

The Institution of Engineers (India)

TAMILNADU STATE CENTRE



BULLETIN



Dr. V. KARTHIKEYAN, FIE.
Chairman

Er.D.GOKUL,MIE
Honorary Secretary

Vol. 23 : No.08

August 2024

From the Chairman's Desk.....



Dear Fellow Engineers,

I feel greatly delighted to meet you all through this News Bulletin once again.

The Tamilnadu State Centre of the Institution of Engineers (India), in association with SRM Valliammai Engineering College, organized an All India Workshop on "Perspectives of Microbial Concrete & Other Sustainable Construction Materials" from 30th to 31st July 2024 at the Seminar Hall, SRM Valliammai Engineering College. The event was inaugurated by the Chief Guest, Er.S.Janakumaran, M.Tech., Project Director, National Highway Authority of India (NHAI), Project Implementation Unit, Chennai, who delivered the inaugural address and released the event's souvenir. Dr.M.Murugan, Principal of SRM Valliammai Engineering College, and Dr.S.Visalakshi, Vice Principal, delivered the special addresses.

I presided over the workshop's inauguration and delivered the presidential address. Myself and Er.S.Loganathan, Committee Member of IE(I),

TNSC delivered a lecture on "Challenges in Construction over Complex Soils". I extend my congratulations to Dr.D.Elango, FIE, Convenor & Committee Member of IE(I), TNSC, for his dedication in successfully organizing the workshop. I also appreciate the efforts of the organizing and technical committees, as well as the participants, for their enthusiastic involvement.



The Institution of Engineers (India), Tamilnadu State Centre in association with SRM Valliammai Engineering College, organized an All India Seminar on "Advanced technologies in Agriculture for sustainable development and its applications" from 1st to 2nd August 2024 at SRM Valliammai Engineering College. The Chief Guest Dr.K.Anbarasu, Deputy General Manager (Quality Control), Aavin Dairy Products - Ambattur, Chennai inaugurated the programme and addressed the gathering about the significance of agriculture and enhancing knowledge related with scientific facts. The special addresses were delivered by Dr.B.Chidhambararajan, Director, SRM Valliammai Engineering College and Dr.S.Visalakshi - Vice Principal of SRM Valliammai Engineering College.

I am immensely happy to share that the Institution of Engineers (India), Kochi Local Centre, under the aegis of the Environmental Engineering Division Board, IE(I), organized the 38th National Convention of Environmental Engineers on the theme 'Change Yourself, Not the Nature' on 23rd and 24th August 2024. I, Dr.V.Karthekeyan, Chairman of the ENDB, had the honor of inaugurating the convention and delivering the presidential address. I am happy to share that Er.S.Loganathan, Committee Member of IE(I) TNSC was honoured with the Eminent Engineer Award at the convention.



The second outstation committee meeting of IE(I), TNSC was conducted at Periyar Maniammai Institute of Science & Technology, Thanjavur, along with the All India Seminar on “Trends in Aviation (Civil & Defence)” organized in association with IAAA and Periyar Maniammai Institute of Science & Technology during 30th-31st August 2024 at Thanjavur. I was honoured to have the privilege of welcoming the guests to this seminar.

I express my heartfelt thanks to Dr.J.Arivudainambi, FIE., Chairman of ASDB, IE(I) and Council Member of IE(I) for sanctioning this seminar. I extend my appreciation and congratulations to Er.C.S.Karunakaran, AMIE, Convenor and Committee Member of IE(I), TNSC, for his significant involvement in successfully

conducting this seminar. I also appreciate the efforts of the organizing and technical committees, as well as the participants, for their dedication to making this seminar a success.



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.

I also appreciate the efforts of Er.S.Loganathan, convener of the All India Seminar on ‘Enhancing Resilience: Flood Management and Mitigation Strategies in India’, Er.N.Senthil Kumar, convener of the One Day Seminar on ‘Waste to Energy Technology,’ Er.G.Balasivaramasubramanian, convener of the All India Seminar on ‘Green Manufacturing,’ and Dr.N.I.Maheshwari, convener of the All India Seminar on ‘Transforming Electrical Technology with AI,’ for successfully organizing these seminars through the Institution of Engineers (India) Tamilnadu State Centre in association with Thiagarajar Polytechnic College.

