

Public Lecture Evaluation

Masaryk University	
Faculty	Faculty of Science
Procedure field	Environmental Chemistry
Applicant	Martin Scheringer
Lecture date	17.1.2018
Lecture topic	Long-range transport of organic chemicals in the environment
Persons present (number)	53 (see attached list of attendees)
Designated evaluators (board members)	Jana Klánová, Prof. RNDr., Ph.D. Josef Čáslavský, Prof. Ing., CSc. Gilberto Fillmann, Prof., Ph.D.

As a part of his Professor Appointment Procedure, Martin Scheringer gave a public lecture with a title “Long-range transport of organic chemicals in the environment” on Jan. 17th, 2018.

In the introductory part of his carefully prepared lecture, Martin Scheringer provided a wider context of the environmental contamination including relevant policies, such as the Stockholm Convention on Persistent Organic Pollutants. He introduced the long-range transport of pollutants as an important indicator of environmental hazard and provided many examples of the global distribution of chemicals and their environmental impacts based on the scientific literature.

In the main body of his lecture, Martin Scheringer focused on the mechanistic insights. He presented the drivers of long-range transport and explained how it is affected by persistence of chemicals. He also stressed out an importance of environmental modelling as an integrative tool for systematic analysis of chemical property data and field data. He demonstrated to the audience that models make it possible to mechanistically analyze the drivers of the environmental long-range transport of chemicals, to identify the most important uncertainties and data gaps, and provide essential input to decision-making. He gave examples of such models developed in his research group (endosulfan case) and showed how they were applied in the environmental practice to support environmental policy (Stockholm Convention). In conclusion, he explained implications of the long-range transport of pollutants around the globe for the environmental justice as it demonstrates the extent to which remote regions may be exposed to chemicals without benefiting from their manufacture and use.

In the final part of his presentation, Martin Scheringer provided an overview of his research contribution to the development and application of the environmental fate and transport models, his teaching and supervising activities. He provided an impressive list of practical tools and results used by UNEP or OECD, for instance.

In the following discussion, Martin Scheringer convincingly answered many questions from the audience including the committee members. The listeners asked about the mechanistic aspects of his modelling work, technical parameters of the models, behaviour of model chemicals, social and legal impacts of chemical pollution as well as impacts of the research in this field. Martin Scheringer managed to explain details of his work at the background of current environmental and societal problems, demonstrated his broad understanding of this research field and his great presentation and teaching abilities. He convinced the evaluators about the high quality of his research and education activities.

Conclusion

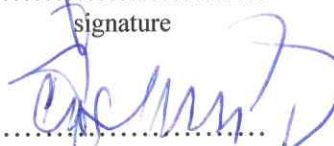
The lecture delivered by Martin Scheringer entitled “Long-range transport of organic chemicals in the environment” and delivered as part of the professor appointment procedure, **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a professor appointment procedure in the field of Environmental Chemistry.

In Brno on 17.1.2018

Jana Klánová


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Josef Čáslavský


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Gilberto Fillmann


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