

Regional Training Workshop on
Factoring Environmental Flows into
Integrated Water Resources Management
Haridwar, Uttarakhand, India
6-11 December, 2012

ANNOUNCEMENT *and* CALL FOR APPLICATIONS



River Yamuna
downstream
Tajewala

Organised by the
National Institute of Ecology
125, (1st Floor), Main Road
Katwaria Sarai
New Delhi-110016 (India)

Jointly with the
Central Inland Fisheries Research Institute,
Barrackpore
and
SaciWaters, Hyderabad

Supported by
Cap-Net, Pretoria (South Africa)
(cap-net.org)



INTRODUCTION

The increasing and competing demands of water for agriculture, urban and industrial development, and hydropower generation, are being met by ever-growing storage, abstraction and diversion of river flows which have consequently resulted in many drastic changes in river morphology, riverine habitats, land use, water quality and biodiversity, especially the fisheries. These changes have seriously affected the livelihood and health of millions of people who depend upon the rivers and their resources, and caused large unestimated economic losses. The groundwater resources are getting rapidly depleted and the costs of wastewater treatment are rising. Assuming that benefits have accrued elsewhere in the form of increased agricultural production and energy for industrial production, these benefits have only reduced the social and economic equity while the total benefits have never been evaluated against the total losses (including the intangibles).

In this context, the need for **Environmental Flows** i.e., the flow regimes that are essential to sustain the ecological integrity of the riverine ecosystems, and their ecosystem services together with the human livelihoods as well as to ensure upstream-downstream, and intra- and intergenerational equity, has been widely recognised. However, in developing countries such as those of South Asia, the relationships between river flows and their ecosystem services, including biodiversity, fisheries, water quality, livelihoods and cultures have neither been investigated nor appreciated well by the water resource managers. Current emphasis on harnessing the huge hydropower potential of the rivers in the Himalayan belt has caused serious threat to the future of rivers and their ecosystem services. Numerous hydel projects are planned or are in different stages of development that will turn almost all rivers into a series of reservoirs interrupted by dry reaches. In India, the Ministry of Environment & Forests has taken cognizance of the issues and is seized of them at different levels.

It is necessary therefore that the water resource managers are sensitised and educated about the environmental flows, their importance and currently available methods for assessment and provision of environmental flows in their projects.

GOALS AND OBJECTIVES

The goal of the proposed Training Course is to educate the water resource managers (both researchers and practitioners) about (i) the importance of environmental flows in the broader framework of Aquatic Ecosystem Goods and Services, and (ii) the Approaches and Methods for EF assessments.

The specific objective of the Training Workshop is to bring together researchers in the field of river ecosystems and the water resource managers (from different disciplines) for intensive interaction on all scientific, socio-economic, policy and institutional issues concerning environmental flow and to discuss the requirements for assessment and implementation of the EF in water resource management projects. Another objective is to develop an outline of the course material on the subject that is appropriate for the region. The Training Course will include interactive discussion besides a series of lectures. Resource material will be provided.

STRUCTURE OF THE COURSE

The training course will include the following:

- a series of Lectures cover all aspects of EF, followed by interaction with the speaker
- presentation of examples and case studies for detailed discussion
- Interaction with participants of the Symposium
- Field visit to appreciate the importance of Flows/ impacts of lack of Flows

Training Module

Tentatively, the topics to be covered are;

- Introduction to river ecosystems and their good and services

- Impacts of flow alteration on river ecosystems
- The concept of Environmental Flows
- Economic, socio-cultural and livelihood impacts of flow alteration
- Methods of EF Assessment - Hydrological, Hydraulic, habitat Simulation and Holistic methods and their variants, with a discussion of their relative merits
- Case studies from the region

The training will comprise of

- * invited Lectures by experts on rivers and aquatic ecosystems, environmental flows,
- * Offered presentations and case studies from the region
- * Presentations from the trainee participants about their experiences
- * Field visit and discussion on the field observations

WHO SHOULD ATTEND?

The course is targeted at early to mid-career Professionals, Policy makers and Researchers (both Government and Corporate sectors) in the area of Water Resources Management. They include individuals responsible for preparing DPRs, designing and implementation of hydropower projects and other water resource development projects, environmental consultants engaged in the area; researchers and educators in the fields of river ecology and riverine fisheries, water resource engineering and IWRM, and NGOs,

GEOGRAPHIC COVERAGE

Individuals from all countries of South Asia are eligible for joining the Training Course. However, the number of trainee participants will be limited to 30 only.

