



National Workshop

GROUND WATER CHALLENGES IN HARD ROCK AREAS

9th Sept, 2017

Organized by
INC of IAH
An Indian Chapter of
International Association of Hydrogeologists, Faridabad
In Association with
SOS Geology, Pt. Ravishankar Shukla University, Raipur

Venue
Pt. Ravishankar Shukla University
Raipur, Chhattisgarh, India

Preamble

International Association of Hydrogeologists (IAH) is providing a platform for the ground water professionals, academicians and researchers to exchange their views since 1956. With its widespread network of over 40 National Chapters operating in different countries across the globe, members of IAH are sharing the scientific knowledge and current advances in the domain of ground water. The Indian Chapter of IAH (INC-IAH) was established in 1984. The INC of IAH with its present body have made sincere efforts in organizing various scientific activities and promoted education, communication and training in groundwater.

In this series it has been decided that INC of IAH will organise a National Workshop on “**Groundwater Challenges in Hard Rock Areas**” in association with SOS in Geology, Pt Ravishankar Shukla University, Raipur realizing the importance of ground water issues in hard rock terrain regarding to water security in India as well as in world. In the hard rock terrain, groundwater development may be primarily restricted to the aquifer in the weathered overburden or complemented by fractured crystalline rocks below. The concealed basement rocks may contain faulted areas, incipient joints and fractured systems derived from earlier tectonic events. The delineation of these hydrogeologic structures may facilitate the location of groundwater prospect zones in typical basement settings. Fractured bedrocks remain good sources for drinkable water but locating of productive wells in these rock units remains a challenging and expensive task because fractured developments on regional scale are both heterogeneous and anisotropic. Also fractured aquifers wholly within the bedrock are of rare occurrence because of the typically low storability of fracture systems. The availability of groundwater in these aforementioned rocks is largely due to the development of secondary porosity and permeability resulting from weathering and fracturing. In a typical hard rock setting, the geological stratification normally encountered consists of a hard rock basement overlain by variably thick unconsolidated materials referred to as the overburden or the regolith. The overburden is further stratified into zones of aeration and saturation, separated by the water table. India having almost 70% area covered under hard rock formations, therefore India's water securities largely depend on groundwater in hard rock areas. Chhattisgarh is having Achaean to Cretaceous hard rock formations, therefore preferred as suitable State to host this national workshop.

Objective

The objective of this one day workshop is to create a platform for interactions amongst different stakeholders like Government organizations, Academicians, Research Institutes, industries, NGOs, Voluntary organizations, Individuals, to express their views and experiences on “**Groundwater Challenges in Hard Rock Areas**” and better understand the hard rock areas. The workshop will provide an ideal platform and opportunity to the water fraternity to deliberate and interact with the experts and stakeholders on this workshop.

Important dates of Paper submission

- Submission of Abstracts- **31st July 2017**
- Intimation of acceptance of abstracts- **5th August 2017**
- Submission of Full paper- **15th Aug 2017**

The abstract should not exceed 350 words. The full paper should include Title, Authors affiliation, abstract, 5 key words and full paper content in MS Word. The full paper is to be kept within 10 pages. The submission of paper is only through e-mail- **arunmuk102@gmail.com**

Theme

The theme of the workshop is “**Groundwater Challenges in Hard Rock Areas**”.

The Sub themes are:-

- Future Water Challenges in Hard Rock areas
- Vulnerability and Water Pollution of Hard Rock terrain
- Challenges of Water Conservation & Ground Water Recharge in Hard Rock area
- Groundwater related opportunities and challenges in Chhattisgarh & MP

Programme

There will be three Technical sessions, Inaugural and Valedictory session. Annual General Meeting of INC-IAH will follow the workshop.

The tentative programme is:-

0930-1000 hrs- Registration

1000-1030 hrs- Inaugural session and Award distribution

1030-1045 hrs- Tea Break

1045-1215 hrs- Technical session-I

1215-1330 hrs- Technical session-II

1330-1415 hrs- Lunch Break

1415-1545 hrs- Technical session-III

1545-1630 hrs- Panel Discussion

1600-1645 hrs- Tea Break

1645-1730 hrs- Valedictory sessions

Smt Savitri Chadha Memorial INC-IAH awards

Three awards were instituted by INC-IAH, sponsored by Dr D.K.Chadha, President, INC-IAH. Two awards for outstanding works in Indian Hydrogeology and one is for Young scientists working in Indian Hydrogeology. These awards will be presented during the workshop. The last date of nomination for award is kept 15th July, 2017 and is open to members of IAH from India. The award will be conferred during the workshop.

PATRON

Shri K.B.Biswas,

Chairman, CGWB

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- Dr Arabind Mitra, Head, IC, DST, New Delhi
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Dr Pradeep Kumar Naik NGI, CGWB Raipur

Joint Organising Secretaries

Prof N.Bodhankar, SOS Geology, Pt RSU, Raipur
Dr Prabir K Naik, NGI, CGWB Raipur

In association with:

Faculty members, SOS in Geology, Pt RSU, Raipur

Registration

Fee: Rs 500/-, Members of IAH- Free,

The participants have to bear their travel and accommodation costs. However, arrangements can be facilitate on payment basis.

Contact person-

Dr Sudhanshu Shekhar, Scientist-D, CGWB & Treasurer, INC-IAH

Ph 09711063437, e-mail- sshekhar1962@gmail.com

Address for communication

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O/o Central Ground Water Board,
Bhujal Bhawan, NH-IV, Faridabad-121001
Website- www.iahindia.org

REGISTRATION FORM

**National Workshop
Groundwater Challenges in Hard Rock Areas**

**9TH September, 2017
Raipur**

Name (in block letters):.....
Designation:
Area of Interest:
Postal Address:
Organization:
Mobile No:Office Phone
E-mail:
Participation: Research Paper : Oral Presentation : Yes No.
Title:

Date:

Place:

Signature

Registration fee details:

Registration Fee Rs 500/-

- By Cash/Demand draft (in favour of INC of IAH, drawn on Faridabad)

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