

TRAINING COURSE

On

HYDROLOGICAL INVESTGATIONS FOR CONSERVATION AND MANAGEMENT OF LAKES

(1-3 March, 2011)

at
NIH, Roorkee



Organized by



National Institute of Hydrology
Roorkee - 247 667
(Uttarakhand)

INTRODUCTION

The increasing demand for fresh water due to ever growing population, calls for proper conservation and management of all the available fresh water resources, including lakes. Lakes need special attention as they are quite often the catalysts in the development of the region by supplying water for variety of uses such as drinking and civil water supply, industrial supply, irrigation, aqua-culture, recreation and tourism etc. However, many lakes are reported to have undergone quantitative and qualitative degradation in the last few decades. They are under increasing stress due to growing demands, urbanization and human interference in the catchments. Heavy sedimentation and siltation, organic pollution, eutrophication, reduced inflows etc. are some of the major problems which are common to most of the lakes. Many lakes are showing impact of elevated levels of pollution and nutrients, rendering their waters highly eutrophic and unsuitable for many a uses. Since behaviour of the lake ecosystem depends to a large extent on its hydrological regime, understanding the hydrological regime of the lakes is very significant to develop strategies for their conservation, management and rejuvenation.

OBJECTIVES

- To impart knowledge to the field engineers, officers, researchers, scientists, NGO's about the various hydrological process in the lake
- To acquaint the field engineers, officers, researchers and scientists with the latest approaches for monitoring and investigating the lake processes
- To share with the field engineers, officers, researchers, NGO's and scientists the experiences of lake research for developing strategies for lake conservation and management

COURSE CONTENT

The Training Course will consist of lectures by experts of Lake Hydrology from the National Institute of Hydrology, Roorkee and IIT, Roorkee. It is intended to cover the theoretical and practical aspects, case studies, tutorials, hands-on in laboratory etc. The course is intended to be interactive so that problems being experienced by the field organizations and academicians could be

shared and discussed. In general, following topics shall be covered in the course:

- Basics of lake hydrology
- Evaporation and water balance of lakes
- Water quality and eutrophication
- Lake sedimentation
- Hydro-geology of lakes
- Application of isotope techniques and Remote Sensing /GIS in lake studies
- Conservation and Management of lakes
- Case studies, tutorials & Laboratory work

WHO CAN PARTICIPATE?

The Training course is intended for engineers, scientists, research scholars, junior/middle level officers, managers, bureaucrats and policy makers of various organizations related to Water Resources, Environment, Irrigation, Public Health Engineering, Water Pollution Control, and other related Departments of Central and State Governments, Municipal Corporations/local bodies, Lake Development Authorities, Non-Governmental Organizations and all other agencies concerned with conservation, restoration and management of lakes.

REGISTRATION

There is no registration fee for the Training Course. Accommodation will be arranged on payment basis at NIH and IIT Roorkee guest houses. Participants will have to arrange for TA/DA from their own organization. It is intended to register only a limited number of participants for the course, on first come first served basis. The intending participants are, therefore, requested to register themselves early by filling and mailing the attached registration form, latest by 10th February, 2011.

DATE AND VENUE

The Training Course is proposed to be held at the National Institute of Hydrology, Roorkee during January 1-3 March, 2011. Roorkee is known as hub of water resources experts in India. Besides NIH, IIT Roorkee and UP Irrigation Research Institutes are contributing significantly to water resources development and management in India.

Roorkee is a medium size town located in Haridwar district of Uttarakhand, at about 170 kms from Delhi

and 90 kms from Dehradun. During the month of March daytime weather would be pleasant but evenings would be little cooler. Participants may need light warm clothes for the evenings.

ABOUT NIH

NIH is a premier research Institute of India in the field of hydrology. It is an autonomous society under the Ministry of Water Resources, Govt. of India. The main objectives of NIH are to undertake, aid, promote and coordinate systematic and scientific work in all aspects of hydrology. The Institute has six regional centres located at Belgaum, Guwahati, Jammu, Patna, Kakinada and Sagar. The institute frequently organizes a number of training courses on different aspects of hydrology at Roorkee and other places in India. The institute is well equipped with state of art laboratories and library. For more details about NIH, please visit www.nih.ernet.in.

COURSE COORDINATOR:

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