DURATION

SIX days (including one day field visit)

THE VENUE

Gurukul Kangri University, Haridwar (Uttarakhand)

COURSE FEES

	Before 31 Oct.	After 1 Nov.
Indian participants	Rs 12,000	Rs 20,000
Overseas Participants	US\$ 250	US\$ 400

The Course Fee includes: Course material and Background documents, copies of presentations, field trip, lunch , tea/coffee during breaks;

The Fee does NOT include: Travel to the Venue & back (except field trip); Accommodation and meals other than specified above, and any other personal expenses.

HOTEL ACCOMMODATION

Hotels in different categories, close to the University, range from Rs 1500 (US\$ 30) to Rs 5000 (US\$ 100) per night. Details will be sent upon request. Accommodation will be booked only after receiving payment of one night charge in advance.

Payment:

Full payment of the course fee will be required in advance. It may be paid by direct Bank Transfer to the following account of the NIE:

Account Name	NATIONAL INSTITUTE OF ECOLOGY
Account Number	10596549740
Bank	STATE BANK OF INDIA
Branch	Jawaharlal Nehru University (Old Campus), New Delhi 67
IFS Code	SBIN0001624
SWIFT Code	SBININBB 548

HOW TO REACH HARIDWAR?

Haridwar is well connected by rail and road from Delhi. It is located on NH58 and there are direct trains from major Indian cities. It is also connected with Delhi by air via Dehradun ([Jolly Grant Airport](#), 35 km)

TRAINERS/RESOURCE PERSONS

Prof. Brij Gopal, Aquatic ecologist

Dr B.P. Das, ex-Chief Engineer, Orissa

Dr K.K. Vass, ex-Director, Central inland Fisheries Institute (ICAR)

Confirmation from other Resource Persons, incl. two from overseas, is awaited.

LAST DATE FOR APPLICATION

31 October 2012 (by email to nieindia@gmail.com)

LAST DATE FOR PAYMENT

15 November 2012

About the NIE (www.nieindia.org)

The NIE is an interdisciplinary professional association devoted to environmental conservation through education, research and management. It promotes all fields of ecology and environmental science through interactions between researchers from diverse disciplines natural and social sciences, engineering and medicine. (email : nieindia@gmail.com)

About SaciWATERS (www.saciwaters.org)

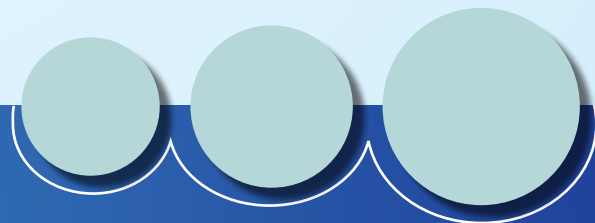
SaciWATERS (South Asia Consortium for Interdisciplinary Water Resources Studies) focuses on transforming water resources knowledge systems following an interdisciplinary approach to water resources issues, with emphasis on exchange, interaction and collaboration in South Asia.

ScaN is the South Asian network developed by SaciWATERS in partnership with CapNet. It is a platform for partnership for capacity building in Integrated Water Resources Management (IWRM) across South Asia.

Cap-Net (www.cap-net.org) is a UNDP's international project addressing capacity building for sustainable management and development of water resources.

About CIFRI, Barrackpore

The Central Inland Fisheries Research Institute (CIFRI), established in 1947, is the premier research institute in the field of inland fisheries research and training in India. It functions under the Indian Council of Agricultural Research.



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REGISTRATION FORM

Full Name (expand initials; underline family name/surname) _____

Date of birth _____ Gender _____

Full Official address _____

Full Home Address _____

Tel: _____ Mobile: _____ Fax _____

Email: _____

Educational qualification (Degree, Year, Univ.): _____

Present Position and Nature of Work _____

Experience in the area of Water Resources _____

Sponsoring Organisation/Institution _____

Endorsement by the sponsor (with seal) _____

To be completed by Overseas Participants (including Nepal and Bhutan):

Father's Name _____

Mother's Name _____

Spouse' Name _____

Spouse Nationality _____

Marital Status _____

Passport Number: _____

Issued by: _____

Issued on (date): _____ Valid up to (date) _____

PAYMENT DETAILS Payment will be due by: 10 November 2012

Transferred from (Bank _____ Branch _____

Date _____ Amount _____

Reference _____

To be sent to : National Institute of Ecology, 125, (1st Floor), Main Road, Katwaria Sarai, New Delhi-110016 (India)
email: nieindia@gmail.com