Modelling of chemical fate and exposure in a regulatory context

CHAIRS: Bernhard Gottesbueren, Henrik Sundberg, Kathrin Fenner

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Modelling of fate and exposure of chemicals in the regulatory context is under continuous development in Europe and other regions of the world. Different regulations, guidance documents and requirements are encountered for different chemicals use classes like pesticides, biocides, pharmaceuticals, veterinary medicines and "general" chemicals. For example new guidance documents for exposure assessment in soil, groundwater and surface water of pesticides are developed by the European Food Safety Authority (EFSA) which need to be presented to and discussed by stakeholders from academia, regulatory authorities, industry and consultancy. In parallel other and potentially conflicting guidance documents on modeling procedures or scenarios development are prepared by individual or regional groups member states in the European Zones. This highlights the conflict between the need for harmonization as well as allowing the regional/local environmental specifics to be take into account. It is the intention of this session to bring together the latest developments on EU as well as on zonal and member state level for different use classes of chemicals. As the scope of this session covers various chemical use classes, it is intended to focus the contributions in subsections, which are specific enough to attract the specialists but are linked and associated to foster the exchange between different scientific and regulatory communities. New model developments shall be presented considering the spatial and temporal variability of the exposure and fate of pesticides, biocides, pharmaceuticals; veterinary medicines and "other chemicals" in different environmental compartments. Modelling results shall be compared to monitoring data in order to allow an evaluation of their conceptual basis. The regulatory use of fate models and scenarios for general chemicals, pesticides, biocides, veterinary medicines and pharmaceuticals shall be discussed in the light of targeted experiments as well as survey monitoring results. The suitability of generic regulatory exposure scenarios and the development of tailor made scenarios shall be discussed alongside with rules for their evaluation in a regulatory framework.

SESSION TYPE: Platform, Poster Spotlight and Poster