhabitants' in Latvia.</b> Dr. Žanna Martinsons (Rigas Stradins University, Latvia)
<b>PARALLEL SESSION B2</b> (Baer hall): <b>Novel analytical methods for residues in environment</b> (Chair: Dr. Mihkel Koel)	
13:10-13:30	<b>Analysis of halogenated byproducts of water disinfection with the new High Resolution GCMS – GC Orbitrap.</b> Dr. Hermann Katzlinger (Thermo Fisher Scientific, Germany)
13:35-13:55	<b>On-Line Solid Phase Extraction LC/MS/MS Applications for Environmental Analysis.</b> Dr. Xavier Maës (Agilent Technologies, Germany)
14:00-14:20	<b>On the use of Isotopic Dilution Mass Spectrometry for the Certification of Environmental Reference Materials.</b> Prof. Ewa Bulska (University of Warsaw, Poland)
14:25-14:45	<b>Environmental and food safety applications of tandem mass spectrometry using a novel flow-based design of ion optics.</b> Dr. Ariovaldo Bisi (Perkin Elmer, Italy)
14:45-16:30	<b>POSTER SESSION AND EXPO</b>
16:30-22:00	<b>CONFERENCE DINNER AT MOOSTE MANOR</b> (Back in Tartu at 23:00)



Tuesday October 11, 2016	
<b>PLENARY LECTURE III</b> ( <i>Struve hall</i> ): <b>Nanomaterials in environment</b> (Chair: Prof. Mihkel Kaljurand)	
8:30-9:05	<b>Safety of synthetic nanomaterials: environmental aspects.</b> Prof. Anne Kahru (National Institute of Chemical Physics and Biophysics, Estonia)
<b>PARALLEL SESSION A3</b> ( <i>Struve hall</i> ): <b>Nanomaterials and ultrafine particles in environment</b> (Chair: Prof. Anne Kahru)	
9:10-9:30	<b>Distribution mapping of nanoparticles by Laser-Induced Breakdown Spectroscopy.</b> Assoc. Prof. Karel Novotny (Masaryk University, Czech Republic)
9:30-9:50	<b>Variations in the Concentrations of Ultrafine Particles and PM in Relation to Particle Sources and Meteorological Conditions in Tartu, Estonia.</b> Assoc. Prof. Hans Orru (University of Tartu, Estonia)
9:50-10:10	<b>Exposure of Freshwater Zooplankton to Copper Nanoparticles: Toxicity and Copper Body Burden.</b> Marge Muna (Tallinn University of Technology, Estonia)
10:10-10:30	<b>PM10 and PM2.5 Pollution in Different Districts of Riga City.</b> Dr. Žanna Martinsone (Rigas Stradins University, Latvia)
10:30-11:00	<b>Coffee break</b>
<b>PARALLEL SESSION A4</b> ( <i>Struve hall</i> ): <b>Green City: Urban Biodiversity</b> (Chair: Prof. Viktor Kanicky)	
11:00-11:20	<b>Measuring ecological footprint and urban mobility using mobile positioning data.</b> Prof. Rein Ahas (University of Tartu, Estonia)
11:20-11:40	<b>Combining mobile positioning data with citizen scientists' observations to better track disease-vector mosquitoes.</b> Dr. John Palmer (Pompeu Fabra University, Spain)
11:40-12:00	<b>Acoustical scaring of corvids in the city.</b> Dr. Marko Mägi (University of Tartu, Estonia)
12:00-12:20	<b>Manage your Green city in PlutoF.</b> Allan Zirk (University of Tartu, Estonia)
12:20-13:20	<b>LUNCH</b>
<b>PARALLEL SESSION B3</b> ( <i>Baer hall</i> ): <b>Novel analytical methods</b> (Chair: Prof. Marina Trapido)	
9:10-9:30	<b>Ionic liquids as specific additives in separation methods.</b> Dr. Mihkel Koel (Tallinn University of Technology, Estonia)
9:30-9:50	<b>Laser-assisted plasma spectrometry: research and development in the Laboratory of Atomic Spectrochemistry.</b> Prof. Viktor Kanicky (Masaryk University, Czech Republic)
