



# Annual Report 2021

**SAVE THE ENVIRONMENT**  
**KOLKATA | GURUGRAM**

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# Letter from President STE

## Preface

It gives me immense pleasure to present the annual report of Save the Environment-2021. STE has come a long way and like every year STE has been able to depart its duties towards the society in spreading awareness on environment, health, water quality and other related areas. Slowly and steadily, we are coming out of the cruel grip of COVID pandemic. It's time for self-introspection on our existence in this world and contemplate on our moral responsibilities towards the nature.

This brief annual report outlines our sincere efforts to reach the society and spread the message of protecting natural resources and thereby serving nature to the best of one's abilities. Last year we started with fortnightly lecture series in online mode. The program became a huge success because more people were benefitted by joining the lectures through online platform. Like the year 2020, this year also various eminent speakers were invited to deliver their talks on different environmental and other related issues in online mode.

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 in the society by various means .

STE has always been very assiduous to work for the welfare of the society not only in spreading the awareness but also to community services. This year STE along with other collaborators like Suraksha Diagnostics, Brindaban Matri Mandir, Fight Cancer, Amra Sabai Happy Club, Vidyasagar Park MWA and Milan Samity-Hrishikesh Park etc. organised vaccination drive and free ration-camp for the needy. This task would have been remained incomplete without the myriad support in the form of donations received from STE members, their families and others outside STE.

Year 2021 has been pivotal for STE to organise conferences. Along with IGNOU, we could organize a National Conference on Emerging Trends to Heal the Earth and Environment (ETHEE) on World Ozone Day. EWASH-2021 and the 3rd annual meet of STE was also conducted successfully. Both the 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)

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## 1. Abbreviations

**AII&PH:** 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

**IGNOU:** Indira Gandhi National Open University

**IIM:** Indian Institute of Management

**IWWA:** Indian Water Works Association

**NEERI:** National Environmental Engineering Research Institute

**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

**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

As we described year 2020 as 'Revengeful Year' meaning by the year of nature's revenge to human beings. We can now describe year -2021 'Year of Healing' as people all over the world irrespective of their class, creed and category were trying to coming to terms after confronting this great havoc of this century. The life that had become standstill for more than a year was questioning mankind "After all whose fault was COVID?" Covid-19 reminded human beings about the destruction they have caused to all ecosystems and various species dwelling in them. Although the cause behind the pandemic is not yet ascertained but it has come as a deterrent to the entire human race to constrain all those activities that cause harm to the environment and to other species of the world including microscopic.

Environmental science which finds place as modern disciplinary science, finds its origin through 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 functioning of nature like water, earth, air, forests etc. Any kind of harm to the nature's vitals was considered as sin and for any inadvertent action the seers seek forgiveness as:

“यत्त्वांस्त्रनामिपृथिवी, तत् पुनः शीघ्रंभवेत् हे शुद्धि, मात्तवप्राणान्हृदयंवाक्षतिकुर्मः”।  
"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:

***Mitrasyaahamchakshushaasarvaanibhuutaanisameekshe.***  
***May I look at all beings with the eye of a friend.***  
***Mitrasyachakshushaasameekshaamahe.***  
***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

**SAVE THE ENVIRONMENT (STE), an NGO,** was founded and registered on 29 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 क्रियमाणानि गुणैः कर्माणि सर्वशः।  
अहङ्कारविमूढात्मा कर्ता ऽहमिति मन्यते॥३-२७॥

*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.

## **STE International 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 /Academics 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.

