



SAVE THE ENVIRONMENT

KOLKATA | GURUGRAM



Annual Report - 2023

Head & Registered Office

12, Diamond Harbour Road, Kolkata-700063

Correspondence Office

Flat No. 1107, Block 17, Heritage City, MG Road, Gurugram-122002

info@stenvironment.org; save1990env@yahoo.co.in

<https://www.stenvironment.org>

Report compiled by

Dr. Priyanka Sharma

Scientist, DRDO & life Member, STE

plant a tree and care for it



Letter from President STE

Preface

संरुषेददूषति न स्याल्लोकः मानवजीवनम्।

'We shouldn't pollute the environment so that life can be protected.'

I came across this Sanskrit verse about protecting the environment, which made me realize how we tend to neglect this duty while taking care of our possessions. But STE has made this its motto. So every annual report is the result of hard work and efforts put in by STE team members to fulfill this motto. The whole year is full of significant learning processes. It gives me immense pleasure to present the annual report of Save the Environment-2023. STE has come a long way and like every year STE has been able to depart its duties towards society in spreading awareness on environment, health, water quality, and other related areas. It's time for self-introspection on our existence in this world and contemplate our moral responsibilities towards nature.

This brief annual report outlines our sincere efforts to reach society and spread the message of protecting natural resources and thereby serving nature to the best of one's abilities. The year commenced with the grand celebration of International Women's Day. STE initiated Prerana Samman to recognize the women with extraordinary potential who contributed enormously to society by various means.

STE has always been very assiduous in working for the welfare of society not only in spreading awareness but also in community services. Save The Environment (STE) has been working towards enhancing development and improving the environment in the most backward areas.

The year 2023 has been pivotal for STE to organize conferences. This year 'Green Energy & Sustainable Environmental Technology (GESET-2023)' was organized by Save the Environment (STE), Kolkata/Gurugram, India in collaboration with Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad, at RKGIT, Ghaziabad from 16th -17th September 2023. EWASH-2023 and the 5th Annual Meet of STE was also conducted successfully at Swami Rama Himalayan University (SRHU) Joly Grant, Doiwala, Sangatiya Walakhur, Uttarakhand during 22-23 December, 2023. Both events were remarkably successful wherein the eminent guests and speakers both nationally and internationally participated in large numbers.

This year STE was fortunate to include many new annual and life members both nationally and internationally. I sincerely thank all the STE members and other volunteers who have contributed unconditionally in the various tasks conducted by STE during the year.

(Dr. Kshipra Misra)

President STE & Former Additional Director, DIPAS(DRDO)

Contents

Preface	1
1. Abbreviations	3
2. Introduction	4
3. About STE	5
3.1 <i>Vision</i>	
3.2 <i>Mission</i>	
4. Brief History of STE	6
5 Activities of STE	7-10
5.1 <i>STE Awards</i>	
6. Events and Programmes-2023	11-19
6.1. <i>Workshops</i>	
6.1.1 <i>Anthelia</i>	11
6.1.2 <i>Herbs to Health</i>	12
6.2 <i>STE's Prerana Samman 2023- International Women's Day</i>	12
6.3 <i>Urban Water Security Week</i>	13
6.4 <i>Online Certificate Course on Environment Awareness</i>	14
6.5 <i>International Conference on Green Energy & Sustainable Environmental Technology (GESET-2023)-OZONE DAY CELEBRATION</i>	15
6.6 <i>EWASH-23</i>	17-21
7. Members of STE	22-26
7.1. <i>Life Members</i>	22-25
7.2. <i>Annual Members</i>	26
7.3. <i>International Members</i>	26
8 Acknowledgments	27
8.1 <i>Our Sponsors</i>	27
8.2 <i>Awards/ recognition received for DART</i>	27
8.3 <i>Our Collaborators</i>	27
9. Management	28



1. Abbreviations

AIIPH: All India Institute of Hygiene & Public Health

CSIR: Council of Scientific & Industrial Research

DRDO: Defence Research and Development Organization

DST: Department of Science and Technology

ETHEE: Emerging Trends to Heal the Earth and Environment

EWASH: Environment, Water, Agriculture, Sustainability and Health

GCNC: Green Chemistry Network Center

GESET: Green Energy & Sustainable Environmental Technology

ICMR: Indian Council of Medical Research

IGNOU: Indira Gandhi National Open University

IIM: Indian Institute of Management

IWWA: Indian Water Works Association

NEERI: National Environmental Engineering Research Institute

NICPR: National Institute of Cancer Prevention and Research

NGO: Non-Governmental Organization

NSHM: Notabilis Sociatrix Humanus Maxime

(Latin terms meaning Noteworthy Collaboration for Best Development of Humankind)

RSC: Royal Society of Chemistry

SOITS: School of Inter-Disciplinary and Trans-Disciplinary Studies

SDG: Sustainable Development Goal

STE: Save The Environment

TERI: The Energy & Resources Institute

UN: United Nations

USDA: US Department of Agriculture (USDA)

USDOE: US Department of Energy (DOE)

WWF: World Wildlife Fund

2. Introduction

पर्यावरणनाशेन नश्यन्ति सर्वजन्तवः ।
पवनः दुष्टतां याति प्रकृतविक्रियते ॥

'The destruction of the environment (due to pollution) leads to the destruction of all beings. The winds and air become vicious and nature becomes hostile'.

‘पर्यावरण के विनाश प्रदूषण से सभी प्राणी नष्ट हो जाते हैं, सम्पूर्ण वायु मण्डल विषैला हो जाता है और प्रकृति शत्रुतापूर्ण हो जाती है।

The *shloka* above truthfully states that human beings are responsible for their own destruction if they don't take care of the environment they live in. However, the irony is that humans either fail to realize this or choose to turn a blind eye to this fact.

