PART I - Short Courses

Three concurrent sessions are previewed: Courses II and III are expected to be paid by participants who booked and are not members of CSTS, SETAC or NEF. The cost is 15 000F CFA or 35 US dollars. This amount is to cover your coffee and lunch breaks as well as course materials for 2 days.

Monday, May 30th 2011

Registration of participants

Time: 8.00 a.m – 16.00 p.m

Venue: Secretariat (Visiting Professors' Room, Faculty of Health Sciences)

GENERAL TOXICOLOGY

Tuesday, May 31st 2011

SHORT COURSE I: Day 1

Venue: *Cultural Village I*

Outline:

08.00 – 08.45	Concepts and Terminologies – *Prof. Nabil Bashir (Sudan)*
08.45 – 09.30	Toxic agents – *Prof. Nabil Bashir (Sudan)*
09.30	Break
9.45 – 10.15	Routes of exposure – *Dr. Asongalem E.A. (Cameroon)*
10.15 – 11.00	Toxicokinetics – *Prof. Nabil Bashir (Sudan)*
11.00 – 12.00	Dose – response relationships and toxicity ratings– *Dr. Asongalem E.A. (Cameroon)*
12.00 - 13.00	Lunch
13.00 – 13.45	Hepatotoxicology (Dr. Assob NJC, Cameroon)
13.15 – 14.30	Ecotoxicology and it's application in water quality and pollution (Dr Silke Bollmohr)
14.30	Break
14.45 – 15.30	Toxicology of social 'poisons' (Dr. Nde Peter Fon, Cameroon)
15.30 – 16.15	Toxicology of pesticides (Dr. Patricia Fai, Cameroon)
16.15 p.m	Break
16.30 – 17.15 p.m	Toxicology of Heavy metals (Prof. Orish Ebere Orisakwe, Nigeria)
17.15 – 18.00 p.m	Reproductive toxicology (Dr. Asongalem EA, Cameroon)
18.00	Evaluation (perception of the course) – *Dr. Asongalem E.A. (Cameroon)*

PREDICTIVE TOXICOLOGY

Tuesday, May 31st 2011

SHORT COURSE II: DAY 1

Venue: *Cultural Village II*

Time: 08.00 a.m-17.00 p.m

Outline:

Morning Session – 8.00-12.00 a.m	**Hands-on Application of Computer-based Approaches in Predictive Toxicology – *Dr Barry Hardy (OpenTox Project Coordinator, Switzerland) and Dr Philip Judson (Lhasa Lt UK)***
	The OpenTox Framework
	Using Internet-based Toxicology Resources
	Searching and integrating existing toxicology data
	Building a Validated Predictive Toxicology (Q)SAR Model
Afternoon Session - 14.00 – 17p.m	**Hands-on Application of Computer-based Approaches in Predictive Toxicology – *Dr Barry Hardy (OpenTox Project Coordinator, Switzerland) and Dr Philip Judson (Lhasa Lt UK)***
	Chemical Categories and Read Across in Risk Assessment
	Evaluating the impact of Chemical Modifications on Toxicities
	Predicting Metabolites
	Mechanism-based use of in vitro assay data
	Creating and Executing Predictive Toxicology Workflows
17.00 – 17.30 p.m	Evaluation (perception of the course) *Dr. Asongalem E.A. (Cameroon)*

RISK ASSESSMENT TRAINING AND EXPERIENCE (RATE): *PRINCIPLES AND UNDERSTANDING OF RISK ASSESSMENT*

Tuesday, May 31st 2011

SHORT COURSE III: DAY 1

Venue: *Cultural Village III*

Time: 8.00 – 12.00 noon

Instructors: Allen Davis, Eva McLanahan, John Stanek; under the leadership of Becki Clark

National Center for Environmental Assessment, Office of Research and Development, United States Environmental Protection Agency

Time	**Topic**
08.00 a.m	Overview of course and introductions
08.30 a.m	Introduction to Risk Assessment and the U.S. Environmental Protection Agency