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

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



Dear Corporate Members,

I extend my warmest greetings to all my esteemed members!

IE(I) Tamil Nadu State Centre in association with Institute of Aeronautics Astronautics and Aviation, and Periyar Maniammai Institute of Science and Technology, Thanjavur organized All India Seminar on " Trends in Aviation (Civil and Defence" under the aegis of Aerospace Engineering Division Board on 30.08.24 & 31.08.24 at Periyar Maniammai Institute of Science and Technology, Thanjavur. Participants from various academics, industries and students were participated in the seminar and made the event a grand success.

The Institution of Engineers (India) Tamilnadu State Centre celebrating the 57th Engineers Day on 15th September 2024 at IEI TNSC Auditorium, Chennai. I invite all corporate members to participate in the celebration.

The Institution of Engineers (India) Tamilnadu State Centre jointly with The Institution of Green Engineers organizing the ENVIRONTHON 2024 a

Nonstop 29 hours World Record Marathon on 14th September 2024 at 4.30 pm at IEI TNSC Auditorium, Chennai. I invite all the corporate members to participate and make the event a grand success.

The Institution of Engineers (India) Tamilnadu State Centre organizing the All India Seminar on "Augmentation of Bio Ethanol & Bio-Hydrogen from Organic Wastes" to be held on 5th & 6th October 2024 at ROSETTE Convention Centre, National Centre for Sustainable Coastal Management, Anna University, Guindy, Chennai – 600025. 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

57TH ENGINEERS' DAY: 15 SEPTEMBER 2024
Theme: Driving Sustainability with AI-driven Engineering Solutions
The Institution of Engineers (India) will celebrate the 57th Engineers' Day on September 15, 2024, commemorating the 163rd birthday of Bharat Ratna Sir Mokshagundam Visvesvaraya. This day is celebrated not only to honor his pioneering spirit but also serves as a tribute to engineers worldwide, whose innovations and dedication shape our modern world. This year's theme, **"Driving Sustainability with Engineering Solutions Embracing the Latest AI-driven Technologies"**, underscores the pivotal role of engineering in solving global challenges.
AI is revolutionizing our journey towards sustainability. In the fight against climate change, AI enhances predictive models, enabling better preparation for extreme weather and optimizing renewable energy use. In agriculture, AI-driven analytics are transforming crop management, leading to higher yields and a smaller environmental footprint. Urban areas benefit immensely from AI-powered traffic systems that reduce congestion and emissions, while intelligent waste management systems ensure efficient recycling.
Furthermore, AI is the key to optimizing resource management, from water to manufacturing processes, ensuring maximum efficiency and minimal waste. These advancements highlight the profound impact AI has on creating sustainable solutions for a brighter future. The integration of AI interfaces in sustainable engineering solutions has unlocked new realms of innovation. AI-driven platforms enable real-time monitoring and analysis, providing engineers with critical insights for informed decision-making. From smart grids that balance energy loads to adaptive systems that respond to environmental changes, AI interfaces enhance the effectiveness of sustainable engineering practices.
The Institution of Engineers (India) calls upon all State and Local Centres and associated entities to celebrate Engineers' Day in a grand and befitting manner. Let us honour the innovative spirit and contributions of engineers who are driving sustainability through cutting-edge AI-driven technologies. Together, we can pave the way for a greener and more sustainable tomorrow. Join the movement, celebrate innovation, and be part of the change!

Sir M. Visvesvaraya

All India Workshop on “Perspectives of Microbial Concrete & Other Sustainable Construction Materials” (30,31-07-2024)

The Institution of Engineers (India) Tamilnadu State Centre organized the **All India Workshop on “Perspectives of Microbial Concrete & Other Sustainable Construction Materials”** under the aegis of Civil Engineering Division in association with Department of Civil Engineering, **SRM Valliammai Engineering College, Kattankulathur** on **30th & 31st July 2024** at Seminar Hall, **SRM Valliammai Engineering College, Kattankulathur**.