Environmental Science which finds its place as modern disciplinary science, finds its origin in Vedic and ancient Sanskrit literature. The Rig Veda venerates deities like Mitra, Varuna, Indra, Maruts and Aditya who are responsible for maintaining requisite balance in the functioning of nature like water, earth, air, forests etc. Any kind of harm to nature's vitals was considered a sin and for any inadvertent action the seers seek forgiveness as:

**"यत्त्वांस्वनामपृथिवी, तत् पुनः शीघ्रं भवेत् हे शुद्धि,
मातवप्राणान् हृदयं वाक्पतकिरुमः"**

*"Whatever I dig from thee, O Earth, may that have quick recovery again.
O purifier, may we not injure thy vitals or thy heart".*

The seers of Rig Veda speak on behalf of earth for its principle of replenishment "You give me and I give you". They look at every entity of Nature with the eyes of a friend and sympathiser:

***May all beings look at me with the eye of a friend.
Mitrasya aham chakshusha asarvaanibhuutaanisameekshe.
May I look at all beings with the eye of a friend.
Mitrasya chakshusha asameekshaamahe.
May we look (at each other) with the eye of a friend.***

It shows that even more than 3000 years ago people used to acknowledge the bond between nature and living. Living beings cannot imagine their lives outside environment. Therefore, environment protection becomes our sole duty.

For the conservation of environment, we require people to come together, communicate, work in partnership and disperse the seeds of their work to obtain greatest outcome. In a vast country like India, government machinery is not enough to fulfill this enormous goal. Now a days Non-Government Organizations (NGOs), play a crucial role to reach to the masses or common people for spreading awareness regarding environment protection. NGOs create awareness among people on current environmental issues, natural resources and their protection etc. They do so by conducting workshops, seminars and conferences, distributing newsletters and brochures and showcasing their work on the websites and at different frontiers of the society.

3. About STE

3. About STE

SAVE THE ENVIRONMENT (STE), an NGO, was founded and registered on 20 November 1990. It was started with following Vision and Mission:

3.1. Vision

To protect present and future generations from various Environmental hazards.

3.2. Mission

To raise awareness and motivation among rural communities

&

To provide cost effective, energy efficient & environment friendly technologies

4. Brief History of STE

In 1992, with the collaboration of World Wildlife Fund (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 projects related to eliminate groundwater arsenic contamination, mostly from rural areas of India. Some of the main activities of the organization are as follows:

1994: STE in collaboration with AIIH&PH, Government of India undertook a project on arsenic removal from water.

1997: On 23rd January, 1997, STE installed first arsenic removal plant in Kolkata, West Bengal.

1998: State Bank of India sanctioned a fund to install the arsenic removal plant in rural Bengal in 1998.

2000: In the year 2000, in collaboration with AIIH&PH and India Canada Environment Facility started a program on Community based project to mitigate arsenic pollution in West Bengal.

2001: In June 2001, organization had an opportunity to start a special clinic, which was first of its kind to provide free treatment to arsenic patients.

2003: STE was also first to deal with the conservation of rainwater and started working on Water Harvesting project in 2003 using ponds in rural areas.

A vocational training center was inaugurated for the arsenic patients in 2003.

STE is working very actively with DRDO, Ministry of Defence, Govt. of India to promote and implement a low-cost arsenic removal technology developed by DRDO.

STE has so far completed three projects from Dept. of Science & Technology, Govt of India to propagate and implement Arsenic/Iron removal technology in the affected areas.

Developed a model for sustainability of arsenic mitigation programme in the rural setup of India with the help of IIM, Ahmedabad.

Projects have been undertaken to mitigate arsenic/iron problem in 24 Parganas (N) & Nadia districts in West Bengal, Ballia district in Uttar Pradesh, Bhagalpur District in Bihar and Agartala in Tripura.

Since 1997 till date, Arsenic free drinking water has been provided to more than 1,00,000 people in India.

Already installed about 60 community type Arsenic Removal Plants and have distributed more than 5,000 domestic filters so far. STE is also conducting health camps in rural areas of West Bengal with the help of volunteers especially, doctors and healthcare personnel.

5. Activities of STE

For more than two decades STE has worked tremendously to reach to the local communities for creating environment awareness. STE has left no stone unturned in making people from all fronts of the society to amalgamate for this common cause.

Day by day environment is deteriorating. The qualities of our natural resources like land, water and air are depleting. Environmental pollution disturbs the balance of our ecosystems, affects normal lifestyles, cause stress and other related illnesses besides causing global warming. Government and other agencies are making so many policies on environment safety. But these policies come out to be successful to an extent only. This happens because a big chunk of our population remains ignorant of both the problem and its cause. Sometimes ludicrous situations arise when we talk of safety of environment but unknowingly contribute towards the opposite cause. With our busy schedules we tend to forget our responsibilities towards nature. Another verse of Srimad Bhagwat Geeta says:

**प्रकृतेः कुर्यामाणानि गुणैः कर्माणि निवर्तते ।
अहङ्कारवद्भूतात्मा कर्त्ताऽहमिति मीन्यते ॥ 3-27 ॥**

Every work is governed by the grace of the nature, but only the arrogant people deny it.

'This sloka signify the nature as the key controller of every work. On the other way it can be said that doing harm to the nature will affect its regular activities that may reflect on the human livings. The verse also puts warning to the arrogant people, who does not believe in the power of the nature.'

STE truly tries to follow this motto and works towards fulfilling it. STE organizes workshops, conferences and seminars etc. where people from different fields of interest like professors, scientists, doctors, teachers, politicians, entrepreneurs, research-scholars and school-students etc. participate and take notice of this crucial issue of environment safety.

5.1. STE Academic perseverance

5.1.1 Awards

STE not only encourage people for the cause but also motivate its' contributors by giving them awards under different categories. Annual Awards of STE are the tangible symbol to signify eminence of contributions made by a person or institution. This boosts the enthusiasm of the contributors that have contributed in different field of science and social service with their excellence, expertise and approach towards achieving certain goals for the society. Recognition of such extraordinary activities is eventually very important to boost their confidence and to honour them for what they have done for the science and society. STE confers following categories of awards and honours to such eminent personalities.

STE Dr. APJ Abdul Kalam Award

The award is in the memory of our former president of India late Dr. APJ Abdul Kalam. This award is conferred every year to the senior scientist of DRDO/ ISRO (working or retired) who has significantly contributed towards science and technology in India.

