Training Course on the Theory and Practical Application of RESRAD BIOTA and Other Codes in the RESRAD Family for the Determination of Dose, Risk, and Authorized Limits at Radioactively Contaminated Sites

June 22 – July 2, 2015

Hosted By: International Programs Section
Argonne National Laboratory
international.anl.gov

STOP

THE PURPOSE

Training

PURPOSE

Provide practical training in the applicability and use of dose and risk models in the RESRAD Family of Codes for the assessment of contaminated sites.

FOCUS

- Principles of Radioecology, Risk Assessment, and on the RESRAD codes
- Hands-on exercises for the codes

A soil sample collected by IAEA as part of an exercise.
Photo Credit: Susanna Lööf, IAEA

THE COURSE

Welcome to Argonne National Laboratory

Introduction to Argonne

Safety at Argonne

The Lecturers and Staff

Course Leaders: Charley Yu, Argonne National Laboratory

Program Manager: Sunaree Hamilton, Ph.D., Argonne National Laboratory

Marcelle Phaneuf

Bruce Biwer

Jing-Jy (J.J.) Cheng

Emmanuel Gnanapragasam

Sunita Kamboj

David LePoire

W. Alexander Williams

Charley Yu, Argonne National Laboratory

Course Leader

Marcelle Phaneuf, International Atomic Energy Agency

Course Overview

Bruce Biwer, Argonne National Laboratory

Air Dispersion Model

Jing-Jy (J.J.) Cheng, Argonne National Laboratory

- Ecological Risk Assessment
- New Source Term Model
- Early Phase Protective Action

Dr. Emmanuel Gnanapragasam, Argonne National Laboratory

Release Model

Accumulation Model and Exposure Assessment

Sunita Kamboj, Argonne National Laboratory

- Biota Dose Assessment
- Dose Coefficients
- Surface Contamination Limits
- Operational Guidelines

David LePoire, Argonne National Laboratory

- Demo of RESRAD-Biota
- Data Reporting and Analysis
- Probabilistic Code
- Problem Solving

Dr. W. Alexander Williams

Distribution Coefficients

Problem Solving

THE PARTICIPANTS

M. Moinul Islam

Bangladesh

Syahrir

Syahrir

Indonesia

Adi
Wijayanto
Indonesia

Made
Udiyani
Pande

Indonesia

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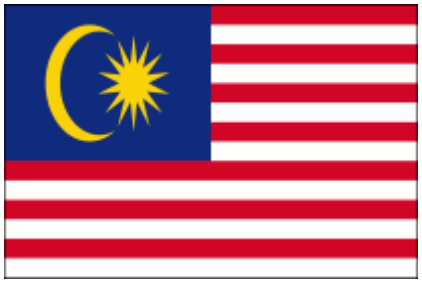
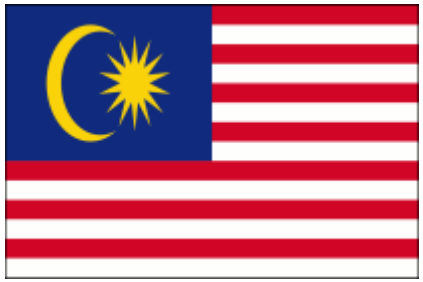
Indonesia



Zal Uyun Wan Mahmood

Malaysia



Nurul Wahida Ahmad Khairuddin

Malaysia

Thant Zin Myo

Myanmar

Yutthana Tumnoi

Thailand

Wannee Srinuttrakul

Thailand

Tien Thinh Lai

Vietnam

Thuan Le Ba

Vietnam

Argonne NATIONAL LABORATORY

22 June - 2 July 2015

IAEA - Argonne

Theory and Practical Application of RESRAD-BIOTA and the RESRAD Family of Codes

http://www.facebook.com/IPSection

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THANK YOU