Thailand's Annual International Training Course (AITC) 2017

"Environmental Toxicology"

Course Title **Environmental Toxicology**

Duration **10 days in May 2018** (tentative)

Closing date for application **15 March 2018**

Course Content

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

Objectives

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

Course Outline

- Ambient air pollution, indoor air and biomass
- IARC evaluations
- Chemicals in the environment and effects on the environment and prevention
- Persistence, bioconcentration and toxicity
- Principles of ecotoxicology
- Ecotoxicity testing and aquatic toxicology
- Factors affecting exposure concentrations, bioavailability and resultant toxicity
- Data interpretation for ecotoxicological risk assessment and risk management
- Introduction, sources of information and their uses
- Exposure to chemical hazards
- Introduction to the use, value and market presence of pesticides on an international scale
- A succinct review of the principles of toxicological hazard and risk assessment for pesticide
- Setting safe exposure levels, control of exposure and REACH
- Biomarkers
- Classification and mechanisms of action of pesticides
- Neurotoxic & non-neurotoxic effects of selected pesticides
- Toxicity of industrial chemicals
- Epidemiological assessment and exposure assessment
- Hazardous waste
- Toxicants in food and food additives
- The Globally Harmonised System (GHS) for Classification and Labeling of Toxic Substances
- Environmental carcinogens

Number of Participants **15 persons**

Qualifications

1) Less than fifty (50) years of age.
2) At least two (2) years work experiences related to the use of chemicals.
3) Hold a bachelor's degree from a university/technical college in chemistry and the biological/biomedical sciences.
4) Demonstrate proficiency in English (speaking, reading and writing).
5) Participants should be in good health (both physically and mentally), and have a health certificate provided by an authorized physician. This form is also attached together with the Nomination Form.

Fellowship coverage

The fellowship will cover round trip airfare, accommodation (CRI residence), daily stipend, training material, and health insurance for the training period.

Venue **Bangkok, Thailand**

Training Institution

Chulabhorn Research Institute (CRI)
54 Kamphaeng Phet 6 Rd., Lak Si, Bangkok 10210, Thailand
Tel: +66 2 553 8555 ext 8548, 8411 or +66 2 553 8535 Fax: +66 2 553 8543 E-mail: envtox@cri.or.th