(Eligibility: *Any Indian Citizen above the age of 55 years. Nominations will be from STE*)

STE Dr. Praloy O. Basu Life Time Achievement Award

The award is constituted in the memory of late Dr. Praloy O. Basu, Founder Secretary of STE. This award is conferred every year to any citizen of India, who has made a difference to the society by his/her contributions in terms of education/ policies/ S & T/ Social Service and others.

(Eligibility: *Age above 45 years. Nomination from STE.*)

STE International Awards

2 sub categories:

STE International Achiever Award

STE International Young Achiever Award

This award is to recognize NRIs who have brought fame to India by contributing towards Science & Technology / Environment / education/ Society.

(Eligibility: *Anyone born in India but working abroad can apply. Age no bar*).

STE Green Excellence Award

This award is constituted to honour those professionals who have excelled in safeguarding and protecting the environment.

(Eligibility: *Any one above the age of 40 years can apply*).

STE Fellowship Awards

STE Fellowship award is conferred to the Indian senior scientists /Academicians for their outstanding achievements in various fields of science & Technology and Education.

(Eligibility: *Anyone above the Age of 50 can apply*)

STE Meritorious Award

The award is conferred to the persons who have an exceptional/excellent contribution in the field of academics and research.

STE Water Awards

The awards are conferred to the Indian nationals who have made the difference in the area of water by any means.

(Eligibility: *Any one can apply in this category and age is no bar*)

STE Young Researcher Awards

STE Young Researcher Faculty Awards

STE Young Researcher Awards

The awards are conferred to the young Indian researchers to encourage and boost their enthusiasm.

(Eligibility: *Anyone in the Age between 25 to 40 years can apply.*)

STE Best Ideas / Innovations / Technology for Environment Awards

The awards are for the Indian Nationals to generate / develop the innovation towards serving the environment.

(Eligibility: *Anyone can apply. Age no bar*)

STE Best School Principal Award

This award is constituted to recognize the Principal of Schools for his/her contributions in the field of science and environment.

(Eligibility: *Any one above the age of 40 years can apply*).

STE Best Teacher Award

This award is given to the teachers of Indian nationality for promoting science and technology among the school students.

(Eligibility: *Teachers – teaching Science for Classes 9-12 can apply*).

STE Women Awards

This award is constituted to recognize the Indian women scientists/ Academicians for their contributions in the field of science and environment.

(Eligibility: *Any woman above the age of 40 years can apply*).

STE Humanitarian Award for NGO

This award is given to an NGO who has significantly contributed for the cause of environment and general social well being of the society.

5.2 Journal

STE has its own journal namely International Journal of Environment and Health Sciences (IJEHS). The journal proposes to provide a reliable platform to discuss relevant technologies and strategies. IJEHS is quintessential to academicians, industry professionals and researchers who are actively engaged in the areas of environmental issues and related health effects. The journal has got ISSN 2582-5283. IJEHS is referenced in Crossref, the official Digital Object Identifier Agency (doi 10.47062). IJEHS is now also indexed in the International Scientific Indexing (ISI).

The journal invites original research articles, short communications and critical reviews directed towards an academic, clinical and industrial audience. The first section of the journal focuses on burning environmental issues like pollutants and their fate, waste management, resource conservation, remediation technologies, etc. The second section includes all topics relevant to physiological impact of environmental risk factors and application of alternative medicinal approaches as remedial measures.

All submissions are meticulously scrutinized by pioneers in the field to ensure publication of only articles of high quality and relevance. Authors are always requested to take special precautions to avert plagiarism and redundancy.

ISSN : 2582-5283

DOI: 10.47062

**Indexed in International Scientific Indexing
SAVE THE ENVIRONMENT (STE)**

Chief Editor: Dr. Kshipra Misra Phone: +91-9871372350

E-mail: Website: www.stenvironment.org ijeh



5.1.3 STE QUARTERLY Newsletters

STE publishes quarterly Newsletter in which details of the activities done during a quarter is provided. Not only this STE invites scientific and general articles mainly pertaining to environment for publication in the newsletters. The articles enrich the knowledge of the readers in different aspects. By viewing the increasing popularity of STE, we are planning to publish the quarterly newsletters in Hindi and Bengali from Jan 2023 onwards.

https://www.stenvironment.org/images/newsletter/PRAKRITI%20SANRAKSHAN_Oct_Dec_2023.pdf



6. Events/Programmes-2023

STE is not limited to environmental pollution rather it covers sustainable development and management of natural resources and flora and fauna. Day by day the need of environmental protection at various levels is increasing thereby enhancing the responsibilities of the NGOs. Even after more than 70 years of independence, the Indian population still lacks awareness regarding environmental safety. This has happened because two-thirds of our population still lives in poverty. They are simply unaware of environmental protection rather than struggle to make ends meet. In this scenario, the responsibility of NGOs like STE is further enhanced. STE is totally dedicated to the cause of environmental safety and health. During the year 2021, STE has organized various events and programs on environmental development issues that have come out to be beneficial to the different levels of society. The details of all the events conducted during the year are given below:

6.1. WORKSHOPS

6.1.1. ANTHELIA

Date : 11th January 2023

Venue: Hindu College, University of Delhi, Delhi

Department of Chemistry Hindu College, the University of Delhi Under the aegis of DBT Star College Scheme in collaboration with STE (Save the Environment) conducted following workshops:

Anthelia: A workshop on a range of Eco-Friendly startup products for sustainable development on 11 January 2023. The workshop encouraged students not just to opt for more eco-friendly products but also to have start-ups and to take each and every step possible towards an sustainable future. The students had an overwhelming experience during the workshop.



6.1.2. FROM HERBS TO HEALTH

Date & Venue:

Department of Chemistry Hindu College, University of Delhi Under the aegis of DBT Star College Scheme in collaboration with STE conducted Herbs to Health: A workshop on solvent-based extraction protocols. The workshop was aimed at improving critical thinking and “hands-on” experimental work and encouraging students to opt for more use of Herbs than artificial medicines. In the workshop, Students extracted Nutraceuticals in capsule form. The workshop encouraged students not just to opt for more Herbal products than synthetic and chemically derived products but also a science of satisfaction on the faces of everyone which truly made the workshop a huge success.