## 6. Events/Programmes during the year

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 environment protection at various levels is increasing thereby enhancing the responsibilities of the NGOs. Even after more than 70 years of independence, Indian population still lacks in awareness regarding environment safety. This has happened because still two-third of our population still lives in poverty. They are simply unaware regarding environment protection rather struggles to make ends meet. In this scenario the responsibility of NGOs like STE is further enhanced. STE is totally dedicated towards the cause of environmental safety and health. During the year 2021, STE has organized various events and programmes on environmental development issues that has come out to be beneficial to the different levels of the society. The details of all the events conducted during the year are given below:

### 6.1. STE's Prerana Samman 2021- International Women's Day

**Date & Venue: Webinar on 08th March**

**Organisers: Save the Environment & Hindu College, University of Delhi**

With the theme for International Women's Day, 'Women in Leadership: Achieving an Equal future in a COVID-19 World', STE in association with Hindu College organized a webinar on 8 March 2021, along with STE's **Prerana Samman-2021** to celebrate the enormous efforts by women and to recognize the extraordinary talent and commitment demonstrated by them. The STE **Prerana Samman** was awarded to the following for their exemplary role in different sectors of our society.



**Dr. Gauri G. Pandit**, adjunct professor IIT Bombay and Former Head environment monitoring and assessment section, BARC, Trombay for her contribution to the assessment of long-term impact of radioactive and non-radioactive pollutants on environmental.

**Mrs. Priti Kataria**, Vice President and Global HR, head infrastructure and cloud services, digital operations platform, Risk Services and Enterprise Cyber Security Wipro Limited, Mumbai for her exceptional experience in resourcing startup operations, large business setup across regions nationally and internationally and integration of large business units globally.



**Mrs. Gurjeet Kaur**, inspiring social development professional has designed and developed management programs campaigns and strategic partnerships involving women's right, gender-based violence, food security and rural entrepreneurship development.

## 6.2 World Environment Day Celebration

Date & Venue: 5<sup>th</sup> June, Online

Organisers: **Save the Environment & Elpis Organization, Kolkata**

STE organized Quiz Competition on 5 June 2021 on World Environment Day to raise awareness of the environment and sensitize the young generation to take prompt action to reverse the rate of deterioration of Mother in collaboration with Elpis Organization. Elpis Organisation was founded by a group of four high school students **Madiha Khan, Maneeza Khan, Deepshikha Banerjee, and Titash Majumdar** from **The Heritage School, Kolkata** with the intent to provide a unique platform to GenZ for raising voices to save the environment. The occasion was graced by **Dr. Kshipra Misra**, President STE & Former Additional Director, DIPAS, DRDO, Delhi. The quiz questions were based on the **World Environment Day 2021** theme “*Ecosystem Restoration*” and there were two groups: Group 1 (classes 6-8) and Group 2 (Classes 9- 12). It was held through a Google Form link mailed to all. About 200 participants from all around the world. Later on, a **virtual Award Ceremony** was held on **12th June 2021**.

## 6.3 Community Outreach Program – Free Ration Camp

Date & Venue: **20th June, Durgapur, West Bengal**

Organisers: **Save the Environment**

A Free Ration Camp in Faridpur Village, Durgapur, Distt. Burdhan, West Bengal was organized on June 20, 2021. This was a step towards helping the needy and under-privileged people during the coronavirus pandemic. The members of STE distributed food and COVID protection items to about 100 underprivileged families. The STE team is grateful to all the donors and participants for their kind support towards a great service towards the mankind.

## 6.4 COVID-19 Vaccination Drive

Date & Venue: **4th July, 2021, Biswa Bangla Convention Centre, Kolkata**

Organisers: **Save the Environment STE, Suraksha Diagnostics, BrindabanMatri Mandir, Fight Cancer, Amra Sabai Happy Club, Vidyasagar Park MWA and Milan Samity-Hrishikesh Park**

As part of its humble efforts for fulfilling social duties, especially during the ongoing pandemic crisis, STE along with various collaborators organized a COVID Vaccination Camp. at The camp was conducted under the esteemed guidance of Dr. SubirGanguly (famous veteran oncologist). 151 persons were vaccinated in this camp. Many lesser privileged persons were given the shot absolutely free of cost and others received it at a subsidized rate. Free of cost transportation, snacks and water were arranged. STE is grateful to the collaborators and wishes to continue doing social work for the betterment of society, with kind support from its patrons.

