



ICCE 2019 Session  
Risk assessment of emerging pollutants  
experimental and modelling approaches to fill the data gaps

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The session entitled “Risk assessment of emerging pollutants - experimental and modeling approaches to fill the data gaps” welcomes presentations on various aspects and methodologies of filling the gaps. Large data gaps exist even on the more well-studied chemicals and recently ECHA presented figures indicating that a large share of the information provided for REACH does not comply. Experimental data is missing to complete both exposure and effect assessments to increase safety. Chemical monitoring, studies on fate in the environment and indoors are critical in understanding exposures at workplaces and in the environment. However, deriving experimental data costs time and large financial resources and various modeling approaches have been suggested as alternatives. Modeling can be used to increase our understanding from molecular to global level over several research disciplines and research subjects, for example environmental and human exposure assessment, environmental fate modeling, protein interaction studies, and structure-activity relationship modeling. Modeling can also be used to understand and predict emissions of chemicals from products, in sustainable chemistry, pharmacokinetics, and climate impact studies. The session intends to take on a holistic view on the data generation process including limitations and research needs and we welcome presentations on advances in methodologies, case studies and applications, and use in regulatory contexts.