

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 Chairman's Desk.....



Dear Fellow Engineers,

It gives me immense delight to reconnect you all once again through this news desk.

I am delighted to share that the Institution of Engineers (India) Tamilnadu State Centre celebrated the Founders Day on 27th January 2024 at IE(I), TNSC Auditorium, Chennai. Dr.S.Salivahanan, Vice Chancellor, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai, the Chief Guest appreciated the activities of IE(I), TNSC uplifting the Engineering Community. The event witnessed the enthusiastic participation of corporate members from various engineering sectors and students, contributing to the tremendous success of the celebration.

On behalf of IE(I), TNSC and myself, I extend my hearty congratulations to all the members from Tamilnadu, who have been nominated and co-opted by the Council of IE(I) under various Boards. Dr.J.Arivudainambi has been nominated as

Council Member of IE(I), TNSC and Chairman of Aerospace Engineering Division Board, IE(I). Er.K.N.Sivaraju and Er.S.Natarajan have been co-opted as Members in the Metallurgical & Materials Engineering Division Board of IE(I). Dr.R.Venkatesan has been nominated as Member of the Board of Governors – National Design & Research Forum, IE(I) and appointed as Member of the Equivalence Committee, IE(I). Dr.S.Dharmalingam has been nominated as Chairman of the Centres' Co-ordination Committee, IE(I). Additionally, he has been appointed as Member of the Board of Governors for the Safety & Quality Forum, IE(I), Member of the Legal Affairs Committee, IE(I) and member of the Election Procedure Implementation Committee (EPIC), IE(I). Dr.(Ms.) K.Padmini has been co-opted as Member of the Mechanical Engineering Division Board, IE(I). Dr.S.Ramesh, Chairman, KLC has been nominated as Chairman of Production Engineering Division Board, IE(I).

Myself, Dr.V.Karthikeyan, Chairman, IE(I), TNSC, has been co-opted as member in Bye-Laws Committee and nominated as Chairman of Environmental Division Board (ENDB), IE(I).

The President, IE(I) has reconstituted the committee for renewal of the lease of the lands as per the details presented below :

- Dr.V.Karthikeyan, Chairman, IE(I) Tamilnadu State Centre – as Chairman of the Committee
- Dr.T.M.Gunaraja, Past President, IE(I) – as Member of the Committee

- Dr.J.ArivudaiNambi, Council Member, IE(I) as Member of the Committee
- Mr.D. Gokul, Honorary Secretary, IE(I),Tamilnadu State Centre – as Member of the Committee
- Dr.D.Elango, Committee Member, IE(I), Tamilnadu State Centre – as Member of the Committee

I express my sincere thanks to Dr.G.Ranganath, President IE(I), for offering opportunities to many of the members of IE(I), TNSC to assume significant roles of IE(I) at the National level.

I am happy to share that our proposal for conducting the All India Seminar on "Enhancing Resilience: Flood Management and Mitigation Strategies in India" in association with Sona Institutions (Thiagarajar Polytechnic College and Sona College of Technology) has been approved by IE(I), HQ and will be conducted on 23 & 24 February 2024. Additionally, we are preparing to submit 11 more proposals for Conventions, Seminars, and Workshops in the ensuing week. Also, I request all our committee members to

organize technical activities within their respective divisions.

I am eager to significantly boost the membership of the Tamilnadu State Centre and establish students' chapters in Universities, Engineering and Polytechnic Colleges across Tamil Nadu. I earnestly seek the support of all our members to accomplish these objectives.