## 6.5 National Conference on Emerging Trends to Heal the Earth and Environment (ETHEE)

Date & Venue: **18th September 2021, Online**

Organisers: **Save the Environment STE, School of Interdisciplinary and Trans-disciplinary studies (SOITS, IGNOU)**

The conference was organized the year's celebration of World Ozone Day. The event was in alignment with this year's theme by UN i.e., 'Montreal Protocol -Keeping us, our food and vaccines cool'. As a concerted step for the above perspective, the aforesaid conference culminated as an intellectual amalgamation of eminent academicians, researchers, government authorities and policy makers to discuss various themes relevant for Ozone preservation. The event was graced by our Chief Guests Prof. Nageshwar Rao, Hon'bl Vice-Chancellor, IGNOU & Patron, ETHEE; **Prof. Sumitra Kukreti**, Pro-VC, IGNOU & Co-Patron, ETHEE and Prof. Satyakam, Pro-VC & Director, CFSDS, IGNOU and, Guest of Honor **Prof. Arunabha Majumder**, Chairman, IWWA, Emeritus Professor, SWRE, Jadavpur University & Ex-Director, Dept. of Sanitary Engg., AIIHPH & Patron, STE. The conference was a great success with pertinent talks delivered by eminent invited speakers, keynote lectures and various oral talks and poster presentations.

## 6.6 EWASH-2021

International Conference on 'Environment, Water, Agriculture, Sustainability & Health (EWASH-2021) and 3rd Annual Meet of Save The Environment was organized on 21st – 22nd January, 2022, in joint collaboration with **Department of Chemistry, Hindu College, Delhi University, Delhi** and in association with **CSIR-National Environmental Engineering Research Institute, Royal Society of Chemistry London-North India Section** and **Environment and Social Development Association (ESDA), Delhi**. Around 350 delegates including the life members of STE society participated in the EWASH- 2021 conference, which was very kindly supported by **NABARD**. The conference was an intellectual amalgamation of expert academicians, eminent scientists, policy makers, environmentalists, industry personnel and contemporary researchers who engaged on various pertinent topics about deep rooted environmental issues and sustainable approaches to solve existing environmental problems on the local, national, and global scale, especially as the world strives to recover from the pandemic phase. Enlightening keynote and invited talks were delivered by distinguished scientists of national and international repute. Noteworthy oral and poster presentation sessions were conducted. Numerous student activities were organized.

This was also the where eminent researchers and pioneers who have inspirationally contributed towards water conservation, environmental protection and social upliftment in recent times were felicitated. **Prof. Sandeep Verma**, Secretary, SERB, Dept. of Science & Technology, Govt. of India & **Professor, IIT Kanpur** and **Shri. S.K. Varshney**, Head, International Cooperation, Dept. of Science & Technology, Govt. of India graced the event as Honorable Chief Guests in the inaugural session and valedictory session, respectively. STE annual awards were also felicitated during the conference.

### AWARDS Conferred during EWASH-2021

| Award Title                                       | Recipient Name  | Designation & Affiliation   |
|---|---|---|
| STE Dr. APJ Abdul Kalam Award                     | Dr. B.C. Chakraborty  | Former Outstanding Scientist & Principal Associate Director. Naval Materials Research Laboratory, DRDO, Ambarnath, Maharashtra  |
| STE Dr. Praloy O Basu Life Time Achievement Award | Prof. Laxman Prasad   | Director, RKGIT Group, Ghaziabad & Former Adviser, DST, Govt. of India  |
| STE International Achiever Award                  | 1) Prof. Amitava Adhikary<br>2) Dr. Mariam Mwangi<br>3) Dr. Abheepsa Mishra<br>4) Dr. Krishna Chaitanya | Research Associate Professor<br>Deptt. of Chemistry, Oakland University, Rochester, MI, USA<br>Associate Professor in Dept. of Crops, Horticulture & Soils, Egerton University, Njoro, Kenya<br>Senior Scientist, Renal Biology, Novo Nordisk, Denmark<br>Principal Scientist at Ichnos Sciences Biotherapeutics SA, Switzerland. |
| STE Fellowship Award Govt. of India               | 1) Shri S.K.Varshney<br>2) Dr. Devendra Verma   | Scientist 'G' & Head, Intl. Cooperation DST,<br>Scientist 'G' & Director, PM, DRDO, Ministry of Defence, Govt. of India   |

