vito
vision on technology

Symposium

In-situ Environmental Monitoring and Policy

The Application of Sensors and Passive Samplers

26 – 27 May 2011 – Auditorium Oehoe (E1.002) Gent Belgium

2nd announcement

Eijkelkamp Agrisearch Equipment
www.eijkelkamp.com

ELSCOLAB WATER QUALITY & WATER QUANTITY
www.elscolab.com

imw Innovative Messtechnik Dr. Weiss
General Agency of Solinst, Canada Ltd.
www.im-weiss.de

microLAN On-line Biomonitoring Systems
www.microlan.nl

PROHYDRO, INC.
DEVELOPER OF THE SNAP SAMPLER™
www.prohydroinc.com

UNIVERSITEIT GENT
FACULTY OF BIOSCIENCE ENGINEERING

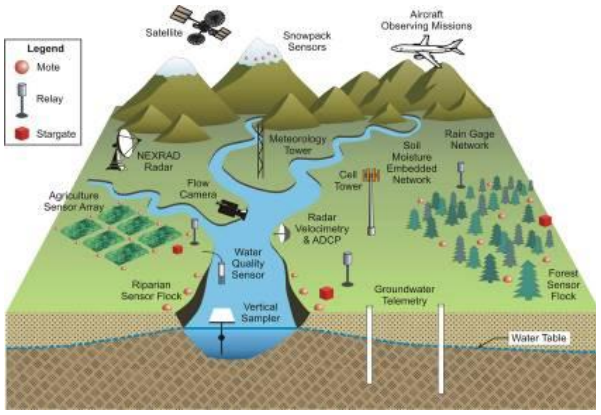
Aim

The quality of soil and water resources is a major concern for the coming decades. According to the EU Thematic Strategy on Soil Protection and the EU Water framework Directive, the soil, and surface and groundwater quality needs to be improved.

To this purpose, reliable measurement of soil, surface water and groundwater characteristics, and pollutant fluxes are of major importance. In-situ quality sensors, sensor networks, mobile platforms and passive sampling methodologies are emerging technologies for *in situ* environmental monitoring and quantifying pollutant mass fluxes in water systems.

During the symposium "In-situ Environmental Monitoring and Policy (IEMP)", sessions with invited oral presentations, a poster session and a commercial exhibition will be organized. Recent developments in soil and water quality sensing, ICT and mass flux measurements will be highlighted. Furthermore, the possibility to apply the above mentioned measurement techniques in the framework of water and soil policy making (i.e. Water Framework Directive and the Flemish Decree on Soil Remediation and Soil Protection) will be discussed.

This symposium is relevant for scientists, policy makers, consultants, site owners, land and water managers and remediation companies who are concerned about natural water resources. The purpose of the symposium is to provide researchers, practitioners and policy makers opportunities to exchange information and new experiences.



(Waters network: www.watersnet.org/about.html)

General information

DATE
26 - 27 May 2011

LANGUAGE
The official language of the symposium is English.

VENUE
Auditorium Oehoe (E1.002)
Faculty of Bioscience Engineering
Coupure Links 653, BE-9000 Gent, Belgium

REGISTRATION
Online via www.vito.be/english/events

FEE
- Symposium*: 300 EUR, incl. 21% VAT
- Commercial exhibition*: 600 EUR, incl. 21% VAT
(* price per person: registration; coffeebreaks, 2 lunches, reception and documentation is included)
- Conference diner: 60 EUR, incl. 21% VAT

PAYMENT
- Payment and registration is due before 12 May 2011
- To bank account of VITO NV
  . IBAN-code BE28 4354 5281 9120
  . BIC-code KREDBEBB
  . with mentioning **"Symposium IEMP – 26-27/05/11".**

A written cancellation (50 EUR administration costs) is possible until 1 week before the symposium. No refund will be given after this date. Replacement by a colleague is possible.

