



23 - 25 NOV 2009

*International Conference
On*

**Water - Harvesting, Storage and Conservation
WHSC - 2009**

November 23 - 25, 2009

Sponsors



SWaRa



PACT-UPWSRP



WaterAid - India



WWF-India



MoEF



DDWS



CPCB



UPPCB



INDIAN INSTITUTE OF TECHNOLOGY
KANPUR

Organized by:



Indian Institute of Technology Kanpur (IITK)

Supported by:



The United Nations Children's Fund (UNICEF)

Preamble

The rapid growth in population together with the extension of irrigated agriculture and industrial development are putting stress on the natural ecosystems. Water is abundant in our planet but the amount of fresh water is limited. Nature does not give the liberty to pollute it. The water cycle on the Earth is essentially a closed system hence for a sustainable growth it is necessary to recycle the fresh water to make a balance between the supply and demand of fresh water and also preserve present water resources from getting polluted. There are several gaps in the available technologies and policies related to water management which includes both quantity and quality issues. For minimizing these gaps, issues related to water management must be addressed together by the scientists, technologists, policy makers, implementers, and the society at large. In this direction, IIT KANPUR is organizing an international conference to foster coordination amongst various stakeholders and bring together experts of national and international repute on the subject to share their knowledge and experience. **The three day conference is expected to pave way for producing compendium of technological options, policy guidelines and implementing mechanisms for water harvesting, storage and conservation.**

Objectives

WHSC-2009 is expected to immensely benefit technocrats, policy makers and implementers to attain global excellence. Main objectives of this conference are:

- ☞ To assess the significance of water harvesting, storage and conservation to meet international water stipulate.
- ☞ To assess challenges related to water harvesting, storage and conservation technologies.
- ☞ To engage stakeholder in issue-oriented discussion as to share experience and agree on a common plan of action.

Exclusive features

WHSC-2009 invites delegates and experts working in the area of water harvesting, storage and conservation from global institutes and industries to participate in this event. The conference aims at the synergy between Academics, Researchers, Industrialists, Policy-makers and Implementers. A special feature of the conference is to provide emphasis on discussing the specific tenets of water harvesting, storage and conservation. Hence, the technical sessions of the conference will feature key-note addresses and invited lectures from leading and eminent personalities in this field followed by plenary session. All the contributed papers will be included in the poster sessions. The conference organizing committee extends warmest welcome and invites you to participate or sponsor the conference and share the rich experience and benefit out of this global event.

Conference Theme

The conference aims to cover the following broad thematic blocks (but not limited to):

Policy Issues

- ☞ Regulatory requirements for rainwater harvesting
- ☞ Policy initiatives for rainwater harvesting in different states - Rural vs. Urban scenario
- ☞ Development of surface water bodies vis-à-vis groundwater recharge
- ☞ Water pollution – standards for disposal, reuse, recycle, recharge, harvesting and storage
- ☞ Water consumption for various uses – quality and quantity aspects
- ☞ Water conflicts

Technological Issues

- ☞ Rainwater harvesting techniques for different geo-hydro-thermo regions
- ☞ Risk management in rainwater harvesting
- ☞ Capacity assessment for rainwater harvesting
- ☞ Innovative water storage techniques
- ☞ Groundwater recharge
- ☞ Conventional water-borne sanitation system
- ☞ Water Storages and Wetlands

Planning and Implementation Issues

- ☞ Rainwater harvesting for climate change adaptation and energy saving
- ☞ Centralized vs. decentralized rainwater harvesting
- ☞ Water quality aspects in rainwater harvesting system
- ☞ Water quality management through rainwater harvesting
- ☞ Community participation in rainwater harvesting
- ☞ Natural water resources management
- ☞ Watershed management
- ☞ Water budgeting
- ☞ GIS for neighborhood-level analysis of rainwater catchment
- ☞ Wastewater management
- ☞ Wastewater reclamation, recycle and reuse
- ☞ Issues and challenges in dry sanitation
- ☞ Challenges in implementing ecological sanitation in developing countries

Conference Side Events

Following side events are being organized as part of WHSC-2009:

- ☞ November 24 2009: Workshop on 'Pollution Abatement in Ganga Basin: *Bioremediation Potential and Challenges*' by WWF India – *Living Ganga Programme*, IIT Kanpur and Kanpur Nagar Nigam
- ☞ November 25, 2009: Workshop on 'Sanitation Technologies' by UNICEF and IIT Kanpur

Registration and submission of abstracts

The registration for the conference is absolutely free. Delegates are requested to register online through the conference website and email the extended abstract to: whsc2009@iitk.ac.in. The extended abstract should be prepared using MS-Word strictly according to the Manuscript Template available in conference website and should not exceed 500 words. Corresponding author will be notified about the acceptance after critical review of extended abstract by a technical committee. Subsequently, the authors need to submit the soft version of full length paper and poster.

