



The Institution of Engineers (India)

TAMILNADU STATE CENTRE

BULLETIN



Dr. V. KARTHIKEYAN, FIE.
Chairman

Er.D.GOKUL, MIE
Honorary Secretary

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From the Chairman's Desk.....



Dear Fellow Engineers,

I am happy to reconnect with all of you through this latest news bulletin.

The Institution of Engineers (India) Tamilnadu State Centre, in collaboration with Thiagarajar Polytechnic College and Government Higher Secondary School, Yercaud, celebrated World Environment Day on

6th July 2024 by planting more than 50 tree saplings at Government Higher Secondary School, Yercaud with the participation of our committee members.

In continuation, the Institution of Engineers (India), Tamilnadu State Centre organized a seminar on the theme "SDG Goals - Role of Engineers in Achieving Carbon Neutrality" as part of the World Environment Day celebrations under the National Environment Climate Change Forum, in association with Anna University, on 13th July 2024 at the Centre for University-Industry Collaboration, Anna University, Chennai. Dr.A.Sivathanupillai, Founder, CEO & MD of BrahMos Aerospace and Chairman of NECCF, IE(I) TNSC, and Dr. R. Velraj, Vice Chancellor of Anna University and Vice Chairman of NECCF, IE(I) TNSC, were the guests of honor.



The Tamil Nadu State Centre of the Institution of Engineers (India), in association with Thiagarajar Polytechnic College, organized an All India Seminar on "Green Manufacturing" from 26th to 27th July 2024 at the TPT Alumni Auditorium in Salem. Mr. Valliappa Chockalingam, Ph.D. Scholar from The University of Tokyo, Japan, was the chief guest and inaugurated the seminar. The event witnessed enthusiastic participation from corporate members across various engineering sectors and students, contributing to its tremendous success.

I am happy to share that our first outstation committee meeting of Tamilnadu State Centre took place on 6th July 2024 at Yercaud.

I request all the current corporate members to fill out the "Know Your Membership (KYM)" form to help us update our database. Please submit the completed form to the IE(I), TNSC office or email it to ieitamilnadu@gmail.com (or) tncs@ieindia.org. This notice is important, so please make sure to share it with your fellow IE(I) members and colleagues.

Dr.V.Karthikeyan, FIE.,
Chairman, IE(I),TNSC

From the Hon Secretary's Desk.....



Dear Corporate Members,

I extend my warmest greetings to all my esteemed members!

The Institution of Engineers (India) Tamil Nadu State Centre organized two All India Seminars on Mechanical and Civil Engineering divisions, World Environment Day Celebrations and Dr K C G Verghese Memorial Lecture during this July month.

The Institution of Engineers (India) Tamilnadu State Centre under the National Environmental Climate Change Forum in association with Anna University organized the Seminar on the theme "SDG GOALS - Role of Engineers in Achieving Carbon Neutrality" on 13th July 2024 at Anna University on the occasion of World Environment Day Celebrations. More than 300 participants from various Government Schools, Engineering Colleges, Polytechnic Colleges and industries were participated and made the event a grand success. A healthy panel discussion was held during the seminar on the theme of SDG Goals. Awards were presented to the schools and colleges for environmental activities conducted in their respective institutions and schools.

All India Workshop on "Perspectives of Microbial Concrete & other Sustainable Construction Materials"

in association with SRM Valliammai Engineering College, Kattankulathur was held during 30 & 31 July 2024 . This workshop was conducted in a grand manner and all the invited lectures from various institutions and industries. The outcome of the event was civil engineering students gain comprehensive insights and practical skills, preparing them for a future in eco-friendly construction.

All India Seminar on Trends in Aviation (Civil & Defense) in association with IAAA and Periyar Maniammai Institute of Science & Technology , Thanjavur during 30 & 31 August 2024 at Thanjavur. I invite all the corporate members to participate and make the seminar a grand success.

IE(I) Tamilnadu State Centre should increase the membership strength of our Institution. All our committee members and corporate members should aim for a massive membership drive in Engineering Colleges and Industries requesting their faculties and engineers to enroll themselves as the members of IE(I).

All the meetings are available in our IEI TNSC You Tube Channel. I request all our corporate members to visit our IEI TNSC You Tube Channel and SUBSCRIBE for further notification of technical events and kindly visit our website (ieitnsc.org) for more information.

Thank you all for your continuous support and participation.

