

International Training Course on
**EFFECTIVE MEASURES
FOR ENERGY CONSERVATION**
24 August to 1 September 2009

Organized by *the Association for Overseas
Technical Scholarship, Japan*
Implemented by *AIT Extension
Asian Institute of Technology,
and EBARA Hatakeyama Memorial Fund*

Rationale:

Energies in various forms are indispensable for sustaining human life and pursuing development. Consumption of energy resources worldwide has increased conspicuously in the past decades along with economic growth and population increase, for which exhaustible fossil fuel resources are occupying majority of consumption. Such mass consumption has resulted in serious environmental impacts represented by emission of greenhouse gases.

Energy efficiency is the cheapest, fastest and smartest strategy available for saving money and resources and reducing greenhouse gas emissions around the world. To provide energy security and to preserve the environment for future generations, it is essential to be knowledgeable about state-of-the-art technologies in effective measures for energy conservation.

Objectives:

The Training Course is intended to

- ❖ Inform trends in energy demands and impacts on the environment,
- ❖ Understand representative energy conservation and application technologies thereof,
- ❖ Understand utilization technologies of unused energies in the systems,
- ❖ Describe Life Cycle Assessment on energies for environmental evaluation,
- ❖ Study Kyoto Protocol and Clean Development Mechanism and its implementation, and
- ❖ Secure sound perspectives on sustainability.

Target participants:

The Training Course is designed for mechanical, industrial, electrical, environmental, chemical and other engineers engaged in energy related tasks. Interested individuals from industrial sectors, consulting firms and public establishments are encouraged to apply.

Topics covered:

- ❖ Trends in Energy Demands and Impacts on Environment,
- ❖ Respective energy properties and conversions,
- ❖ Compendium on Energy Conservation,
- ❖ Overview on renewable energies,
- ❖ Energy Saving in Operation of Fluid Machinery,
- ❖ Waste Heat Recovery Technology and Applications,
- ❖ Utilization of Unused Energies in typical end uses,
- ❖ Applications of Organic Wastes as Energy,
- ❖ Energy savings in typical end uses,
- ❖ Life Cycle Assessment on energies,
- ❖ Kyoto Protocol and Clean Development Mechanism,
- ❖ Approaches to sustainability, and
- ❖ Case studies and site visits.

Course methodology:

The training course comprises of lectures in English, case studies and workshops, video presentation, country reports and site visits to energy related facilities.

Resource persons:

The lecturers are drawn from expert resources of EBARA Corporation and its affiliates, and Faculty of the Asian Institute of Technology, etc.

APPLICATION INFORMATION

To participate in this course, the applicant should take into account his/her academic qualifications, professional experience and likely benefit of the course to the applicant and affiliated organization. Proficiency in English language is essential.

Limited numbers of scholarships are available from the Association for Overseas Technical Scholarship and the EBARA Hatakeyama Memorial Fund. The scholarship covers tuition fee, international travel to and from Bangkok, accommodation at AIT for foreigners, subsistence allowance and medical care for minor ailments.

The scholarships will be awarded to nominated trainees selected by the Steering Committee consisting of implementing bodies. In the event that a nominee is accepted for the scholarship, he/she will be notified accordingly.

Application with supporting documents such as a brief CV stating qualifications, proof of English proficiencies if available, a brief description on your activities for energy conservation, etc. must be received by AIT Extension not later than **9 July 2009**. Application Form accompanying this brochure may be duplicated as needed. *Further inquiries on this course and other programs and services can be addressed to:*

The Admissions Officer
AIT Extension
Asian Institute of Technology
P.O.Box 4, Klong Luang
Pathumthani 12120, THAILAND
Tel.No. (66-2) 524-5237, 524-5338
Fax No. (66-2) 524-6332
E-mail: worawan@ait.ac.th
<http://www.extension.ait.ac.th>

THE ASSOCIATION FOR OVERSEAS TECHNICAL SCHOLARSHIP (AOTS)

The **AOTS**, a non-profit organization, was established in 1959 with the support of then Ministry of International Trade and Industry (MITI), the Government of Japan. Its main purpose is to promote technical cooperation for industrialization and development of developing countries as well as to enhance mutual understanding and friendly relations between those countries and Japan. To date, the **AOTS** has trained more than 143,001 persons in Japan from over 150 countries and regions. In addition, it has organized various training programs outside Japan involving more than 171,989 participants from developing countries as of year 2007. The activities of the **AOTS** are financed by Japanese government subsidy, company contributions and other sources.

ASIAN INSTITUTE OF TECHNOLOGY (AIT)

AIT is an autonomous, international institute established in 1959 to help meet the growing need for advanced engineering education in Asia. Since that time AIT has become an active partner in the promotion of technological change and development in the Asia-Pacific Region through higher education, training and research. Academic program at AIT are conducted at the doctoral, master, diploma and certificate levels by three schools: School of Engineering and Technology, School of Environment, Resources and Development, and School of Management.

The AIT Extension adds an exciting new dimension to AIT's work in the region. Bringing together the Institute's highly-regarded academic and outreach centers, **Extension** identifies and responds to regional opportunities for continuing education, training and consultancy, and thus helps realize AIT's mission to develop highly qualified and committed professionals who will play a leading role in the sustainable development of the region and its integration into the global economy. **Extension** is an innovative and responsive provider of a broad array of capacity building programs and services.

EBARA HATAKEYAMA MEMORIAL FUND

The **EBARA Hatakeyama Memorial Fund** was founded in 1989 by EBARA Corporation, Japan. Its aim is to provide voluntary activities for international cooperation in Southeast Asian countries through technology transfer on non-commercial basis.

EBARA CORPORATION

EBARA Corporation has long been known as a world leader in engineering and manufacture of fluid machinery and related systems incorporating these products. It is also at the forefront in the fields of environmental protection and resources recycling engineering as well as renewable energy applications, thereby its advanced technologies in water and air pollution prevention, wastewater treatment, solid waste management and new energy systems continue to find customers in need worldwide.