## *Introduction*

Quality of both ground water and surface water is deteriorating day by day across the globe due to various natural and anthropogenic reasons. In India more than 260 water challenged sites due to contamination of arsenic, fluoride, nitrate, cyanide, heavy metals, personal care chemicals, sea water intrusion, salinity and non-availability, have been identified. Contamination of ground water with any of these pollutants, particularly in rural India where the economic condition of the residents is not sound enough to bear the cost of the best available techniques, is a serious concern for the sustainability of the society. Low cost enviro-friendly processes are highly required to provide contaminant free water to the common people of the affected area spread across the country. Thus, indigenous technologies are the only solution to achieve this target.

## *Objective*

Objective of this workshop is to provide information on the latest scenario on the water challenges in India and state of the art technological methods and practices for treating contaminated water including some indigenous technologies developed in recent years in the country for drinking water production as well as to highlight opportunities for research based solutions.

## *Contents*

- Water challenges in India: Present scenario and future perspective
- Groundwater treatment: Best practices
- Arsenic and fluoride contamination of ground water and research based solutions
- Heavy metals contamination of ground water and research based solutions
- Emerging pollutants contamination of ground water and research based solutions
- Salinity of ground water and research based solutions
- Brainstorming sessions (Day I & Day II)

## *Eligibility for attending the workshop*

Bachelors degree in engineering or Masters degree in science or equivalent professionals working in industry, young faculty members of engineering colleges / universities, research students, and scientists of research institutes, government officials. The person working in industries with sufficient experience and not processing above qualification may also apply.

## *Registration fee*

The registration fee is 1000/- per head for UG and PG students, Rs. 1500/- per head for Ph.D students, Rs. 2500/- per head for acedemic staffs and faculty members and Rs 5000/- per head for industry personnel and government officials. The fee is payable in advance by demand draft drawn in **favour of Dean SRIC IIT Roorkee.** The accommodation shall be arranged by us for the participants at IIT Guest house, hostels or at other places at Roorkee on payment basis. The fee includes registration kit, lecture notes and working tea & lunch only.

## *Faculty*

The faculty of the workshop will be highly experienced personnel from Academic, R & D Institutions and field drawn from Indian Institute of technology Roorkee, and other renowned institutions / industries/ ministries

## Course Venue

The venue of the workshop shall be The Department of Chemical Engineering. The registered candidates shall be informed through the letters/ telephone/ e-mail about the course venue

## *Important contact points*

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## *Water Treatment Technologies For Water Challenged Sites In India: Opportunities For Research Based Solutions*

***May 15- 16, 2023***

### Registration Form

1. Name……
2. Designation……
3. Organization……
4. Address for correspondence……
   ……
   ……
   ……
   Mobile No:……Fax No :……..
   E-mail……
5. Qualification: ……

Signature

(Note: This registration form may be xeroxed for more participation)

### *Nomination*

Nomination on enclosed form may be sent at following addresses latest by extended date April 30.

**Please send nomination to**


**Dr. P. Mondal**
Professor
Department of Chemical Engineering
Indian Institute of Technology Roorkee
Roorkee – 247667 (Uttarakhand)
mondal2001@gmail.com, pmondfch@iitr.ac.in

**Dr. S. Ghosh**
Associate Professor
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**Two Days Workshop**

**On**

# *WATER TREATMENT TECHNOLOGIES FOR WATER CHALLENGED SITES IN INDIA: OPPORTUNITIES FOR RESEARCH BASED SOLUTIONS*

**May 15 -16, 2023**

**Coordinator**


**Dr. P. Mondal & Dr. S. Ghosh**

**Department of Chemical Engineering**

**Indian Institute of Technology Roorkee**

Roorkee – 247667 (Uttarakhand)


**Organizer**


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Roorkee-247667, Uttarakhand