Er. D. Gokul, MIE
Honorary Secretary

One Day Seminar on "Waste to Energy Technology" (05/07/ 2024)

The Institution of Engineers (India), Tamilnadu State Centre, under the aegis of Environmental Engineering Division Board, IE(I) in association with Thiagarajar Polytechnic College(Sona Institutions), Salem organized One Day Seminar on **"Waste to Energy Technology"** on 05th July 2024 at TPT Alumni Auditorium, Thiagarajar Polytechnic College, Salem



Dignitaries lighting the Kuthu Vilakku

The event commenced with the auspicious Tamizhthaai Vazhthu at 9:30 AM followed by the lighting of the Kuthu Vilakku by dignitaries, students, and participants from various institutions.

Er. K. Mariappan, National MSME Council Member, Govt. of India & Co- Chairman, ASSOCHAM Development Council of Tamilnadu was the chief guest and commended the efforts of the participants for coming forward to present the research papers.



Dr.V.Karthikeyan Chairman IEI, TNSC honouring the Chief Guest Er.K.Mariappan with shawl and memento

Dr. V. Karthikeyan, Chairman of IE(I) Tamil Nadu State Center, Chairman of Environment Division

Board, IE(I) and Principal of Thiagarajar Polytechnic College, delivered the welcome address. He welcomed the chief guest, committee members, and participants, and he expressed his gratitude to **Dr. G. Ranganath**, President, IE(I) for approving the One Day Seminar on "Waste to Energy Technology".

He discussed about the waste management practices, including the differences between organic and inorganic waste, the importance of recycling, the role of landfills, and the benefits of composting. He gave an overview of the recycling technologies used at TPT campus, including the vermicomposting and waste water treatment plants.

Er. N. Senthilkumar, Convener and Committee Member of IE(I), TNSC, delivered the thematic address. He emphasized the importance of a low-carbon economy, Waste to Energy 2.0, and sustainable development. He also highlighted several key points relevant to India's context. He stressed that India faces numerous challenges in the operational field of waste-to energy conversion, including:

1. Efficient processing of biodegradable waste
2. Accurate quantification of waste and energy output
3. Improving the mechanical properties of waste-derived fuels

Dr. K. Thangaraj, Chairman of IE(I) Salem Local Centre, felicitated the gathering with his broad ideas on renewable energy.

Dr. G. Maheswaran, Committee member of IE(I) Salem Local Centre, felicitated the gathering with his insightful perspective on energy conversion. He suggested reframing the concept of "waste" to "unused resources," emphasizing the transformation from "unused to used energy." He highlighted recent updates in renewable energy technologies and stressed the importance of health information in this context.

Er. K. Mariappan, National MSME Council Member, Govt. of India & Co-Chairman ASSOCHAM Development Council of Tamilnadu a renowned engineer in Salem, is widely recognized as the visionary behind the inception of the new bus stand and airport in the city. In his inaugural address, he eloquently highlighted the transformative potential of renewable energy and its capacity to reshape the world's energy landscape.

Key points from Er. K. Mariappan's address:

1. **Renewable Energy Impact:**
 - Emphasized how renewable energy technologies can significantly reduce carbon emissions
 - Discussed the potential for energy independence and sustainability in local communities
2. **Waste Management:**
 - Stressed the critical importance of recycling in effective waste management
 - Highlighted innovative approaches to turning waste into valuable resources
3. **MSME Opportunities:**
 - Presented various opportunities for Micro, Small, and Medium Enterprises (MSMEs) in the renewable energy sector
 - Encouraged the future engineering fraternity to initiate startups in this growing field
 - Outlined potential areas for innovation and entrepreneurship in clean technology
4. **Professional Journey:**
 - Shared insights from his impressive 50-year professional career
 - Discussed how he adapted to and embraced new technologies throughout his career
 - Offered valuable lessons on professional growth and staying relevant in a rapidly evolving industry
5. **Sustainability in Engineering:**
 - Explained the importance of incorporating sustainable practices in engineering projects
 - Shared examples from his own experiences in implementing eco-friendly solutions in urban development

Dr. V. Karthikeyan, Chairman of IE(I) Tamil Nadu State Center and Principal of Thiagarajar Polytechnic College, and IE(I) committee members on behalf of Institution of Engineers (India) and SONA institutions, honoured Er.K.Mariappan, for his 50 years of significant services for the engineering fraternity.

One of the most anticipated moments of the seminar was the release of the meticulously compiled proceedings in the form of a souvenir. This significant event took place during the inaugural session, marking a key milestone in the day's proceedings.

