



FIRST INDIAN NATIONAL GROUNDWATER CONFERENCE (INGWC-2016)

on

**Sustainable Development and Management of
Groundwater Resources in Arid and Semi-Arid Regions**

October 5-7, 2016

Organized jointly
by

Centre for Water Resources, IST
Jawaharlal Nehru Technological University Hyderabad
Kukatpally, Hyderabad, Telangana State, India

and

Association of Global Groundwater Scientists (AGGS), India





ABOUT THE CONFERENCE

Groundwater resources in arid and semi-arid regions with limited renewable potential have to be managed judiciously to ensure adequate supplies of dependable quantity and quality of water. It is a natural resource with economic, strategic and environmental value, which is under stress due to both changing climatic and anthropogenic factors. Therefore the management strategies need to be aimed at sustenance of this limited resource particularly in the arid and semi-arid regions which are characterized by hard rocks.

Monitoring of water levels over the last four decades (since 1970 onwards) in many parts of India have provided a clear evidence of a long-term water-level decline due to increased groundwater abstraction. This has resulted in the deterioration of water quality and quantity resulting in widespread drying-up of wells. Deepening of wells does not appear to be a viable option as most of the wells have already penetrated the shallow weathered and fractured aquifer. Now the farmers are deepening their wells to tap water from sporadic deeper fractures and ending up with debt trap particularly from the monsoon influenced countries such as India and Africa.

Association of Global Groundwater Scientists (AGGS), India has so far organised 6 international groundwater conferences under the umbrella of IGWC and it is now extended its activities in organising national groundwater conferences in India. The first Indian National Groundwater Conference (INGWC-2016) with the main focus on "Sustainable Development and Management of Groundwater Resources in Arid and Semi-Arid Regions" will be organized at the Centre for Water resources, JNTUH, Hyderabad during October 5-7, 2016.

The present Conference is aimed to bring Scientists, Researchers, Students, Engineers, Water Resources Specialists, Government Administrators, NGOs and all those interested in groundwater and environmental problems to a common platform and offer the opportunity to exchange ideas, knowledge, experience, techniques and know how in various aspects of groundwater research carried out in the last few decades in India and elsewhere.

SCIENTIFIC THEMES FOR INGWC-2016

TS-1 Groundwater Assessment

- * Application of geophysical techniques in identification of ground water potential sites as well as artificial recharge sites in hard rock region
- * Role of Remote Sensing & Geographical Information System in groundwater resource assessment
- * Groundwater flow dynamics and characterization of aquifer parameters in crystalline and basaltic (hard rock) aquifer system

TS-2 Recharge Estimation Process and Augmentation of Groundwater Resources

- * Application of Isotope Techniques in Hydrology
- * Artificial recharge methods including Aquifer Storage and Recovery (ASR) for augmentation of groundwater resources to improve its quantity and quality and impact assessment of artificial recharge on environmental systems and managed aquifer recharge (MAR)

TS-3 Water and Environment

- * Soil water chemistry and its role in understanding the groundwater pollution migration
- * The impact of Fluoride and Arsenic contaminant in groundwater on the health aspect of mankind and the remedial measures to contain the fluoride and arsenic level
- * The quantity and quality aspect of groundwater resources due to over urbanization
- * The impact of climate change on groundwater resources

TS-4 Models and their Applications in Groundwater Assessment and Management

- * Unsaturated zone processes, flow, transport and reactive models.
- * Saturated groundwater flow and transport models
- * Benchmark computer codes to model reactive transport models (RTMs)

TS-5 Management Aspects

- * Mechanism to evolve water security in scarcity areas
- * Management Policy: Socioeconomic / Governance Challenges and opportunities
- * Ground water legislation

TS-6 Case studies

- * Case Studies of ground water in agricultural water supply in different geological terrains
- * Case Studies of ground water in urban water supply
- * Case Studies of ground water in rural water supply

Call for Papers:

JNTUH and AGGS jointly invite you to Hyderabad during October 5-7, 2016 and present your work either through oral or poster presentation. All abstracts (in duplicate) not exceeding 250 words should reach to Prof. B. Venkateswara Rao, Centre for Water Resources, JNTU, Hyderabad at cwr_jntu@yahoo.com and a copy to Dr. M. Thanagarajan, Conference Coordinator at karvimrajan@gmail.com and also to Prof. C. Mayilswami, Technical Programme Manager at ceemayil@gmail.com on or before 31st MAY 2016. Abstracts will be reviewed by the Scientific Programme Committee on the basis of scope / theme of INGWC-2016 and will be classified as ORAL or POSTER presentation. Acceptance will be communicated by 30th June 2016.

