

Joint ICTP-IAEA

Advancing Modelling of Climate, Land- use Energy and Water (CLEW) Interactions

7-11 October 2013

ICTP, Miramare - Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP) and the International Atomic Energy Agency (IAEA, Vienna) will jointly organize this event to be held at the ICTP in Trieste from 7 to 11 October 2013.

Land, energy and water are our most basic resources and essential inputs for human life and agency. A world population that is growing in size and affluence however is putting increasing stresses on these resources and challenging our ability to harness them in the abundance and at the quality we have grown accustomed to. At the same time the manner and extent to which they are exploited is contributing to climate change by releasing greenhouse gases into the atmosphere and changing land cover patterns.

Key to meeting the challenges of providing food, water and energy to current and future population is the realization that these challenges are highly interlinked. This has led to the emergence of what has been termed the "Water, Energy and Food Security Nexus", which envisions an integrated approach to resource management. The concern is that if assessments and decision making processes occur in isolation and are undertaken by separate and disconnected institutional entities (as is often the case), then there is a high likelihood that we are not managing our resources as well as we could. Conflicting policy goals and trade-offs might not be appropriately considered, while potential synergies could go unnoticed. With the aim of trying to help remedy these shortcomings the IAEA and its partners have developed a paradigm for integrated resource assessments referred to as Climate, Land-use, Energy and Water (CLEW).

The focus of this workshop is to advance the knowledge of CLEW interlinkages and improve the tools and methodologies to address the challenge of securing the supply of energy, food and water for the future while protecting our environment. The aim is to facilitate energy-food-water assessments by developing the analytical resources available to researchers, students, analysts and planners. The knowledge and tools will be used to identify conflicting policy goals and highlight measures, which may have multiple and reinforcing benefits.

The following topics will be covered during the workshop:

- Recent advances and current state of CLEW methodology frameworks
- Recent case studies addressing water, energy, food and climate interrelations
- Assessment of remaining gaps and shortcomings of the current methodologies
- Assessment of the relevance and applicability of CLEW methodologies to planning and policy formulation in developing countries
- Suggestions for further development of the analytical tools and methodologies

Scientists and Ph.D. students from all countries that are members of the UN, UNESCO or IAEA can attend the Workshop. Although the main purpose of the Centre is to help researchers from developing countries through a programme of training activities within a framework of international co-operation, a limited number of strongly motivated graduate student and post-doctoral scientists from developed countries are also welcome to attend. Limited funds are available for some applicants from developing countries, to be selected by the organizers. Such financial support is available only to those who attend the entire event. Every effort should be made by candidates to secure support for their fares (or at least half-fare) from their home country. . Logistics limit the number of participants to 27; there is no registration fee for participation.

The online application form for this Workshop is available at:
http://cdsagenda5.ictp.trieste.it/full_display.php?smr=0&ida=a12212

The closing date for receipt of applications is **17 June 2013**.

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DEADLINE:

17 June 2013