LECTURER'S VITAE

IAEA-ARGONNE TRAINING COURSE

Name: Jing-Jy Cheng

Present Position: Environmental Systems Engineer

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Scope of Present Duties:

Develop and enhance RESRAD family of codes for human health and ecological risk assessments and conduct traning workshops to teach the use of the codes.

Lead the emergency planning hazards assessments for Argonne on-site facilities to support emergency planning and preparation.

Evaluate environment fate and transport of hazardous chemicals and radioactive materials and potential impacts to human health and biota organisms associated with remediation of contaminated sites, management of waste materials, and energy and enviromental policies.

Verfiy and validate safety analysis software related to Argonne hazardous materials inventory management programs.

Most Relevant Past Experience:

Developer of RESRAD, RESRAD-OFFSITE, RESRAD-BUILD, RESRAD-BIOTA, and RESRAD-RDD codes.

Principal human health impact analyst of U.S. DOE uranium lease tracts, abandoned uranium mines, GTCC and GTCC-like waste disposal, and DUF6 inventory management projects.

Radiation risk assessor of the U.S. DOE Amchitka independent science assessment for long-term monitoring and stewardship project.

U.S. NRC reviewer of Connecticut Yankee Nuclear Power Plant license termination plan regarding compliance with human health protection criteria.

Principal ecological risk analyst of the U.S. Naval China Lake Air Weapons Station cleanup project.

Developer of preliminary screening methodology for evaluating chemically contaminated sites for utitlity scale solar energy development concerning potential human heath risks.

Developer of Argonne emergency planning hazards assessment methodology and assessment reports for seven facilities.

Participant of IAEA benchmarking exercises (EMRAS) to compare computer model predictions of environmental media concentrations, biota organism radiation exposures, and consequences of management alternatives associated with radiological dispersal device scenarios.

QA/QC analyst of Argonne radioactive items management software RMS and CURIE.

Educational Background:

B.S. and M.S. - Chemical Engineering, Tsing Hua University, Taiwan
Ph.D. - Macromolecular Science and Engineering, Case Western Reserve University, U.S.A.

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