



8 March 2025

>>>E-NEWSLETTER<<<

ECOVISION

Redefining Waste, Restoring Balance

Edited by:
D.R.Neha
GC Member, ZWSI

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Published by
Zero Waste
Society of India,
Indian Institute of
Science Campus
Bengaluru-560012,
Email:zerowastesocietyiisc@gmail.com

➤ HON. PRESIDENT'S MESSAGE:

*Zero Waste Society of India was started by **like-minded** Scientists & Social groups who were interested for cause of **protection of environment**.*

*The Society had conducted **Work shops, Webinars & Seminars** for generating Wealth like E Waste, Municipal Waste etc.,*

*Prominent Speakers involved in developing technologies & Companies marketing the **State of Art technologies** were involved.*

*ZWSI is aimed to **reach common people & Students** by **Organising awareness programmes** on Clean and Green environment, Impact of various Pollution on Human health*

I congratulate the team for bringing up the e-newsletter

*With warm wishes,
Dr.N C Shivaprakash
Hon.President,ZWSI*



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HON. GENERAL SECRETARY'S MESSAGE:

Dear Citizens,

*As we move towards a **Zero-Waste Society**, it is our collective responsibility to adopt sustainable practices that protect our environment and future generations. Waste is not just a byproduct of our lives; it is an opportunity to rethink, reduce, and repurpose.*

*Our vision is to **eliminate landfill dependency, reduce pollution, and promote a circular economy** where resources are utilized efficiently. To achieve this, we must commit to waste **segregation at source, minimizing single-use plastics, composting organic waste, and supporting recycling initiatives**. Small actions, when multiplied across millions, create a powerful impact.*

*I urge each one of you—**residents, businesses, policymakers, and institutions**—to embrace this movement with determination. Together, we can build a cleaner, greener, and more sustainable India. Let us work hand in hand to transform waste into wealth and create a future where nothing goes to waste.*

Let's Reduce, Reuse, and Recycle for a Better Tomorrow!

Warm regards,

Dr.Prathibha B S

Hon.Gen.Secretary, ZWSI

Governing Council Members of ZWSI 2024-2025



Dr. N C Shivaprakash
Hon. President



Dr. Supreeth
Hon. Vice President



Dr. Prathibha B S
Hon. General Secretary



Ms. Harshitha N
Joint Secretary



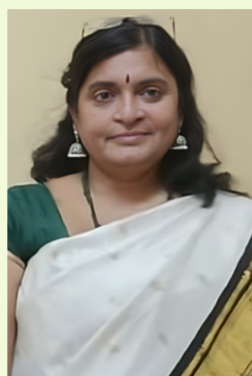
Dr. Shashi Shekhar T R
Treasurer



Dr. M A R Iyengar
GC Member



Dr. Sreevathsan
GC Member



Dr. Helen Roselen
GC Member



Prof. Nandini. N
GC Member

Governing Council Members of ZWSI 2024-2025



Ms. Shamitha Gaddam
GC Member



Mr. Shrihith P Reddy
GC Member



Ms. D R Neha
GC Member



Dr. H.K.T. Kumar
GC Member

Dr. Mylarappa M
GC Member

Advisors



**Dr. B.R.
Balagangadharan**



**Prof. E.S.
Dwarakadasa**

About Us

The **Zero Waste Society of India (ZWSI)** is a pioneering organization committed to advancing sustainable waste management and environmental conservation in India. Founded by esteemed technocrats from the **Indian Institute of Science (IISc)** and various industries, ZWSI aims to facilitate the transfer of waste utilization technologies, promote innovative solutions, and contribute to a zero-waste circular economy. The organization bridges the gap between industries, scientists, entrepreneurs, and NGOs, fostering **technological advancements in waste recycling, resource conservation, and sustainable development**. Through its extensive efforts, ZWSI has hosted a range of impactful events, including the **Webinar on Remediation of Chemically Contaminated Lakes**, providing expert insights into water pollution control, and the **Sustainable Initiatives Towards a Zero Waste Society** emphasized life cycle assessment, circular economy, waste minimization, and renewable energy adoption like solar and biogas for sustainability, and the **Workshop on Wealth from Waste: E-Waste Management**, addressing sustainable solutions for electronic waste handling. Additionally, the society actively engages in environmental audits, research collaborations, and awareness programs that align with global sustainability goals.

