



UNITED NATIONS DECADE ON
**ECOSYSTEM
RESTORATION**
2021-2030

1st Announcement



LiFE
Lifestyle for
Environment

HYBRID MODE
National Conference
on

**FRONTIERS IN ENVIRONMENTAL SUSTAINABILITY,
CLIMATE STEWARDSHIP, AND BIOTECHNOLOGY (FESCBT-2026):**
Commemorating Earth Day – “Planet vs. Plastics”

22-23 April, 2026

📍 ICAR-CAFRI, JHANSI, U.P.



Organised by



SAVE THE ENVIRONMENT
Gurugram / Kolkata

Technical Partners



Indian Society of Agroforestry
Jhansi, Uttar Pradesh



**The Society for Science of Climate Change and
Sustainable Environment (SSCE), New Delhi**

Link Conference Registration:

<https://docs.google.com/forms/d/e/1FAIpQLSdbSLLwOTHBdUJYCcs2U0DUOcVq8rBNDLLZhQKWLNIrrNiLw/viewform?usp=header>

QR Code





ABOUT THE CONFERENCE

The National Conference on Frontiers in Environmental Sustainability, Climate Stewardship, and Biotechnology (FESCBT-2026), commemorating Earth Day 2026 under the global theme “*Planet vs. Plastics*,” is envisioned as a dynamic platform for scientists, academicians, policymakers, researchers, industry professionals, and environmental advocates to deliberate on sustainable solutions for a cleaner and greener planet. The conference emphasizes the integration of environmental sustainability, climate stewardship, and biotechnological innovations to address pressing global challenges such as climate change, pollution, biodiversity loss, waste treatment and plastic waste management. It aims to foster collaboration and knowledge exchange among experts working at the intersection of environmental science and biotechnology to promote long-term ecological balance and resource conservation.

This scientific gathering will feature keynote lectures, invited talks, oral and poster presentations, and panel discussions focusing on frontier research areas including environmental biotechnology, climate change mitigation, biodiversity conservation, sustainable agriculture, waste management, and plastic biodegradation. Special emphasis will be placed on promoting circular bioeconomy models, regenerative technologies, and the application of biotechnology in environmental restoration. The conference will provide a unique opportunity for participants to explore the latest innovations in green technologies, bioremediation, renewable resources, and ecosystem restoration that contribute to achieving the United Nations Sustainable Development Goals (SDGs).

Commemorating Earth Day, FESCBT-2026 seeks to inspire collective responsibility and awareness for reducing plastic dependency, safeguarding biodiversity, and promoting climate stewardship through science-based initiatives and sustainable practices. It seeks to create a collaborative research environment that strengthens academic-industry partnerships and generates policy recommendations for sustainable development. Through its multidisciplinary approach, the conference aspires to advance India's and the global community's commitment to environmental protection and responsible innovation, envisioning a future where biotechnology becomes a key driver of sustainability and climate resilience. Ultimately, FESCBT-2026: “*Planet vs. Plastics*” aspires to serve as a catalyst for scientific exchange, policy dialogue, and actionable outcomes that contribute to the reduction of plastic dependency, enhancement of environmental quality, and realization of a sustainable future for all.

THEMES OF THE CONFERENCE

ICAR-CAFRI, Jhansi; Save The Environment (STE) Gurugram / Kolkata; the Indian Society of Agroforestry and the Society for Science of Climate Change and Sustainable Environment (SSCE), New Delhi invites abstracts/papers that must be directly relevant to the following sub-themes:

Theme 1: Agricultural Biotechnology and Sustainable Food Systems

Subthemes:

- ❖ Climate-resilient crops and smart agricultural technologies
- ❖ Genetic engineering and genome editing (CRISPR/Cas, TALENs) for crop enhancement
- ❖ Development of high-yielding, pest-resistant, and climate-resilient varieties
- ❖ Application of plant tissue culture and micropropagation in crop improvement
- ❖ Beneficial soil microbes (biofertilizers, mycorrhizae, PGPR)
- ❖ Microbial inoculants for nitrogen fixation, phosphorus solubilizers
- ❖ Development of biopesticides, biofungicides, and biocontrol agents
- ❖ RNA interference (RNAi) and transgenic strategies for pest resistance
- ❖ Detection and control of emerging plant pathogens through molecular diagnostics
- ❖ Biotechnological approaches to enhance tolerance against drought, salinity, and temperature stress
- ❖ Climate-smart crops for sustainable agriculture under changing environments
- ❖ Biofortification of crops with essential micronutrients
- ❖ Functional foods, probiotics, and nutraceutical development through biotechnology.
- ❖ Biotechnological tools for post-harvest loss reduction and storage improvement
- ❖ Biosensors for detecting foodborne pathogens and contaminants