The souvenir, a testament to the seminar's scholarly depth, contains 117 research papers covering five crucial topics related to waste-to-energy technology, providing a comprehensive overview of this emerging field. The honor of releasing this valuable compilation fell to the chief guest, Er. K. Mariappan. He was accompanied by Dr. V. Karthikeyan, Chairman of IE(I), TNSC, and Principal of Thiagarajar Polytechnic College, along with IE(I) committee members.



Releasing of souvenir

Invited Talk 1: Green Energy - A Way Forward by Er. S. Balagurunathan, Director of NIRT, Renewable Energy, Salem



Invited Talk by Er. S. Balagurunathan, Director of NIRT, Renewable Energy, Salem

- **Development Indicators:** Er. S Balagurunathan discussed how the adoption of green energy technologies serves as a key indicator of a nation's sustainable development progress.
- **Climate Change:** The speaker emphasized the urgency of addressing climate change, highlighting its far-reaching impacts on global ecosystems and human societies.
- **Green House Gases (GHG):** A detailed explanation was provided on the various greenhouse gases, their sources, and their contributions to global warming

Invited Talk 2: Waste to Energy Technology by

Er. P.Kumar, Head - Environment at JSW Steel Pvt. Ltd., Salem

- **Sustainable Development Goals (SDGs):** Er.P Kumar emphasized the relevance of waste-to-energy technologies in achieving multiple SDGs, particularly those related to clean energy, sustainable cities, and climate action.
- **Waste Utilization Hierarchy:** The speaker outlined the prioritized approach to waste management, from reduction and reuse to recycling and energy recovery.



Invited Talk by Er. P.Kumar, Head - Environment at JSW Steel Pvt. Ltd., Salem

Waste to Energy Technology: A detailed explanation of various waste-to-energy conversion processes was provided, including incineration, anaerobic digestion, and gasification.

Paper Presentation

Er.M.Ponni, HoD(i/c)/Civil Engineering, Thiagarajar Polytechnic College, Dr. R. Lavanya, Lecturer/Civil Engineering, Thiagarajar Polytechnic College,

Er. D. Krishna Kumar, AEE(Retd), TWAD, Er. P. Venugopal, Former SL (Civil), Thiagarajar Polytechnic College, and Ms. G. Latha, HoS/ Chemistry, Thiagarajar Polytechnic College, were acted as Chairperson for the evaluating the paper presentations. More than 100 papers were received from various engineering colleges and the best three papers were presented during the technical session in the afternoon.

The Valedictory Session:

The seminar concluded with a valedictory function that showcased the event's success and impact. **Er. M. Ponni**, HoD (i/c) of Civil Engineering at TPT, warmly welcomed the attendees, including dignitaries, IE(I) committee members, participants, and students from various departments.

Ar. M. Jegadeeswaran, Co-Convener and Dy/HoD of Architecture at TPT, presented a comprehensive summary report, highlighting the impressive participation of 117 research papers from diverse institutions such as SONA College of Technology, Hindustan College of Engineering, and Er. K. Perumal Manimegalai Polytechnic College, among others.



Award of certificates by Dr.V.Karthikeyan, Chairman IEI, TNSC

Dr. V. Karthikeyan, Chairman of IE(I) Tamil Nadu State Center and Principal of Thiagarajar Polytechnic College, delivered an inspiring valedictory address, commending the organizing team's efforts. The ceremony also included the presentation of certificates to participants, honoring of chairpersons with shawls and mementos, and concluded with a vote of thanks by **Er. J. Umanambi**, Committee Member, IE(I) TNSC & HoD of Architecture at TPT, followed by the National Anthem, marking the end of a successful and enlightening seminar.

All India Seminar on "Green Manufacturing" (26 & 27 /07/ 2024)

The Institution of Engineers (India), Tamilnadu State Centre, under the aegis of Mechanical Engineering Division Board, IE(I) in association with Thiagarajar Polytechnic College (Sona Institutions), Salem organized All India Seminar on "**Green Manufacturing** " on **26 & 27 July 2024** at TPT Alumni Auditorium, Thiagarajar Polytechnic College, Salem

The event commenced with the auspicious Tamizhthaai Vazhthu on July 26, 2024, followed by the lighting of the Kuthu Vilakku by dignitaries, students, and participants from various institutions. **Mr.Valliappa Chockalingam**, Chief guest, presided over the inauguration of the seminar. He emphasized the importance of creating awareness among students about the green manufacturing of renewable energy resources.