Key challenges faced by ZWSI include public resistance to new waste management technologies, regulatory hurdles, and funding constraints, but the organization remains steadfast in its mission through collaborative efforts and scientific innovation. The current **President of ZWSI, Prof. N.C. Shivaprakash**, an Emeritus Professor with expertise in Electronic & Analytical Instrumentation, Embedded Systems, and Cryogenic Technologies, has led numerous R&D projects with ISRO, DRDO, DST, and CSIR, bringing valuable leadership to the society. To further its objectives, ZWSI also mentors research in **waste and effluent management, renewable energy solutions, agricultural innovations, and sustainability-driven product development**, contributing to patent-worthy discoveries. For detailed information on **membership eligibility, benefits, and application procedures**, please visit zerowastesociety.in. By joining ZWSI, members become part of a **transformative movement that promotes environmental stewardship, responsible resource management, and sustainable innovation for a greener future**.

"My Waste, My Responsibility: A Call to Action"

The "My Waste, My Responsibility" initiative is a significant movement in India aimed at promoting individual accountability in waste management to achieve cleaner and more sustainable communities. This campaign emphasizes that effective waste management begins at the personal level, with each individual taking responsibility for the waste they generate.

Example of the "My Waste, My Responsibility" movement is seen in Bengaluru, Karnataka, where local communities and municipalities have collaborated to establish sustainable waste management practices. Efforts such as home composting, plastic waste reduction, and decentralized waste collection have significantly minimized landfill dependency. With active citizen participation, Bengaluru's zero-waste initiatives highlight how collective responsibility can drive meaningful environmental change.

These initiatives underscore the importance of community engagement, education, and the adoption of sustainable practices to address India's waste management challenges. By taking personal responsibility for waste, individuals contribute significantly to environmental conservation and the creation of healthier living spaces.



Engaging Minds, Inspiring Action: Webinar & Workshop Recap

**WORKSHOP ON
“WEALTH FROM WASTE
SERIES- 1 E-WASTE”**

Date: 23rd November 2019 | Venue: Chokshi Hall
INDIAN INSTITUTE OF SCIENCE, BENGALURU



Organized by
Zero Waste Society of India
Electrochemical Society of India

Sponsors
Karnataka State Pollution Control Board
EastWest Institute of Technology, Bengaluru
M/s. TES-AMM India Pvt. Ltd.
M/s. R/G Private Limited
E-Parisaraa Private Limited

Coventers
Dr. Shashi Shekhar T.R.,
EastWest Institute of Technology, Bengaluru
Dr. Sureshtha T.R.,
Acharya Institute of Technology, Bengaluru

Inauguration by
Shri Basavaraj V. Patil, IAS
Member Secretary
Karnataka State Pollution Control Board

Speakers
Dr. A. Ramesh, CEO, KSPCB
Shri Anupam Vishwas, TES-AMM
Shri Guba Jayaram, R/G

E-WASTE MANAGEMENT



**THE ZERO WASTE
SOCIETY OF INDIA**
INDIAN INSTITUTE OF SCIENCE
CAMPUS,
BENGALURU - 560 012

A workshop on “Wealth from Waste Series 1-EWaste” is being organized on 23rd November 2019. The workshop will include expert lectures on the state of art technologies to handle and manage various types of E-Waste generated by the Urban Society. Professionals from industry and academia will interact with government agencies and NGOs to formulate suitable programs for efficient waste handling. A number of experts will deliver the lectures on the following topics with **Industrial visit to E-Parisaraa** located at Dabaspet near Bangalore. Persons working in Government, NGOs, Industries and R&D would be benefited from this workshop.

Zero Waste Society of India
Indian Institute of Science
Campus Bengaluru – 560 012

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Wealth from Waste - E-Waste Workshop

A specialized workshop on sustainable e-waste management was conducted on **23rd November 2019** at the Indian Institute of Science, Bengaluru. The event featured expert lectures on advanced technologies for handling and managing e-waste generated by urban society. Industry professionals, government agencies, and NGOs engaged in discussions to develop effective waste management strategies. A key highlight of the workshop was an **industrial visit to E-Parisaraa**, India's first government-authorized e-waste recycler, providing participants with practical exposure to sustainable recycling processes.