- ❖ Edible coatings and biodegradable packaging innovations
- ❖ Artificial intelligence in sustainable agriculture
- ❖ Digital Farming for a Climate-Resilient Future

Theme 2: Biodiversity Conservation and Ecosystem Restoration

Subthemes:

- ❖ Monitoring and mapping of terrestrial, aquatic, and marine biodiversity
- ❖ Impact of land-use change, pollution, and invasive species on native biodiversity
- ❖ Use of DNA barcoding, genomics, and metagenomics in species identification
- ❖ Genetic diversity assessment and population structure analysis for endangered species
- ❖ Application of biotechnology in ex situ and in situ conservation
- ❖ Cryopreservation, tissue culture, and cloning for rare and threatened species preservation
- ❖ Nature-based solutions (NbS) and ecological engineering for habitat restoration
- ❖ Ecotourism and livelihood-linked conservation models
- ❖ Impacts of microplastic pollution, eutrophication, and ocean acidification on aquatic life
- ❖ Impacts of global warming on ecosystems and species distribution
- ❖ Adaptation and mitigation strategies for biodiversity under climate stress
- ❖ Biotechnological tools for detection and management of invasives
- ❖ Implementation of international conventions (CBD, CITES, Ramsar, Paris Agreement)
- ❖ National biodiversity strategies, action plans, and legal frameworks
- ❖ Role of biodiversity assessments in Environmental Impact Assessments (EIA)
- ❖ Sustainable financing mechanisms and biodiversity offsets
- ❖ Emerging tools: drones, AI, and GIS for biodiversity monitoring
- ❖ Role of biotechnology and synthetic biology in ecosystem recovery

Theme 3: Education, Awareness, and Policy for Sustainable Future

Subthemes:

- ❖ Environmental education and citizen science initiatives
- ❖ Science communication and behavioural change for sustainability
- ❖ Role of youth and women in environmental stewardship
- ❖ Policy interventions, governance, and sustainable urban development
- ❖ Academia–industry–government collaborations for green innovation

Theme 4: Emerging Biotechnologies for Environmental and Health Sustainability

Subthemes:

- ❖ Environmental DNA (eDNA) and metagenomics for ecosystem surveillance
- ❖ Microbiome analysis for soil, water, and air quality assessment
- ❖ Functional genomics in pollutant degradation and bioremediation
- ❖ Bioinformatics tools and data analytics for ecological risk assessment
- ❖ Design and engineering of microbial chassis for pollution control and bioenergy
- ❖ Synthetic biosystems for CO₂ fixation, waste valorization, and nutrient recycling
- ❖ Development of cell-free biosensors and bio-circuits for environmental detection
- ❖ Green synthesis of nanoparticles using biological systems
- ❖ Nanobiomaterials for water purification, pollutant removal, and antimicrobial activity
- ❖ Targeted drug delivery and diagnostic applications of nanobiotechnology
- ❖ Toxicological assessment and safe use of nanomaterials in the environment
- ❖ CRISPR-based solutions for enhancing stress tolerance and disease resistance in crops
- ❖ Gene editing for bioremediation and waste degradation applications
- ❖ Therapeutic gene editing in combating emerging infectious diseases
- ❖ Microbial and enzymatic biosensors for detecting environmental contaminants
- ❖ Lab-on-a-chip and portable diagnostic devices for field applications
- ❖ Point-of-care technologies for pathogen detection and water testing
- ❖ Integration of AI and IoT in biosensing and environmental diagnostics





- ❖ Production of vaccines, therapeutic proteins, and antibodies through biotechnological routes
- ❖ Algal and plant-based expression systems for pharmaceuticals (“molecular farming”)
- ❖ Role of bioengineering in carbon capture and climate mitigation
- ❖ Microbial and enzymatic processes for greenhouse gas reduction
- ❖ Ecosystem restoration using genetically enhanced microorganisms and plants
- ❖ AI-driven modeling of biological systems for sustainability applications