ORGANISING COMMITTEE

Dr. Jan Bronders (VITO)	Prof. Dr. ir. Piet Seuntjens
Dr. Ilse Van Keer (VITO)	(VITO / UGent / UAntwerp)
Ing. Wesley Boënne (VITO)	Prof. Dr. ir. W. Cornelis (UGent)
	Ir. Jo Bonroy (UGent)

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Programme 26 May

TERRESTRIAL SENSORS, PASSIVE SAMPLING AND MASS FLUX MEASUREMENTS

CHAIR: JAN BRONDERS

11:30 *Registration*

12:00 *Lunch*

13:00 **Welcome**
Dijkmans Roger - VITO

13:10 **Terrestrial Environmental Observatories: a new Research Tool?**
Vereecken Harry – Forschungszentrum Jülich

13:50 **Proximal Sensing for Soil Inventory and Monitoring**
Van De Vijver Ellen – UGent

14:15 **Pro-active Control of Soil Remediation using an in situ Sensor for VOCs, CO_2 and O_2 in Soils**
Bonroy Jo – UGent

14:40 *Coffeebreak*

CHAIR: WIM CORNELIS

15:10 **Passive Flux Meter Applications and Mass Balance**
Annable Michael – U Florida

15:50 **Mass Flux Measurements in Relation to Risk Management**
Verreydt Goedele – VITO

16:15 **Mass Fluxes of Xenobiotics below Cities: Challenges in Urban Hydrogeology**
Schirmer Mario - EAWAG

16:40 **Application of Environmental Monitoring Techniques in Relation to the Decree on Soil Remediation and Soil protection**
Ceenaeme Johan – OVAM

17:05 **Closing Remarks**
Bronders Jan - VITO

17:15 **Reception – Poster Session – Commercial Exhibition**

19:30 *Symposium Dinner*

Programme 27 May

SURFACE WATER SENSORS AND MASS FLUX MEASUREMENTS

CHAIR: PIET SEUNTJENS

9:00 **Surface Water and Water Quality Sensing**
Meire Patrick – UAntwerp

9:40 **Surface Water and Water Quantity**
Mostaert Frank - WBL

10:05 **Sensor Platforms for Surface Water Quality**
Nele Desmet – VITO

10:30 **Passive Sampling of Dissolved Elements in Surface Water**
Tirez Kristof - VITO

10:55 *Coffeebreak*

CHAIR: MARIO SCHIRMER

11:25 **Biomonitoring**
Broers Cees – MicroLan

11:50 **Aquifer/Well Flow Dynamics: Parameters Key to Active and Passive Sampling**
Britt Sandy – ProHydro Inc.

12:15 **Hydrological Observatories**
Hoffmann Lucien – CRP Gabriel Lippmann

12:55 **Closing Remarks**
Seuntjens Piet – VITO / UGent / UAntwerp

13:05 *Lunch*

POSTER SESSION & COMMERCIAL EXHIBITION

- Throughout the symposium posters and commercial exhibitions are foreseen in the area next to the lecture room.
- Scientists, engineers, business professionals and regulatory personnel involved in sensor networks and/or mass flux measurements are invited to submit abstracts for a poster presentation.
- Poster abstracts can be submitted on-line at our website wwwb.vito.be/vitoevenement/inschrijving/IEMP2011_paper.aspx?lang=EN
  . Abstracts due: 31 March 2011 (extended)
  . Notification of acceptance: 15 April 2011
  . Instructions for the author: see Link mentioned above
- Commercial exhibition: Elscolab, Eijkelkamp, Microlan BV, Innovative Messtechnik Dr. Weiss, ProHydro Inc.

Publication in ESPR

- Speakers and presenters of posters are invited to submit full papers with respect to publication in "**Environmental Science and Pollution Research**" (IF: 2,48)
- Papers
  . Submitted to ilse.vankeer@vito.be (as a doc, docx or pdf file)
  . Deadline: 01/07/2011
  . Notification of selection for submission to ESPR: 01/09/2011
  . Reviewing process is done by ESPR
- Instructions for the author: www.springer.com/environment/journal/11356)

Itinary

BY TRAIN:

1. Take the train to Gent St.-Pieters.
2. Take tram 4.
3. Get off at the stop "Rozemarijnbrug". Cross the street and follow Coupure Links (along the canal). The entrance of the faculty is at the first crossroad, accross the pedestrian bridge over the canal.

BY CAR

4. On the E17 or (E40: Brussel/Oostende or E17 Antwerpen / Kortrijk), take exit "Gent centrum".
5. At the crossroad before the bridge take "alle richtingen" (not "Gent centrum").
6. Under the bridge you hold the left and follow "Zelzate", "Eeklo".
7. Keep following this direction (St. Lievenslaan, Citadellaan, Ch. De Kerckhovelaan, Ijzerlaan, Godshuizenlaan, Martelaarslaan), at the 7th traffic light you will see a church in front of you.
8. Take the small road right before the church ("Ekkergemstraat") and follow till you reach Coupure (canal).
9. On your left you will find the entrance of the faculty.