6.2 STE's Prerana Samman 2023- International Women's Day

Date & Venue: Webinar on 08th March 2023

Like yester years STE celebrated International Women's Day by organizing webinar on 8th March, 2023. To celebrate the event, STE felicitated three very inspirational women achievers to honor their cognizance and motivating efforts towards the betterment of our society. The theme was aligned with that of UN's this year- 'Gender Equality Today for a Sustainable Tomorrow'. The STE Prerana Samman recipients for this year were:



Dr Jyoti Sharma:
Scientist F & Director,
Department of Science
& Technology,
Government of India.



Ms. Deepasree Das Sarkar: Associate Professor & HoD, Department of English, Margherita College, Assam.

She had been awarded for her major role in educating and empowering Girl Child in 18 different tribes of Assam. Mrs Sarkar shared her experience on how she played a significant role in the lives of thousands of girls by educating them about menstrual hygiene, domestic violence and legal issues, making biodegradable cotton sanitary napkins, and much more.



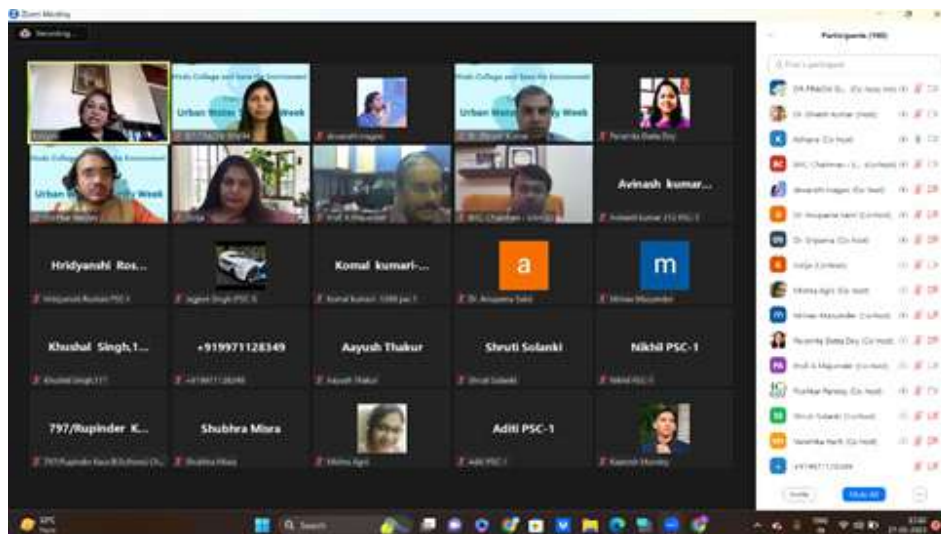
Dr Barnali Ghatak:
Founder & Managing Director, SBH Electro Cloud Pvt Ltd, Kolkata.

She was awarded for her contribution to society in the fields of science and technology. Her accomplishments benefitted the farmers of India, electrical workers, and much more.

6.3 Urban Water Security Week

Date & Venue: 27th May, 2023. Online Event

The Urban Water Security Week was celebrated together by STE and the Hindu College as a part of an initiative taken up by the South Asian Institute for Advanced Research and Development on the 27th May 2023. The objective of the online talk was to spread awareness of the increasing water crisis in urban areas. On the occasion Dr. Girija Bharat, founder and director of Mu Gamma Consultants Pvt. Ltd, Gurugram, Prof. A. Majumdar, a civil engineer, and Paramita Datta Rey, the program lead for the Sustainable Cities and Water and Sanitation at NIUA, spoke on the different aspects of urban water such as the sources of urban water, the influence of the increasing human population on the declining urban water, and various measurements and steps that have been and are taken to address the crisis. The talk was attended and participated by more than 200 participants which included students, researchers, and academicians from different colleges, and universities. Prof. A. Majumdar was the chief patron and Dr. B. R. Chowdhury, Chairman of SAIARD, Dr. Anju Srivastava, and Dr. Reena Jain were the patrons of the program. Dr Kshipra Misra, STE, and Dr Devanshi Magoo, Hindu College, and Dr Jigni Mishra, STE, Dr Dinesh Kumar and Dr Prachi Singh, Hindu College, were the convenors, and co-convenors, respectively. Ms. Vanshika Harit, Ms. Shruti Solanki, Mr. Pushkar Pandey, and Mr. Mrinav M. Mazumdar, were the student coordinators of the program.



6.4 Online Certificate Course on Environment Awareness

Duration of the Course: 6 weeks (02.07.2023 - 08.08.2023)

The online certificate course on environmental awareness was successfully organized in a collaboration between Save the Environment, an NGO based in Kolkata/Gurugram, and the Hindu College, University of Delhi. The course directors of the certificate course were Prof. Anju Srivastava, Prof. Reena Jain, Dr Kshipra Misra, and Dr S. K. Basu. Prof. B. Rupini and Dr Sushmitha Baskar from IGNOU, Dr S. K. Basu from PFS Canada, and Dr Prachi Singh and Dr Pallavi Saxena from the Hindu College were the courses facilitators in addition to course coordinators. The course duration was 6 weeks from 02.07.2023 - 08.08.2023 and was spread over 12 lectures that happened on weekends. A total of 11 participants joined the course, and 5 facilitators designed and took the lectures. The objective of the certificate course was to extend the roles of STE and the Hindu college in working together to benefit different stakeholders such as teachers, and students from schools, house workers, and jobholders on environmental awareness. The structure of the course comprised lectures, discussions, assessments, and evaluations. The participants and the facilitators received a certificate of completion/participation in the valedictory. The names of the participants and the facilitators are listed below:

Name of the participants:

Participants	Institute	Certificate of Participation
Mr Agrim Jain	Modern School	Completion
Mr Nirvaan Singla	Modern School, Barakhamba Road	Completion
Mr Iftekhar Ali	Furqania Day Primary School	Completion
Ms Aseema Rajesh Gokhale	Modern School Vasant Vihar	Completion
Ms Abhilasha Gehlot	Hindu College	Completion
Ms Brartati Barik	Vidyasagar College, Kolkata	Completion
Mr Nivrutti Trymbakrao Galande	SLIET University Campus Sangrur Punjab	Completion
Mr Laksh Gupta	Modern School, Barakhamba Road	Completion
Ms Soumya Roy	B. E. College Model School	Completion
Dr Man Mohan Bagh	SCB Medical College Cuttack	Completion
Ms Anika Tandon	Modern School, Barakhamba Road	