Theme 5: Environmental Biotechnology and Pollution Management

Subthemes:

- ❖ Biotechnological solutions for pollution control and wastewater treatment
- ❖ Microbial degradation and bioconversion of plastics and pollutants
- ❖ Advances in bioremediation and bioaugmentation technologies
- ❖ Bioengineering approaches for restoring contaminated ecosystems
- ❖ Sustainable industrial biotechnology and bio-based materials
- ❖ Wastewater Treatment and Resource Recovery
- ❖ Solid Waste Management and Bioconversion Technologies
- ❖ Environmental Genomics, Metagenomics, and Bioinformatics
- ❖ Biosensors and Bioindicators for Environmental Monitoring
- ❖ Bioenergy, Biodiesel, Biofuel, and Sustainable Environmental Technologies

Theme 6: Environmental Sustainability and Climate Change Mitigation

Subthemes:

- ❖ Carbon capture, utilization, and storage (CCUS)
- ❖ Environmental policy, planning, and sustainable development
- ❖ Impact of climate change on biodiversity, agriculture, and ecosystems
- ❖ Renewable and clean energy technologies for sustainable development
- ❖ Greenhouse gas reduction, carbon sequestration, and energy-efficient systems
- ❖ Artificial intelligence and IoT for environmental monitoring
- ❖ Sustainable cities, green buildings, and transport systems
- ❖ Nature-based solutions for climate resilience

Theme 7: Plastic Pollution, Bioplastics, and Circular Bio-economy

Subthemes:

- ❖ Environmental and health impacts of plastic contamination in soil, air, and water
- ❖ Monitoring, assessment and mapping of plastic

Theme 8: Water, Soil, and Waste Management

Subthemes:

- ❖ Physicochemical and biological treatment of industrial and municipal wastewater
- ❖ Bioreactors, membrane technologies, and advanced oxidation processes (AOPs)
- ❖ Phytoremediation and constructed wetlands for pollutant removal
- ❖ Water reuse for agriculture and industrial applications
- ❖ Circular economy approaches in water and waste management
- ❖ Safe management of sludge and biosolids
- ❖ Role of biochar and organic amendments in soil detoxification
- ❖ Monitoring soil contamination using molecular and remote-sensing tools
- ❖ Soil microbial diversity and its role in nutrient cycling
- ❖ Integrated nutrient management and organic farming practices
- ❖ Waste-to-energy technologies (biogas, pyrolysis, gasification)
- ❖ Biodegradation and recycling of plastic waste (“Planet vs. Plastics”)
- ❖ Management of e-waste, biomedical, and chemical waste
- ❖ Biotechnological valorization of agri-waste into high-value compounds





Special Session: “Planet vs. Plastics” (Earth Day 2026 Theme)

- Global efforts to reduce plastic dependency
- Community-driven solutions for plastic-free living
- Technological innovations in recycling and upcycling
- Role of biotechnology in plastic degradation
- Public awareness, policy, and behavioural transformation for a plastic-free planet

About Organizers

ICAR-CENTRAL AGROFORESTRY RESEARCH INSTITUTE

ICAR-Central Agroforestry Research Institute (ICAR-CAFRI), formerly the National Research Centre for Agroforestry, is a multidisciplinary premier research institute of the Indian Council of Agricultural Research (ICAR) with a major focus on integrating trees, crops and livestock on the same farmland. With vision to improve quality of life of rural people through integration of perennials on agriculture landscape for economic, environmental and social benefits. This is the only dedicated research institute of the country working on key research areas of agroforestry. CAFRI has developed robust agroforestry models and package of practices for different agroclimatic conditions covering small and marginal farmers and provides technical backstopping to the States and stakeholders.

For details, please visit: <https://cafri.res.in>

SAVE THE ENVIRONMENT (STE)

Save the Environment (STE) is a prominent non-governmental organization (NGO) headquartered in Kolkata, with an active presence in Gurugram and other parts of India. Save The Environment (STE) was founded and registered on 19th November 1990 [Reg no. S/66/489 of 1990-91]. Since then, STE has been privileged to collaborate with organizations and departments of repute, like WWF (India), AIIHPH, Indo-Canada environment facility, DST and DRDO to counter the long-standing issue of arsenic poisoning of water, especially in rural areas of West Bengal, India. Established with the mission of promoting environmental awareness, conservation, and sustainable development, STE works tirelessly to protect natural ecosystems and advocate for responsible environmental stewardship. STE engages in a wide range of activities, including environmental education, research, policy advocacy, and community outreach. Its initiatives cover critical areas such as waste management, water and air pollution control, renewable energy promotion, biodiversity conservation, and plastic reduction campaigns. The organization also conducts seminars, workshops, conferences, and awareness programs to sensitize students, researchers, and the public about pressing environmental challenges and possible solutions. . The NGO also recognizes and supports individuals and organizations contributing to environmental protection through awards and fellowships.

