



# The Abdus Salam International Centre for Theoretical Physics



## Evaluating, Monitoring and Communicating Volcanic and Seismic Hazards in East Africa

17 - 28 August 2009

Miramare, Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics is organizing a two-week Workshop on **Evaluating, Monitoring and Communicating Volcanic and Seismic Hazards in East Africa** to be held from August 17th to 28th, 2009, in Trieste, Italy. The workshop is co-sponsored by the US National Science Foundation, the UNAVCO, the IASPEI and the IAVCEI.

The past few years have seen an unprecedented range of volcanic and seismic activity in the East African Rift, which has focused the attention of scientists and local communities on geohazards. In 2002, a volcanic eruption in the Congo destroyed 25% of the city of Goma and forced the evacuation of 500,000 people; an exceptional rifting episode in the Afar region of Ethiopia has been ongoing since September 2005; a magnitude 7.0 earthquake struck Mozambique in 2006; a rifting event occurred at Lake Natron in Tanzania in July 2007.

Results of initial investigations into these events suggest that activity is set to continue at a high rate over the coming years, and have highlighted an urgent need to build capacity in modern methods for evaluation, monitoring and communication of volcanic and seismic hazards in East Africa. In this two-week-long capacity-building workshop we will train participants from sub-Saharan Africa and surroundings, and build on a fledgling network of scientists that was established during a meeting on Active Volcanism and Continental Rifting that was held in Luxembourg in November 2007.

The workshop is composed of two weeks. The first will include invited lectures, contributed papers and panel discussions, while the second will include hands-on training sessions. The workshop will address each of the following topics:

1. Evaluating volcanic and seismic hazards
2. Monitoring volcanoes and seismic zones
3. Modelling of volcanic and tectonic phenomena
4. Communicating hazards

The goals of the workshop are to establish a new initiative for cooperation in East Africa, to design programs to comprehensively evaluate and monitor the time and length scales of plate boundary and volcanic deformation, and to develop networks for exchange of ideas and expertise.

*Presentations by participants on their specific area of research are welcome. If you wish to make a presentation, please include the title and a one-page abstract together with the application form.*

### PARTICIPATION

Scientists and post-graduate fellows from all countries that are members of the United Nations, UNESCO or IAEA may attend the activity. As it will be conducted in English, participants should have an adequate working knowledge of that language.

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?2053>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

### ACTIVITY SECRETARIAT:

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ICTP Home Page: <http://www.ictp.it/>

Trieste, December 2008

### Organisers

**Abdelkrim Aoudia**

ICTP, Italy

**Eric Calais**

University of Purdue, USA

**Cindy Ebinger**

Rochester University, USA

**Meghan Miller**

UNAVCO, USA

**Tim Wright**

University of Leeds, UK

**Gezahegn Yirgu**

Adis Ababa University, Ethiopia

### Invited Lecturers

**Willy Aspinal (UK)**

**Estella Atekwana (USA)**

**Atalay Ayele (Ethiopia)**

**Vittorio Bosi (Italy)**

**Tom Brocher (USA)**

**Roger Buck (USA)**

**Simon Carn (USA)**

**Valerie Cayol (France)**

**Richard Ferdinand-Wambura (Tanzania)**

**Francois Kervyn (Belgium)**

**Nicolas d'Oreye (Luxembourg)**

**Gebrebrhan Ogubazghi (Eritrea)**

**Chuck Meertens (USA)**

**Mtsoptse Modisi (Botswana)**

**Jurgen Neuberg (UK)**

**Andy Nyblade (USA)**

**Paolo Papale (Italy)**

**Clive Oppenheimer (UK)**

**Diane Roman (USA)**

**Steve Sparks (UK)**

**Ross Stein (USA)**

**Steve Tait (France)**

**Dario Tedesco (Italy)**

**Bob Tilling (USA)**

### DEADLINE

for requesting participation

**1 May 2009**