6.3 International Conference on Green Energy & Sustainable Environmental Technology (GESET-2023)

Date & Venue: 16th-17th September 2023, Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad

The International Conference on Green Energy & Sustainable Environmental Technology (GESET-2023) was organized by Save the Environment (STE), Kolkata/Gurugram, India in collaboration with Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad, at Raj Kumar Goel Institute of Technology Ghaziabad on 16th-17th September 2023. The main aim of this conference was to bring together leading academicians, scientists, researchers, industry experts and policy makers to discuss the latest developments in sustainable technologies and materials for harvesting 'Green Energy' while also protecting the Ozone layer's delicate ecosystem. This conference mediated a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent developments in the fields of sustainable technology development in order to protect the Earth by mitigating various environmental problems, such as unprecedented pollution and climate change. All those who graced this occasion included Chief Guest Dr. S. K. Goyal, Chief Scientist and Head, CSIR-NEERI, Delhi Zonal Centre; Prof. Arunabha Majumder, Patron, STE and Emeritus Prof.,



Jadavpur University, Kolkata and Former Director, AIIHPH, Kolkata; Dr. Laxman Prasad, Group Advisor RKG Group of Institutions; Dr. D.K. Chauhan, Executive Director RKG Group of Institutions; Dr. B. C. Sharma, Director RKGIT; Dr. Kshipra Mishra, Convener of GESET 2023, President, Save The Environment and Former Additional Director, DIPAS (DRDO), Delhi and Prof. Poonam C Kumar, Head, ASH department, RKGIT along with Deans, Principal Pharmacy, various heads of the departments, faculty members and delegates.

Major recommendations from International Conference were:

- Steps to mitigate climate changes from an Indian perspective have to be dynamized.
- Modern wastewater and waste treatment strategies have to be adopted, especially from a viewpoint on agricultural wastes.
- Awareness about technology-driven remediation methods have to be put into action, specifically at semi-urban and rural levels.
- Environmental awareness in an empirical manner, should be made part of curriculum to encourage youth participation.
- Waste segregation and cleanliness drives should be monitored on a daily basis.

6.4. EWASH-2023 & 5th ANNUAL MEET OF STE

A regular annual feature in the academic arena is the very appropriately titled International Conference EWASH- Environment, Water, Agriculture, Sustainability and Health that was jointly conducted by SWAMI RAMA HIMALAYAN UNIVERSITY, Jolly Grant, Dehradun and STE, Kolkata on 22-23rd December 2023. It was the 5th Annual Meeting of STE. The National Academy of Sciences, Prayagraj, Uttar Pradesh and D . A . V . (P G) College, Dehradun, Uttarakhand were the co-sponsor for this event. The theme of the the event remained the same as previous year *“Protect the blue and greenMake the Earth pristine.”*

All those who graced this esteemed conference included Dr. Rajendra Dobhal , Vice Chancellor, Swami Rama Himalayan University, Jolly Grant; Patrons of EWASH-2023 Prof. Arunabha Majumder, Emeritus Professor, Jadavpur University, Kolkata & Former Director, AIIHPH, Kolkata and Dr. Vijay Dhasmana, Chancellor, Swami Rama Himalayan University, Jolly Grant, Dehradun; Convener Dr. Sanjay Gupta, Principal, Himalayan School of Bioscience, Swami Rama Himalayan University, Jolly Grant, Dehradun; Coconveners Mrs. Chhanda Basu , General Secretary, STE and Mr. Sanjit Mitra, Treasurer STE; Coordinator Prof. Prashant Singh, Dept. of Chemistry, D.A.V. Post Graduate College Dehradun, Dehradun, Uttarakhand and Vice President, STE, Uttarakhand Chapter.







AWARDS CONFERRED DURING EWASH-2023

Award Title	Recipient Name	Designation & Affiliation
STE Dr. APJ Abdul	Dr. Usha Panjwani	Professor of Practice, Manav Rachna International Institute of Research and Studies, Faridabad & Former Scientist 'G', DIPAS (DRDO), Delhi
STE Dr. Praloy O Basu Life Time Achievement Award	Dr. Rajendra Dobhal	Vice Chancellor, Swami Rama Himalayan University, Jolly Grant, Dehradun & Former DG, UCOST, Uttarakhand
STE International Achiever Award	Prof. Shubhankar Suman	Associate Professor, SOM-Oncology Academic Department, Georgetown University, USA
STE Fellowship Award	1) Dr. A. Arunachalam 2) Dr. Sushil K. Singh 3) Dr. Biswajit Ruj 4) Prof. Sunil Kumar	Director, ICAR-Central Agroforestry Research Institute, Jhansi, Uttar Pradesh Scientist 'F' & Additional Director, Solid State Physics Laboratory, DRDO, Delhi Chief Scientist, CSIR-Central Mechanical Engineering Research Institute, Durgapur, West Bengal Principal, DAV (PG) College, Dehradun, Uttarakhand
STE Green Excellence Award	Prof. P. Chakraborty	Professor & Head, Centre for Research in Environment, Sustainability Advocacy and Climate Change, SRMIST, Tamil Nadu
STE Meritorious Award For Excellence in Academics and Research	Dr. Prashant Singh	Professor, Department of Chemistry, DAV (PG) College, Dehradun, Uttarakhand
STE Water Award	1) Dr. Prashant Singh 2) Dr. Gaurav Saxena	Professor, Department of Chemistry, DAV (PG) College, Dehradun, Uttarakhand Assistant Professor, School of Biotechnology, Shoolini University, Himachal Pradesh
STE Women Excellence Award	1) Prof. Veena Pande 2) Prof. K. Arunachalam 3) Dr. Amrita Mishra 4) Dr. Kanchan Karki	Head, Department of Biotechnology, Kumaun, University, Nainital, Uttarakhand Associate Professor, School of Biotechnology, KIIT, Bhubaneswar, Odisha Associate Professor, School of Biotechnology, KIIT, Bhubaneswar, Odisha Scientist B, Centre of Excellence for Mountain Biology, Uttarakhand Council for Biotechnology, Govt. of Uttarakhand
STE Best Ideas/Innovations/ Technology for Environment Award	Mr. Abhrajit Chatterjee	Managing Director, Salico Metal Solutions, Kolkata
STE Green Campus Award	Swami Rama Himalayan University Jolly Grant, Uttarakhand	