*On-Spot registration facility is not available.
English is the official language of the conference.*

Best poster awards

WHSC-2009 will present all new ideas, innovations, best practices/models/ experiments through poster presentations and thus poster sessions will be given prominence during the conference. Best poster awards will be given to promote and display of outstanding contributions in Water-Harvesting, Storage and Conservation. The presented posters will be reviewed by the technical committee and three best and attractive posters will be awarded in each of the three major themes.

Important dates

Commencement of registration & extended abstract submission:	10 September 09
Deadline for online registration (<i>for participation</i>):	10 November 09
Deadline for submission of extended abstract:	17 October 09
Notification of acceptance of extended abstracts:	20 October 09
Deadline of submission of full length papers:	10 November 09
Conference dates:	23 – 25 November 09

Accommodation

Accommodation in the Institute guesthouse is limited and could be made available to the registered delegates on first come first served basis. Organizers will extend the necessary assistance in securing suitable accommodation in nearby guesthouses and hotels on request by the registered delegates well in advance. List of hotels and tariffs are available in the conference website. The charges are to be borne by the delegates. For student delegates, the accommodation will be provided on campus at nominal charges.

Visa requirement

Foreign nationals who require a Visa to enter India must apply and obtain a Visa in advance at Indian Embassy before entering the country. A Visa is an endorsement in a passport or other recognized travel document of foreigner indicating that the holder has applied for permission to enter India and that permission has been granted.

How to reach IIT Kanpur

Air connectivity

Visitors coming over to Kanpur have to get down at Chaudhary Charan Singh International Airport, Lucknow, the capital of Uttar Pradesh, India. IIT Kanpur is located at a distance of about 100 km from the Lucknow Airport. Taxis are available from the airport taxi-stand. The time taken to reach IIT Kanpur is about 2-3 hours and the rates are about Rs 1000/- to Rs 1500/-.

Rail and road connectivity

Kanpur is connected by rail and road with the major cities in India. IIT Kanpur is located at a distance of about 15 km from the Kanpur Central Railway Station, in the vicinity of Kalyanpur, Kanpur. Taxis are available from the Platform No 1 side of the Kanpur Central Railway Station. There is a pre-paid auto and taxi booth. The rates are about Rs 200/- to 250/- for a taxi, and Rs 130/- for an auto-rickshaw. Local transport will be arranged if prior information is available.

Sponsorship, exhibition and souvenir

Sponsorship

S No	Sponsorship Category	Contributions	
		INR	USD
1	Co-sponsor	5,00,000	10,000
2	Technical session (<i>per session</i>)	1,00,000	2,000
3	Poster session (<i>per session</i>)	75,000	1,500
4	Conference dinner (<i>per day</i>)	60,000	1,200
5	Conference lunch (<i>per day</i>)	50,000	1,000
6	High tea (<i>per day</i>)	15,000	300

Exhibition:

Two booths	: Rs 30,000 (USD 600)
Single booth	: Rs 20,000 (USD 400)

Souvenir:

Outside back cover (color)	: Rs 50,000 (USD 1,000)
Inside front cover (color)	: Rs 30,000 (USD 600)
Inside back cover (color)	: Rs 20,000 (USD 400)
Full page (color)	: Rs 15,000 (USD 300)
Half page (color)	: Rs 10,000 (USD 200)
Full page (b/w)	: Rs 7,500 (USD 150)
Half page (b/w)	: Rs 5,000 (USD 100)

Sponsorship for conference bags: 500 Nos

Sponsorship for pen drive for conference proceedings: 500 Nos

Sponsorship for stationery items for conference: 500 Nos

The payments may be issued in the name of "WHSC-2009" payable at SBI-IIT Kanpur

Tentative list of sponsors

- ☞ The State Water Resources Agency (SWaRA), Lucknow, UP
- ☞ Uttar Pradesh Water Sector Restructuring Project (UPWSRP) , Lucknow, UP
- ☞ WaterAid, Lucknow
- ☞ World Wide Fund for Nature (WWF) – *Living Ganga Programme*
- ☞ Department of Drinking Water and Supply (DDWS), GoI
- ☞ Ministry of Environment and Forests (MoEF), GoI
- ☞ Central Pollution Control Board (CPCB), New Delhi
- ☞ Uttar Pradesh Pollution Control Board (UPPCB), Lucknow, UP

