



Fifth International Groundwater Conference (IGWC-2012)

on
**The Assessment and Management of Groundwater Resources in Hard Rock Systems
with Special Reference to Basaltic Terrain**

at
**Aurangabad, Maharashtra, India
(December 18-21, 2012)**



• **Jointly Organized by** •
**Maulana Azad College of Arts, Science & Commerce,
Dr. Rafiq Zakaria Campus, Aurangabad, 431001
Maharashtra, India**
**Association of Geologists and Hydrogeologists,
(GEOFORUM) Maharashtra, India**

- **In Possible collaboration with**
Groundwater Survey & Development Agency (GSDA), Govt. of Maharashtra, India
UNICEF, New Delhi, India
UNESCO, New Delhi, India
International Association of Hydrological Sciences (IAHS), France
International Association of Hydrogeologists (IAH), UK
and
International Ground Water Congress (IGWC), India

About the Conference

Groundwater resources in hard rock regions with limited renewable potential have to be managed judiciously to ensure adequate supplies of dependable quantity and quality. It is a natural resource with economic, strategic and environmental value, which is under stress both due to changing climatic and anthropogenic factors. Therefore the management strategies need to be aimed at sustenance of this limited resource. In India, and also elsewhere in the world major parts of the semi-arid regions are characterized by hard rocks and it is of vital importance to understand the nature of the aquifer systems and its current stress conditions. Though the achievements through scientific development in exploration and exploitation are commendable, it has adversely affected the hard rock aquifer system, both in terms of quantity and quality; which is of major concern today. In order to reverse the situation, better management strategy of groundwater resources needs to be devised for prevention of further degradation of quality and meeting out the future demand of quantity. This necessitates:

- Understanding the flow mechanism, evaluating the potential and evolving optimal utilization schemes, and
- Assessing and monitoring quality in the changing scenario of anthropogenically induced agricultural, urban, industrial and climatic change.

The groundwater flow mechanism through fractures in hard rocks is yet to be fully understood in terms of fracture geometry and its relation to groundwater flow. The characterization of flow geometry in basaltic aquifer is yet to be fully explored.

Groundwater pollution due to anthropogenic factors is very slow process with long-term impacts on carbon cycle and global climatic change on one hand and quality on the other. It is generally recognized that the prevention of groundwater pollution is cheaper than its remedial measures in the long run. Furthermore, because of the nature of groundwater flow and the complexity and management uncertainty of many contaminant processes, a precautionary approach should generally be adopted for the groundwater resources. Such an approach is always aimed to avert danger or at least minimize the risk of groundwater pollution and promote protection of its quality. Taking in view of the above, the Fifth International Ground Water Conference (IGWC-2012) is planned during December 18-21, 2012 at Aurangabad in Maharashtra. Dr. M. Thangarajan had successfully organized the First International Groundwater Conference (IGWC-2002) at Dindigul, Tamil Nadu and served as conference co-coordinator of IGWC-2006 at JNU, New Delhi & IGWC-2007 at TNAU, Coimbatore, and IGWC-2011 at Madurai. He is now the Advisor cum Conference Coordinator of IGWC-2012.

- The main emphasis in organizing such an International Conference is on the outcome of deliberations of the conference which could reach the users, who are facing the problems due to groundwater shortage and quality deterioration.

Themes For IGWC - 2012

TS - 1: Resources Assessment and Aquifer characterization

- Application of RS-GIS in groundwater resource assessment, development and management
- Modern trends in delineation of fracture geometry/polluted zones, aquifer boundaries & identification of potential bore holes through geophysical techniques
- Groundwater flow dynamics and characterization of aquifer parameters in crystalline and basaltic (hard rock) aquifer system
- Information Technology in the assessment and management of groundwater resources

TS - 2: Recharge Estimation Process and Augmentation

- Role of isotope techniques in rainfall recharge estimation process
- Artificial recharge methods including aquifer storage and recovery (ASR) for augmentation of groundwater resources
- The impact of induced recharge on groundwater quality
- Conjunctive use of surface and groundwater for optimal exploitation

TS - 3: Agriculture stress and water management

- Impact of human activities and climate change on the cropping pattern and the socio- economic conditions of rural poor and its remedial measures
- Drip irrigation to ensure security of water in impoverished area
- Optimal cropping pattern for sustainable development and management of groundwater resources