Webinar on Remediation of Chemically Contaminated Lakes

On **19th September 2020**, an informative webinar was organized, focusing on the remediation of chemically contaminated lakes. Led by **B.V. Subba Rao**, an expert in water, environment, and climate change, the session explored major concerns, challenges, and potential solutions for restoring polluted water bodies. Participants, including researchers, environmentalists, and policymakers, gained valuable insights into sustainable approaches to water remediation. The webinar aimed to raise awareness and promote actionable strategies for environmental conservation.



Zero waste Society of India [ZWSI]
(ECSI, IISc, Campus, Bengaluru)

Webinar on

“Remediation of Chemically contaminated Lakes, Concern, Challenges and Probable Solutions”

B.V. Subba Rao M.Sc, DIET
Independent Professional
Expert - Water, Environment & Climate Change

Saturday, 19th September 2020
05.00 PM – 6.30 PM

Dr. Balagangadhar
Hon. President, ZWSI

Dr. Supreeth
Hon. Vice-President, ZWSI

Vayshak
Hon. Gen. Secretary, ZWSI

Convener
Dr. Prathibha B.S.
Hon. Joint Secretary, ZWSI

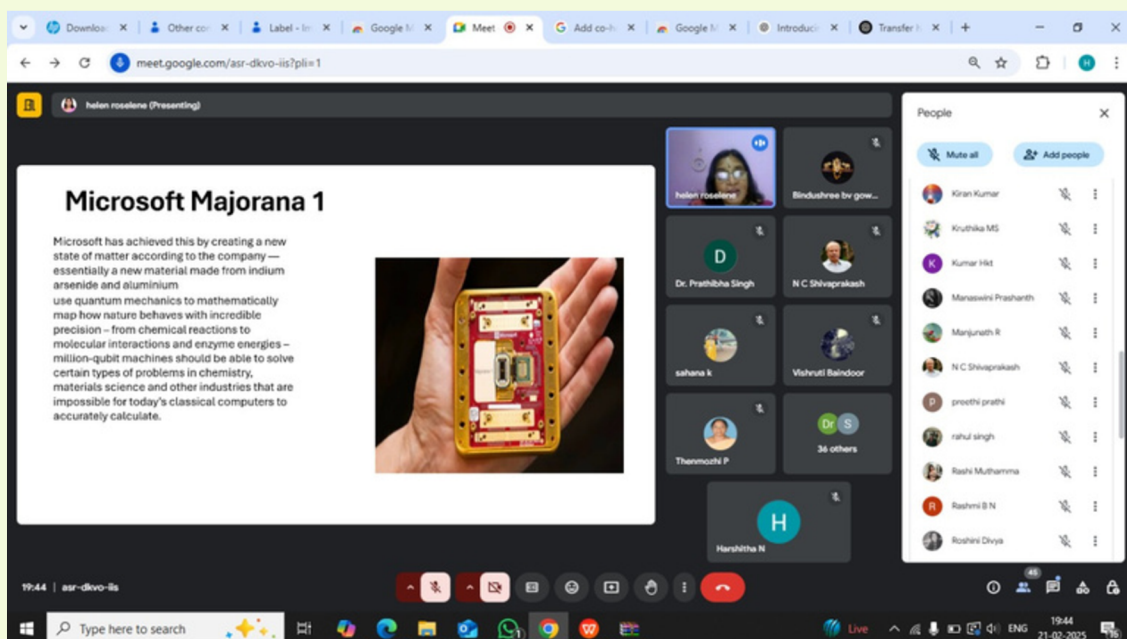
Webinar Link: <https://meet.google.com/jcd-pvab-goe>
Registration Link: <https://forms.gle/9UjQNW1XetAjdJHp9>

