

RECETOX WORKSHOP

Identifying the research needs in the global assessment of toxic compounds ten years after the signature of the Stockholm Convention.

Brno, Czech Republic, 22.-24.5. 2011

SUNDAY, May 22nd, 2011

Opening talks

- (9:00-9:20): **Katarina Magulova**: Welcome from the Secretariat of the Stockholm Convention: Major achievements in 10 years - challenges for the future
- (9:20-9:40): **Ivan Holoubek**: Welcome from the RECETOX centre: Scientific challenges connected to the Stockholm Convention
- (9:40-10:00): **Kateřina Šebková**: Implementation of the Stockholm Convention on POPs in the European Union and related challenges for the decision makers

A) Identification of new POPs, evaluation of their properties, mechanisms of toxicity, and associated risks

- (10:00-10:40): **Miriam Diamond**: Stockholm Convention in the context of preventative engineering, alternatives assessment, and sustainability re: POPs.

Rap.: Henk Bowman, Kateřina Šebková

- (10:40-11:00): **Coffee break**

A1) POPs regulation, lessons learned and challenges ahead

Chair: Ivan Holoubek

- (11:00-11:20): **Roland Weber**: POPs/PTS in landfills & contaminated Sites - relevance and mobilisation risk by climate change
- (11:20-11:40): **Silvia Mosca, E. Guerriero, M. Rotatori**: Microorganic pollutants: action needed to simplify their analysis
- (11:40-12:00): **Catia Balducci, A. Cecinato**: The ever renewing research on POPs and environmental toxicants

A2) Process of identification and evaluation of new chemicals, necessary requirements

Chair: Matthew MacLeod

- (12:00-12:20): **Katarina Magulova**: Process of identification and evaluation of new chemicals under the Stockholm Convention - Implementation challenges of newly listed POPs
- (12:20-12:40): **Roland Weber**: PBDEs as “new POPs” – challenges and knowledge gaps of controlling PBDEs under the Stockholm Convention
- (12:40-14:00): **Lunch break**

(14:00-14:30): **Martin Scheringer**: The identification of PBT/POPs chemicals in the list of 100,000 chemicals on the market. Options for finding better degradation half-life data

A3) Combining toxicological assessment of new chemicals with human exposure and process studies

Chair: Rainer Malisch

Rap.: Philippe Garrigues, Jana Hajšlová

(14:30-15:00): **Martin Van den Berg**: Mixture toxicity for POPs: How far should we go? Considerations from mechanisms of action and for risk assessment.

(15:00-15:20): **Jana Hajšlová**: PFOS and other perfluorinated compounds: occurrence human food chain

(15:20-15:40): **Marco Vighi**: Risk for the POP mixtures in the Arctic food chain

(15:40-16:00): **Rainer Malish**: Conclusions from analyses of human milk samples for the global assessment of POPs

(16:00-16:20): **Matt McLeod**: Interpreting biomonitoring data for POPs to back-calculate intrinsic elimination half-lives and exposure trends

(16:20-16:40): **Coffee break**

(16:40-17:10): **Heidi Fiedler**: First results from Stockholm Implementation Activities

(17:10-18:30): **Moderated discussion**

Identifying the research needs in the area of toxic compounds in the environment and assessment of their risks. Potentials for the future research.

(19:00): **Common dinner**

MONDAY, May 23rd, 2011

B) Effectiveness evaluation of the Convention measures, application of the experimental and modelling tools to study distribution, temporal trends, transformation, and long range transport of POPs

(8:30-9:10): **Frank Wania**: POP concentration declines - Insights from modeling and measurements.

B1) Air concentrations, temporal trends and transport, harmonizing existing networks toward global coverage, integrated studies of fate and transport

Chair: Staci Simonich

Rap.: Euripides Stephanou, Jana Klánová

(9:10-9:40): **Euripides Stephanou**: Occurrence of legacy and emerging POPs and processes affecting their presence in the background and urban atmosphere of Eastern Mediterranean

(9:40-10:00): **Tom Harner/Terry Bidleman**: Experiences and insights from the GAPS Network

(10:00-10:20): **Staci Simonich:** A New Look at Old POPs: PAHs in China and the U.S.