TS - 4: Water and Environment

- Soil water chemistry and its role in understanding the groundwater pollution and its migration
- The impact of Fluoride and Arsenic contaminant in groundwater on the human health & the remedial measures to contain the fluoride and arsenic level
- The quantity and quality aspect of groundwater resources due to over urbanization
- Disposal measures for domestic, industrial and nuclear wastes
- Mitigation against pollutant migration in groundwater

TS - 5: Models and its Application in groundwater management

- Issues and challenges in understanding the flow dynamics and modeling of basaltic aquifer
- Modeling of groundwater flow and mass transport including nucleoide migration for the effective management of groundwater resources in hard rock and coastal aquifer systems
- Issues, challenges and perspectives in model calibration, validation, prediction and post audit
- Conceptual tools, modeling and strategies for rational and environmentally sustainable exploitation of springs fed by hard rock aquifers

TS - 6: Management Aspects

- Problems and challenges in quantification of water demand and its pricing for effective management
- Mechanism to evolve water security in scarcity area
- Role of NGO's and Sociologists in creating awareness among user community on the sustainable development and management of groundwater resources
- Integrated practices and approach for water management in India.

About Abstract Submission

Abstracts pertaining to the above themes are accepted. All abstracts not exceeding 250 words (in duplicate) should reach **Dr. P. S. Kulkarni** psk12015@yahoo.co.in, Prof. and Head, Dept. of Geology), Organizing Secretary, IGWC-2012, Conference Secretariat, Department of Geology, Maulana Azad College of Arts & Science, Aurangabad-431001, Maharashtra, India & / or **Dr. M. Thangrajan**, Conference Coordinator karvimrajan@gmail.com &/or **Dr. P. Prabhakar**, geoprabhakar@gmail.com on or before **February 15, 2012**. Abstracts will be reviewed by the Scientific Review Committee on the basis of Scope / Theme of IGWC-2012 and will be classified as ORAL or POSTER presentation. Acceptance will be communicated by April 15, 2012.

Authors will have to submit full manuscript of the paper(s) (with original figures, if any) to the Conference Secretariat by July 31, 2012. 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).

Feel free to contact any of the following two persons for further clarifications, if any, on

E-mail : psk120154@yahoo.co.in – Dr. Praksh Kulkarni
karvimrajan@gmail.com – Dr. M. Thangarajan
Phones : +91-240-2392580 (Dr. Prakash Kulkarni)
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Tele Fax : +91-240-2381102 (Maulana Azad College)

We are planning to have one day pre-conference workshop with the sponsorship of International Association of Hydrogeologists (IAH) on “**Managing Aquifer Recharge**”. Dr. Peter Dillon of CSIRO, Australia will conduct the workshop if it is materialized. The workshop schedule will be announced at later stage.

Important Dates

- 1) Abstract Submission on or before Jan., 31, 2012.
- 2) Delivery of Abstract Acceptance Letter Feb., 28, 2012.
- 3) Manuscript Submission (Full Text) on or before July, 31, 2012.
- 4) Request for Accommodation on or before July, 31, 2012.
- 5) Registration Fee on or before October, 1, 2012
- 6) I.G.W.C. 2012 December 18 - 21, 2012

About the Venue – Aurangabad

Aurangabad city is located in Maharashtra State (India) and is about 405 km north-east of Mumbai City. The city derived its name from the late Mughal Emperor Aurangzeb. The city was the second capital of Mughal Empire during Aurangzeb's time. Now it is the district capital of Aurangabad. There are quite good number of educational institutions in and around the city. The city is well connected by rail, road and also by air from Mumbai and New Delhi. There are a number of tourist places which can be reached easily from Aurangabad city.



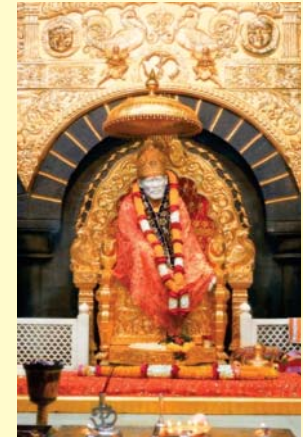
Ground Water - Nurture for Prosperity - Save for Posterity.