Webinar on Sustainable Initiatives towards Zero Waste Society

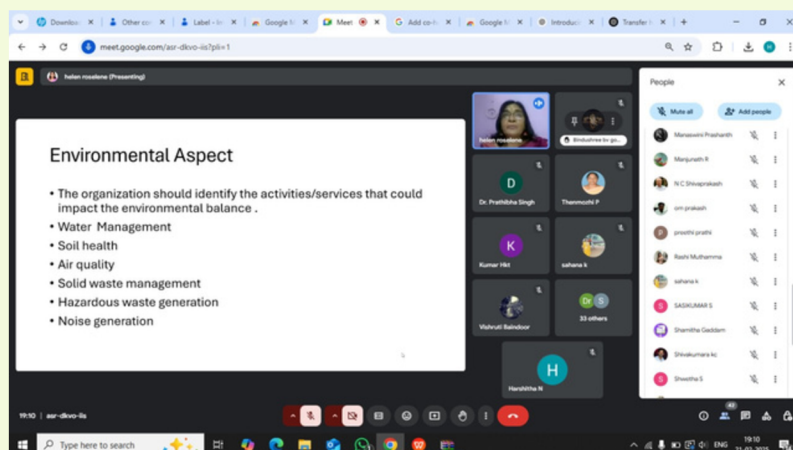


The online webinar on "Sustainable Initiatives Towards Zero Waste Society" was successfully conducted on **February 21, 2025**. Organized by the Zero Waste Society of India (ZWSI), the session aimed to create awareness and provide practical insights into sustainable waste management strategies. The event attracted a diverse audience, including environmental professionals, academicians, students, and sustainability enthusiasts eager to contribute towards a zero-waste future.

The webinar featured an enlightening talk by Dr. Helen Roselene, GC Member, Professor & Head of Environmental Science at Mount Carmel, and a Certified Lead Auditor (ISO 14001). She shared valuable insights on various waste minimization strategies, circular economy principles, resource efficiency, and life cycle assessment, emphasizing the importance of adopting eco-friendly practices at individual and community levels. Dr. Helen highlighted the significance of reducing, reusing, recycling, and upcycling waste, along with the role of innovative technologies in sustainable waste management. Her session underscored the pressing need to transition towards a circular economy by reducing dependency on landfills and promoting renewable energy sources such as biogas and solar energy.



The session was moderated by Dr. Prathibha B S, Hon. Gen. Secretary, ZWSI, and was graced by the presence of Dr. N.C. Shivaprakash, Hon. President, ZWSI (ECSI, IISc, Campus, Bengaluru). The interactive Q&A session allowed participants to engage directly with the speaker, fostering an engaging discussion on real-world challenges and feasible solutions in waste management.



To gauge the impact of the webinar, feedback forms were circulated among attendees, and the responses indicated an overwhelmingly positive reception. Participants appreciated the informative content, engaging delivery, and relevance of the topic in today's context. Many attendees expressed their eagerness to implement the discussed sustainable practices in their personal and professional lives.



As a token of appreciation, certificates were awarded to all attendees, acknowledging their participation and commitment to sustainability. Additionally, a Certificate of Appreciation was presented to Dr. Helen Roselene for her invaluable contribution and insightful presentation.

The webinar was a resounding success, reinforcing the commitment of ZWSI towards promoting sustainable waste management practices and fostering a collective movement towards a zero-waste society.

"Voices of Impact: Feedback & Takeaways"

BHOOMIKA

THE VALUABLE TAKEAWAY IS THE APPLICATIONS OF DIFFERENT VARIABLES LIKE LIFE CYCLE ASSESSMENT OF A PRODUCT AND ENVIRONMENTAL MANAGEMENT SYSTEM AND AUDITING TO ANALYSE AND MANAGE THE SOLID WASTE GENERATED AND TO APPROACH A SUSTAINABLE FUTURE.

PUJANJALI U

WASTE REDUCTION, RECYCLING SOLUTIONS, MINIMIZE ENVIRONMENTAL IMPACTS, AND SUSTAINABLE PRACTICES

OMPRAKASH N

V

EXPLANATION WAS
GOOD

VISHRUTI BAINDOOR

THE IMPORTANCE OF CONNECTING ECONOMIC, SOCIAL AND ENVIRONMENTAL FACTORS IN MOVING TOWARDS A SUSTAINABLE FUTURE.

