



The Abdus Salam
International Centre for Theoretical Physics



Conference & School on

*Predictability of Natural Disasters
for our Planet in Danger. A System View:
Theory, Models, Data Analysis*

*25 June - 6 July 2007
(Miramare - Trieste, Italy)*

The Abdus Salam International Centre for Theoretical Physics, ICTP, will organize a Conference and School on "Predictability of Natural Disasters for our Planet in Danger. A System View: Theory, Models, Data Analysis" from **25 June to 6 July 2007**. This event is intended to address the issue of predictability of natural disasters in a multidisciplinary way, drawing from methodologies used in different disciplines of the geosciences and looking at synergistic interactions across these disciplines. The activity is divided into two segments, a 2-day conference and an 8-day school. The conference will consist of a series of invited key-note presentations of overview nature, while the workshop will consist of advanced lectures and lab sessions. The event will also launch the creation of an Earth System Physics (ESP) section at ICTP.

Topics covered in the conference and school include:

- *Predictability in geophysical systems*
- *Climate predictability at seasonal to interannual temporal scales*
- *Predictability of extreme weather and climate events*
- *Climate change prediction*
- *Climate change, impacts and sustainable development*
- *Natural climate variability*
- *Predictability of earthquakes*
- *Tsunami physics and prediction*
- *Volcanic eruptions*
- *Prediction algorithms and their links with disaster preparedness*

Scientists and students from all countries that are members of UN, UNESCO, or IAEA can attend the Conference and Workshop. 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. However, students and post-doctoral scientists from developed countries are also welcome to attend. As the Workshop will be conducted in English, participants should have an adequate working knowledge of that language.

As a rule, travel and subsistence expenses of the participants should be covered by the home institution. However, limited funds are available for some research workers from developing countries. As scarcity of funds allows travel to be granted only in a few exceptional cases, every effort should be made by candidates to secure support for their fares (or at least half fare) from their home country. It is stressed that participants whose travel expenses are paid by ICTP are required to attend the entire activity. There is no registration fee for attending the Conference/Workshop.

The Application Form is obtainable from the ICTP WWW server: <http://agenda.ictp.it/smr.php?1849> which will be constantly up-dated) or from the activity Secretariat. It should be completed and returned before **28 February 2007** to the address below or smr1849@ictp.it (please send file attachments in one of the following formats: pdf (preferably), rtf zipped, or doc) (recent photograph & signature of the candidate are compulsory).

**Conference & School on
Predictability of Natural Disasters for our Planet in Danger**

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*Predictability of
Natural Disasters*

DIRECTORS

F. Giorgi
(ICTP, Trieste, Italy)
V.I. Keilis-Borok
(University of California, LA, USA)
D. Straus
(George Mason University, USA)

KEYNOTE SPEAKERS

P. Crutzen
(MPI, Germany)
M. Ghil
(ENS, France)
A. Henderson-Sellers
(WCRP, Switzerland)
V. Keilis-Borok
(UCLA, USA; MITPAN, Russia)
R. Pachauri
(IPCC/TERI, India)
T. Palmer
(ECMWF, U.K.)
C. Schär
(ETH, Switzerland)
J. Shukla
(GMU/IGES, USA)
D. Stone
(U. Oxford, U.K.)
D. Turcotte
(UCD, USA)
S. Ward
(UCSC, USA)

LECTURERS

G. Branstator (NCAR, USA)
R. Buizza (ECMWF, UK)
M. Caputo (Univ. Rome, Italy)
Ping Chang (Texas A&M U., USA)
V. Courtillot (IPGP, France)
I.-S. Kang (U. Seoul, Korea)
V. Kossobokov (MITPAN, Russia)
V. Krishnamurthi (COLA, USA)
J.-L. LeMouel (CNR, France)
I. Main (Univ. Edinburgh, UK)
G. Molchan (MITPAN, Russia)
F. Molteni (ECMWF, UK)
G. De Natale (O. Ves, Italy)
G.F. Panza (DST/ICTP, Trieste)
K. Puri (CSIRO, Australia)
J. Rundle (UC Davis, USA)
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DEADLINE:

28 February 2007