Important tourist places around Aurangabad:



Painting at Ajantha Caves

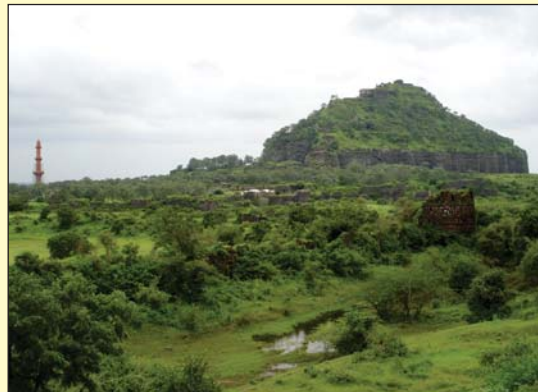
Ajantha caves	105 km
Ellora caves	27 km
Daulatabad fort	15 km
Bibi-ka Makbara	3 km
Khuldabad (Tomb of Aurangzeb)	13 km
Panchakki	4 km
Shirdi Sai Temple	120 km
Nanded (Sikhs Pilgrimage center)	280 km



Shri Sai Idol at Shirdi



Bibi-ka-Makbara
(Replica of Tajmahal at Agra)



Panoramic view of Daulatabad Fort



Kailash Temple at Ellora Caves

About the Host Institute

Maulana Azad College of Arts, Science and Commerce Dr.Rafiq Zakaria Campus

Rauza Bagh with its glorious past was home to Aurangzeb's teacher Peer Ismail's Madarassa, where the royal Moghul princes learned Arabic and Persian. This historical campus was in a state of ruins before the late visionary Hon'ble Founder Chairman and President of this Campus, Dr. Rafiq Zakaria discovered it and envisioned a centre of learning at the site of this legendary seat of knowledge.

Dr. Rafiq Zakaria started the Maulana Azad College of Arts, Science & Commerce in 1963. It has been awarded the 'A' grade by the NAAC. With the passage of time the College grew from strength to strength with new courses and disciplines with each academic cycle. The campus now houses many prestigious professional institutes as well. It is a large and beautiful campus with Mughal architecture where a pleasing blend of medieval and modern structures coexists in harmony. A Centre of Higher learning started in 2007, which incorporates postgraduate and self designed courses and is the epicenter of research.



Today Dr. Rafiq Zakaria Campus upholds the values of its illustrious Founder Chairman and is at its creative best having been acknowledged as the best campus in the state. It has as many as 12000 boys and girls of diverse castes, classes, creed and religions. who learn science, technology, modern languages and arts and the campus has become a symbol of quality education. During the year 2013, the college will celebrate its golden jubilee.

Ground Water - Nurture for Prosperity - Save for Posterity.

About Geology Department & Geoforum

GEOLOGY DEPARTMENT

The Department of Geology is offering undergraduate programme in Geology and Post Graduate Diploma in Drilling Technology. The Department is recognized as Research a Centre in Geology by the University. Many who got graduated took Masters here or elsewhere and returned back in and around Aurangabad District and working in Groundwater Resources Assessment and Management in Basaltic Terrain.

GEOFORUM

The Association of Geologists and Hydrogeologists (GEOFORUM) is a pioneer organization which is purely academic and voluntary, established by Geologists and Hydrogeologists who are mainly engaged in solving water scarcity related problems, research activities thereto and social upliftment through natural resources management. Since its inception in the year 2003, Geoforum has been progressing by leaps and bounds so much so that at present it has enrolled as many as 250 members from various disciplines.

FACILITIES FOR THE CONFERENCE :

The Arts and Science college has 4 Seminar halls under one roof and each hall can accommodate about 100 participants. It is proposed to have 4 parallel sessions at a time. Hotel Taj Residency (5 Star) is situated in the campus which would be used for the Inaugural function and an auditorium in the campus could be used for the proposed cultural program etc.

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Possible Sponsors of the Program

FROM INDIA

- Department of Science & Technology (DST) under Ministry of Science & Technology, New Delhi
- Ministry of Environment & Forest (MOEF), Govt. of India
- Ministry of Earth Sciences, Govt. of India
- Ministry of Water Resources, Govt. of India
- Government of Maharashtra
- Council of Scientific & Industrial Research (CSIR) under Ministry of Science & Technology, (Govt of India).
- University Grants Commission (UGC) New Delhi, under Ministry of Human Resources, (GOI)
- Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India
- Rajiv Gandhi National Drinking Water Mission (RGNDWM), Ministry of Rural Development, GOI, New Delhi
- Central Water Power Research Station, Pune
- Bhabha Atomic Research Center, Mumbai
- Department of Water Resources, Govt. of Maharashtra
- UNICEF, India
- UNESCO, New Delhi
- Maulana Azad Educational Trust, Aurangabad (Host institute)

