



## *E* **Environmental Toxicology**

<b>Programme</b>	<i>Annual International Training Course, Thai International Cooperation Programme</i>
<b>Course Title</b>	<i>Environmental Toxicology</i>
<b>Duration</b>	<i>July 2007 (3 Weeks) *</i>
<b>Closing Date for Application</b>	<i>March 31, 2007</i>
<b>Number of Participants</b>	<i>10</i>
<b>Invited Countries</b>	<i>Afghanistan, Bangladesh, Bhutan, Cambodia, China, India, Indonesia, Iran, Jordan, Lao PDR, Malaysia, Maldives, Mongolia, Myanmar, Nepal, Pakistan, The Philippines, Sri Lanka, Timor Leste, Vietnam and Thailand *</i>

*\* Subject to change by further notifications*

## Objectives

- to provide education in environmental toxicology;
- to enable participants to keep abreast with current development in the study of selected groups of toxic substances.

## Qualifications

- age; less than 50 years old;
- related vocational history; more than 2 years (the course requires basic knowledge in chemistry, biological sciences, medicine or engineering);
- education; equivalent to a bachelor degree of university/technical college;
- language: proficiency in English (speaking, reading and writing).

## Course Content

This course provides the trainee with a background in major groups of toxic substances encountered by man and animals through food and environment, and also through exposure at the workplace. Those toxicants include mycotoxins, naturally occurring toxin, N-nitroso compounds, solvents, pesticides, air, water and soil pollution. The course focuses on the chemistry, fate and distribution in the environment, mechanisms of their actions, toxic manifestation in living organisms as well as toxic syndrome in human beings.

### Topics to be covered

- Chemicals in the environment
- Fate and distribution of chemicals in the environment
- Prediction of environmental distribution and fate of chemical substances
- Exposure to chemical hazards
- Water pollutants, soil pollutants
- Environmental carcinogens, environmental carcinogenesis
- Methods of evaluating chemical exposures; biomarkers
- Toxicity of industrial chemicals, e.g. metals, fibers, organic solvents etc.
- Controls for industrial exposures, industrial chemical toxicity, prevention and management of industrial chemical poisonings
- Prediction of environmental concentration, environmental fate from knowledge of release
- Occupational exposure standards, occupational health problems of thermal stress
- Toxicants in foods, food additives
- Pesticides
- Relevant comparative physiology (bio-accumulation and bio-magnification through food webs)
- Testing strategies for the aquatic and the terrestrial environment, testing strategies for bio-accumulation and secondary poisoning
- Assessment of predicted no-effect levels in the main environmental compartments
- Air pollution, possible approaches to assessment of atmospheric effects



## **Annual International Training Course 2007 Calendar**

*Thailand International Development Cooperation Agency*

 **Institution**

***The course will be conducted by:***

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