

WORKSHOP ON DESIGNING SUSTAINABLE ENERGY SYSTEMS

18 October - 5 November 2004
(Miramare - Trieste, Italy)

Co-organized by the I.A.E.A., Vienna, Austria

The Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy), in cooperation with the International Atomic Energy Agency (IAEA, Vienna, Austria), is organizing a Workshop on Designing Sustainable Energy Systems, to be held at the ICTP, from 18 October to 5 November 2004. The Workshop will be directed by Dr. **Duy-Thanh BUI** (Planning & Economic Studies Section, Nuclear Energy Dept., I.A.E.A., Vienna). The Local Organizer will be Prof. **Brian STEWART** (ICTP).

The "Plan for Implementation" agreed at the World Summit on Sustainable Development (WSSD) (Johannesburg, 2002) called upon all countries to "take joint actions and improve efforts to work together at all levels to improve access to reliable and affordable energy services for sustainable development", and identified specific actions such as intensifying regional and international cooperation in support of national efforts including capacity building and technical assistance for sustainable energy development.

This Workshop aims at capacity building for elaborating sustainable energy strategies, particularly in developing countries, compatible with their national development goals and priorities, and will thereby contribute to the Implementation Plan of WSSD. The focus of the Workshop will be to:

- (i) review major issues related to sustainable energy development,
- (ii) discuss how to apply sound judgment about the choice of energy technologies most appropriate for addressing these issues, and
- (iii) provide training in the use of the IAEA's MESSAGE model and its application for designing sustainable energy systems.

Topics to be covered during the workshop include the following:

1. Energy system designs and sustainability conditions.
2. Detailed discussion of the MESSAGE approach and methodology.
3. Training in the application of this approach together with the computer package through examples and developing case studies using country specific data and information.
4. Needs and limitations in modeling the energy and power sectors under conditions of sustainable development.

Scientists and students from all countries that are members of the UN, UNESCO or IAEA can attend the activity. Although the main purpose of the Centre is to help researchers from developing countries through a programme of training activities within the framework of international cooperation, a limited number of students, post-doctoral scientists and researchers from developed countries are also welcome to attend. Applicants to this Workshop should have a strong understanding of energy/electricity issues in their respective countries, a capability of energy system analysis and skills on computer modeling. Participants will be expected to bring to the Workshop detailed data on their national energy system and related environmental and economic statistics, as well as to develop country case studies and present them at the end of the Workshop.

As the Workshop will be conducted in English, participants must have an adequate working knowledge of that language. For logistic reasons, **the total number of participants is limited.**

As a rule, travel and subsistence expenses of the participants are borne by their home institutions. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only to those attending the entire Workshop. There is no registration fee to attend this activity.

The closing date for the receipt of requests for participation is 15 June 2004.

The **Application Form** is obtainable from the ICTP WWW server: <http://agenda.ictp.trieste.it/smr.php?1585> (which will be constantly up-dated) or from the activity Secretariat (smr1585@ictp.trieste.it). It should be completed, signed and returned before **15 June 2004 to:**

the Abdus Salam International Centre for Theoretical Physics
Workshop on Designing Sustainable Energy Systems (smr.1585)
Strada Costiera 11
I-34014 Trieste, Italy

Telephone: +39-040-2240305 E-mail: smr1585@ictp.trieste.it Telefax: +39-040-224531
<http://agenda.ictp.trieste.it/smr.php?1585>

DIRECTOR

Duy-Thanh BUI
(I.A.E.A., Vienna, Austria)

LOCAL ORGANIZER

Brian STEWART
(ICTP, Trieste, Italy)

DEADLINE:

15 June 2004