Authors will have to submit full manuscripts of the paper(s) (with original figures, if any) to the Conference Secretariat by 31st July, 2016. Necessary instructions regarding preparation of the manuscript(s) will be sent along with the acceptance and author(s) are requested to submit the final text in electronic form (CD).

Accompanied Persons Programme:

Accompanied persons will be taken daily to city for shopping and local sight-seeing purpose on self sponsored basis.

Visit to Nagarjuna Sagar or Srisailem / Waranagal (Optional and paid tours)

A tour will be arranged to the delicatés and accompanied persons to either one of the sites namely Nagarjuna Sagar, Srisailem and Waranagal on October 8, 2016 based on the response of the number of participants. The cost of the tour will be intimated at the registration desk and it should be paid at least one day in advance.



About the Historical City, Hyderabad

Hyderabad, a city more than 400-years old is the capital for the state of Telangana and Andhra Pradesh in South India. The city presents an attractive amalgamation of ancient architecture, together with the ebullience of growth and enterprises of the modern world. Hyderabad, often called the Gateway of the South, blends the north and south Indian identities. Hyderabad is famous for its minarets and its pearl bazaar apart from buzzing software industry. Hyderabad is at an altitude of 536 m above Mean Sea Level and is a seat of a number of Research and Development Organizations of national and international importance besides being a host for half a dozen Universities. The venue of the Conference is at the auditorium of UGC academic staff collage, Jawaharlal Nehru Technological University Hyderabad, Kukatpally Hyderabad-500085. Important places of interest for visitors are Charminar, Golkonda Fort, Birla Mandir, Falaknuma palace, Salar jung Museum, Hussain Sagar Lake and Ramoji film city.

About the Association of Global Groundwater Scientists (AGGS)

Many groundwater professionals in India and elsewhere believe that sharing knowledge and experience on groundwater matters on a worldwide scale is an effective strategy to identify and promote optimal approaches to the assessment, development and management of groundwater resources. This is what the Association of Global Groundwater Scientists (AGGS) intends to do by organizing seminars/symposia at various centres in India and in the neighbouring countries viz. Bangladesh, Sri Lanka, Pakistan, Nepal and Bhutan and publishing proceeding volumes and new findings among congress members. It will also play a partner role along with other International Associations viz., IAHS & IAH in organising international events in other developing countries as well as SAARC countries.

The idea on the formulation of this congress was crystallized by groundwater scientists and engineers who attended the earlier five international groundwater conferences (IGWC) held at Dindigul in Tamil Nadu during February 02, at JNU in New Delhi during 06, at TNAU, Coimbatore during February 07, Madurai during September 2011, Aurangabad during December, 2012.

AGGS felt to have an Indian national seminar series in every alternate year under the umbrella of Indian National Groundwater Conference (INGWC) and the first one is being planned at JNTU, Hyderabad during October 5-7, 2016.

About the Host Department- Centre for Water Resources, IST, JNT University Hyderabad

The Centre for Water Resources (CWR) which forms a part of the Institute of Science and Technology, JNT University, Hyderabad was established in the year 1984 with the funding from the then Ministry of Education and Culture, Government of India to impart training in the management of water resources at an advanced level and to undertake research and developmental activities in the field of Water, Land and Environmental Management and other related areas. Since then the Centre has acquired a reputation among user agencies like State and Central Government Departments and other public sector and private organizations as an apex body for imparting training and undertaking field oriented research projects in Water, Land and Environmental Management. In the past decade the activities of the centre has been greatly



diversified and is concentrated on Water, land and Environment for sustainable development. Central Public Health and Environmental Engineering Organization has recognized this centre as one of the renowned institute offering P.G. courses in Water and Environment. The centre is funded by the World Bank under Technical Education Quality Improvement Programme (TEQIP) and established well equipped laboratories. Research projects were taken up in many areas of Water Resources and Environment at National and International levels. Many National and International conferences were also conducted by the centre, notable among them is ICHWAM (International Conference on Hydrology and Watershed Management) series which is being conducted for every four years.

