

# Two-day 2<sup>nd</sup> Annual workshop

On

*Field Measurement and Best Management Practices for the  
Environmental Hazards*

*Organized by*



*Eco-club & IQAC*  
**Subhas Chandra Bose Centenary College  
Lalbagh, Murshidabad**

In collaboration with



सत्यमेव जयते  
**SWID**

State Water Investigation Directorate  
**WRIDD, Government of West Bengal**

**Venue:** Seminar Hall, S.C. Bose Centenary College

**Dates:** 23<sup>rd</sup>-24<sup>th</sup> May 2018

**Contact Persons:** Dr. Debabrata Mondal, Dept. of Geography, S.C. Bose Centenary College

Mr. Rajarshree Gupta, Dept. of English, S.C. Bose Centenary College

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## Concept Note

Arsenic is an invisible hazardous element found in most of the tube well water in the district of Murshidabad, posing a threat to the health of millions of people. According to the World Health Organization (WHO) and Bureau of Indian Standards (BIS), the guideline values of arsenic in drinking water are 0.01 and 0.05 mg/L respectively. High exposures to inorganic arsenic ( $>0.01$  mg/ L) in drinking water is a potent reason of various arsenicosis symptoms to the people. Various health-related issues and diseases are caused due to arsenic toxicity, especially arsenical skin lesion which is very common in Murshidabad. Apart from resulting in skin lesion and skin cancer, the impact of chronic arsenic exposure on public health is substantial, causing neurological, respiratory, and cardiovascular development effects (Mondal and Pal 2015).

At the same time, due to rapid increase in the global population and growing demand for food and other essentials, today's world has seen a rapid rise in the amount of waste daily generated by each household. This waste is ultimately thrown into municipal waste collection centers from where it is collected by the area municipalities to be further thrown into the landfills and dumps. Waste that is not properly managed, especially excreta and other liquid and solid waste from households and the community, is a serious health hazard and leads to spread of infectious diseases. Hazardous waste carries environmental risks and also health risks for humans and ecosystem. Some pollutants, such as mercury, can accumulate in human and animal tissue, thus compounding their effects. Hazardous waste is primarily generated from daily life by every household's offices and institutions.

At this juncture, society had urgent need to eradicate the said problems. Keeping the thought in mind we are organizing such workshop for the students at various disciplines within and outside of our college.

The fundamental objectives of this workshop are:

1. Building an orientation on techniques of arsenic and iron measurement and removal in the household tube wells installed around our institute.
2. Setting up a best management practice for the household waste at our college premises.

All the attempts will encourage the students in their higher academics and research, leading to a holistic development of their knowledge and skills associated with the matter.

# Programme Schedule

## 23th May, 2018 (Wednesday)

1. 10.30 – 11: 00 Free Registrations
2. 11:00 – 12:00 Field survey (Orientation regarding the protocols of As & Fe sample collection and of GPS reading)
3. 12:00 – 3:00 Field survey (Tube-well water sample testing)

## 24th May (Thursday)

4. 10.30 – 11: 00 Inauguration of Waste Management plan
5. 11:00- 11:30 Welcome address
6. 11:30- 01:00 Keynote speech: Geology and its role in occurrence of arsenic in Murshidabad district
7. 1:00 – 1: 30 LUNCH
8. 1:30 – 4:00 Presentation by student participants
9. 4:00 – 4:30 Valedictory Session and certificate distribution

## Resource Person

Rhitwik Chatterjee  
State Water Investigation Directorate,  
WRIDD, Government of West Bengal

## Organizing Committee

### Chairperson

Dr. Shakil Ahmed Khan  
Teacher-in-Charge, S.C. Bose Centenary College

### Conveners

*Dr. Debabrata Mondal*  
Dept. of Geography, S.C. Bose Centenary College

*Mr. Rajarshee Gupta*  
Dept. of English, S.C. Bose Centenary College

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