(10:20-10:40): **Coffee break**

B2) Water concentrations, temporal trends and transport. Design of the global study, approaches and techniques

Chair: Kees Booij

Rap.: Rainer Lohmann, Brano Vrana

(10:40-11:10): **Irene Stemmler:** Spatiotemporal variation of the exposure of the ocean towards DDT and PCBs

(11:10-11:30): **Terry Bidleman:** Air-water exchange of legacy and current-use pesticides in the Canadian archipelago

(11:30-11:50): **Henk Bouwman:** POPs in waters from South Africa

(11:50-12:10): **Rainer Lohmann:** Using passive samplers to detect concentrations, gradients and trends of legacy and emerging POPs in the water

(12:10-12:30): **Kees Booij:** Passive POP sampling in the ocean. Achievements and caveats

(12:30-14:00): **Lunch break**

(14:00-14:20): **Branislav Vrana:** Monitoring of persistent organic pollutants in European surface waters: current situation and perspectives

(14:20-14:40): **Foppe Smedes:** Monitoring of POPs in the aqueous environment using simple silicone rubber passive samplers

B3) Integrated multicompartamental studies

Chair: Philippe Garrigues

Rap.: Kevin Jones, Luděk Bláha

(14:40-15:10): **Kevin Jones:** Is the Stockholm Convention working? Observations from temporal and spatial trend studies

(15:10-15:30): **Coffee break**

(15:30-15:50): **Peter Weiss:** Some findings from POPs monitoring activities in the European Alps

(15:50-16:10): **Philippe Garrigues:** Chlordecone in the French West Indies: an overview of research activities dealing with soil and aquatic ecosystems

(16:10-16:30): **Luděk Bláha:** Risk assessment of sediments in the Czech Republic: POPs levels and toxicity profiling in large rivers and small streams

(16:30-18:30): **Moderated discussion**
Global assessment of POPs: monitoring and modeling tools, distribution, transport, trends, global change – what is needed?

(19:00): **Evening program**
Joint dinner, traditional music and dance performance

TUESDAY, May 24th, 2011

C) Data management, databases, models and expert systems for interpretation and visualization of data

(8:30-9:10): Ladislav Dušek: How to facilitate accessibility of environmental and population data for interdisciplinary human risk assessment studies? – let's go back to basic principles

C1) Data availability and comparability, global databases

Chair: Gerlinde Knetsch

Rap.: Marta Venier, Pavel Čupr

(9:10-9:40): Hayley Hung/Terry Bidleman: Data availability and comparability of long-term air monitoring of organic pollutants under AMAP and IADN

(9:40-10:00): Jana Klánová: Long-term air monitoring and assessment of trends in central Europe

(10:00-10:20): Marta Venier: Determining the temporal trends of POPs in the atmosphere around the Great Lakes: different approaches

(10:20-10:40): Gerlinde Knetsch: The German POP-dioxin-database - an integrated approach for management and evaluation of POP data

(10:40-11:00): **Coffee break**

C2) Going beyond the data storage, human exposure, risk assessment, models and expert systems

Chair: Knut Breivik

Rap.: Andy Sweetman, Gerhard Lammel

(11:00-11:30): Alberto Pistocchi: Chemical fate and transport modelling over large regions and the tale of Horatii and Curiatii

(11:30-11:50): Sabine Eckhardt: Investigating source regions of POPs with Lagrangian models

(11:50-12:10): Knut Breivik: Global emissions of POPs / Monitoring of POPs under EMEP

(12:10-12:30): Andy Sweetman: The importance of combining measurements and modelling to identify and track diffuse sources of PFOS

(12:30-12:50): Gerhard Lammel: Long-range transport potential of polycyclic aromatic hydrocarbons – conclusions from observations at remote sites in Europe, Africa and Antarctica and modelling

(12:50-14:00) **Lunch break**

D) (14:00-16:00) Panel discussion

Chair: Kevin Jones, Nicola Pirrone

Rap.: All from the previous sessions

- Are the international conventions working?
- What was achieved in the last decade and what is needed?
- Where are the gaps and challenges?
- The ways forward in the research (FP8 projects), monitoring (integrated networks), data mining (shared databases),

- enhancement of cooperation between the groups,
- identifying the overlaps and complementarities,
- exploring potential for the joint projects and research consortia

E) Summary of the workshop outcomes as collected by rapporteurs in the session discussions and panel discussion (to be delivered to the EC (DG Environment and DG Research), Convention Secretariats (Stockholm, Basil, Rotterdam, CLRTAP, POPRC, UNEP, GEF, experts)

Editor: Kevin Jones, Nicola Pirrone, Jana Klánová

F) Outlines of the special issue of ESPR with the original contributions if desired

Editor: Gerhard Lammel, Rainer Lohmann