Possible Sponsors of the Program from India

- * Department of Science & Technology (DST) under Ministry of Science & Technology, New Delhi
- * Ministry of Environment & Forest (MEF), Govt. of India
- * Ministry of Earth Sciences, Govt. of India
- * Ministry of Water Resources, Govt. of India
- * Council of Scientific & Industrial Research (CSIR) under Ministry of Science & Technology, (GOI)
- * University Grants Commission (UGC) under Ministry of Human Resources (GOI)
- * Rajiv Gandhi National Drinking Water Mission (RGNDWM), Ministry of Rural Development, GOI, New Delhi
- * IHCAP, Swiss Embassy, New Delhi
- * USAID
- * Norway Embassy, India
- * Technical Education Quality Improvement Programme (TEQIP)-Phase-II, IST, JNTUH

Possible Co-sponsors of the program:

- * Indian National Science Academy (INSA), New Delhi
- * National Geophysical Research Institute
- * National Remote Sensing Centre (NRSC), Hyderabad
- * Central Pollution Control Board (CPCB), New Delhi
- * CGWB, New Delhi
- * NABARD, Mumbai
- * Association of Geologists and Hydrogeologists Forum of Maharashtra (GEOFORUM), Aurangabad, India
- * Indian National Committee on Hydrology (INCOH), NIH, Roorkee
- * Association of Global Groundwater Scientists (AGGS), Coimbatore, India
- * AIMIL India Pvt. Ltd, New Delhi
- * ABEM India Pvt. Ltd. New Delhi
- * Swan Environment Pvt. Ltd Hyderabad
- * IGIS Pvt. Ltd. Hyderabad.
- * Aditi Ifo - Tech Pvt. Ltd



REGISTRATION FEE

All participants have to pay the Registration Fee paid through DD drawn in favour of the Convenor, INGWC-2016 payable at Hyderabad, India and post it to Prof. B.Venkateswara Rao, Convener, INGWC-2016, Centre for Water Resources, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad, Kukatpally, Hyderabad -500085, India on or before 31st May 2016. Otherwise one has to pay extra Rs 500 as late fee for Indian and SAARC participants and US \$ 50 for foreign participants.

Delegate	Rs.3000/- or US \$300/- *
Research Scholar	Rs.1500/- or US \$150/- *
Student	Rs.1000/- or US \$100/- #
Accompanying Person	Rs.1000/- or US \$125/- (for each person) @

Note: All foreign participants have to pay the Registration fee in US Dollars only

* Includes registration materials, working lunch, conference dinner, tea.

Only proceedings, working lunch, conf. dinner, tea.

@ Only working lunch, conf. dinner, tea.

Pre-Registration Form for INGWC-2016

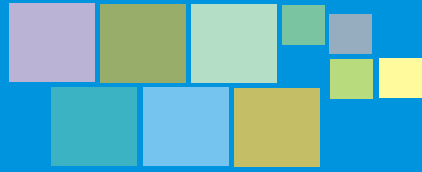
First Indian National Groundwater Conference (INGWC-2016), Hyderabad, October 5-7, 2016

DELEGATE INFORMATION

Title (Prof/Dr/Mr/Mrs)	Give name (for badge)	
Family Name		
Position		
Address (with PIN)		
Telephone (Off)		(Res)
FAX		
e-mail		
Name(s) of accompanying person(s), if any		
Are you (i) contributing a paper	--	YES / No
(ii) attending INGWC-2016	--	YES / No

ACCOMMODATION

The participant(s) will be accommodated in hotels and university guest house on payment basis. Delegates are requested to send their accommodation requirements well in advance to Dr.M.V.S.S.Giridhar, Organizing secretary(INGWC-2016) and Head Centre for Water resources, JNTUH Hyderabad, India, Email:mvssgiridhar@gmail.com, Phone: +91944090695



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