



# The Abdus Salam International Centre for Theoretical Physics



Joint ICTP - IAEA Workshop on

## Uncovering Sustainable Development CLEWS; Modelling Climate, Land-Use, Energy and Water (CLEW) Interactions

30 May - 3 June 2011

Miramare, Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP), together with the International Atomic Energy Agency (IAEA), is organizing a Workshop on “Uncovering Sustainable Development CLEWS; Modelling Climate, Land-Use, Energy and Water (CLEW) Interactions”. The Workshop will be held at ICTP, Trieste, Italy, from 30 May - 3 June 2011.

The objective of this scientific workshop is to present 'CLEW assessment methods' for analysing the interaction of climate (C), land (L), energy (E) and water (W) resources and services as well as showing the implications of these interactions on the socio-economic development of society via case studies. The analysis of individual CLEW components (and their related services) is routinely undertaken using modelling tools. However these models often lack the functionality required to conduct the integrated analysis required in developing climate-impact, land-, energy- and water-use related policies. The development of an integrated tool linking the above components would help policy makers assess different technologies, estimate the impact of different development scenarios, coordinate policy and planning activities related to water, energy, land and climate and analyse and evaluate policies.

Specifically participants will:

- Be given an introduction to the design of integrated CLEW assessment methods;
- Receive overviews of specific models for related climate, land, energy and water analysis (Examples of such models include: LEAP [Long range Energy Alternatives Planning model], MAWD [Model for the Analysis of Water Demand], AquaCrop and Agro Ecological Zoning) that form the basis for a CLEW assessment methodology as well as an introduction to use of isotope hydrology for water resource mapping and related applications;
- Have practitioners present case studies that illustrate the interrelationships between climate, land, energy and water;
- Critically examine and compare the case studies developed by IAEA and partners;
- Examine CLEW trade offs associated with interventions to meet development goals;
- Be exposed to the relevance of CLEW modelling to both developing (DC) and least developing (LDC) countries in meeting their development goals.

### Participation

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the College. As it will be conducted in English, participants should have an adequate working knowledge of this language. Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, a limited number of students and post-doctoral scientists from developed countries are also welcome to attend. As a rule, travel and subsistence expenses of the participants should be borne by the home institution. 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 for those who attend the entire activity. There is no registration fee.

### How to apply for participation

The application form can be accessed at the activity website:

<http://agenda.ictp.it/smr.php?2242>

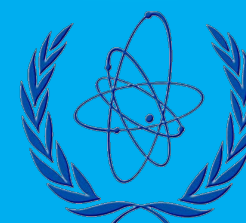
Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Kindly send all file attachments in Word or PDF format.

**Deadline for receipt of applications is 28 February 2011.**

### Contact Information

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## IAEA

International Atomic Energy Agency

### Directors

**M. HOWELLS**  
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**B. NEWMAN**  
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**F. GIORGI**  
(ICTP) Local Organizer

### Invited Speakers:

***to be announced  
on the website***

### Application Deadline

**28 February 2011**