Customer Newsletter AquaLife 2008 – 1 Toximeters

AquaLife 2008

... was once again a successful exchange of results, ideas and discussions in the fields of chlorophyll analysis and toxicity monitoring. Below we present an overview of some of the interesting presentations on toxicity monitoring at this year's event.

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1. Premsyl Soldan, Water Research Institute of T.G.M., Czech Republic.
   Experience with the Daphnia Toximeter in the Czech Republic.
   In his presentation on experience of river spills in the River Elbe and the use of continuous monitoring in the Czech Republic Premsyl Soldan reported on several alarm situations registered by a **Daphnia Toximeter** in a measuring station at Bohumin through the year. After a fire at the BorsodChem-MCHZ chemicals plant the Daphnia Toximeter detected a release of benzene into the water supply due to the impact of the fire fighting and rain drainage.

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2. Corina de Hoogh, KIWA & Arco Wagenvoort, AqWa, consultant in ecology.
   Alarm Evaluation of the bbe Algae Toximeter in The Netherlands.
   Corina de Hoogh presented results of monitoring events in the River Meuse in Holland in 2006 using an **Algae Toximeter**. Considerable amounts of diuron (up to 1µg/l) were monitored throughout May and June 2006 and an alarm situation was triggered in September when algae inhibition registered 16% due to 1.6 µg/l of terbutryn in the River Meuse.

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3. Arco Wagenvoort, AqWa, consultant in ecology & Corina de Hoogh, KIWA, NL.
   *Alarm Evaluation of the bbe **Daphnia Toximeter** in The Netherlands.*
   Results of quality control evaluations using size-based data to explain the action on the daphnia of chemicals found in the River Meuse at Eijsden in 2007 were presented by Arco Wagenvoort, as well as experience of monitoring in Southern Holland.
   In August 2007, a spill of chlorpyrifos and cypermethrin coming from Belgium was detected at Eijsden which resulted in a mass fish kill. Alarm events were monitored and evaluated from the end of July to the middle of August.

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4. Georg Staaks & Daniela Baganz, IGB, Germany
   ToxProtect 64 Drinking Water Protection System. New Results
   Georg reported on new results of experiments using the ***Tox*Protect 64** fish toximeter, showing the temperature ranges and volumes of compounds affecting different fish and trials with different dechlorination substances over different periods of time, e.g.18 days and 53 days.

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5. Detlev Lohse, bbe, Germany.
   ***ToxProtect 64 vs Fish Toximeter** – A comparison*
   Detlev gave a general introduction to the fish test in Germany and explained its use in water quality surveillance. He then presented a comparison of the two bbe fish toximeters with regard to their technicalities and applications.