



Workshop on Passive Sampling techniques for monitoring of contaminants in the aquatic environment

Achievements to date and future perspectives

27-28 November 2014, Lyon, France

Organised joint by

NORMAN Network and AQUAREF

Hosted by IRSTEA, France

Background

Since 2009 NORMAN promotes activities in the field of passive sampling, aimed at improving the performance and applicability of these devices in water quality monitoring.

The first NORMAN Expert Group meeting on passive sampling of emerging pollutants was organised in 2009 as a satellite workshop of the 3rd International Passive Sampling Workshop and Symposium (IPSW) in Prague. Experts expressed the need for an interlaboratory study (ILS) for a practical evaluation of the performance of passive sampling methods, with a focus on emerging substances. The ILS took place in 2011, in collaboration with the European Commission (DG JRC, Ispra). Several groups of emerging contaminants and some priority substances of the Water Framework Directive (WFD) were addressed and a dissemination workshop took place in Ispra in October 2012.

Two further initiatives were promoted in 2013.

- A NORMAN Expert Group meeting: “Linking Environmental Quality Standards and Passive Sampling” was organised in July 2013 in Brno (CZ). Invited experts in ecotoxicology and in passive sampling discussed the possible routes for the implementation of passive sampling in regulatory monitoring for checking of compliance with environmental quality standards for WFD priority and river basin specific substances.
- In collaboration with the International Commission for the Protection of the Danube River (ICPDR) a study was launched to develop and test within the framework of the Joint Danube Survey in 2013 a methodology for continuous screening of large rivers using passive sampling to assess the applicability of a temporally- and spatially-integrative sampling approach as a water quality monitoring tool.

Objectives of the workshop

The workshop brings together experts who have been involved in activities in the field of passive sampling carried out by the NORMAN network and beyond. They will discuss the state-of-the-art and define the strategy and a roadmap of the further actions to be promoted by NORMAN for 2015 and beyond. The main aim is to have a critical analysis of the still existing barriers in the application of passive sampling techniques and to define the concrete actions needed in view of implementation of these tools in environmental monitoring programmes. The outcomes of the discussion will be presented at the NORMAN General Assembly meeting (9-10 Dec 2014, Amsterdam).

The first day of the meeting will be focused on discussion with the scientific experts on technical issues on the features and performance of passive sampling techniques. The second day will be open to participation of stakeholders and the applicability of passive samplers in regulatory monitoring programmes in the aquatic environment (WFD, MSF, OSPAR Convention, etc.) will be discussed.



Programme

27th November (start at 14h00) (restricted to invited scientists)

14h00-16h00 ***What passive samplers for hydrophobic compounds? (SPMD vs. silicone, tools for marine vs. freshwaters)***

Chair: Céline Tixier, IFREMER, France

Speaker: Ian Allan, NIVA, Norway

Discussion

16h00 – 16h30 Coffee break

1-h30 – 18h30 ***Can we expect to obtain quantitative TWA concentrations with POCIS? (today, no quantitative data without correction for differences between in laboratory and in situ sampling rates)***

Chair: Anne Togola, BRGM, France

Speaker: Nicolas Mazzella, IRSTEA, France

Discussion

28th November (end at 15h30) (open to stakeholders)

09h00-11h00 ***Applicability of passive sampling in a tiered approach for trend monitoring and compliance checking of hydrophobic compounds and mercury***

Chair: Etienne Vermeirssen, Oekotoxzentrum Eawag-EPFL, Switzerland

Speaker: Foppe Smedes, Deltares, The Netherlands

Discussion

11h00 – 13h00 ***The use of PS in a routine way for large monitoring programs, for organics and metals***

Chair: Hélène Budzinski, University of Bordeaux, France

Speakers: Jan Brant, CEFAS and Jean-Louis Gonzalez, IFREMER, France

Discussion

13h00 – 14h30 Lunch

14h30 – 15h30 ***Summary of the conclusions of day 1 for stakeholders***

Chair: Cathérine Berho, BRGM

Speaker: Céline Tixier, IFREMER, France

Discussion

Organising committee

Cécile Miège, Nicolas Mazzella, Marina Coquery (IRSTEA, France),

Branislav Vrana (RECETOX, CZ),

Céline Tixier (IFREMER, F),

Valeria Dulio (NORMAN Executive Secretary / INERIS, France)

Meeting venue

5 rue de la Doua, CS70077, 69626 Villeurbanne Cedex, France

How to get to IRSTEA : <http://www.irstea.fr/en/practical-informations>