09.30 a.m	**Break**
09.45 a.m	Overview of Human Health Risk Assessment
12.00 noon	**Lunch**
13.00 p.m	Noncancer and Cancer Dose-Response Assessments
14.30 p.m	**Break**
14.45 p.m	Noncancer and Cancer Dose-Response Assessments
16.00 p.m	Day 1 wrap-up and review
16.30 p.m	End of Day 1

SPECIALTIES IN TOXICOLOGY

Wednesday, June 1st 2011

SHORT COURSE I: Day 2

Venue: *Cultural Village I*

Outline:

Morning Session – 8.00-12.00 noon	
8.00 – 10.00	Clinical toxicology – *Dr. Mbuagbaw J (Cameroon)*
10.00 – 11.00	Forensic toxicology (Dr. Enow Orock G, Cameroon)
11.00 – 11.30	Coffee break
11.30 – 13.00	Industrial toxicology (Dr. Asongalem EA, Cameroon)
13.00 – 13.15	Evaluation (perception of the course) – *Dr. Assob JCN*
14.00	Lunch

WORKSHOP ON ENVIRONMENTAL TOXICOLOGY

Wednesday, June 1st 2011

SHORT COURSE II: DAY 2

Venue: *Cultural Village II*

Time: 08.00 a.m-13.00

Monitoring exposure and effects of pesticides in surface waters – a hand-on approach - *Dr. Silke Bollmohr (South Africa).*

The ecological risk assessment of pesticides and biocides to aquatic organisms can entail a tiered testing system with increasing reality as higher the tier is. Low tier modeling and assessment techniques do not require a lot of input information, are conservative and present a low confidence level. Higher tier modeling and assessment techniques require a higher level of information, are less conservative and more realistic, presenting a higher confidence level.

Models like PRIMET are used to predict the risk on a low tier basis. Higher tier tests comprise test systems like microcosms/ mesocosms, field monitoring and most recently species trait in order to assess the risk towards a broader aquatic ecosystem including ecological principles like predation, competition and sometimes even recovery. Effect models like PERPEST or AQUATOX are used to predict the risk on an ecosystem level. The short course will give an overview of different modeling techniques and their data requirements, especially relevant for developing countries. Furthermore, different monitoring techniques to assess pesticides in surface waters are presented.

Course objectives

The short course introduces the participants into the current way of thinking in the field of ecological risk assessment for pesticide, with reference to the ecological impact of these chemicals in surface waters and indirectly to human health.
At the end of the short course participants will have:

- an overview of current methodologies to assess the risk of pesticides/biocides in aquatic ecosystems, including exposure and effect assessment and different modeling techniques
- a better understanding on how to interpret chemical data
- an overview on monitoring techniques for surface waters

RISK ASSESSMENT TRAINING AND EXPERIENCE (RATE): *PRINCIPLES AND UNDERSTANDING OF RISK ASSESSMENT*

Instructors: Allen Davis, Eva McLanahan, John Stanek; Under the leadership of Becki Clark
National Center for Environmental Assessment, Office of Research and Development, United States Environmental Protection Agency

Wednesday, June 1st 2011

SHORT COURSE III: DAY 2
Venue: *Cultural Village III*
Time: 8.00 – 12.00 noon
Instructors: Allen Davis, Eva McLanahan, John Stanek; under the leadership of Becki Clark
National Center for Environmental Assessment, Office of Research and Development, United States Environmental Protection Agency

Time	Topic
08.00 a.m	Objectives and Overview of Day 2
08.05 a.m	Exposure Assessment
9.30 a.m	**Break**
9.45 a.m	General concepts in Risk Characterization, Management, and Communication
12.00 noon	**Lunch**

13.00 p.m	Case study example
14.30 p.m	**Break**
14.45 p.m	Case study example
15.45 p.m	Day 2 wrap-up and review
16.15 p.m	Course evaluations