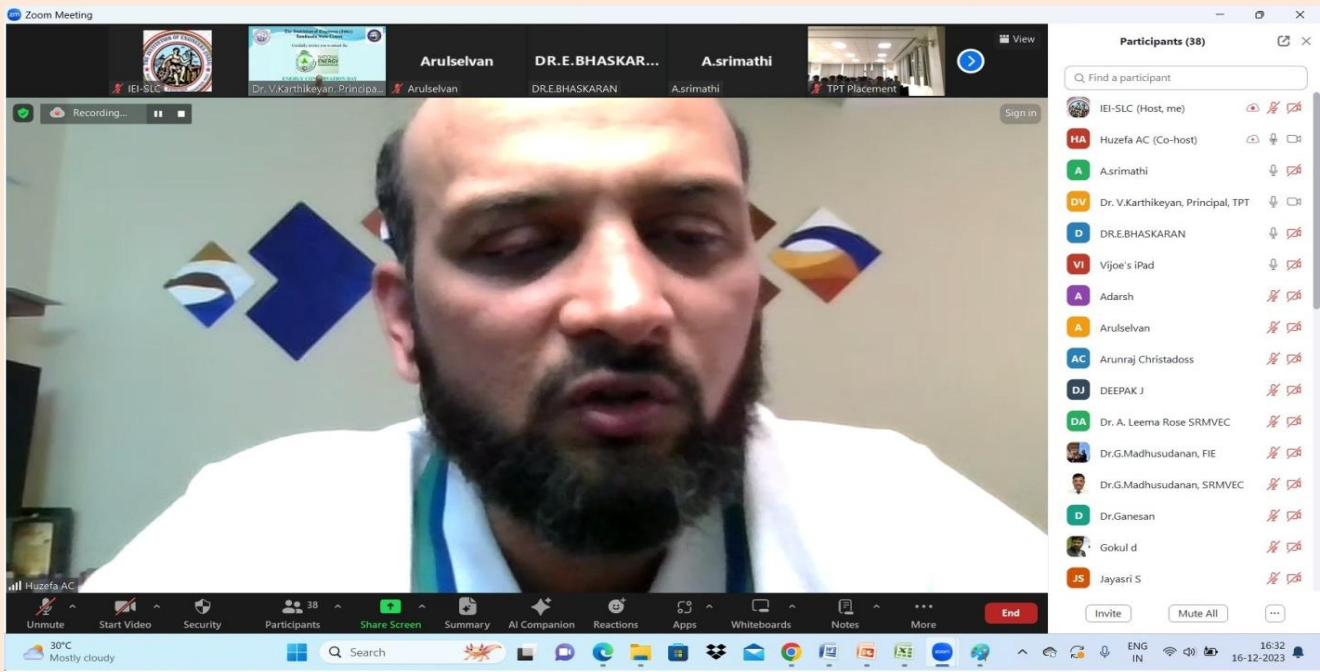
Members can easily apply for membership through the online portal (ieindia.org),and the processing of AMIE, MIE, and FIE memberships will be activated within one week. The membership registration process is now highly user-friendly.

Thank you once again to one and all.

Regards,

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

Energy Conservation Day through Online (16.12.2023)



Mr Huzefa A C, General Manager & Head – Core Engineering (R & D) Electric Buses and LCVs, Chennai delivered the lecture

The Tamilnadu State Centre of the Institution of Engineers (India) observed the **Energy Conservation Day** on **16th December 2023** at **4.30 pm** through online Zoom Meeting.

At the outset, **Dr V Karthikeyan**, Chairman, IE(I) Tamilnadu State Centre welcomed the gathering. **Dr G Madhusudhanan**, Committee Member, EL Division, IE(I), TNSC introduced the guest speaker.

Mr Huzefa A C, General Manager & Head – Core Engineering (R & D) Electric Buses and LCVs, Chennai presented his lecture with the power point presentation. He commenced his speech with the journey of electrification of buses at Ashok Leyland which started from 1955. Since then there has been many modifications in electric and sustainable bus development as per the needs of the customer with different fuel options – Diesel, CNG, Diesel Hybrids and Full Electric buses. Today as part of Switch Mobility, the EV arm of Ashok Leyland, over 700 buses are plying on roads of India and UK. Notable release was India's first EV Double Decker launched last year at Mumbai and Hyderabad. The buses in India have clocked more hundred million kilometers of carbon-free trips already. Light commercial vehicles upto 3.5T GVW is being mass produced from Q1 of 2024.

In India, December 14 is observed as the National Energy Conservation day. The aim of celebrating this day is to generate awareness among individuals and industries towards energy conservation. Daily carbon footprint generated by a car is around 3000 g where as it can be very less if we use a modern EV based transport. A large amount of CO₂ is emitted by various sectors like domestic, industries, agriculture and transportation. Transport sector alone accounts for 20% of emission according to survey.

Individually we can contribute to energy conservation by using energy-efficient appliances, by advocating sustainable building/community designs, by using cycles and more of public transportation. Business and Industries can adopt energy efficient technology, process, sustainable supplier selection, research and development and renewable energy. An excellent way to conserve energy is by performing energy audits in industries.

The initial investment in sustainable technologies may be higher but in long run, it gives lots of profit to individuals, businesses and industries. Total cost of ownership (TCO) analysis can help to achieve the economic aspects of energy conservation. Maximizing the use of renewable energy and using frugal innovation can help to achieve ecological aspects of energy conservation.

Conducting energy audits, route optimization for transportation, use of fuel efficient vehicles and redesign of products using new age materials helps organization in achieving energy conservation goals. Better maintenance/repair and end of life disposal will reduce the CO₂ emissions. More the energy conserved is more the energy saved.

