



# The Abdus Salam International Centre for Theoretical Physics



## Workshop on 'Palaeoclimate and Human Dispersal during Marine Isotope Stage 3'

12 - 17 December 2011

Chennai, India

The Abdus Salam International Centre for Theoretical Physics (ICTP) in collaboration with Anna University (AU), Chennai is organizing a Workshop on 'Palaeoclimate and Human Dispersal during Marine Isotope Stage 3' to take place in Chennai from 12th to 17th December 2011.

The aim of this workshop is to promote integrated approaches in the study of palaeoclimate records, palaeoclimate modelling and impacts on human migrations during MIS3, comparing studies in climate research, palaeoanthropology, palaeo-genetics, population genetics and archaeology. Several recent developments in palaeo-climate reconstruction have highlighted the need for improved proxy data to validate regional models of climate change in the past. This is important for understanding the dynamics of human dispersal in Asia between 70,000 and 50,000 years ago.

Reliable dates are needed for archaeological sites with human presence to time the dispersion of *H. sapiens* during the late Pleistocene. A precise chronology is also required to evaluate the impact of modern humans on the ecosystem. Advances have been made in a number of methodologies including OSL, AMS radiocarbon, U-series, ESR, LA-ICPMS, etc. Archaeological results are compared to data from population genetics and ancient DNA studies.

### Topics will include:

- palaeoclimate reconstructions at different time scales;
- palaeoclimate modelling;
- response time of landscape and geomorphic evolution;
- archeological sites as potential tools for environmental reconstructions;
- advances in geochronology and microanalysis;
- palaeoanthropology, palaeo-genetics, population genetics and archaeology.

A field trip to an archaeological site relevant to the topics of the workshop will be organised.

The school is intended for promising young scientists (students and researchers) from India and other Asian countries.

### Participation

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the School. Priority will be given to graduate students, post-doctoral researchers, faculty and research scientists from developing countries in Asia.

As it will be conducted in English, participants should have an adequate working knowledge of that 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?2283>

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

You may address general requests for information to:

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co-sponsored by:

Anna University, Chennai

Consorzio per la Fisica, Trieste

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## DEADLINE

for requesting participation  
**18 September 2011**