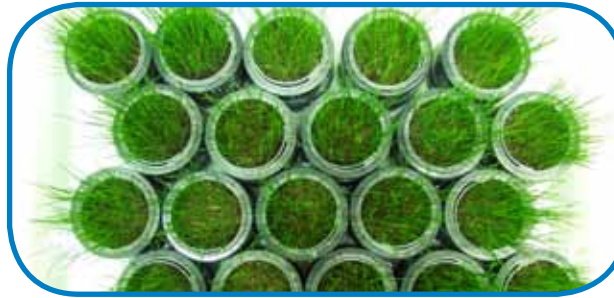


Workshop on Mixture toxicity

September 22-24, 2010



Objectives

Contaminants never occur in isolation, yet legislation is still largely based on effects of single compounds. In addition, more and more data are becoming available that suggest that compounds can exert effects in organisms when present in mixtures in concentration ranges at which the single contaminants do not induce effects.

The examination of combined exposures, which corresponds much more realistically to exposure conditions in the environment than the analysis of single substances, entails major methodological difficulties in the experimentation and evaluation procedure.

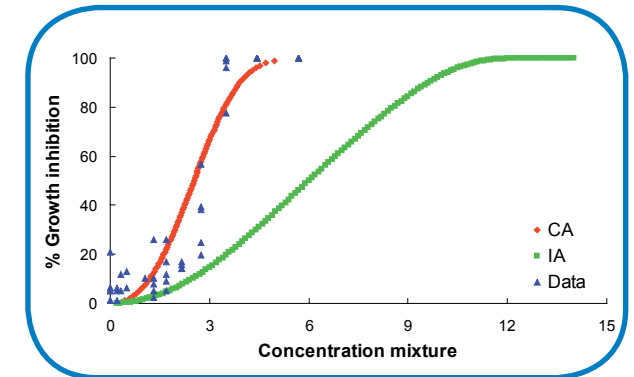
This workshop intends to introduce you to some of the approaches and methodologies used in studying and predicting mixture toxicity effects. The workshop will be a mixture of lectures, exercises and open discussions.

More information

www.sckcen.be/en/Events/MIXTOX

Target audience

This workshop intends to attract PhD students and scientific researchers. As the general concepts discussed in this workshop apply to different fields of research, participants of all fields of (eco) toxicology are welcome.



Organisation

This workshop is organized by the unit Biosphere Impact Studies (BIS) from the Belgian Nuclear Research Centre (SCK•CEN).

It is organized in the framework of the IUR-IAEA Practical Arrangements for the exchange and dissemination of information within the EMRAS II project, Working Group 6 on Biota dose effects modelling - Multiple Stressors.



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Venue

SCK•CEN, Mol, Belgium

Belgian Nuclear Research Centre, SCK•CEN
Club-House, Boeretang 201, 2400 Mol, Belgium

Registration

Registration fee before September 10th 2010 will be 250 euro (150 euro for students).

The registration fee is only to be paid by bank transfer or by VISA and includes welcome bag, course material, lunch, coffee breaks, welcoming reception on Wednesday and walking dinner on Thursday. More information can be found on the website.

Lecturers

Experts with international recognition within the field of mixture toxicity and biostatics have been invited.

- Thomas Backhaus, University of Göteborg, Sweden
- Claus Svendsen, Centre for Hydrology and Ecology, UK
- Tjalling Jager, Free University of Amsterdam, Netherlands
- Stefan Van Dongen, University of Antwerp, Belgium

Language

The workshop will be held in English.

Not to forget!

To be able to participate in the calculus sessions you will need a laptop with Excel installed. The statistical methods will be shown using the statistical program "R" which is as freeware available on the internet. If you can't bring a laptop, please inform us on your registration form.

Programme

Wednesday September 22, 2010

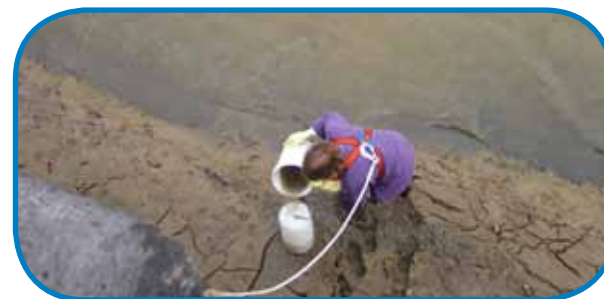
- 08:30** Opening and registration
09:00 Introduction
Frank Hardeman, SCK•CEN, Belgian Nuclear Research Centre, Belgium
- 09:30** Mixture toxicity concepts and Risk assessment
Thomas Backhaus, University of Göteborg, Sweden
- 11:00** **Break**
- 11:15** Mixture toxicity concepts and Risk assessment
Thomas Backhaus
- 13:00** **Lunch**
- 14:00** Mixture toxicity concepts and Risk assessment
Thomas Backhaus
- 15:00** **Break**
- 15:15** Calculus session
Nele Horemans and Nathalie Vanhoudt, Biosphere Impact Studies, SCK•CEN, Belgium
- 18:30** Welcome reception

Thursday September 23, 2010

- 09:00** Deviations from Concentration Addition and Independent Action
Claus Svendsen, Centre for Hydrology and Ecology, UK
- 11:00** **Break**
- 11:15** Deviations from Concentration Addition and Independent Action
Claus Svendsen
- 13:00** **Lunch**
- 14:00** Biology-based approaches for mixture ecotoxicology
Tjalling Jager, Free University of Amsterdam, Netherlands
- 16:00** **Break**
- 16:15** Biology-based approaches for mixture ecotoxicology
Tjalling Jager
- 18:00** Round-up and open discussion on day 1-2
- 18:30** Walking dinner

Friday September 24, 2010

- 09:00** Linear and generalized linear models in R
Stefan Van Dongen, University of Antwerp, Belgium
- 11:00** **Break**
- 11:15** Linear and generalized linear models in R
Stefan Van Dongen
- 13:00** **Lunch**
- 14:00** Round up on day 3 and closing remarks



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www.sckcen.be/en/Events/MIXTOX

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