JIYA SHAILESHKUMAR GAMIT

THE FACT THAT THE IDEA BEGINS AT HOME, WHEN TALKING ABOUT THE CONCEPT OF ZERO WASTE WE NEED TO REALISE THAT THE INITIATIVES SHOULD FIRST START WITH US AND THEN WE CAN MOVE ON TO THE BIGGER PROBLEMS.

DR K RAJU

REALLY NICE AND WONDERFUL PRESENTATION ND VERY INFORMATIVE PRESENTATION ND USEFUL

Distinguished Achievements: ZWSI Members Making a Difference

Congratulations to all the Achievers...

Prof. N. C. Shiv Prakash is appointed as the **Ombudsman** for Netaji Subhash Chandra Bose Institute of Higher Learning (NSCBIHL), a Deemed University established by the Government of India.



Dr. B. R. Supreeth, Syndicate Member of Bengaluru North University, has been recognized for his significant contributions to academia and university governance.

The **Portable Water Tank Cleaning Machine** is an innovative design patented in India, granted to **Dr. Prathibha B S, Ms. Harshitha N, and Ms. D. R. Neha**. This design enhances the efficiency of cleaning water storage tanks by ensuring effective removal of sediment buildup and bacterial growth, leading to improved hygiene and water quality.



Dr. H. K. T. Kumar's Green Think Box is an innovative household waste management solution developed under **Mylar Tree Pvt. Ltd.** with support from **Siddaganga Incubation Foundation**. Using shock-treated microbial paper carriers, it efficiently decomposes food waste through anaerobic treatment, producing nutrient-rich compost while preventing odors and pests. For more information about this solution, please move over to the next page.



MYLAR TREE

Innovative Green Think Box

For treating food waste at household level



Air tight lid with a single way vent and shock treated microbial paper carrier



Shock treated microbial paper carrier inserted in box



Pour the kitchen waste into the Green Think Box and close the airtight lid.

Unique Value Proposition

- Air tight lid with a single way vent and shock treated microbial paper carrier
- Anaerobic reaction
- No flies, germs and 2-3% odour.
- User friendly
- Easy maintenance
- Converts food and kitchen waste into nutrient rich fermented food waste



White fungus formation shows healthy fermentation and ready to mix with soil for compost.



Fermented waste food mixed with the soil for composting



Fermented waste food is pour in to the hole and buried for composting

Process:

Pour the daily produced kitchen waste and food waste into the box and close the air tight lid. Continue till the waste food level reaches the red mark marked on the box. Keep the filled air tight Green Think Box for 10 days outside in Sun light (Avoid Rain). Pour the fermented food into the soil near the plant and turn the soil for composting or dig the hole and pour the fermented food and closed.

Benefits

- * Soil Fertility Increases
- * Retains moisture content
- * NPK Value Enhances
- * Organic manure free from chemicals
- * Reduces Health hazards, Water & Air pollution
- * Support Organic Farming, Gardening and Terrace Gardening



WHAT SHOULD BE ADDED INTO GREEN THINK BOX

Sambar and liquids should not be added to the Green Think box.

All Types of food waste, vegetable, fruit peels, left over food & crushed egg shells

MYLAR TREE PRIVATE LIMITED
Siddaganga Incubation Foundation
SIT, Tumakuru
Email: mylartree@gmail.com
Mob: 9844234205/9964313582



Join the Movement: Exciting Events Ahead!

Stay tuned for a series of engaging webinars and hands-on workshops designed to equip you with cutting-edge knowledge on sustainability and waste management. Students can earn AICTE activity points, gain valuable internship opportunities, and receive certificates to boost their professional portfolio—all while making a real impact on society! Don't miss out on these enriching experiences. [Become a ZWSI member today](#) and be the first to access these exciting events, contribute to a greener future, and be part of a passionate community working towards a [Zero Waste Society](#)!





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"Nothing can dim the light that shines from within."

"This ZWSI newsletter is dedicated to celebrating and empowering all the wonderful women who inspire, lead, and make a difference every day"

"Wishing all the incredible women a Happy International Women's Day!"