

Organising Committee

Chairman: Mr. Arnab Roy, CEO NSHM Knowledge Campus

Convenor: Dr. Kshipra Misra, President, STE

Co-Convenor: Mrs. Shubhra Misra, Vice President, STE

Organising Secretary: Prof. Mithun Guha

Co-Organising Secretary: Mrs. Chhanda Basu

Member Organising Committee: Dr. Gargi Banerjee

Member Organising Committee: Dr. Arun Upadhyay

Member Organising Committee: Prof. Ayan

Bandyopadhyay

Member Organising Committee: Prof. Sudip Basu

Advisory Committee

Prof. K. J. Nath, Chairman Arsenic Task Force and Advisor (SISSO)

Dr. Alok Adholeya, Programme Director, Sustainable Agriculture, TERI, New Delhi; Director, TERI Deakin Nanobiotechnology Centre, TERI Gram, Gurugram

Dr. Sanjay Bajpai, Advisor/Scientist 'G' & Head, Technology Mission Division (Water and Clean Energy), DST, Govt. of India

Prof. Arunav Majumdar, Former Director, All India Institute of Hygiene and Public

Dr. Alok Satsangi, Principal, NSHM Faculty of Business and Management Studies, Durgapur

Dr. Neelima Alam, Scientist E, Technology Missions Division (Energy, Water & All Other)

Prof. RK Sharma, Coordinator, Green Chemistry Network Centre, University of Delhi, Delhi

Dr. P. K. Rai, Joint Director, CFEES, DRDO, Delhi

Dr. Kalpana Bhargava, Addl. Director, DIPAS, DRDO, Delhi

Dr. Rajesh Arora, Addl. Director, DIPAS, DRDO, Delhi

Dr. S. K. Singh, Addl. Director, SSPL, DRDO, Delhi

Dr. Susan Titus, Addl. Director, NMRL, Ambernath, Mumbai

Dr. R. M. Bhardwaj, Former Addl. Director, CPCB, Delhi

Dr. Laxman Prasad, Former Advisor, DST, Govt. of India

Dr. A. K. Gupta, General Secretary, NESI, Delhi

Herbal Medicines & Natural Products Laboratory Department of Biotechnology, Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala

Dr. Syed Shabih Hassan, Assistant Scientist (Fisheries), GADVASU, Ludhiana (Punjab)

Dr. Prashant Singh, Asso. Prof., Dept. of Chem., DAV (PG) College, Dehradun, UK

Oral presentation & Poster Competition Guidelines

This workshop will be accompanied by oral presentations on Environment Protection and Environmental Hazards. The time limit for oral presentation will be 5 minutes. The best presentation will be selected by a three-member panel of judges, and the selected presenters will be awarded. Interested candidates may submit their abstracts through email to gargi.banerjee@nshm.com

This conference will also have poster presentation session. The standard poster dimensions are 48"X36". The best posters will be selected by a three-member panel of judges, and the selected presenters will be awarded.

The participants are requested to send their abstracts and full length papers online to gargi.banerjee@nshm.com by **15th February 2019**. The abstract should be within 250-300 words in English font 'Arial' with size of '12'.

CONFERENCE REGISTRATION

Category	Before 10 th Feb, 19	After 10 th Feb, 19
Corporate Delegates/Industrialist	5000.00	6000.00
Academicians	2000.00	2200.00
Research Scholars	1500.00	1700.00
Students	1000.00	1200.00

ELECTRONIC TRANSFER DETAILS:

Name of the Bank: **STATE BANK OF INDIA**
Name of Account Holder: **SAVE THE ENVIRONMENT**
Account No.: **38041963371**
IFSC Code: **SBIN001506**
Bank: State Bank of India
City: Kolkata
Country: India

ACCOMMODATION

The accommodation and transport etc. will be paid by the participants themselves. The organizing committee will guide/facilitate this process if contacted in advance. Details of nearby hotels are given on the Website: www.stenvironment.com/

Organising Secretary

Prof. Mithun Kumar Guha

Assistant Professor, NSHM Faculty of Business and Management Studies, NSHM Durgapur

Contact Number: +91-9733844635 • Email: mithun.guha@nshm.com

Co-Organising Secretary

Mrs. Chhanda Basu

General Secretary

SAVE THE ENVIRONMENT (STE)

(A SOCIETY FOR RESEARCH, AWARENESS & SOCIAL DEVELOPMENT)

74B, Pasupati Bhattacharjee Road, Kolkata-700 041

Mobile: +91-09830779260 9 Email: save1990env@yahoo.co.in

National Workshop

on

ARSENIC CONTAMINATION AND SUSTAINABLE TECHNOLOGICAL SOLUTIONS IN INDIA

26TH -27TH FEBRUARY, 2019

**NSHM Knowledge Campus
Durgapur Group of Institutions
Arrah Shibatala, Via Muchipara, Durgapur**



Organised by:



**NSHM Faculty of Business and
Management Studies, NSHM Durgapur (W.B.)**

In Collaboration with



SAVE THE ENVIRONMENT (STE)
(A SOCIETY FOR RESEARCH, AWARENESS & SOCIAL DEVELOPMENT)

a NGO from Kolkata
which works for the cause of
Environment Safety and Health

Workshop Overview

Nature has gifted us many things but on the other hand it has its hazards as well. Humans and animals are exposed to chemicals in our environment – natural products in food, smoke from cooking fires, sewage in drinking water, pesticides from plants etc. However, the increased amount of arsenic in ground is due to groundwater pollution which is often due to naturally occurring high concentrations of arsenic in deeper levels of groundwater. It is a high-profile problem due to the use of deep tubewells for water supply in the Ganges Delta, causing serious arsenic poisoning to large numbers of people.

