



INTERNATIONAL CONFERENCE

# NATURAL HAZARDS AND DISASTER MANAGEMENT



## CBIT IC - NHDM

12 -14 December, 2007  
Hyderabad, Andhra Pradesh, India.



*Organised by*

**Department of Civil Engineering**

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT)**

Gandipet, Hyderabad 500075, Andhra Pradesh, India.

Affiliated to Osmania University, Hyderabad

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All India Council for Technical Education (AICTE)

(An ISO 9001-2000 certified Institute)

Website : [cbit.ac.in](http://cbit.ac.in) E-mail : [principalcbit@yahoo.co.in](mailto:principalcbit@yahoo.co.in)

## ABOUT THE INSTITUTION //

Chaitanya Bharathi Institute of Technology (CBIT) is a premier engineering institute in Andhra Pradesh (INDIA), established by Chaitanya Bharathi Educational Society (CBES), in the year 1979. With a history of about three decades, it has grown into an institution to reckon in the field of technical education, in the country. It has consistently stood as first option over the years for the students entering the portals of undergraduate courses in engineering, immediately after the university colleges in the state. In a recent survey conducted by Outlook Magazine, **CBIT is ranked first in the State and 16th in the Country among all private engineering colleges.** Students of this institute have been competing with those from the institutes of great repute in the country and are achieving excellence in various competitive exams like GATE, GRE, GMAT, CAT, IES, apart from topping the regular university exams frequently. Alumni of the institute are widespread throughout the globe and are bringing laurels to the institute through their exemplary performance.

Presently, the institute is offering 9 undergraduate courses with 660 intake and 7 post-graduate courses with 224 intake. The sylvan surroundings of the historic Osmansagar lake, coupled with the serene beauty of the landscape of CBIT, form a highly conducive environment for academic pursuits. The best of the facilities are made available for the students, including excellent infrastructure, well equipped laboratories and an excellent library . With over 3000 bright, sincere and spirited students, 211 well qualified and dedicated faculty and 220 experienced and committed supporting staff, the institute always looks lively with full of academic , research, consultancy, co-curricular and extra curricular events.

## ABOUT THE DEPARTMENT //

Civil Engineering Department of the institute started functioning right from the inception of the institute, in the year 1979. It is endowed with well qualified, experienced and dedicated faculty and committed supporting staff. Students of the department are highly enthusiastic and actively participate in various co-curricular and extra - curricular activities apart from giving their best in academics. A congenial atmosphere prevails in the department and in particular between the teacher and the taught. All the laboratories of the department are well equipped with advanced and sophisticated instruments, to fully satisfy the training needs of the students and to meet the research and consultancy requirements of the department. Conducting seminars, workshops and conferences on the latest developments, and arranging industrial visits and expert lectures for the benefit of the students, are regular features in the department.



## PREAMBLE //

Globally, there appears to be an alarming increase in the occurrence of natural hazards and disasters, in the recent past. Huge loss of life and property is becoming increasingly common, raising the concern of one and all. The earthquake of Bhuj in 2001 and the recent Tsunami of Sumatra have left an irreparable loss in the national context. While the awareness and alertness are the two key parameters in which the developing countries should learn a lot in comparison with the developed countries, it is needless to say that a Global strategy is of utmost need today to prepare ourselves for protecting our



planet from all the natural disasters. Researchers, Academicians, Authorities at the helm of affairs and even the common public - all are responsible to realize this urgent need and work for a single cause of saving our livable and lovable planet from all natural hazards and disasters.

It is in this context, that the Civil Engineering Department of CBIT is planning to play its role by bringing all the relevant people nationally and internationally on to a common platform, deliberating on related issues of prime concern and designing an effective strategy for mitigating and managing natural disasters.