AWARDS Conferred during EWASH-2023

STE Meritorious Award (For Excellence in Academics and Research)	Dr. Vijay K. Bharti	Scientist 'F', DIHAR (DRDO), Leh, UT-Ladakh
	Prof. Sanjay Gupta	Principal, Himalayan School of Biosciences (HSBS), Swami Rama Himalayan University (SRHU), Jolly Grant, Dehradun
	Dr. Manindra Mohan	Scientist B, Uttarakhand Council for Biotechnology, Department of Agriculture, Govt. of Uttarakhand, Pantnagar
STE Young Researcher Award [Faculty Category]	Dr. Mhaveer Singh	Associate Professor, Pharmacy Academy, IFTM University, Moradabad, U.P.
	Dr. Bushra Parveen	Assistant Professor, Dept. of Pharmacology, School of Pharmaceutical Education & Research, Jamia Hamdard, New Delhi
	Dr. Prachi Singh	Assistant Professor, Dept. of Environmental Sciences, Hindu College, University of Delhi, Delhi
	Dr. Archana Dhasmana	Assistant Professor, Himalayan School of Biosciences, Swami Rama Himalayan University, Doiwala, Sangatiya Walakhur, Uttarakhand
STE Young Researcher Award	Ms. Pranjal	PhD Scholar, School of Biotechnology, KIIT, Bhubaneswar, Odisha
STE Best School Principal Award	Mr. John Paramata	Principal, St. Peter's School, Durgapur
STE Humanitarian Award for NGOs	Hundred Miles Welfare Association, Kolkata	



7. Members of STE

7.1 Life Members (LM)

Sl. No	Name	Designation	Email
1	Prof. Sunil Kumar De	Professor & Head, Dept. of Geography	desunil@gmail.com
2	Dr. (Mrs.) Kshipra Mishra	President, Former Director DRDO	kmisra99@gmail.com
3	Mrs. Chhanda Basu	General Secretary & Social Worker	save1990env@yahoo.co.in
4	Mr. Sanjit Mitra	Treasurer, STE	mitra_sanjit@yahoo.com
5	Mrs. Shubhra Misra	Vice President, Self Employed	s.misra1952@gmail.com
6	Mr. Dipankar Chakraborty	JT. Secretary, Businessman	dipankarchakraborty.7119@gmail.com
7	Dr. Sucheta Chakraborti	Scientist, DRDO	suchetachake61@gmail.com
8	Ms. Rajyasree Ghosh	Oncologist	rgghosh2011@sbcglobal.net
9	Mrs. RupasreeShome	House Wife	rgghosh2011@sbcglobal.net
10	Dr. Jayshree Bhattacharji	Former Director Professor & HOD	–
11	Mr. Om Prakash Vishwakarma	Former General Manager- SAIL	vishwakarmaop12@gmail.com
12	Mrs. Ruma Paramanik	Social Worker	–
13	Mr. Debashis Gupta	Social Worker	deb.dgp@gmail.com
14	Dr. Vaishali Mishra	Teacher	drvaishalimishra2019@gmail.com
15	Mrs. Suparna Kundu	CI	Mouny477@gmail.com
16	Dr. Amit Ganguly	Corporate Trainer (Business Excellence)	aganguly1946@gmail.com
17	Dr. Priyanka Sharma	SC 'B'	ps24july@yahoo.com
18	Dr. Kalpana Bhargava	Scientist F	Kalpanab2006@gmail.com
19	Dr. Shoma Paul Nandi Head, Cellular and Molecular Biotechnology	Professor and Centre	shoma.amity@gmail.com
20	Ms. Priti Kataria	Vice President and Global HR Head-BFSI Business Unit	PRITI@KATARIAS.IN
21	Ms. Aarushi Kataria	Student	aarushikataria10@gmail.com
22	Dr. Mrs. Susan Titus	SCIENTIST 'G'	stitus@rediffmail.com

Sl. No	Name	Designation	Email
23	Miss. Shachi Atreya	Principal, Adarsh Vidyalaya, Haridwar	
24	Dr. Sujata Kelkar	Private Practitioner	kelar.sujata@gmail.com
25	Dr. Murlidhar J. Mendki	Scientist 'F'	murlidhar@mendki.com
26	Dr. Anuja Bhardwaj	Research Associate, IARI	anujabhardwaj75@gmail.com
27	Dr. Sriparna Dutta	Assistant Professor, Dept. of Chemistry, Delhi University	sriparna.duttacncnew@gmail.com
28	Dr. Jigni Mishra	Research Associate, STE	jignimishra@gmail.com
29	Miss. Shereen Bajaj	Research Scholar, STE	shereen.bajaj17@gmail.com
30	Dr. Mamta	Associate Professor, Galgotias University, Greater NOIDA	mamataforensic@gmail.com
31	Dr. Lakhi Ram Chauhan	Scientist 'F'	lakhiramchauhan@yahoo.com
32	Prof. Gausal A. Khan	Professor	gausalk@gmail.com
33	Dr. B. Rupini	Professor	brupini@ignou.ac.in
34	Dr. Nupur Bahadur	Fellow & Senior Scientist	nupur.bahadur@teri.res.in
35	Ms. Aola Supong	Research Scholar	aolas@rediffmail.com
36	Er. Meheub Alam	Executive Engineer	meheubjgec1990@gmail.com
37	Ms. Harit Bagga	PGT (Sr.) Biology	haritbagga2577@gmail.com
38	Ms. Adit Bedi	PGT (Sr.) Chemistry	aditbedi@hotmail.com
39	Dr. Rama Dubey	Scientist 'E'	r_dubey172@rediffmail.com
40	Prof. Navin Kumar	Professor & Head	navinbajpai@gmail.com
41	Dr. Sonali P.Mazumdar	Senior Scientist	sonalimazumdar110@gmail.com
42	Mr. Mahidhara Davangere	Managing Director and Qualified Actuary	mahidhara@pramartha.com
43	Dr. Sandhya Mishra	Associate Professor	dr.sandhya.mishra@gmail.com
44	Dr. Devanshi Magoo	Assistant Professor	devanshimagoo@hinducollege.ac.in
45	Dr. Saurabh J. Sharma	Associate Professor	saurabh.sarma@bennett.edu.in
46	Dr. Geetanjali Sageena	Associate Professor	geetanjalisageena@gmail.com
47	Dr. Ankita Verma	Research Associate	ankitavermag@gmail.com
48	Dr. Parimal Bhomick	Assistant Professor	paribhomick15589@gmail.com
49	Dr. Usha Panjwani	Scientist 'G'	ushapanjwani6@gmail.com
50	Dr. Kavita Khatana	Assistant Professor	kavita.khatana_2015@ galgotiasuniversity.edu.in

