



IEEA

Combining Analytical Chemistry and Effect Assays
A Toolbox for Better Chemical Risk Management

The Second Southeast Asian Workshop on
Integrated Exposure and Effects Analysis

will be held under
the International Conference of Asian Environmental Chemistry 2014
at
Chulabhorn Research Institute, Bangkok Thailand
on
25 November 2014

In recent years, increasing numbers of studies have been conducted to evaluate the impact of the chemical contaminants on humans and ecosystem, especially when they exist as a mixture.

Considering the limitations and strengths of both chemical and biological assays to characterize the risks of chemical mixtures in the environment, an integrated analysis approach is critical.

Integrated exposure and effects analysis (IEEA) is a scientific approach that unites evaluation of the presence of environmental contaminants and assessment of their potential effects on human and ecological health.

In the US, National Institute of Health (NIH) started a toxicological research programme on chemical mixtures and USEPA is developing the Mode-of-Action Oriented Assessment.

EU has set up a research initiative for the Effect Directed Analysis (EDA). All of those activities are aiming to combine toxicological and analytical approaches to better understand the risk of chemical mixtures.

The first Southeast Asian IEEA Workshop was held in Hanoi in January 2014 for establishing a network around the related government, academia and industries throughout Southeast Asia.

The second Workshop aims to strengthen and expand the network by deepening the discussions for more collaborative actions, which will enable Asian countries to take the influential leadership for the global standardization of the integrated chemical management in future.

- The topics in the workshop will include:
- Environmental research on multiple contaminants co-exist in the environmental media
 - Analytical development of chemical toxicity including novel bio-assay approach
 - Other efforts of the national governments/international organizations to manage chemical mixtures

- Provisional Agenda:
- Morning session (9:30-12:00): up-to-date results from Southeast Asian countries
 - Afternoon session (13:30-17:00): panel discussion for future collaborative research on effective chemical risk management



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