Dr. V. Karthikeyan, Chairman of IE(I) Tamil Nadu State Center and Principal of Thiagarajar Polytechnic College, delivered the welcome address. He welcomed the chief guest, committee members, and participants, and he expressed his gratitude to Dr. G. Ranganath, IE(I) President, for approving the All India seminar on Green Manufacturing.



*Welcome Address by Dr.V.Karthikeyan
Chairman IEI,TNSC*

Er.G.Balasivaramasubramanian, Convener and Committee member of IE(I),TNSC, delivered the thematic address. His address likely delved into the core concepts, challenges, and opportunities related to sustainable industrial practices.

Dr. K. Thangaraj, Chairman of IE(I) Salem Local Centre, felicitated the gathering

Er.Valliappa Chockalingam, PhD Scholar, The University of Tokyo, Japan felicitated the gathering with his insightful perspective on green manufacturing. His address focused on the critical aspect of material reuse.

Key Points:

- **Circular Economy:** Emphasized the importance of adopting a circular economy model in manufacturing processes.
- **Apple iPhone Example:** Cited Apple's iPhone as a case study, highlighting the company's efforts to make their products 100% reusable. This showcased the potential for creating products with minimal environmental impact.
- **Material Reuse:** Advocated for innovative strategies to reuse materials effectively, thereby reducing waste and conserving resources.



Inaugural Address by Mr.Valliappa Chockalingam

Overall, Sri.Chockalingam's speech brought a global perspective to the seminar, emphasizing the potential of technology and innovation in driving sustainable manufacturing practices.

Er. S. Natarajan, Former Management Rep. & TQM Head SAIL, Committee Member, IE(I), TNSC. focused on the crucial role of steel in the context of green manufacturing. He emphasized the significance of steel as a fundamental material in various industries and explained how steel can contribute to sustainable manufacturing practices. Er. S. Natarajan's speech likely bridged the gap between the steel industry and green manufacturing, demonstrating how a traditional industry can contribute to a sustainable future.

Dr. V. Karthikeyan, Chairman of IE(I) Tamil Nadu State Center and Principal of Thiagarajar Polytechnic College, honoured **Er.Valliappa Chockalingam** on behalf of IE(I) committee members and SONA institutions.



*Honoring the Chief Guest Er.Valliappa Chockalingam by
Dr. V. Karthikeyan, Chairman, IE(I), TNSC*



Honoring Guest of Honor Er.S.Natarajan

The souvenir, a testament to the seminar's scholarly depth, contains 121 research papers covering five crucial topics related to green manufacturing, providing a comprehensive overview of this emerging field was released by Er.Valliappa Chockalingam. He was accompanied by Dr. V. Karthikeyan, Chairman of IE(I), TNSC, and Principal of Thiagarajar Polytechnic College.



Releasing of Souvenir

The Technical session of the seminar commenced with an enlightening presentation by the invited speaker, **Dr. A. Kumaravel**, Professor and Dean, **KSR College of Technology, Tiruchengode**. His

comprehensive lecture, titled "Green Manufacturing" provided valuable insights into the critical role of reverse engineering in addressing its process offered a profound understanding of the subject matter.

A pivotal aspect of Dr.A. Kumaravel's lecture was the emphasis on reverse engineering as a cornerstone of sustainable manufacturing processes. By meticulously examining existing products and processes, valuable insights can be gleaned to optimize resource utilization, minimize waste, and enhance overall environmental performance.



Invited Talk by Dr.A.Kumaravel

Potential areas of focus in Dr.A.Kumaravel's presentation could include:

- Definition and scope of green manufacturing:
- The role of reverse engineering:
- Case studies: .
- Challenges and solutions:
- Future trends and technologies.

The second invited lecture of the seminar was delivered by **Dr.D.Senthilkumar, Professor and Head, Mechanical Engineering at Sona College of Technology, Salem**. His presentation, titled "**Green Manufacturing-Sustainability**" provided a comprehensive overview of innovative approaches to green manufacturing and sustainability.

Dr.D Senthilkumar's expertise undoubtedly enriched the seminar by providing:

- Innovative Approaches: A deep dive into cutting-edge techniques and technologies aimed at minimizing environmental impact.
- Comprehensive Overview: A holistic perspective on green manufacturing, encompassing various aspects like resource efficiency, waste reduction, and pollution control.

- **Sustainability Focus:** A strong emphasis on the long-term implications of manufacturing practices and their alignment with ecological balance.

