



## Spring School on Modelling Tools and Capacity Building in Climate and Public Health

15 April – 26 April 2013  
(Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, will organize a Spring School from **5 April to 26 April 2013**.

The spring school on **modelling tools and capacity building in climate and public health** will give participants a wide range of lectures from expert in the field of:

- **The fundamentals of climate and public health interactions**
- **The use of observational, model and forecast climate data**
- **Remote sensing as a tool to manage environmental data**
- **Introduction to environmental epidemiology**
- **Statistical and dynamical disease modelling**

and also learning experiences with a variety of tools ranging from climate data processing techniques to statistical and dynamical methods to model diseases.

### PROGRAMME

The program will be spread over 10 days with 3 main modules, the first module concerns the fundamentals of climate and public health interactions, remote sensing as a tool to manage environmental data and environmental epidemiology. The second module addresses statistical and dynamical disease modelling, with a particular focus on the diseases of shistosomiasis, dengue fever and malaria. In the third module, participants will develop individual or group projects using some of the tools introduced during the course.

### ASSOCIATED ACTIVITIES

The School will be run in collaboration with the following activity: **Workshop on Mathematical Models of Climate Variability, Environmental Change and Infectious Diseases (SMR 2450) from 29<sup>th</sup> April to 10<sup>th</sup> May**. Participants are strongly encouraged to apply also to this latter workshop, although attendance at both workshops is not mandatory since each workshop is designed to be self-contained.

### PARTICIPATION

Applied mathematicians, disease ecologists, epidemiologists, physicists, and economists from all countries, which are members of the United Nations, UNESCO or IAEA, may attend the School subject to approval by the activity Directors. The School is intended mainly for early career scientists and advanced Ph.D. students from developing countries, working in areas such as meteorology and climate, epidemiology, statistics, mathematics or public health. Professionals from meteorological services and ministries of health are encouraged to apply. As the School will be conducted in English, participants should have an adequate working knowledge of that language. Although the ICTPs main purpose is to help researchers 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.

There is no workshop registration fee. As a rule, travel and subsistence expenses of the participants should be borne by the home institution. However, participants who are nationals of and working in a developing country and who are not more than 45 years old will be considered, upon request, for some subsistence support and for **travel support up to one-half of the cost of international airfare**. Such support is available only for those who attend the entire activity.

### HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website <http://agenda.ictp.it/smr.php?2453>

Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Closing date for receipt of the applications is: **10 January 2013**.

### School ORGANIZERS

#### R. Lowe

Catalan Institute of Climate Sciences

#### M. Sa Carvalho

FioCruz

#### G. Mantilla

International Research Institute for Climate and Society (IRI)  
University of Columbia, USA

### INVITED LECTURERS

#### M. Booth

N. McCreesh  
University of Durham U.K.

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University of Durham U.K.

#### A. Githeko

KEMRI, Kenya

#### D. Taylor

Singapore National University

#### C. Caminade

Liverpool University, U. K.

### LOCAL ORGANIZERS

#### A. Tompkins

ICTP, Trieste, Italy

#### F. Colon Gonzalez

ICTP, Trieste, Italy

### DEADLINE

For requesting participation:

**10 January 2013**

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