Lighting the Kuthuvillakku

The event began with an auspicious touch with Tamilthai Valzhthu to mark the beginning of the occasion follows by lighting of lamp by the dignitaries. **Dr V Karthikeyan**, Chairman, IE(I) TNSC delivered the welcome address and thanked Dr G Ranganath, President, IE(I) for sanctioning this All India Civil Workshop. **Dr D Elango**, Convener and Committee Member of IE(I) TNSC delivered the thematic address. The Chief Guest **Er.S.Janakumaran**, M.Tech., Project Director, National Highway Authority of India (NHAI), Project Implementation Unit, Chennai, who delivered the inaugural address and released the event’s souvenir.



Release of Souvenir

Dr.M.Murugan, Principal of SRM Valliammai Engineering College, and **Dr.S.Visalakshi**, Vice Principal, delivered the special addresses. **Dr. V. Karthikeyan**, Chairman of IE (I), Tamil Nadu State Centre, gave the presidential address.



Dr V Karthikeyan, Chairman honouring the chief guest Er. S. Janakumaran, M.Tech., Project Director at the National Highway Authority of India (NHAI), Project Implementation Unit, Chennai

DAY -1 (30.07.2024)

The first session focused on the theme “Challenges in Construction Over Complex Soils” and was led by Dr. V. Karthikeyan, FIE, Chairman of IE(I), TNSC, along with Er .S. Loganathan, FIE, Committee Member of the Civil Engineering Division, IE(I), TNSC



Session by Dr. V. Karthikeyan, FIE, Chairman of IE(I), TNSC, & Er .S. Loganathan, FIE

Er.C. K. Vignesh, Registered Engineer Gr-1 and Managing Director of Classic Kreators, Chennai,

presented on the topic **“Sustainable Construction Materials.”** during the first afternoon session of the first day.

Dr.K.Nandhini Assistant Professor in the Department of Civil Engineering at Anna University, provided insights into the **“Practical Implementation of Sustainable Concrete”**

Students from various engineering college participated and presented a paper on the sub themes

DAY - 2 (31.07.2024)

Er.K. Gokula Pandiyan, Assistant General Manager at Sobha Limited, opened the second day's first morning session with a discussion on the **“Benefits of Bio Concrete & Applications of Microbial Concrete.”**

This was followed by **Dr. P. Sangeetha, Associate Professor** in the Department of Civil Engineering at SSN College of Engineering, who continued the morning session with a presentation on **“Innovative Construction Materials and Their Applications.”**

Er. M. Sathishraja, Quantity Surveyor at MAG Property Development LLC in Dubai, UAE, elaborated on the “Applications of Microbial Concrete.”

Dr. J. Revathi, Dean of Research at B.S. Abdur Rahman Crescent University, provided insights into the “Impact of the Construction Industry on the Environment.”.

In an online session, **Dr. R. Mourougane, a professor in the Department of Civil Engineering at M.S.Ramaiah Institute of Technology, Bengaluru**, discussed on the topic the **“Future Directions and Research on Sustainable Construction”**

Participants Feedback was collected, and during the Valedictory ceremony, presided over by **Dr. D. Elango, FIE, Convenor & Committee Member of IE(I), TNSC**, many thanks were expressed to

participants from various institutions. **Dr. A. Leema Rose**, Professor and Head of the Agricultural Engineering Department proposed the vote of thanks.

OUTCOMES

A workshop on sustainable construction materials for civil engineering students can yield numerous positive outcomes, including:

1. Students develop a deeper understanding of sustainable materials, their properties, and applications. Practical experience with sustainable materials, such as recycled plastics, bamboo, or low-carbon concrete.
2. Students learn to design and develop innovative solutions using sustainable materials. Working together on projects enhances students' communication and collaboration skills.
3. Students connect with industry professionals and peers who share similar interests.
4. Exposure to sustainable construction ignites students' passion for its potential impact. Knowledge in sustainable construction provides a competitive edge in the job market.
5. Students apply theoretical knowledge to practical construction challenges. Evaluating the environmental impact of various materials hones students' critical thinking skills.
6. Students actively participate in reducing the construction industry's environmental footprint.