Potential areas covered in the lecture could include:

- **Life Cycle Assessment (LCA):** Analyzing the environmental impact of a product from cradle to grave.
- **Clean Technologies:** Exploring advanced processes and equipment for reducing emissions and waste.
- **Sustainable Supply Chain Management:** Examining the role of suppliers in promoting green practices.
- **Circular Economy Principles:** Incorporating recycling and reuse strategies into manufacturing operations.
- **Policy and Regulatory Framework:** Discussing the role of government in fostering a green manufacturing ecosystem.



Invited Talk by Dr.D.Senthilkumar

By addressing these topics, Dr. D Senthilkumar's lecture likely provided valuable insights into the challenges and opportunities associated with sustainable manufacturing.

The third invited lecture of the seminar delivered by **Er.V.Ganapathi Raman, Armour Steel Building India Pvt. Ltd, Coimbatore**. His presentation, titled **"Green Manufacturing-Paving the Way for a Sustainable Future"** provided a comprehensive overview of innovative approaches to green manufacturing and Green Buildings.

- **Embodied Energy:** Discussing the energy used to manufacture building materials and its connection to green manufacturing practices.
- **Sustainable Materials:** Exploring the use of recycled and recyclable materials in both manufacturing and building construction.

- **Energy-Efficient Manufacturing:** Highlighting how energy-efficient manufacturing can contribute to green building projects.
- **Life Cycle Assessment:** Analyzing the environmental impact of a building, considering the materials used and their manufacturing processes.
- **Case Studies:** Showcasing examples of construction projects that integrate green building principles and source materials from sustainable manufacturers.



Invited Talk by Er.V.Ganapathi Raman,

Paper Presentation

Dr.A.Kannan, HoD (i/c)/ Production Engineering, Thiagarajar Polytechnic College, Dr.R.Mohan, Professor/Mechanical Engineering, Sona College of Technology, Dr. M. Senthil Kumar, Associate Professor/ EEE, Sona College of Technology, Er.S.Natarajan, Former Management Rep & TQM Head, SAIL, Salem, Dr. M. P. Raajasekharan, Founder Chairman, Sustainable Enviro Promoters acted as Chairperson for evaluating paper presentations



*The Paper Presentation
(E-Vehicle and Fuel Cells)*

Valedictory Session



Award of certificates by Dr.V.Karthikeyan, Chairman IEI, TNSC and other dignitaries

Dr.C.Prabhu, Joint Secretary IE(I), TNSC & Workshop Instructor, Mechanical Engineering-TPT, welcomed all the dignitaries, committee members of IE(I), Participants and students from various departments, followed by welcome address and the summary

report of this seminar was given by Dr.A.Kanakaraj , Co-Convener and HoD of Mechanical Engineering ,TPT, in his summary report he briefly stated total numbers of research papers, participants from other institutions and host institution.

The participants were awarded certificates for their contribution to this seminar.

Dr.V.Karthikeyan, Chairman of IE(I) Tamilnadu State Centre and Principal of Thiagarajar Polytechnic College delivered the valedictory address and appreciated the efforts taken by the team for the successful conduct of the seminar. The chairpersons were honoured with shawls and mementoes.

Dr.P.Ganapathi, Lecturer/ Mechanical Engineering, TPT, proposed the vote of thanks and the programme concluded with National Anthem.

Dr K C G Verghese Memorial Lecture (13/07/2024)

The Institution of Engineers (India) Tamil Nadu State Centre has conducted the Dr. K.C.G. Verghese Memorial Lecture on 13th July 2024 at 5.00 pm at IEI TNSC Auditorium, Chennai. The event began with invocation and followed by welcome address by **Dr. V. Karthikeyan**, Chairman of IEI TNSC. Col. (Hon) **Dr. S.N. Sridhara**, Vice Chancellor of Hindustan Institute of Technology and Science, was the Chief Guest and he highlighted the initiatives of Dr. K.C.G. Verghese. The memorial lecture was delivered by **Dr. S. Pandian**, Visiting Professor, IIT Madras. Distinguished Scientist & Former Director, Satish Dhawan Space Centre SHAR, ISRO .

Incubation Cell SIMATS University, detailed the achievements of the late Dr. K.C.G. Verghese and introduced the guest speaker Dr. S. Pandian.