For details, please visit: <https://www.stenvironment.org/>

INDIAN SOCIETY OF AGROFORESTRY (ISAF)

The Indian Society of Agroforestry (ISAF) is a non-for-profit society that dwells on information generation, dissemination and promotion of agroforestry and allied sectors for the cause of enhancing the socio-economic and environmental benefits to the farmers and stakeholders. The Society was founded during the Golden Jubilee Year celebrations of India's Independence in July 1998 with the following objectives:

- To encourage basic, applied and strategic research in the field of agroforestry.
- To disseminate knowledge and technology related to agroforestry.
- To organize & provide facilities for seminars and conferences for agroforestry, scientists, environmentalists, research and development workers and farmers.
- To encourage close cooperation among organizations having interest in the field of agroforestry.

For details please visit: <https://indiansocietyofagroforestry.wordpress.com>





THE SOCIETY FOR SCIENCE OF CLIMATE CHANGE AND SUSTAINABLE ENVIRONMENT (SSCE)

The Society for Science of Climate Change and Sustainable Environment (SSCE) has been formed to lead the awareness drive on various impacts of climate change. Society is planning to initiate awareness drive by writing various articles related to climate change, initiating a review journal, organizing seminars and conferences and highlighting the options of various stakeholders such as farmers, scientists, policymakers, teachers, students and government officers. This awareness drive will help in understanding the causes and consequences of global climate change and their impact on agriculture crop productivity and food security.

For details, please visit: <https://ssceonline.wordpress.com>



STE AWARDS - 2026

LAST DATE 25th March 2026

Save The Environment Awards–2026 are a tangible symbol of the eminence and excellence of contributions made by individuals and institutions. These awards inspire and encourage contributors who have demonstrated outstanding dedication in diverse fields of science and social service, through their expertise, commitment, and purposeful approach toward achieving meaningful societal goals. Recognizing such extraordinary efforts is essential to boost confidence, foster continued excellence, and honour remarkable service rendered to science and society. Save The Environment (STE) confers the following categories of awards and honours upon such eminent personalities:

1. STE Dr. APJ Abdul Kalam Award

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. Nominations will be from STE.

2. STE Dr. Praloy O. Basu Lifetime Achievement Award

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. Nominations will be from STE.

3. STE Green Excellence Award

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

4. 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.





5. **STE Women Excellence Award**

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

6. **STE Water Awards**

The awards are conferred to the Indian nationals who have made a difference in the area of water by their efforts.

7. **STE Best Innovation for Environment Award**

8. **STE Best School Principal Award**

9. **STE Best Teacher Award**

10. **STE International Achiever Awards**

11. **STE Meritorious Award for Excellence in Academics and Research**

12. **STE Young Researcher Awards (Age limit: Faculty/ researchers between 25 to 40 years can apply.)**

13. **STE Humanitarian Award for NGO**

14. **STE Green Campus Award**

15. **STE Student Award**

A. School Level

B. College Level

Eligibility Criterion: Only individuals who hold active membership with Save The Environment (STE) are eligible to apply for the award and applicants must be registered members of Save The Environment (STE) prior to submitting an application for the award.

For more information, please log on to our website: www.stenvironment.org/ste-awards/

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ARTICLES ARE INVITED FOR THE INTERNATIONAL JOURNAL OF ENVIRONMENT AND HEALTH SCIENCES

This journal is being published by Save the Environment. Send your manuscripts for peer-review by e-mail. The authors must mention address, Contact Nos. and E-MAIL ID in their forwarding letter. Proof will be sent for correction before publishing. A pledge for originality will be signed by the authors.