Water in industrialized areas like Durgapur over the past three centuries has drastically changed both the quality as well as quantity of human exposures to both natural and synthetic chemicals. We all know that certain things are bad for us such as cigarette smoke and alcohol. But what about other substances in our environment such as arsenic in water. Environmental health risk assessment allows us to identify the potential hazards to human health and understand how serious such problems may be.

In the Ganges Delta of India, the affected wells are typically more than 20 meters and less than 100 meters deep. Groundwater closer to the surface typically has spent a shorter time in the ground, therefore likely absorbing a lower concentration of arsenic; water deeper than 100 m is exposed to much older sediments which have already been depleted of arsenic.

In West Bengal, India, water is mostly supplied from rivers. Groundwater comes from deep tubewells, which are few in number. Because of the low quantity of deep tubewells, the risk of arsenic poisoning in West Bengal is comparatively less. According to the World Health Organisation, "In Bangladesh, West Bengal (India), and some other areas most drinking-water used to be collected from open dug wells and ponds with little or no arsenic, but with contaminated water transmitting diseases such as diarrhoea, dysentery, typhoid, cholera, and hepatitis". Programmes to provide 'safe' drinking-water over the past 30 years have helped to control these diseases, but in some areas they have had the unexpected side-effect of exposing the population to another health problem—arsenic. The acceptable level as defined by WHO for maximum concentrations of arsenic in safe drinking water is 0.01 mg/L.

Therefore, the rural people who hardly use any purification device for drinking water will get a solution to their health hazards created from arsenic contamination water from this workshop.

Aims & Objectives

This workshop aims to bring together world class researchers, scientists, Environmentalists, experts and policy makers at one common platform for identifying the current

environmental challenges caused by arsenic poisoning of ground water and proposing cost-effective solutions to deal with these problems.

Benefit of the Workshop

Understanding the need of arsenic free drinking water and providing cost-effective solutions to the rural people of Bardhaman District to deal with the arsenic poisoning of ground water.

Workshop Highlights

- ❖ Keynote Lectures on arsenic contamination of drinking water and its effects on human health by Experts
- ❖ Special Interactive Session
- ❖ Oral & Poster presentations
- ❖ Awards for the best oral and poster presentation

Theme of the Workshop

The Workshop is being organised to create awareness for the effect of arsenic contaminated water on the health of the people living in the rural areas of Bardhaman District, West Bengal. Save the Environment will provide a guidelines and technological solutions for removal of arsenic poison from the ground water.

Sub Themes:

1. Water Sustainability
2. Water Quality : Status and Trends
3. Water Pollution Monitoring
4. Water Pollution Studies
5. Water Analysis
6. Remediation of Water Pollution
7. Impact of Industrial Waste on Water Quality for agriculture and human consumption
8. Developed of Simple filter and application of various treatment technologies

Dear Colleagues,

NSHM Faculty of Business and Management Studies Durgapur and Save the Environment a NGO, welcome you to attend a two-days Workshop on Arsenic Contamination and Sustainable Technological Solutions in India during **26th-27th February 2019**.

This workshop is being organised to create awareness of arsenic poisoning of ground water and its effect on the health of the rural people of Bardhaman District in West Bengal. The workshop anticipates delegates including keynote speaker, experts, policy makers researchers around India.

This workshop will be an ideal platform to share knowledge about the arsenic contamination of water. It will be a wonderful

experience for the participants of the workshop to understand the scientific solution to arsenic poisoning of ground water. The workshop will also provide an excellent networking opportunity for the participants to connect with the organisations that works for protection of the environment and reach solutions to environmental hazards.

Looking forward for your whole-hearted participation and let us all stand together to protect our environment and stay healthy.

About NSHM Faculty of Business and Management Studies

NSHM Faculty of Business and Management Studies is a pioneer institution in the area of Management Education situated in Durgapur, District- Paschim Burdwan, West Bengal. It was established in the year 2008. The institutes provide world-class education and aims to be a global hub in education. NSHM Faculty of Business and Management Studies is one of the remarkable departments of the NSHM Group of Institutions, Durgapur in respects of its multiple activities like industry visits, educational tours, corporate social responsibility, workshops and research works involving students and faculties all throughout the year.

About Save the Environment

SAVE THE ENVIRONMENT (STE) was founded on 26th January 1989 and got registered on 19th November 1990. In 1992 with the collaboration of WWF (India), the organization started working to combat arsenic poisoning problem of water in the arsenic prone areas of West Bengal. Since then STE has been involved in various project related to combat arsenic problem in India. Some of the main activities of the organization are as follows:

1. In 1994 STE with the collaboration of All India Institute of Hygiene & Public Health, Government of India undertook project on arsenic removal to provide arsenic free water. 1st arsenic removal plant installed by STE organization in 1997. The plant was inaugurated by the Minister of PHED (West Bengal) on 23rd January 1997.
2. A vocational training center was inaugurated for the arsenic patients in 2003 and setting up of a special hospital for arsenic patients is under process.
3. Develop a model for sustainability of arsenic mitigation programme in the rural setup of India with the help of Indian Institute of management (IIM), Ahmedabad and Department of Science and Technology (DST), New Delhi, India
4. Already installed about 60-community type Arsenic Removal Plants and have distributed about 5000 domestic filters so far.
5. Since 1997 till date, Arsenic free drinking water has been provided to more than a 1,00,000 people in India.