Dr.V.Karthikeyan Chairman IEI, TNSC honouring the Guest Speaker Dr. S. Pandian



Dr.V.Karthikeyan Chairman IEI, TNSC honouring the Chief Guest Col. (Hon) Dr. S.N. Sridhara

Prof. C.S. Karunakaran, Aerospace Committee Member of the IEI TNSC and Manager StepUp

Dr. S. Pandian delivered the memorial lecture with power point presentation and he deliberated on the topic space debris and asteroid mining opportunities. He also discussed historical and upcoming asteroid events in detail. A citation of Dr. K.C.G. Verghese was presented to Dr. S. Pandian . Dignitaries were honoured by the chairman with shawl and memento.

The event concluded with a vote of thanks by **Er. D. Gokul**, Honorary Secretary of IEI TNSC. Engineers, faculty members, and students from various institutions, including Hindustan Institute of Technology and Science, participated in the event.

IEI TNSC - 57th Engineers' Day Awards-2024

The Institution of Engineers (India) Tamilnadu State Centre is happy to invite nominations for the “**IEI TNSC Engineers' Day Awards-2024**”

The application form along with the necessary instructions are available in the website www.ieitnsc.org. The applicants are strictly adhere to the rules and regulations provided and send their duly filled in applications on or before 2nd September 2024 to the following address.

The Chairman
The Institution of Engineers (India)
Tamilnadu State Centre
No 19, Swami Sivananda Salai,
Chepauk, Chennai – 600005



This award will be presented during the 57th Engineers' Day celebrations on **15th September 2024, at 10.30 am** in **IEI TNSC Auditorium, Chennai**. Please note that all applications must be complete, including all the required supporting documents. Incomplete applications will not be considered for evaluation. The decision of the committee is final.

Kindly share this information with your friends and colleagues of IE(I). For further details, you may contact : 9962950333

Dr V Karthikeyan, FIE
Chairman

S. No.	Award No.	Title of Awards	Eligibility
1	TNSC1	Individual Engineer Award - Industry	- Should be a member of IE(I) - Working in Registered industries or Professional Practitioners
	TNSC1A	Best Engineer Award (Age > 35 and < 60 Years)	
	TNSC1B	Best Young Engineer Award (Age < 35 Years)	
	TNSC1C	Best Woman Engineer Award (Age < 60 Years)	
2	TNSC2	Best Teacher Award	- Should be a member of IE(I) - Should be working / worked in any one of the AICTE/UGC approved Engineering College / Polytechnic College/ University
	TNSC2A	Best Teacher Award – Engineering College (Age > 35 and < 60 Years)	
	TNSC2B	Best Teacher Award – Polytechnic College (Age > 35 and < 60 Years)	
3	TNSC3	Best Principal Award	- Should be a member of IE(I) - Should be working / worked in any one of the AICTE/UGC approved Engineering College/Polytechnic College/University
	TNSC3A	Best Principal Award - Engineering College (Age > 35 and < 60 Years)	
	TNSC3B	Best Principal Award - Polytechnic College (Age > 35 and < 60 Years)	
4	TNSC4	Best IE(I) Student Chapter Award	- Should be approved by the AICTE/UGC and affiliated by Anna University - Should be a member of IE(I) - Should be approved by the AICTE/UGC and affiliated by State Board of Technical Education & Training, DoTE, Chennai - Should be a member of IE(I)
	TNSC4A	Best IE(I) Student Chapter Award for Engineering College	
	TNSC4B	Best IE(I) Student Chapter Award for Polytechnic College	
5	TNSC5	IE(I) Industrial Excellence Award 2024	Any Registered Industry

Celebration of World Environment Day (13/07/2024)

The Institution of Engineers (India), Tamilnadu State Centre organized Seminar on the theme “SDG GOALS - Role of Engineers in Achieving Carbon Neutrality” on the occasion of World Environment Day celebrations under the National Environment Climate Change Forum in association with Anna University on 13th July 2024 at Centre for University - Industry Collaboration, Anna University, Chennai.



Dignitaries on the dais

The event commenced with the auspicious Tamizhthaai Vazhthu followed by the lighting of the KuthuVilakku by dignitaries and participants from various institutions. **Dr. V. Karthikeyan**, Chairman of IE(I) Tamil Nadu State Center, Chairman of Environmental Division Board, IE(I) delivered the welcome address. **Dr A Sivathanupillai**, Founder CEO & MD of BrahMos Aerospace and Chairman, NECCF, IE(I) TNSC and **Dr R Velraj**, Vice Chancellor, Anna University and Vice Chairman, NECCF, IE(I) TNSC was the guests of honour. **Dr. V. Karthikeyan**, Chairman, IE(I) TNSC honoured the guests with shawl, book and tree plants.