By participating in a sustainable construction materials workshop, civil engineering students gain comprehensive insights and practical skills, preparing them for a future in eco-friendly construction.

The seminar concluded with the national Anthem.

All India Seminar on "Advanced Technologies in Agriculture for Sustainable Development and its Applications" (01, 02-08-2024)

The Institution of Engineers (India) Tamilnadu State Centre organized the **All India Seminar on "Advanced Technologies in Agriculture for Sustainable Development and its Applications"** under the aegis of Agricultural Engineering Division in association with, **SRM Valliammai Engineering College, Kattankulathur** on **1st & 2nd August 2024** at Seminar Hall, **SRM Valliammai Engineering College, Kattankulathur**.



Lighting the Kuthuvillakku

The event began with an auspicious touch with Tamilthai Valzhthu to mark the beginning of the occasion follows by lighting of lamp by the dignitaries. Dr. A. Leema Rose - Professor and Head / Agricultural Engineering, SRM Valliammai Engineering College delivered the welcome address. **Dr.A.Tajuddin**, Convener and Committee Member of IE(I) TNSC delivered the thematic address.



Release of Souvenir

The Chief Guest **Dr.K. Anbarasu**, Deputy General Manager (Quality Control), Aavin Dairy Products

- Ambattur, Chennai inaugurated the programme and addressed the gathering about the significance of agriculture and enhancing knowledge related with scientific facts.



Honouring the Chief Guest Dr.K. Anbarasu, Deputy General Manager (Quality Control), Aavin Dairy Products - Ambattur

Er.D.Gokul, Scientist – ISRO & Honorary Secretary, IE (I) TNSC delivered presidential address with insights about future requirements of agriculture.



Er D Gokul, Honorary Secretary, IEI TNSC addressing the gathering

Dr. B. Chidhambararajan, Director, **SRM Valliammai Engineering College** addressed about the importance of sustainable agriculture in association with Internet of Things. **Dr. S. Visalakshi** - Vice Principal, SRM Valliammai Engineering College delivered the special address. **Dr. D. Elango** - Professor and Head / Civil Engineering, SRM Valliammai Engineering College were felicitated.

After the inauguration, Forenoon technical session was started by **Dr.A.Tajuddin**, Committee Member, IE(I)TNSC with the theme

Modernized Techniques in Agricultural Crop Processing and the session was followed by **Mr.G.Tamilselvam**, Executive Engineer Agricultural Engineering Department on the topic Precision Farming and Water Management.

Afternoon session was preceded by **Mr. M. Senthilkumar**, Principal Member, TAFE explained about artificial intelligence and robotics in crop production and continued by **Dr. N. Vairam** about agricultural diversification. After this session, **Mr. R. Dinesh**, Assistant Professor Department of Agricultural Engineering, SRMVEC gave hands on training about nursery preparation and maintenance.

Second Day Session was started by **Dr.M.Suganthi**, Assistant Professor, Central Feed Technology Unit, Institute of Animal Nutrition, PGRIAS, about horticulture production's emerging trend and continued by **Dr.N.Murugan**, Assistant Professor, Department of Sericulture, and SRM College of Agricultural Sciences-SRMIST who explained the process to get Government Schemes & Subsidy related to agriculture exports.

Afternoon, the session was continued by **Mr. R. Dinesh**, Assistant Professor Department of Agricultural Engineering, SRMVEC who enhanced the wide knowledge on floricultural productivity. Last session was handled by **Dr.E.Maheshwari**, Assistant Professor, Department of Agricultural

Engineering, and SRMVEC about increasing food production practices. Later, the feedback was collected from the participants and the all India seminar was ended with a closing ceremony. Totally 110 students from our institution and various colleges participated in this programme. **Er. P. Dhivya**, Assistant Professor, SRMVEC delivered the vote of thanks.

