



microLAN
On-line Biomonitoring Systems

Specialist Workshop

Toxicity measurements in concentrated water samples

Location: Monitoring Station Keizersveer
Hank, the Netherlands

Date: 14 / 10 / 2010

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IBAN NL90 RABO 03342.30.365
VAT NL8097.61.622.B.01

Topic:

The workshop will give an introduction of the new SPE-TOX application and specialised experts will discuss their experiences and their view on concentration techniques in combination with on-line toxicity monitoring.

Introduction:

The Dutch National Institute for Public Health and the Environment, together with the Centre of Water Management (formerly called Institute for Inland Water Management and Waste Water Treatment), developed a method to measure the effects of toxic substances in concentrated water samples. This method can be used to find out if, when ecological targets following from the European Water Framework Directive are not met, this is caused by toxic substances. The method can also be used to identify *sources* of toxic substances. Traditionally, mainly chemical techniques are applied for these purposes, but the disadvantage is that they do not cover the large amounts of chemicals potentially present in surface waters. If a response is found, the substances causing this can be identified (if desired). The method enables to investigate the *combined* effects of substances (synergistic or antagonistic).

Program:

- **Emerging substances under de European Water Frame Directives;**
Anja Derksen, AdEco Advies
- **Toxicity measurements in concentrated water Samples: Evaluation and Validation**
Wilko Verweij, RIVM (The National Institute for Public Health and the Environment)
- **10 year of results of Biomonitoring of Toxic Substances in Dutch Inland waters**
Esther van de Grinten, RIVM (The National Institute for Public Health and the Environment)
- **Introduction to the on-line SPE-TOX application**
Joep Appels, microLAN BV
- **SPE-TOX data of the river Meuse and other samples**
Dr. Cees Broers, microLAN BV
- **Validation of a water drinkingwater quality monitoring platform in Barcelona:**
Ramon Lopez, CETaqua
- **Test and validation for implementation of on-line SPE-biomonitoring:**
Eric Penders HWL / Bram van der Gaag KWR
- **Use of Effect-directed Analysis with *Vibrio fischeri* after HPTLC/AMD-Separation**
Stefan Weiss, Waterworks Langenau, Germany

More specific information about the workshop will be available in August 2010, registration can be done by mail by sending the registration form to info@microlan.nl and is free of charge.



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Registration form

Location: Monitoring Station Keizersveer
Hank, the Netherlands
Date: 14 / 10 / 2010

Name: _____

Organisation: _____

Address: _____

City and postcode: _____

Country: _____

Telephone no.: _____

Mail address: _____

We need a hotel reservation in Waalwijk (close to Hank): YES / NO
Indication of the price range: 80-100€ / 100 – 130€
Which dates do you need the room: 13/14th – 14/15th – 15/16th
I need transportation: From Mulheim to Waalwijk
From Waalwijk to Schiphol
Other: _____

Remarks: _____