In conclusion, energy conservation must be among the utmost priorities of humanity. Mahatma Gandhi said, "the earth provides enough to satisfy every man's needs but not every man's greed".

More than 100 members participated in this online meeting.

Er D Gokul, MIE, Honorary Secretary of IE(I), Tamilnadu State Centre proposed the vote of thanks.

Energy Conservation Day (18.12.2023)

The Tamilnadu State Centre of the Institution of Engineers (India) observed the **Energy Conservation Day** in association with **Thiagarajar Polytechnic College, Salem** on **18th December 2023** at **3.30 pm** at **TPT Alumni Auditorium, Salem**.

Thiagarajar Polytechnic College, Salem celebrated Energy Conservation Week from 14th Dec 2023 to create awareness on Energy Conservation and to inculcate social responsibility amongst the students.



Er.N.Tendapani, Superintending Engineer, TANGEDCO, Chief Guest with the winning students

The program started with the invocation followed by lighting of lamp by the dignitaries. **Dr N I Maheshwari**, Committee Member, Electrical Engineering Division, IE(I), TNSC delivered the welcome address.

Er.N.Tendapani, Superintending Engineer, TANGEDCO was the Chief Guest and **Dr.N.Gunavardhini**, Executive Engineer (East) TANGEDCO and **Er.A.Anbarasan**, Executive Engineer (South) TANGEDCO were the Guests of Honour. The guests highlighted the importance, various methods and impacts of conservation, the rules and standards related to energy conservation.

Dr.V.Karthikeyan, Chairman, IE(I), TNSC and Principal in his presidential address threw an outline on electrical energy and its conservation. The engineers from IE(I), TNSC, Chennai and IE(I), SLC, Salem joined the function through online.

Poster/drawing competitions and quiz competitions were conducted. The response from the enthusiastic students was overwhelming and the artistic works were judged based on their creativity and relevance to the theme by the guests.



Dr.N.Gunavardhini, Executive Engineer (East), TANGEDCO Guest of Honour distributing prizes

The Organizers thanked beloved Chairman, IE(I), TNSC and Principal Dr.V.Karthikeyan for his encouragement and guidance in conducting this celebration in our institution.

The Organizers also thanked **Er.D.Gokul**, Honorary Secretary, IE(I), TNSC and team for the support extended from IE(I), TNSC. Thanks to members of the institution, Dr.K.Senathipathi, Er.N.Balaji Viswanathan, Dr.J.Sangeetha, Er.S.Mahendran, Mr.S.Shahnawaz and their teams for their continuous efforts and good cooperation in making this event as a grand success. Finally **Er.N.Balaji Viswanathan** proposed the vote of thanks.



Dr V Karthikeyan, Chairman, IE(I) TNSC honoured the Chief Guest Dr S Salivahanan ,Vice Chancellor, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai

The Institution of Engineers (India) Tamilnadu State Centre was established originally as the Southern India Centre at Chennai on 22nd December 1922. The Institution of Engineers (India) Tamilnadu State Centre entered into its Centenary year during 22nd December 2022.

In continuation with the Institution of Engineers (India) Tamilnadu State Centre celebrated the Founders Day on 27th January 2024 at 4.00 pm at IEI TNSC Auditorium, Chennai.

The program started with Tamilthai Valthu followed by lighting of lamp by the dignitaries.

Welcome address was delivered by **Dr.V.Karthikeyan**, Chairman IE(I), Tamilnadu State Centre. **Dr.D.Elango**, Committee Member, IE(I) Tamilnadu State Centre delivered the history of Tamilnadu State Centre.



Lighting of kuthuvilakku by Dignitaries

Er.S.Loganathan, Committee Member, IE(I), Tamilnadu State Centre introduced the Chief Guest. Chief Guest was honoured with Shawl and Memento by Dr.V.Karthikeyan, Chairman, IE(I), Tamilnadu State Centre.

Dr.S.Salivahanan, Vice Chancellor, Vel Tech Rangarajan, Dr.Sagunthala, R&D, Institute of Science

and Technology, Chennai was the chief guest and delivered the IE(I), TNSC Founders day address.

Er.D.Gokul, Honorary Secretary, IE(I) Tamilnadu State Centre proposed the vote of thanks. Participants from various institutions and industries took active part in the celebrations. The program ended with the National Anthem.



Participants of Founders day Celebration

FORTHCOMING TECHNICAL ACTIVITY

23rd & 24th February 2024 All India Seminar on "Enhancing Resilience: Flood Management and Mitigation Strategies in India" at Thiagarajar Polytechnic College, Salem

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Bulletin

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