About IIT Kanpur

Indian Institute of Technology, Kanpur is one of the premier institutions established by the Government of India in 1959 and celebrating its Golden Jubilee from August 2009 to December 2010. The aim of the Institute is to provide meaningful education, to conduct original research of the highest standard and to provide leadership in technological innovation for the industrial growth of the country. IIT-Kanpur is located on the Grand Trunk Road, 15 km west of Kanpur City and measures close to 420 hectares. IIT Kanpur campus is one of the best places to stay with a lush green atmosphere and is planned and landscaped with a hope for environmental freedom. From its very inception, IIT Kanpur has been striving to develop itself into an institution of excellence in education and research in consonance with the contemporary and future needs of India. In meeting this challenge, the Institute has always been making special efforts to recruit talented faculty on a world-wide basis and to admit brilliant students from all over the country by a careful selection process. Continuous efforts have been made to provide the faculty with well-equipped facilities to enable them to participate in national endeavors in Science and Technology in a major way. In addition to offering formal Undergraduate and Post-graduate Programmes, the Institute has been involved in Continuing Education and Research & Development in areas of value to both the Industry and the Government. In a very short span, the Institute has attained recognition as a major centre of learning in Engineering, Science and several Inter-disciplinary Areas.

About UNICEF

UNICEF, the United Nations Children's Fund is the driving force that helps build a world where the rights of every child are realized and works for the Millennium Development Goals and for the progress promised in the United Nations Charter. UNICEF believes that nurturing and caring for children are the cornerstones of human progress. UNICEF was created with this purpose in mind to work with others to overcome the obstacles that poverty, violence, disease and discrimination plays in a child's path. UNICEF has the global authority to influence decision-makers, and the variety of partners at grassroots level to turn the most innovative ideas into reality. That makes UNICEF unique among world organizations, and unique among those working with the young. UNICEF works in 190 countries through country programmes and National Committees in order to: promote children welfare and girls' education, create protective environments for children, promote women empowerment, peace and security, and create the awareness of HIV/AIDS among young people. During the international year of sanitation, UNICEF promoted several novel experiments, helped nations develop their water and sanitation plans, and conducted several awareness programmes on water harvesting, storage, conservation and sanitation.

About SWaRA

State Water Resources Agency is an apex water institution of Government of Uttar Pradesh set up since 2001. The SWaRA has been equipped with multi-disciplinary experts and state of the art technology tools required for development of decision support system for planning efficient water use management. It aims to develop environmentally and socially sustainable inter-sectoral water allocation and optimal water resources management in a river basin context. SWaRA serves as the technical secretariat of the State Water Board and would act as technical secretariat of Uttar Pradesh Water Management and Regulatory Commission. The State Water Resources Data and Analysis Center is also established in SWaRA, which would function as data repository of all water and related statistics of Uttar Pradesh.

About UPWSRP

Uttar Pradesh Water Sector Restructuring Project (UPWSRP) has been initiated under irrigation department with the objectives: (a) to set up an enabling institutional and policy framework for water sector reform in the State for integrated water resources management; and (b) to initiate irrigation and drainage sub-sector reforms to increase and sustain water and agricultural productivity with World Bank financial assistance. The project is to be implemented from 12 to 15 years at the estimated cost of about \$1300 million. The key strategic choice made by the UPWSRP is to adopt a river basin development and management approach to address all issues related to water in an integrated, environmentally and socially sustainable framework and focus on the Ghagra-Gomti Basin covering about 80 lac ha area spread in 31 districts of the state. A multi-disciplinary Project Activity Core Team (PACT) has been established to coordinate the implementation, monitoring & evaluation, procurement and financial management of the project at Lucknow. The project interventions, during its first phase, has been piloted in Jaunpur branch sub basin area of Sarda Sahayak Canal System.

About WWF

WWF-India is one of the largest and most experienced conservation organizations in India engaged in nature conservation since 1969. A part of global WWF network, the organization has made its presence felt through a sustained effort of conservation and sensitizing people by creating awareness through capacity building and enviro-legal activism. WWF has been working towards conservation and wise management of river systems and wetlands in India and the areas concern have been freshwater ecosystems, connected habitats, freshwater species and balanced use of water resources for livelihoods. As the impact of climate change on freshwater ecosystems is heightened, the programmatic perspective of WWF has evolved and broadened to adapt and mitigate the impact of climate change on river and manage accordingly. Keeping this in view, WWF has developed a programme for the iconic river Ganga called as the "Living Ganga Programme".

WWF-India's Living Ganga Programme aims to develop and promote sustainable water management approaches, including maintaining environmental flows, which conserve bio-diversity and support live hoods taking into account the climate change.