9:50-10:10	<b>Introduction to Bruker Optics open path and remote sensing systems for monitoring atmospheric conditions and local gaseous pollutions.</b> Andres Siiman (Syntpot OÜ, Estonia)
10:10-10:30	<b>Detection of banned chemicals in various matrices (saliva, sediments) by capillary electrophoresis.</b> Prof. Mihkel Kaljurand (Tallinn University of Technology, Estonia)
<b>PARALLEL SESSION B4</b> ( <i>Baer hall</i> ): <b>Pharmaceutical residues in environment</b> (Chair: Dr. Arturs Viksna)	
11:00-11:20	<b>Occurrence of Pharmaceutical Residues in the Wastewater Treatment Plant in Riga, Latvia.</b> Assoc. Prof. Vadims Bartkevics (University of Latvia)
11:20-11:40	<b>Simultaneous determination of pharmaceutical product residues in water by HPLC-MS/MS using online SPE.</b> Dr. Silvija Abele (University of Oslo, Norway; University of Latvia)
11:40-12:00	<b>Analysis of Pharmaceutical Residues in Wastewater Samples using High Performance Liquid Chromatography coupled to Quadrupole-Orbitrap Mass Spectrometry.</b> Dr. Iveta Pugajeva (University of Latvia)
12:00-12:20	<b>Determination of Steroidal Estrogens in Tap Water Samples using Gas Chromatography-Mass Spectrometry.</b> Dr. Ingus Perkons (University of Latvia)
<b>PLENARY LECTURE IV</b> ( <i>Struve hall</i> ): <b>Green and sustainable chemistry</b> (Chair: Assoc. prof. Gordon W. Driver)	
13:20-13:55	<b>Atom Economy, Catalysis and Green Toxicology: Tools for the Delivery of Sustainable Chemistry based on Ionic Liquids.</b> Prof. Nicholas Gathergood (Tallinn University of Technology, Estonia)
<b>YOUNG SCIENTIST SESSION</b> ( <i>Struve hall</i> ) (Chair: Dr. Hanno Evard)	
14:00-14:20	<b>Doped Rare Earth Oxides and Their Constituent Metals Inhibit Algal Growth by Metal Ion Leaching, Nutrient Removal and Agglomeration Around Algae.</b> Elise Joonas (University of Tartu, Estonia)
14:20-14:40	<b>Packaging waste burning tracers in residential wood combustion area.</b> Hanna-Lii Kupri (Estonian Environmental Research Centre, Estonia)
14:40-15:00	<b>Assessment of the removal efficiency of pharmaceutical residues in the wastewater treatment plant in Riga, Latvia.</b> Dr. Ingars Reinholds (University of Latvia)
15:00-15:20	<b>Application of statistical methods for the analysis of archaeological glass samples.</b> Veronika Dillingerova (Masaryk University, Czech Republic)
<b>POSTER SESSION AND EXPO</b>	
15:45-	<b>Self-organized visits to museums and UT Chemicum.</b>
Wednesday October 12, 2016 ( <i>Struve hall</i> )	
<b>PLENARY LECTURE V</b> ( <i>Struve hall</i> ): <b>Advanced techniques for trace contaminant detection</b> (Chair: Assoc. prof. Teemu Näykki)	
8:30-9:05	<b>Polycyclic aromatic hydrocarbons in the environment and food products: occurrence data, risk assessment and analytical developments.</b> Assoc. Prof. Vadims Bartkevics (University of Latvia)
9:15-10:00	<b>CLOSING OF THE CONFERENCE</b>
10:45-14:00	<b>TUTORIAL SESSION II: VALIDATION OF ANALYTICAL METHODS: Tutorial on validation of LC-MS methods.</b> Assoc. Prof. Koit Herodes and the LC-MS group of University of Tartu.
11:00-	<b>Tartu city tours and longer excursions</b>