

## INTERNATIONAL CONFERENCE

ON

## WATER, ENVIRONMENT, ENERGY AND SOCIETY (WEES)-2007

18-21, December 2007,  
Roorkee, India



*Organized by:*



**NATIONAL INSTITUTE OF HYDROLOGY**  
Roorkee, INDIA



**TEXAS A & M UNIVERSITY**  
College Station, USA

## Background

Leonardo da Vinci termed water as the driver of nature. Water is vital to all forms of life and fundamental for environmental health and management. The importance of water varies with space and time. The role of water in the environment also depends on other conditions. Forests, pastures, agriculture, and urban areas each create different types of environment.

The approach for water resources development varies considerably from one type of environment to another. Many ills of water development programmes have their roots in inadequate appreciation of these differences and the employment of similar solutions for dissimilar environmental conditions. Water management in arid regions is different from the water management in humid areas.

Water is also an important source of energy. Living beings are energized when they consume water. Water falling under gravity turns the blades of turbine, which generate electrical energy. A main attraction of hydropower is based on the use of a renewable resource. Every source of energy generation has an associated environmental cost and a comparative evaluation of various sources is necessary to evolve the strategy to meet energy requirements while causing the minimum damage to the environment and society.

Although water is a renewable resource, availability of water for the society is limited. Consequently, there is a tremendous pressure on the available water resources due to increasing population and growing water consumption. In many mega-cities, people do not get an adequate amount of water to meet their daily needs and supplies are uncertain. Quality of drinking water is often poor, particularly during rainy season, leading to high incidence of water borne diseases. Also, the metropolitan cities have inadequate drainage networks which get choked frequently, resulting in water logging, disruption of traffic, and health hazards. Owing to indiscriminate abuse, many rivers have died and many others have become sewers because municipal and industrial waste is dumped in them with little or no treatment. In the future, considerably more water will be required for domestic, irrigation, hydropower and other uses. The need for better management of available water resources to meet the basic necessities for ever-increasing population and industrial activities and to provide hazard-free water for the society has never been more important. Importantly, many developing countries are facing similar problems to varying degrees. Does it reflect failure of policies? Or planning? Or is it sheer negligence?

To put it succinctly, we are facing increasing demand and uncertain supply of water, and are witnessing growing concern for protection from hydro-hazards. Policies for water management need to be critically re-examined and, if necessary, reformulated in view of the changing conditions. The health and economic effects of the shortage of freshwater are matters too serious to ignore. These issues need to be deliberated and discussed in a technical gathering and the proposed conference is an attempt in this direction. This conference is India's contribution to the Unesco-IHP-VII (2008-2013).

## Invitation

We invite experts, professionals, academicians, scientists, researchers, policy makers, managers, stakeholders and students to attend the conference and participate in the various deliberations. Prospective authors are invited to contribute technical papers on the theme of the conference.

## Dates and Venue

The conference will be held from December 18 to 21, 2007 at Roorkee, the hydrologic capital of India. Depending upon the response and interest, the post-conference tours will be planned from December 22-23, 2007 on payment basis.



National Institute of Hydrology  
Roorkee

The important dates for the conference are:

Last date for submission of extended abstracts:	January 31, 2007
Intimation of acceptance of abstracts:	March 31, 2007
Last date for submission of full papers:	June 30, 2007

Full length papers will be reviewed and the accepted papers will be published in proceedings by a reputed publisher. The proceedings will be given to registered delegates at the time of registration and will also be available for sale.

## Format for Extended Abstracts

The abstracts should contain the title of the paper, names of all the authors and full contact details of the corresponding author. The extended abstract should be between 300-400 words, neatly typed with 1.5 lines spacing in Times New Roman (MS-WORD Font Size 12 pt.)

## About Roorkee

Roorkee is a medium size town located near the foot-hills of Himalayas and is considered as the gateway to the Uttaranchal State. The town is located 180 km North of Delhi on Delhi-Haridwar/Dehradun highway. It is well connected by rail and road to many important cities of India. Roorkee is the nerve of water resource engineering education and research in India.



Upper Ganga Canal, Roorkee

It is the seat of the Indian Institute of Technology Roorkee, the Central Building Research Institute, the Irrigation Research Institute, and the Bengal Engineering Group and Centre. The religious places like Haridwar and Rishikesh; and tourist places like Dehradun and Mussoorie are located nearby.

During the month of December, weather in Roorkee is cold. The maximum and minimum temperatures are about 22°C and 7°C, respectively. Usually there are no rains during this month. The participants are advised to bring woollen clothing with them. At times, dense fog prevails in the morning.

## Registration

The registration fee for the conference will be as follows:

Indian delegates:	Rs.4000/-	Accompanying person:
Foreign delegates	US \$ 400	Indian: Rs.1500/-
(Early bird):	(To be paid by July 31, 2007)	Foreign: US \$ 150
Foreign delegates:	US \$ 450	
Students from India:	Rs. 2000/-	
Foreign students:	US \$ 200/-	

The mode of payment will be intimated in due course of time.