|   |  |  |
|---|--|--|
| <b>STE Green Excellence Award</b>                                     | <p>1) Prof. Anju Srivastava</p> <p>2) Prof. R.K. Mahajan</p>   | <p>Principal, Hindu College, University of Delhi, Delhi</p> <p>FNASc, CSIR Emeritus Scientist, Dept. of Chemistry, GNDU, Amritsar and Ex. Vice Chancellor, DAV University, Jalandhar</p>   |
| <b>STE Meritorious Award For Excellence in Academics and Research</b> | <p>1) Dr. Yasmin Ahmad</p> <p>2) Prof. Upasana Bora Sinha</p>  | <p>Scientist 'E', DIPAS (DRDO), Delhi</p> <p>Professor, Department of Chemistry, Nagaland University</p>   |
| <b>STE Water Award</b>  | <p>1) Dr. Nupur Bose</p> <p>2) Dr. Girija K. Bharat</p>  | <p>Associate Prof. and Head Dept. of Geography, A.N. College Patliputra University, Patna</p> <p>Director, Mu gamma Consultants Pvt. Ltd., Gurgaon</p>   |
| <b>STE Women Excellence Award</b>                                     | <p>1) Dr. Madhu Vats</p> <p>2) Dr. Neelima Alam</p> <p>3) Dr. Sonu Ambwani</p>   | <p>Head, Dept. of Botany, Ma Amba Degree College Baghat, Meerut</p> <p>Scientist F, Technology Missions Division (Energy, Water &amp; All Other)</p> <p>Assistant Professor, Dept. of MBGE, GBPUA&amp;T, Pantnagar</p>   |
| <b>STE Best Ideas/Innovations/ Technology for Environment Award</b>   | <p>1) Dr. R.L. Mukherjee</p> <p>2) Prof. Anju Srivastava<br/>Dr. Reena Jain<br/>Dr. Lalit Kumar</p>                      | <p>Scientist, Inventor and Founder, HMRC, Howrah</p> <p>UV-C disinfection machine</p>  |
| <b>STE Young Researcher (Faculty) Award</b>                           | <p>1) Dr. Parimal Bhomick</p> <p>2) Dr. Sankha Chakraborty</p>   | <p>Assistant Professor Immanuel College, Dimapur</p> <p>Assistant Professor KIIT School of Biotechnology, Bhubaneswar</p>  |
| <b>STE Young Researcher Award</b>                                     | <p>3) Dr. Radha T.K.</p>   | <p>Senior Scientist, Division of Crop Protection, Indian Institute of Horticultural Research</p>   |
| <b>STE Best Teacher Award</b>   | <p>1) Dr. Uma Bhardwaj</p> <p>2) Mr. Ram Gopal Raturi</p> <p>3) Mrs. Monika Rani</p> <p>4) Mr. Subrata Chattopadhyay</p> | <p>PGT, DPSG, Site 3, Meerut Road, Ghaziabad</p> <p>Lecturer (Biology) and Program Officer of National Service Scheme at Saraswati Vidya Mandir Inter College Awas Vikas Rishikesh</p> <p>PGT Hindi, Haryana Government Education Department</p> <p>Director and Founder Principal Purv International School Kamalpur Durgapur</p> |
| <b>STE Humanitarian Award for NGOs</b>                                | <p>1) Inner Voice Foundation (CAMRO), Varanasi, U.P.</p>   | <p>C/o Mr. Saurabh Singh<br/>Chief Functionary, CAMRO</p>  |

### **6.7. Online Lecture Series in collaboration with Hindu College**

Like 2020, due to pandemic most of the programmes during the year 2021 were also organized in online mode. STE along with Hindu college, Delhi University continued with webinar-series in which various eminent speakers were invited to give their talks on different environmental issues. All the webinars witnessed a generous gathering of delegates including scientists, researchers, environmentalists, social workers and policy makers, who stayed connected with us and interacted fervently in the Q&A sessions that followed each webinar. It was indeed an enlightening occasion, and the support received by the audience has certainly motivated STE and its associates for undertaking future endeavors related to environment protection and related health aspects.