FROM Foreign Countries

- The Japan International Co-operative Agency (JICA), Japan
- Australian International Development Agency (AIDA), Australia
- Swedish International Development Agency, Stockholm, Sweden
- Danish Agency for International Development
- Indo-US Science & Technology Forum
- British Council, Mumbai
- International Association of Hydrological Sciences (IAHS), USA
- International Association of Hydrologists (IAH), UK
- BRGM, Paris, France

Co-Sponsors

- National Geophysical Research Institute (NGRI), Hyderabad
- Indian National Science Academy (INSA), New Delhi
- National Remote Sensing Centre (NRSC), Hyderabad
- Central Pollution Control Board (CPCB), New Delhi
- Central Ground Water Board, New Delhi
- NABARD, Mumbai
- Pepsico, Aurangabad
- Reliance Industries, Mumbai
- Municipal Corporation, Aurangabad
- IWMI-TATA Policy Research, Patancheru, Hyderabad
- Indian National Committee on Hydrology (INCOH), NIH, Roorkee
- Infosys Group • Reliance Group
- Tata Group • Birla Group
- Mittal Group

Pre-Registration Form for IGWC-2012

International Ground Water Conference, Aurangabad, Maharashtra, India, 18-21, December 2012

DELEGATE INFORMATION

Title (Prof/Dr/Mr/Mrs)	Give Name (for badge)
Family Name	
Position	
Address with PIN	
Telephone (Off)	Resi.
FAX	E-mail
Name (s) of accompanying person (s), if any	
Attending IGWC-2012 --- YES / NO	
Contributing a paper --- YES / NO	

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Only the delegates, who send duly filled Pre-Registration form shall be on our mailing list for further correspondence

Registration Fee

Note : All Foreign participants have to pay the Registration Fee in US dollars only. Registration fee should be paid through DD drawn in favor of Organizing Secretary, IGWC 2012, payable at Aurangabad and sent to Conference Secretariat, IGWC-2012, Maulana Azad College of Arts & Science, Aurangabad-431001, Maharashtra, India on or before **1st October, 2012**. Otherwise one has to pay extra Rs 500 as late fee for Indian and SAARC participants and US \$ 50 for foreign participants.

Delegate	Rs. 4000/- or US \$ 400/-*
Research Scholar	Rs. 2000/- or US \$ 200/-#
Student	Rs. 1250/- or US \$ 125/-#
Accompanying Person	Rs. 1250/- or US \$ 125/-* (For each person) @

* Includes registration material, working lunch, conference dinner & tea.

Only Abstract Volume, working lunch, conference dinner & tea.

@ Only working lunch, conference dinner & tea.

Mail to : Conference Secretariat, IGWC-2012, Maulana Azaad College of Arts & Science,
Auranagbad-431001, Maharashtra, India
Ph: +91-240-2392580; E-mail: psk120154@yahoo.co.in and or karvimrajan@gmail.com

Accommodation

The participant(s) will be accommodated in hotels on payment basis. Delegates are requested to confirm their accommodation requirements well in advance. The tariff of the various hotels located in Aurangabad is given below.

Request For Hotel Accommodation

IGWC-2012, Aurangabad, December 18-21, 2012

1. Name (in BLOCK Letters)	Hotel Category	Tariff (Rs.) Per Day		Your Choice	
		Single	Double	Single	Double
2. Contact Address	'A' (Luxury AC)	6000	8000		
Phone	'B' (Delux AC)	3500	5000		
E-mail	'C' (AC)	2000	2500		
3. Passport Details (for foreign delegates)	'D' (Delux Non AC)	1500	2000		
4. Accommodation required	'E' (Non-AC)	1000	1500		
5. Category	'F' (For Student Non AC)	750	1200		

Deposit for accommodation is enclosed : One Day Tariff is enclosed
(in the form of a DD drawn in favor of Conference Secretariat, IGWC-2012 and payable at Aurangabad, Maharashtra India)

DD No. _____ Drawee Bank _____ Date _____ Amount _____

Note: Hotel reservations cannot be confirmed until we have received your booking money.

Your request in the above format along with the amount through DD may be sent to latest by 31st July 2012 to

Dr. P.S. Kulkarni

Organizing Secretary (IGWC 2012)

Maulana Azad College of Arts & Science, Aurangabad-431001, India

E-mail: psk120154@yahoo.co.in

Organizing Committee

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