## OBJECTIVES //

1. To identify the processes and mechanisms that are degrading the micro and macro environments of the planet earth and are forming the root cause of these natural hazards and disasters.
2. To establish an approach for prediction of natural disasters by adopting rational concepts like probabilistic methods, with a reasonably high degree of certainty.
3. To determine the scope and possibility and to develop guidelines for proper instrumentation that can assist in the assessment, monitoring and management of natural hazards and disasters.
4. To draft recommendations for a global policy in saving the earth and its environment from natural hazards and disasters.
5. To formulate suggestions and recommendations to be incorporated in the relevant codes for assisting/ enforcing appropriate planning, analysis and design methodologies from the relevant professional groups in order to evolve a modes operandi for attacking this global problem, with a futuristic sense.

## THEMES //

1. **General:** Water and climate related hazards – soil related disasters – mine disasters - dam bursts and failures, - Biological disasters and epidemics – Chemical, industrial and nuclear related disasters- Blasts, fires, oil spills, bomb blasts - Electrical disasters – Mechanical disasters - Transportation disasters such as traffic disasters and other accident related disasters
2. **Environmental Disasters :** Impact assessment studies – computation and preparedness
3. **Structural Disasters :** Seismic hazards - Blasts and impacts - extreme loading structural vulnerability and performance studies - structural disasters - progressive collapse of structures - damage assessment - rehabilitation and retrofitting of structures.
4. **Computer applications:** Critical review and evaluation of the existing software-hazard assessment- GIS applications - modeling and simulation techniques-importance of virtual reality solutions
5. **Instrumentation :** Techniques and instruments for detection – sensors and other monitoring equipment – new materials in the design of monitoring equipment-vibration measurements- instrumentation for prediction, assessment and computation of natural disasters like tsunamis – data acquisition systems-equipment for NDT- equipment for damage assessment.



- 6. Disaster mitigation and management :** Necessity for a global policy – Governing and regulatory system for evolving and developing appropriate technology for disaster mitigation and management- role of disaster management teams- Importance of awareness, alertness and preparedness camps- economic and social policies- role of Governments

## CALL FOR PAPERS //

The Conference provides a platform for professionals, Scientists, managers, administrators, insurance executives, industrialists, builders as well as manufacturers to disseminate the information on various aspects related to the themes mentioned above.

Interesting and informative original papers, on any one of the themes with the stated objectives of the conference are invited from all the professionals, researchers, executives, administrators, scientists, managers and manufacturers.

## IMPORTANT DATES //

Last date for receipt of abstracts of not more than 500 words from prospective authors	:	1 <sup>st</sup> August, 2007
Intimation of acceptance of abstracts	:	10 <sup>th</sup> August, 2007
Last date for receipt of full length papers	:	1 <sup>st</sup> November , 2007
Intimation of acceptance of full length paper	:	10 <sup>th</sup> November, 2007

## DELEGATE FEE

### Paid before November, 2007

Indian Delegates	:	Rs. 3000
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### Student Delegates

Indian Delegates	:	Rs. 1500
Foreign Delegates	:	US \$ 50

### Paid after November, 2007

Indian Delegates	:	Rs. 3500
Foreign Delegates	:	US \$ 200
<b>Accompanying Spouse</b>		
Indian Delegates	:	Rs. 1500
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As the conference will be attended by professionals, Scientists, Administrators, executives, manufacturers and managers from various institutions and agencies, it will be rewarding to sponsor the conference and benefit the society.

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**INTERNATIONAL CONFERENCE ON  
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12 - 14 December**

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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY**

Gandipet, Hyderabad-500075, Andhra Pradesh, India.



## ABOUT HYDERABAD CITY

Hyderabad, the capital of Andhra Pradesh (India) is a bustling 500 year old metropolis, richly endowed with a variety of cultures. The city presents an attractive amalgam of old world charm together with the ebullience of growth and enterprise. Hyderabad is now rapidly transforming into a hub of information and construction technologies, with fast growing IT parks and skyscrapers in its suburbs.

The historic city of Hyderabad is well known for its minarets, pearls, Golconda Fort, Charminar built in the midst of old city of Hyderabad and numerous lakes such as Osman Sagar, Himayath Sagar and Hussain Sagar. The city has pleasant climate in December with day temperatures around 22°C and night temperatures of about 12°C.