Outcomes of the Programme:

The participants learned to:

- Increase awareness about the importance and benefits of adopting emerging trends in agriculture. Encourage farmers and other stakeholders to adopt new technologies and practices discussed during the seminar.
- Identify gaps in current research and opportunities for further studies in emerging areas of agriculture.
- Understand how new technologies can contribute to improved environmental stewardship and resilience in the face of climate change.
- The Students noted that the seminar provided a great opportunity to engage them in start farming units with various innovative technologies to help our society and create our better sustainable future.
- The workshop helped the faculty members to gain better insights to understand the concepts of advanced integrated agriculture.

Webinar on “Vibrationally Intelligent Person (VIP) ” (17-08-2024)

The Tamilnadu State Centre of the Institution of Engineers (India) organised the guest lecture on the topic “**Vibrationally Intelligent Person**” (VIP) on **17th August 2024** at **6.00 pm** through online Zoom Meeting. At the outset., **Dr V Karthikeyan**, Chairman, IE(I) Tamilnadu State Centre welcomed the gathering. **Dr G Maheswaran**, Dean – Research, Shanmuganathan Engineering College, Pudukkotai was the guest speaker. He

delivered his lecture with power point presentation.

The Role of Vibration in Achieving Health, Wealth, and Happiness of a Person

Vibration is a fundamental aspect of the universe, permeating every aspect of existence, from the tiniest subatomic particles to the

grandest celestial bodies. This concept is not just a metaphysical abstraction but is rooted in the science of energy and frequency. The human body, being a complex system of energy, resonates with specific frequencies, and these vibrations influence our physical, emotional, and mental well-being. Understanding these vibrations can lead to profound improvements in health, wealth, and happiness.



The Science of Vibration and the Human Body

Albert Einstein once remarked, "Everything in life is vibration." This statement captures the essence of the vibrational nature of the universe. At a microscopic level, the human body is made up of atoms and molecules, which are in constant motion, generating vibrational energy. These vibrations are not static; they change based on various factors, including thoughts, emotions, physical activities, and environmental influences.

Nikola Tesla, another luminary in the field of science, emphasized the importance of energy and vibration in understanding the universe. He said, "If you want to find the secrets of the universe, think in terms of energy, frequency, and vibration." Tesla's insights align with the idea that the human body is a dynamic system, where changes in vibration can significantly affect overall well-being.

Health and Vibration

One way vibration influences health is through the concept of resonance. Just as a tuning fork resonates with a specific frequency, the human body resonates with certain vibrations. Practices like meditation, sound therapy, and energy

healing work by aligning the body's vibrations to promote health. For example, the use of specific sound frequencies can help restore balance in the body, reduce stress, and promote healing.

Moreover, changes in vibration are often associated with changes in health. Positive emotions like love, joy, and gratitude are linked to higher vibrational frequencies, which promote physical health and emotional well-being. In contrast, negative emotions such as fear, anger, and sadness are associated with lower frequencies, which can lead to disease and discomfort.

Wealth, Success, and Vibrational Energy

The connection between vibration and wealth is less obvious but equally profound. Wealth is not merely the accumulation of material possessions; it is a state of abundance that encompasses financial stability, opportunities, and success in various life domains. The vibrational state of an individual plays a crucial role in attracting or repelling wealth.

According to the Law of Attraction, which is deeply rooted in the principles of vibration, like attracts like. This means that individuals who maintain a high vibrational frequency through positive thinking, gratitude, and an abundance mindset are more likely to attract wealth and success. On the other hand, those who dwell on scarcity and negativity are likely to experience financial struggles and lack.

Nikola Tesla's insights can be applied here as well. By understanding and consciously controlling our energy and vibrations, we can align ourselves with the frequency of abundance. Practices such as visualization, affirmations, and gratitude exercises are tools that help in raising one's vibrational frequency, thereby attracting wealth and success.

Happiness and the Frequency of Joy

Happiness is often described as a state of being, characterized by feelings of joy, and fulfillment. It is closely tied to the vibrational state of an

individual. When a person experiences happiness, their body vibrates at a higher frequency. This state of high vibration is associated with positive emotions and a sense of well-being.

Einstein's assertion that "Everything is energy" highlights the fact that our emotions and thoughts are also forms of energy. By consciously choosing to focus on positive thoughts and emotions, we can elevate our vibrational frequency and experience greater happiness. Practices like mindfulness, meditation, and positive affirmations are effective in maintaining a high vibrational state, leading to sustained happiness.