## Tentative Programme

Dec. 18, 2007	Dec. 19, 2007	Dec. 20, 2007	Dec. 21, 2007	Dec. 22-23, 2007
Inauguration Technical sessions	Technical sessions	Technical sessions	Technical sessions	Post – conference tours
Lunch	Lunch	Lunch	Lunch	
Technical sessions	Technical sessions	Technical sessions	Technical sessions Valedictory	
Banquet	Cultural Programme + Dinner	Dinner		

Parallel sessions will be organized depending upon the requirements. There will also be a few poster sessions. Depending upon the response from the participants, post-conference tours will be organized to the Himalayas and Taj Mahal. The cultural programmes will provide a glimpse of Indian dance, drama, and music.



Taj Mahal Agra

## Exhibition

Exhibition space will be provided to companies who want to display their products. The rates will be as follows:

Cubicle of 6ft\* 6ft Rates are under finalization

## Themes

### Water and environment

Hydrologic data and its management  
 Assessment of water resources  
 Hydrological prediction in ungauged basins  
 Ground water and vadose water  
 Water resources development, management and conservation.  
 Water resources management under uncertainty  
 Climate change and its impact on water resources



Environmental water requirements  
 Integrated watershed management  
 Pollution of water bodies and sanitation  
 Large-scale water transfer – hydrological, environmental, ecological, economic, and social dimensions  
 Implications of climate change on water resources, productivity, and water use.  
 Urban hydrology

### Water hazards

Floods  
 Droughts  
 Pollution  
 Erosion  
 Dam and levee breaching  
 Impact of hydro-hazards on society



### Water for energy

Hydropower development for energy security.  
 Hydropower generation – low, medium, and high head.  
 Alternative sources of energy  
 Environment and energy  
 Hydrologic design aids



### Water for other uses

Water for Irrigation  
 Water for Industry  
 Water for Rural development  
 Water for Ecosystem and forestry



### Water for society

Water demand management  
 Municipal water supply systems  
 Large-scale water transfer  
 Water and social health  
 Environmental health management

Private sector participation in water services  
 Water related disputes and mechanisms for resolution  
 Capacity building  
 Water policy analysis  
 Water politics, law, and public apathy  
 Economics of water resources projects.



in the field of hydrology. For details about NIH, please visit [www.nih.ernet.in](http://www.nih.ernet.in).

The Texas A & M University (TAMU), College Station, USA, will be a co-sponsor of this conference. TAMU is one of the largest and most comprehensive universities in the United States. It has the largest engineering college in the country and the largest agricultural college in the world. It also has a largest international program. TAMU has the distinction of a university wide hydrology graduate program. Further information about TAMU is available at [www.tamu.edu](http://www.tamu.edu).



*Williams Administration Building  
 Texas University*

## Conference Organization

An International Advisory Committee will steer the general direction of the conference and will offer advice on all relevant matters. This Committee is to assist with the development of the conference and making it a truly international forum. The committee members are:

Pradeep Agarwal, IAEA, Vienna	John Rodda, UK
Abdalla A. Ahmad, Sudan	Dan Rosbjerg, Denmark
Joseph Alcamo, Germany	Abdin Salih, UNESCO, Iran
Zahir Khalid Al-Sulaimani, Oman	Andreas Schumann, Germany
Lars Bengtsson, Sweden	Vladimir Smakhtin, Sri Lanka
Ashim Dasgupta, Thailand	Soroosh Sorooshian, USA
Mike Edmond, UK	Andreas Szollsi-Nagy, UNESCO
Larry Gough, USA	Kuniyoshi Takeuchi, Japan
Hoshin Vijai Gupta, USA	Avinash Tyagi, WMO
George Leavesley, USA	Howard Wheeler, UK
Massimo Menenti, Italy	Larry Winter, USA
Shaminder Puri, UNEP	

## Organizer: National Institute of Hydrology (NIH), India

NIH is the premier research institute of India in the field of hydrology and water resources development. It is an autonomous society under the Ministry of Water Resources, Govt. of India. The mandate of NIH is: to undertake aid, promote and coordinate systematic and scientific work in all aspects of hydrology; and to cooperate and collaborate with other national, foreign and international organizations



*NIH Auditorium*

## Sponsors

WEES 2007 will be sponsored by IHP Indian National Committee of Hydrology (INCOH), International Atomic Energy Agency (IAEA), Vienna; World Meteorological Organization (WMO), Switzerland; and International Association for Hydrological Sciences (IAHS). Efforts are being made to get sponsorship from many other reputed international and national organizations.

## Conference Secretariat

Co-Chairman: Dr K D Sharma, Director, National Institute of Hydrology, Roorkee, India.  
 Co-Chairman: Prof. V P Singh, Dept. of Biological and Agricultural Engineering, Texas A & M University, College Station, Texas, USA

Please address all correspondence to:

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 Dr. Pratap Singh, Joint Organizing Secretary, or  
 Dr. Ramakar Jha, Joint Organizing Secretary  
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 Roorkee- 247667 (Uttaranchal), India

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 Email: wees2007@gmail.com

The details of the conference are available at website [www.nih.ernet.in](http://www.nih.ernet.in). A new site for the conference is under development.

Further communication / referrals

*I would like / do not want* to receive further communication about this conference.

My contact details are:

Name:

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