

REFRESHER COURSE ON PHYSICS OF EARTHQUAKES

sponsored by

INDIAN ACADEMY OF SCIENCES, BANGALORE

at

TEZPUR UNIVERSITY, TEZPUR

2–21 December 2002

A Refresher Course on 'Physics of Earthquakes', for the benefit of teachers from colleges and university departments will be held at Tezpur University from 2 to 21 December 2002.

The objective of this course is to help teachers gain an understanding of the earthquake phenomenon and the physical processes involved in its genesis as well as of the earthquake waves which propagate the energy released by the earthquake rupture outward from the source. The course will begin with mathematical preliminaries including vector calculus, theory of elasticity, wave equations in three dimensions and solutions, and Fourier series and integral, and will be followed by more quantitative description of earthquake sources, energy flow in the form of waves, their paths through a layered spherical earth, ground motion recording instruments, nature of records and their analysis to yield information about the mechanics of earthquake sources, the structure of the earth traversed by the reconnoitring waves, and estimation of ground motion intensity at strategic sites that may be caused by a future earthquake. The faculty for the course will include:

- (1) V. K. Gaur, Centre for Mathematical Modelling and Computer Simulation and Indian Institute of Astrophysics, Bangalore.
- (2) S. N. Bhattacharya, India Meteorological Department, New Delhi.
- (3) Imtiyaz Ahmad, Centre for Mathematical Modelling and Computer Simulation, Bangalore.
- (4) Ashok Kumar, Department of Physics, Tezpur University, Tezpur.
- (5) B. P. Sarmah, Department of Mathematical Sciences, Tezpur University, Tezpur.
- (6) N. Deka Baruah, Department of Mathematical Sciences, Tezpur University, Tezpur.
- (7) S. K. Laskar, Department of Mathematical Sciences, Tezpur University, Tezpur.

Teachers interested in attending this course may send their application, containing their name, date of birth, complete addresses (along with telephone and e-mail addresses), qualifications, courses taught, and a statement expressing self-assessment of the ability to follow the proposed course and the possibility of making further use of it in their later work. Applications must be duly forwarded by the appropriate authority indicating that necessary permission to attend this course and leave will be given by the concerned institution.

Applications should be sent to:

Professor V. K. Gaur
Indian Academy of Sciences
C. V. Raman Avenue
Post Box No. 8005
Sadashivanagar Post
Bangalore 560 080
Fax (080) 361 6094
E-mail: madhavan@ias.ernet.in

Selected teachers will be provided local hospitality and actual travel fare by bus or rail (I class or three-tier a/c) by the shortest route.

Last date for receiving applications: 31 October 2002.