

Thailand's Annual International Training Course (AITC) 2017

“Detection of Environmental Pollution and Monitoring of Health Effects”

Course Title **Detection of Environmental Pollution and Monitoring of Health Effects**

Duration **2 weeks in February 2018** (tentative)

Closing date for application **15 December 2017**

Course Content

This is a hands-on practical training course that combines lectures and laboratory exercises on chemical and biological methods currently used to detect chemical pollutants in the air, water and soil, and to detect their biological effects on organs or important changes in the health of people exposed to these environmental chemicals. The course covers theoretical aspects of toxicology, various techniques/analytical methods involved in detection of selected environmental pollutants, the use of various biomarkers to monitor human exposure and effects, as well as testing and screening of toxicity.

Objectives

- To enhance participants' knowledge in the technology and methods used in the detection of environmental pollutants and monitoring of health effects
- To enable participants to keep abreast with current developments in technology and the methodology employed in detection of environmental pollutants and monitoring of health effects

Course Outline

- Different aspects of toxicology
- Occurrence of toxic compounds in the environment and their effects on man
- Monitoring of human exposure through the use of biomarkers
- Analytical methods in Environmental Toxicology
- Testing of toxicity
- Metabolism of xenobiotics
- Good Laboratory Practices (GLP)
- Nano-Toxicology
- Toxicogenomics
- Risk factors in carcinogenesis
- Chemoprevention
- Modern techniques in instrumentation
- Laboratory animal testing

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 detection of toxicity from toxic compounds in the environment and their effects in humans.
- 3) Hold a bachelor's degree from a university/technical college in chemistry, or 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)

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