WHSC-2009: Conference Program Template (Tentative)

Monday, November 23, 2009	Tuesday, November 24, 2009		Wednesday, November 25, 2009	
Reporting to Registration Desk and Collection of Conference Package (Outreach Audi) (8:30 – 9:45)	Reporting to Registration Desk and Collection of Conference Package (Outreach Audi) (9:00 – 9:30)		Reporting to Registration Desk and Collection of Conference Package (Outreach Audi) (9:00 – 9:30)	
Inaugural Function (Main Audi) (10:00 – 11:30)	Technical Session II (04 Invited Speakers) (Outreach) (9:30 – 11:00)	Side Event (Seminar Room I) (9:30 – 11:00)	Technical Session V (04 Invited Speakers) (Outreach) (9:30 – 11:00)	Workshop on <i>Sanitation Technologies</i> (Seminar Room I) (9:30 – 11:00)
Tea/Coffee Break (Outreach Audi) (11:30 – 12:00)	Tea/Coffee Break Poster Session II & Exhibition (Hall of Fame) (11:00 – 12:00)		Tea/Coffee Break Poster Session III & Exhibition (Hall of Fame) (11:00 – 12:00)	
Inauguration of Exhibition & Poster Session I (Hall of Fame) (12:00 – 13:00)	Technical Session III (04 Invited Speakers) (Outreach) (12:00 – 13:30)	Workshop on <i>Pollution Abatement in Ganga Basin: Bioremediation Potential and Challenges</i> (Seminar Room I) (12:00 – 13:30)	Technical Session VI (04 Invited Speakers) (Outreach) (12:00 – 13:30)	Workshop on <i>Sanitation Technologies</i> (Seminar Room I) (12:00 – 13:30)
Lunch (Students Activity Centre) (13:00 – 14:00)	Lunch (Students Activity Centre) (13:30 – 14:15)		Lunch (Students Activity Centre) (13:30 – 14:30)	
Technical Session I (04 Invited Speakers) (Outreach) (14:00 – 16:00)	Technical Session IV (04 Invited Speakers) (Outreach) (14:15 – 16:00)	Workshop on <i>Pollution Abatement in Ganga Basin: Bioremediation Potential and Challenges</i> (Seminar Room I) (14:15 – 16:00)	Working Group Meetings on Sub-themes over Tea/Coffee (Meeting Rooms) (14:30 – 15:15)	
Working Group Meetings on Sub-themes over Tea/Coffee (Meeting Rooms) (16:00 – 16:45)		Working Group Meetings on Sub-themes over Tea/Coffee (Meeting Rooms) (16:00 – 16:45)		Tea/Coffee Break (Outreach Audi) (16:00 – 16:15)
Plenary Session (<i>Policy</i>) (Outreach) (16:45 – 17:30)	Plenary Session (<i>Policy/Technology</i>) (Outreach) (16:45 – 17:30)		Valedictory Session (Outreach) (16:15 – 17:00)	
Dinner (Students Activity Centre @ 20:00)	Dinner (House # 645 @ 20:00)		High Tea (Students Activity Centre @ 17:00)	
Theme: <i>Policy</i>	Theme: <i>Policy / Technology</i>		Theme: <i>Planning & Implementation</i>	

Advisory Council

- Dr Sanjay Govind Dhande, Director, IIT Kanpur; Chairman
- Ms Adele Khudr, Chief-Programme Office, UNICEF-India; Member
- Mr Anurag Srivastava, IAS, Chairman PACT & Vice-Chairman, SWaRA; Member
- Mr S K Saxena, Chief Engineer, SWaRA & PACT; Member
- Dr Sejal Worah, Programme Director, WWF-India; Member
- Mr T M Vijay Bhaskar, Joint Secretary, DDWS, Ministry of Rural Development, GoI; Member
- Dr S P Gautam, Chairman, CPCB; Member
- Dr Vinod Tare, Professor, IIT Kanpur; Convener

Organizing Committee

- Dr Vinod Tare, IIT Kanpur; Chairman
- Mr Amit Mehrotra, UNICEF Lucknow; Co Chairman
- Mr Ravindra Kumar, SWaRA-Lucknow; Member
- Dr Suresh Kumar Rohilla, WWF-India; Member
- Mr Anand Shekhar, WaterAid-Lucknow; Member
- Mr Santosh Dwivedi, WaterAid-Lucknow; Member
- Mr D P Nigam, PACT - UPWSRP, Lucknow; Member
- Dr Nurul Hasan, PACT - UPWSRP, Lucknow; Member
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- Mr R S Sinha, SWaRA-Lucknow; Member
- Mr Jhonson Jeyaseelan, WaterAid-Lucknow; Member
- Mr Subrata Hait, IIT Kanpur; Secretary
- Mr Rakesh C Mishra, IIT Kanpur; Joint Secretary

