

Program: Monday 15th June

Topic of the Day: Introduction to Topic

9:00 - 9:05

Opening remote connection

9:05 - 9:45

Klánová J. (RECETOX): Introduction to Environmental Chemistry

9:45 - 10:25

Bláha L. (RECETOX): Introduction to Ecotoxicity and Toxicity Assessment

Short Description: Hazard assessment, i.e. characterization of adverse effects of chemicals their mixtures or environmental samples is an integral part in the contemporary Risk Assessment. The presentation will provide insights into existing - traditional - as well as emerging approaches (Adverse Outcome Pathways, Computational toxicology) in the assessment of chemical toxicity and ecotoxicity. The examples and case studies about the use of biological assays and the application of (eco)toxicological data will reflect the main topic of the Summer School 2020 focusing also on the contamination of air and urban samples.

10:25 - 10:35

Break

10:35 - 11:15

Scheringer M. (RECETOX): Modeling the environmental fate of organic chemicals

Short Description: Several environmental fate models for organic chemicals will be presented and the underlying modeling approach will be explained. Data needed as input for the models as well as uncertainties associated with model results will be discussed. Case studies will be presented that illustrate the use of environmental fate models in science and decision making.

11:15 - 11:40

Šebková K. (RECETOX): The Wider perspectives and activities towards smarter and healthier cities

Short Description: Challenges in improving wellbeing in the urban environments are partly covered by several global environmental agreements, embedded in the Sustainable Development Goals agenda, emphasised in the European Environment and Health Process and promoted in the Ostrava Declaration priorities (adopted in 2017) as well as through a number of European projects such as HERA, linking health, environment and climate change with a view to identify short and medium term EU research priorities.

11:40 - 12:05

Zastenskaya I. (WHO): A tool for assessment of health risks from combined exposure to hazardous chemicals in indoor air

Short Description: To facilitate the evolution of the current single chemical-based risk paradigm to more efficient and realistic assessment of co-exposures, WHO Europe is developing a tool for assessment of risks from combined exposure focusing on indoor air in public settings for children. The tool comprises a database of supporting toxicological information for selected chemicals and selected adverse effects end-points and a spreadsheet to calculate risk of combined exposures, based on specified decision rules.

12:05 - 12:10

Break

12:10 - 12:45

Holubová A. (CHI): National Atmospheric Observatory Košetice (NAOK) – objectives and results of background station in Central Europe

Short Description: The presentation covers basic information about the Czech Hydrometeorological Institute as the operator of Košetice station. Besides measurement within a national network, NAOK participates in several international programmes. Results from the measurement of meteorological parameters, air and precipitation quality will be introduced.