## List of webinars organized during the year:

| WebinarNo./Date<br>Organizers | Speaker/Topic   | Outcome  |
|-------------------------------|---|--|
| 1/22nd January                |  <p><b>Dr. David S. Ricketts</b><br/>Fellow at Technology and Entrepreneurship Centre at Harvard (TECH), Harvard John A Paulson School of Engineering and Applied Sciences<br/><i>'Innovation: Creating impact and prosperity for tomorrow'</i></p>  | Key roots to innovation is to start with product thinking, moving ahead with the thinking of people, finding the problems and finally look for the possibilities.  |
| 2/09th February               |  <p><b>Dr. Seetha Somasundaram</b><br/>Emeritus Scientist, Raman Research Institute, Bangalore, Ex-director of Space Science program office at ISRO<br/><i>'What is Exciting about Science?'</i></p>  | Human lives have been revolutionized from a hunter to a highly sophisticated living being due to scientific knowledge. She also motivated students to study not for the sake of marks or prizes but for the knowledge. |
| 3/25th February               |  <p><b>Padma Shri Prof. Anil K. Gupta</b><br/>CSIR Bhatnagar Fellow 2018-21, Founder, Honey Bee Network, SRISTI, GIAN &amp; NIF Visiting Faculty, IIMA &amp; IITB, Academy Professor, ACSIR<br/><i>'Emerging Challenges for Youth Volunteers: Innovation, Inclusion &amp; Integration'</i></p> | Power of innovation is great. Innovation and creativity can come from any sector or part of the society irrespective of its background.  |

## List of webinars organized during the year:

| WebinarNo./Date<br>Organizers | Speaker/Topic   | Outcome   |
|-------------------------------|---|---|
| 4/23rd March                  |  <p><b>Dr. Ramendra Lal Mukherjee</b><br/>Scientist, Founder HMRC<br/>(Research Organization)<br/>Inventor of Micro Microscope<br/>'<i>Story of Inventions</i>'</p>  | <p>Dr Ramendra Lal Mukherjee has 30 international patents for instruments ranging from a device that can help detect skin diseases to a super telescope and a UV emitting device that kills microbes. During his lecture he talked about the stories behind these inventions. This was followed with a question-and-answer session.</p> |
| 5/21st April                  |  <p><b>Dr. Pawan K Dhar</b><br/>Professor at School of Biotechnology,<br/>JNU, Director at Centre of System<br/>and Synthetic Biology, University of<br/>Kerala<br/>'<i>Creativity and Innovation</i>'</p>  | <p>Innovation and creativity are different from each other and how they co-relates with each other in some way. Key roots to innovation is to start with thinking, moving ahead with the thinking of people, finding the problems and finally look for the possibilities.</p>   |
| 6/4th September               |  <p><b>Dr. Basudeb Saha</b><br/>Member of biomass research and<br/>development Technical Advisory<br/>Committee under US Department of<br/>Agriculture (USDA)<br/>US Department of Energy (DOE)<br/>'<i>Upcycling, Unstainable<br/>Development and Circular<br/>Economy</i>'</p> | <p>Main focus on reusing and repurposing unwanted objects to create new products turning biomass into lubricants and plastics into useful chemical intermediates lubricants and plastics into useful chemical intermediates.</p>  |

## 7. Members of STE

### 7.1 Life Members (LM)

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## Awards/ recognition received for DART

- Silver Medal for Innovative Technology in Anveshan Competition on 29<sup>th</sup> 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

## Our Collaborators

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- ◆ DST, Govt. of India
- ◆ AIIHPH, Kolkata
- ◆ Hindu College, University of Delhi
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