Sl. No	Name	Designation	Email
51	Prof. Kaushik Pal	Professor	kaushik@me.iitr.ac.in
52	Ms Tanvi Sharma	Student	tanvi.ssharma12@gmail.com
53	Mr. Subhojit Chatterjee	Sports Physiologist	subhochatterjee.3@gmail.com
54	Dr. Rajlakshmi Mallik	Director	rajlakshmi.mallik@gmail.com
55	Dr. Archana Kumar	Associate Professor	akumar21@amity.edu
56	Mrs. Monika Rani	PGT, Hindi	mrani0083@gmail.com
57	Mr. Om Prakash Singh	Retired Bank Manager	opsingh.cbi09@yahoo.in
58	Dr. Girija Bharat	Director	gbharat@mugammaconsultants.com
59	Prof. Upasana Bora Sinha	Professor	upasanaborasinha@gmail.com
60	Ms. Babita Kumari	TO 'B'	babitkmr1978@gmail.com
61	Ms. Sudipta Chanda	TO 'D'	sudiptachanda2017@gmail.com
62	Mrs. Deepti Mishra	MBA (Mktg. & HR)	deeptimisra786@gmail.com
63	Ms. Arpita Banerjee	Self-employed	arpitasbanerjee@gmail.com
64	Dr. Rakhi Dey Sharma	Assistant Professor	rakhidey70@gmail.com
65	Ms. Angelina E. Titus	Student of Doctor of Pharmacy (5th yr.)	angelina23ash@gmail.com
66	Ms. Madiha Khan	Student	mk8078071@gmail.com
67	Mr. RajamaniMohanram	Technical Officer 'B'	mohanr@nmrl.drdo.in
68	Mrs. Chitra Pawar	Technical Officer 'B'	deshmukh.chitra29@gmail.com
69	Dr. Neelam Bhalla	Retired Senior Scientist, DRDO, Ministry of Defence	drbhallaneelam@gmail.com
70	Mr. Mahadan Mondal	Self employed	-
71	Mr. Ganesh Mukherjee	Service	-
72	Prof. K. Obealannavar	Professor	kotresh.obelannavar@gmail.com
73	Dr. SarlaShashni	Scientist	sarla.shashni@yahoo.co.in
74	Mr. Shashank Misra	Founder Ekak Innovations	shashankmisra@outlook.com
75	Dr. Sankha Chakraborty	Assistant Professor	sankha.nit@gmail.com
76	Dr. Radha TK	Senior Scientist	radhamicro@gmail.com
77	Dr. Mohd. Javed Ansari	Assistant Professor	mjavedansari@gmail.com
78	Dr. Yasmin Ahmad	Scientist 'E'	yasminchem@gmail.com
79	Dr. Sonu Ambwani	Assistant Professor	sonuambwani@yahoo.co.in
80	Dr. Sushmitha Baskar	Assistant Professor	sushmithab@ignou.ac.in
81	Dr. Suraj K. Tripathy	Associate Professor	suraj.tripathy@kiitbiotech.ac.in
82	Mr. Tarun Maity	Physiotherapist, NRS	tarunmaity.physio@gmail.com
83	Dr. Smrutirekha Mishra	Assistant Professor	smrutirekha.mishra@kiitbiotech.ac.in

Sl. No	Name	Designation	Email
84	Dr. Jayato Nayak	Assistant Professor	nayak.jayato@gmail.com
85	Mr. Susanta Ray	Sr. Superintending Engineer	raysusanta78@gmail.com
86	Dr. Maulin P. Shah	Chief Scientist & Head	maulinshah1979@gmail.com
87	Mr. Ajay Kataria	Sr. Vice President & Dy. AML Compliance Head	-
88	Prof. Shachi Shah	Director & Prof. in Environmental Studies	sshah@ignou.ac.in
89	Mr. Suvankur Sukul	Independent scholar in English	suvankursukul2@gmail.com
90	Dr. Nathaniel B. Dkhar	Consultant (Water Resource Management)	nathaniel@mugammaconsultants.com
91	Ms. Mary Abraham	Senior Consultant	mary@mugammaconsultants.com
92	Ms. Avanti Roy Basu	Senior Consultant	avanti@mugammaconsultants.com
93	Dr. Kriti Akansha	Consultant	kriti@mugammaconsultants.com
94	Ms. Manisha Jain	Senior Research Associate	mjain@mugammaconsultants.com
95	Dr. Priya Goel	Assistant Professor	priyagoel@ddu.du.ac.in
96	Dr. Gaurav Gautam	Assistant Professor	gautamgaurav878@gmail.com
97	Dr. A. Arunachalam	Director	arun.icar@yahoo.com
98	Ms. Nitika Tiwari	Research Associate	nitikatiwari09.net@gmail.com
99	Dr. Aradhana Basu	Assistant Professor	aradhanabasu902@gmail.com
100	Dr. Anup Kumar	Senior Scientist	anup0106@yahoo.com
101	Ms. Revathi Swamy	Assistant Professor	revathy@kessc.edu.in
102	Dr. Shirsendu Banerjee	Assistant Professor	shirsendu.banerjee@kiitbiotech.ac.in
103	Mr. Sunil Kr. Sharma	Researcher	sunilkrsharma63@gmail.com
104	Dr. Ratul Kr. Das	Consultant, STE	raatulkrdas@gmail.com
105	Dr. Mhaveer Singh	Associate Professor	maahishaalu7@gmail.com
106	Dr. Gaurav Saxena	Assistant Professor	Gaurav10saxena@gmail.com
107	Dr. Paromita Chakraborty	Professor & Head Centre for Research in Environment, Sustainability	paromitc@srmist.edu.in