Dr.V.Karthikeyan Chairman IEI, TNSC honouring the Guest of Honour Dr A Sivathanupillai, Founder CEO & MD of BrahMos Aerospace

Dr A Sivathanupillai, Founder CEO & MD of BrahMos Aerospace and Chairman, NECCF, IE(I) TNSC briefed about the Applications of Green Technology in Sustainable Development. Green technology for Agriculture - Precision Farming using Space Technology for food technology. Clean Environment & Circular Economy - Plastic tar road, E-waste management, Green Computing, Liquid waste management & Bioremediation of floating oil. He also explained about the energy from ocean. The world's oceans...

- Cover more than 71% of the earth
- Largest and best solar collector on the planet
- Absorb energy equivalent to 250 billion barrels of oil each day

Uranium sea water extraction makes nuclear power completely RENEWABLE. 4 billion tons of uranium in sea water would fuel 1000 of 1000 MW nuclear plants for 100,000 years. It gets continuously replenished. It is endless as Solar and Wind.



Guest of Honour Dr A Sivathanupillai, Founder CEO & MD of BrahMos Aerospace addressing the gathering

For many generations as long as the Sun shines, humanity must live on the earth in peace, happiness and prosperity with adequate drinking water, pollution free air, organic pesticide free agriculture, good education, employment and healthcare for all. The ozone hole over Antarctica must be plugged. Space technology must be for the development of people only. Space must be free from military intensions. Debris must be removed so that earth can

smile at us. 40 billion trees must be planted to convert CO2 to oxygen, throughout the world. This vision for humanity, to save Mother Earth for the living of future generations, must be greater than any other vision so far envisioned by any Nation. All Nations must come together to pledge and act on this vision.

Dr R Velraj, Vice Chancellor, Anna University and Vice Chairman, NECCF, IE(I) TNSC highlighted that the "Energy is the golden thread that connects economic growth, increased social equity, and an environment that allows the world to thrive. Development is not possible without energy, and sustainable development is not possible without sustainable energy." Sustainable energy, is the energy capable of meeting the energy needs of the present without compromising the resources and energy supply of the future. Energy is sustainable if it "meets the needs of the present without compromising the ability of future generations to meet their own needs. Sustainable energy usually looks at its effects on the environment, the economy, and society. These impacts range from greenhouse gas emissions and air pollution to energy poverty and toxic waste. Renewable energy sources such as wind, hydro, solar, and geothermal energy can cause environmental damage but are generally far more sustainable than fossil fuel sources. Meeting existing and future energy demands in a sustainable way is a critical challenge for the global goal of limiting climate change while maintaining economic growth and enabling living standards to rise. Sustainable Development Goal calls for "access to affordable, reliable, sustainable and modern energy for all".



Dr.R Velraj, Vice Chancellor , Anna University addressing the gathering

Industry Excellence Award was presented to **Mr R Ramakrishnan**, General Manager – EHS, HL MANDO ANAND INDIA PVT. LTD.,. Academic Excellence Award was presented to **Er P Venugopal**, M.E.,, Civil & Environment Consultant, Salem. Public Service Excellence Award was presented to **Mr J Murugan M.E.**, Panchayat President , Kengarai Village, Kotagiri block, Nilgiris. Research Excellence Award was presented to **ENTITY 1 VALUE EMISSION PVT. LTD.**

The school students from Jaigopal Garodia Government Girls Higher Secondary School, Virugambakkam, Municipal Higher Secondary School , Zamin Pallavaram, Guntur Subbiah Pillai T.Nagar Girls Higher Secondary School, Poppiliraja Government Higher Secondary School, Puzhal were participated in the beach cleaning activity and awards were presented to those government schools principals.

Sponsors for the events were J.N.N Institute of Engineering, New Prince Shri Bhavani College of Engineering and Technology, St. Joseph's College of Engineering, St. Joseph's Institute of Technology, Sri Eshwar College of Engineering and Jeppiaar Institute of Technology. Principals of the colleges were honored with shawl and memento.

Certificates were distributed to the students participated in the Water Quality Research, Eco-Activist 2024 event and beach cleaning activity.