We are pleased to announce that the DOI prefix for International Journal of Environment and Health Sciences is now available from Crossref, the official Digital Object Identifier (DOI). **The journal is now indexed in International Scientific Indexing (ISI).**

For further details, please contact Chief Editor at:

ijehseditor@gmail.com

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visit our website: www.stenvironment.org





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CALL FOR ABSTRACT

Abstracts and original papers are invited on the conference themes and subthemes for poster and oral presentations. The soft copy of the abstract in MS Word format (Times New Roman, font size 12, spacing 1.5) must include a suitable title, a list of authors, affiliations, the name of the presenting author that should be underlined, and contact details of the presenting author, including email. The abstract should not exceed 300 words including 5-6 keywords with a major emphasis on the background of the problem, methodology, results, and discussion, and should be submitted to the organizer fescbt2026jhansi@gmail.com by **31st March, 2026**. The abstracts will be published in the 'Souvenir and Abstract Book' and released in the inaugural session of the conference. The participants may present their papers at the Conference by oral/poster whereas UG and PG students of basic sciences are encouraged to demonstrate their innovative ideas through flow charts or models.

ORAL AND POSTER PRESENTATION

Papers are invited for oral and poster presentations. Each oral presentation will be given ten minutes, with a maximum of fifteen slides that must contain the following elements: an introduction, materials and methods, results, and conclusion. It is recommended that the oral presentation be converted to PDF format before the presentation/submission. The poster should be related to the topic and sub-themes of the Conference. The poster should be 3x4 feet in portrait style and must contain the following elements: a title, name, theme, and affiliation at the top, and the introduction, materials and methods, results, and conclusion as the major portion. The poster should be clearly visible from a distance of 1 meter.

CONFERENCE AWARD

The Organizing Committee of FESCBT-2026 will confer the following awards during the conference:

1. FESB-2026 Best Oral Presentation Award
2. FESB-2026 Best Poster Presentation Award
3. FESB-2026 Related to Topic (Sustainable Environment)
4. FESB-2026 Best Innovation Award (UG/PG students only for Innovative Ideas or Models)

IMPORTANT DATES

Conference Dates	22-23 April, 2026
Registration and Abstract Submission Starts	15.02.2026
Last Date of Registration without late payment	31.03.2026
Last Date of Registration with late fees	12.04.2026
Abstract submission Deadline	31.03.2026

The above dates are mandatory and strictly followed by Organizing and Publication Committee.





REGISTRATION

Particulars

Faculties/ Delegates/Scientists/Academicians Scientists
Research Scholars/ Junior Resident/ Senior Resident
Students (Graduate/PG)
Online Participants
Corporate / Industry Delegates

Fee

Rs. 3000.00
Rs. 2000.00
Rs. 1500.00
Rs. 1000.00
Rs. 5000.00

Late Fee

Rs. 3500.00
Rs. 2500.00
Rs. 2000.00
Rs. 1500.00
Rs. 5500.00

BANK DETAILS FOR ELECTRONIC TRANSFER

Account Name: Save The Environment

Account Number: 60475457174

Bank and Branch: Bank of Maharashtra, Kalkaji, New Delhi-110019

IFSC Code: MAHB0000974

Google Pay to: Mrs. Chhanda Basu; Mobile No.9830779260



ACCOMMODATION

The accommodation will be arranged on payment basis if requested by the delegates / participants to the organisers.

About Jhansi

Jhansi, a historic city in Indian state of Uttar Pradesh lies in the Bundelkhand region and is known as the karmbhumi of Rani Laxmi Bai. The city is well connected to Delhi, Mumbai, Chennai, Hyderabad, Lucknow, Bangalore and other major cities of India by rail and road network. The nearest Airports are at Khajuraho, New Delhi, Agra, Gwalior, Lucknow and Bhopal. Jhansi Fort, Orchha temple and Fort, Orchha Wildlife Sanctuary, Sukma Dukma Dam, Gwalior Fort, Khajuraho, Panna National Park and other attractions can be approached by road in short time. Jhansi is also a hub of education and learning, housing prestigious universities and research institutions that draw students from across India. Jhansi City has good number of budget hotels that could be booked online. Guest houses at ICAR-CAFRI, ICAR-IGFRI, RLBCAU and Bundelkhand University may also be availed by the delegates on first come first serve basis.





QR Code for Registration



Contact Person:

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STE SECRETARIAT

SAVE THE ENVIRONMENT (STE)

(A SOCIETY FOR RESEARCH, AWARENESS & SOCIAL DEVELOPMENT)

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