7.2 Annual Members (AM)

AM No.	Name	Designation	Email
1	Ms. Pallabi Banerjee	Research Scholar	pallabi.poly24@gmail.com
2	Ms. Madhulika Prasad	PhD scholar & DST Woman Scientist-A	esthermadhu@gmail.com
3	Ms. Swati Singh	Research Scholar	ss86302727@gmail.com
4	Ms. Madiha Khan	Student	mk8078071@gmail.com
5	Ms. Maneeza Khan	Student	maneezakhan786@gmail.com

7.3 International Member

AM No.	Name	Designation	State	Email
1	Dr. Satinder Kaur Brar	Professor and James and Joanne Love Chair in Environmental Engineering	CANADA	satinder.brar@lassonde.yorku.ca
2.	Dr. Manjulata Singh	Postdoctoral Research Associate		Manjulata.Singh@vcuhealth.org
3.	Dr. Dilduzajabborova	Associate Professor		dilduzajabborova@yahoo.com
4.	Dr. Abduljalil Narimanov	Director		narimanov63@list.ru
5.	Dr. Abdulakhat A zimov	Senior Scientist		sharifa_9996@mail.ru
6.	Dr. S.M. Nabiev	Head		m.saydigani@mail.ru
7.	Dr. Saikat Kumar Basu	PFS, Executive Research Director	CANADA	saikat.basu@alumni.uleth.ca
8.	Prof. Amitava Adhikary	Research Associate Professor, Dept. of Chemistry	USA	adhikary@oakland.edu
9.	Dr. Shubankar Suman	Associate Professor	USA	ss2286@georgetown.edu

8. Acknowledgements

8.1 Our Sponsors

WTI, DST, Govt. of India
NABARD
Gaur Surgicals
Agilent Technologies

8.2 Awards/ recognition received for DART

Silver Medal for Innovative Technology in Anveshan Competition on 29 June, 2003 at IIM, Ahmedabad
WATI (Women and Technology Innovation) National Award by Bhartiya Stree Shakti for innovative Technology -2004
DRDO Spin-off Technology Award- 2007
NRDC, GOI –Social Innovation Award-2012

8.3 Our Collaborators

AIIPH, Kolkata t Hindu College, University of Delhi
Amra Sabai Happy Club
Anchrom Enterprises Pvt. Ltd., Mumbai
Brindaban Matri Mandir
CSIR-NEERI, Delhi Zonal Centre
DRDO, Govt. of India DST, Govt. of India
DST, Govt. of India
Environment & Social Development Association (ESDA), Delhi SOITS, IGNOU, New Delhi
Fight Cancer, Amra Sabai Happy Club, Vidyasagar Park MWA
Heritage School, Kolkata
Hindu College, University of Delhi
Indo-Canada Environment Facility
Milan Samity-Hrishikesh Park
NSHM, Durgapur
Royal Society of Chemistry (London)-North India section CSIR-NEERI, Delhi Zonal Centre
SOITS, IGNOU, New Delhi
Suraksha Diagnostics
Swami Rama Himalayan University (SRHU), Dehradun, Uttarakhand
Vidyasagar Park MWA

9. Management

STE is backed by a great management-force that has been working relentlessly to make this organization to achieve the status it has reached today. STE has following managing-committee members:



Prof. Arunabha Majumdar

Patron
Chairman, Indian Water Works Association (IWWA) and Ex Director, Professor & Head, Department of Sanitary Engineering, AIHH&PH, Kolkata and Guest Professor, School of Water Resources Engg., Jadavpur University.



Dr. (Mrs.) Kshipra Misra

President
Retired Senior Scientist, Drdo
Flat No. 1107, Block 17,
Heritage City, Mg Road,
Gurugram
9871372350



Prof. Sunil De

Vice President
Head, Department of
Geography, North Eastern Hill
University, Shillong & Vice
President, International
Association of Geomorphologist



Dr. Kishore Amin

Vice President
Scientific Officer - F, Co-
Investigator, International
Cancer Genome Consortium
ACTREC, Mumbai, Maharashtra
9862009202



Mrs. Shubhra Misra

Vice President
Self Employed Mnav 44,
Aparajita, Near Devi
Choudhurani Kali Bari Bengal
Ambuja, Durgapur, West Bengal



Dr. Jayashree Bhattacharjee

Vice President
Former Director Professor &
Hod Department Of Bio
Chemistry Faculty Of Medical
Sciences University Of Delhi
9810350956



Mrs. Chhanda Basu

General Secretary
Social Worker P-778a, Lake
Town, Block – A, Kolkata –
700089
9830779260



Mr. D Chakraborty

Jt. Secretary
Business 1, Acharya Jagadish
Chandra Bose Road, Paschim
Barisha, South 24- Parganas,
Kolkata – M700 063



Mr. Sanjit Mitra

Treasurer
Service 59/1/2, Raja Rammohan
Sarani Kolkata – 700 009
8697748859



Dr. Sushil K. Singh

Member
Scientist 'F',
SSPL (DRDO), Delhi



Ms. Jigni Mishra

Member
Former Associate Fellow &
Principal Indian PhD supervisor
at Teri-Deakin
Nanobiotechnology



Dr. Ratul Kumar Das

Consultant
Former Associate Fellow &
Principal Indian PhD supervisor
at Teri-Deakin
Nanobiotechnology Centre,
New Delhi .
Former Honorary Fellow, IFM,
Deakin University, Australia.





Head & Registered Office

12, Diamond Harbour Road, Kolkata-700 063
info@stenvironment.org • save1990env@yahoo.co.in
<https://www.stenvironment.org>