Panel discussion were held on the topic, How to work towards the SDG Goals ?, **Dr P S Kumar**, Founder, Prithvi Grow Care was the moderator of the first panel discussion and **Mr Kaushik Palicha**, Managing Director, Ram Charan Co Pvt Ltd., **Dr J Balamurugan**, Senior Manager, TEDA, **Mr K Vijayaraju**, Asst. Director, NPC were the speakers and they deliberated in detail about the works Sustainable Development Goals . Providing access to clean drinking water and nutritious food. Protecting the environment from damage due to human activities. Planning smart infrastructure so that the population can be managed properly. Responsible use of

information technology to support sustainable development.

The second panel discussion were held on the topic , Role of Engineers Marching towards the Tamilnadu Policy of SDG Goals. **Dr L Ramesh**, Jt. Registrar, Dr M G R Educational and Research Institute & President - IGEN was the moderator and **Dr S Suresh**, Sri Eshwar College of Engineering, Chairman IGEN – Academic Partnership, **Ar Girija R**, Sr. Manager - Sustainable Designs, Lead Consultancy & Engg Services, **Dr P Rajasekhar**, Environmental Adviser & Founder Chairman of Sustainable Enviro Promoters were the speakers and they deliberated in detail about the role of engineers marching towards the Tamilnadu Policy of SDG Goals. SDG – Transforming our World: the 2030 Agenda for sustainable development is universal, transformational, holistic and people-centered, and will leave no one behind. An intergovernmental set of 17 aspiration Goals with 169 targets, further elaborated through indicators focused on measurable outcomes. SDG is achieving sustainable development in its three dimensions – economic, social and environmental – in a balanced and integrated manner. Several SDG targets are to be achieved before 2030. The implementation of Sustainable Development Goals in Tamil Nadu is carried out in association with all the departments. Tamil Nadu stands third with a composite score of 78, surpassing national average of 71. Tamil Nadu has been classified a 'front runner' in 13 Sustainable Development Goals (SDGs) of the United Nations, according to the latest SDG India Index 2023-24.



Distribution of Certificates to Engineering college students



Distribution of memento and certificates to Government school students

Moderators and speakers were honoured with the shawl, memento and plants. **Er. D. Gokul**, Honorary Secretary of IE(I), TNSC, delivered the vote of thanks. More than 300 participants participated from various government schools, engineering colleges and industries. This event is available in our IEITNSC Youtube Channel:

https://www.youtube.com/live/gtn5Hd_vVu0?si=DVxaoHMMMyg7gbSc

Tree Plantation at Yercaud on 06/07/2024



Nomination for Sri Valliappa Eminent Engineer Award 2024

The 15th of September is a memorable day in the annals of the Engineering fraternity in the country in general and the Institution in particular. It marks the birth anniversary of Sir Mokshagundam Visvesvaraya, the towering personality in the history of Indian Engineering. In recognition of his monumental contributions to national development and his unwavering dedication to the field, the Institution of Engineers (India) observes this day as Engineers' Day.

The Institution of Engineers (India) Tamilnadu State Centre celebrating the **57th Engineers Day** on the theme "Driving Sustainability with Engineering Solutions Embracing the Latest AI Driven Technologies" on **15th September 2024 in IEI TNSC**.

With a view to promote the pursuit of excellence in the field of engineering, IEI TNSC has instituted '**SRI VALLIAPPA EMINENT ENGINEER AWARD FOR BEST PRACTISING ENGINEER IN TAMILNADU** every year to honour his excellent services

rendered to the technical education and industry for more than 67 years.

The nomination form for **SRI VALLIAPPA EMINENT ENGINEER AWARD** is available in the website www.ieitnsc.org . The filled in nomination form with supporting documents should be submitted **on or before August 27,2024 at 5.00 pm** through post to the following address

The Chairman
The Institution of Engineers (India)
Tamilnadu State Centre
No 19, Swami Sivananda Salai,
Chepauk, Chennai – 600005

This award will be presented on 57th Engineers' Day celebrations on 15th September 2024 at IEI TNSC Auditorium, Chennai.

Dr V Karthikeyan, FIE
Chairman

Forthcoming Technical Activities

Date	Title	Venue / Mode
30,31.08.2024	All India Seminar on "Trends in Aviation (Civil & Defence)"	Periyar Maniammai Institute of Science and Technology, Thanjavur
15.09.2024	57 th Engineers Day Celebration	TNSC Auditorium, Chennai

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Bulletin

IF UNDELIVERED RETURN TO : The Institution of Engineers (India) Tamilnadu State Centre,
19, Swami Sivananda Salai,

Chepauk, Chennai - 600 005.

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