Furthermore, happiness is not just a byproduct of external circumstances but is also a reflection of one's internal vibrational state. By cultivating a mindset of gratitude, love, and compassion, individuals can maintain a high frequency, regardless of external challenges. This internal vibrational state creates a positive feedback loop, where happiness leads to higher vibrations, which in turn attract more happiness and positive experiences.

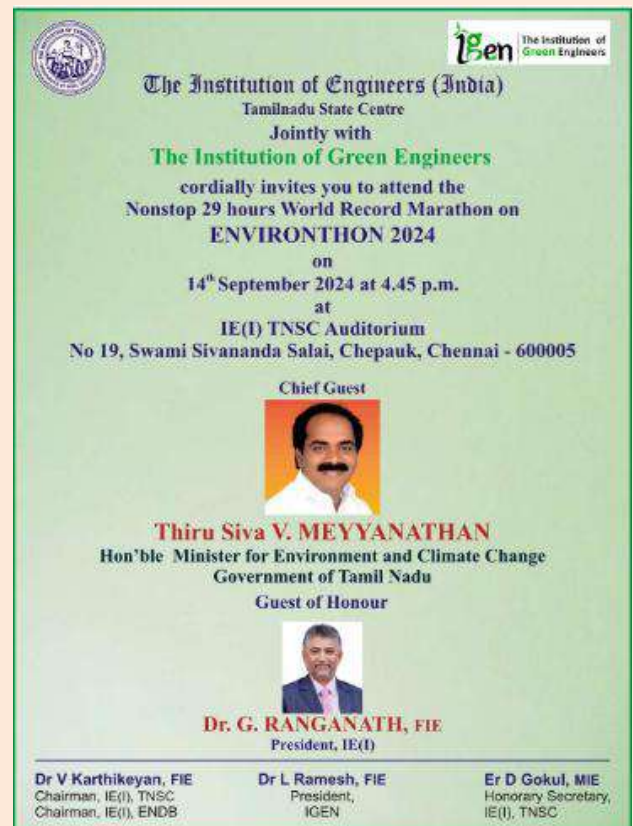
In conclusion, the concept of vibration is central to understanding and achieving health, wealth, and happiness. The human body, being a dynamic system of energy, is influenced by the vibrations it resonates with. By consciously raising and maintaining high vibrational frequencies, individuals can improve their physical health, attract wealth, and experience lasting happiness.

The wisdom of great minds like Albert Einstein and Nikola Tesla reminds us that vibration is not just a scientific concept but a powerful tool for personal transformation. By aligning ourselves with the right vibrations, we can unlock the full potential of our health, wealth, and happiness.

Er D Gokul , MIE, Honorary Secretary of IE(I) Tamilnadu State Centre proposed the vote of thanks. Committee Members, Local Centre Chairman, Corporate Members and Students

from Various engineering colleges joined the program.

This program is available in IEI TNSC Youtube channel: <https://youtu.be/Eh-5LOapQwo?si=jm-KIXT-eYGua8oK>



 **The Institution of Engineers (India)**
Tamilnadu State Centre

Cordially invites you to attend the

 **Unveiling the Statue of**
Bharat Ratna
Dr. Sir M. VISVESVARAYA
on
Saturday the 14th September 2024 at 16.45
at IE(I) TNSC Auditorium
No 19, Swami Sivananada Salai, Chepauk, Chennai - 600005

CHIEF GUEST


Thiru Siva V. MEYYANATHAN
Hon'ble Minister for Environment and Climate Change
Government of Tamil Nadu
in the august presence of

 **Dr. G. Ranganath, FIE**
President, IE(I)

 **Sri. Chocko Valliappa**
CEO, Vee Technologies Pvt. Ltd.,
India, USA, UAE & Singapore

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

Er D Gokul, MIE
Honorary Secretary
IE(I), TNSC

www.ieitnsc.org

 **The Institution of Engineers (India)**
Tamilnadu State Centre

Cordially invites you to attend the

 **57th Engineer's Day**
on the theme
**"Driving Sustainability with Engineering Solutions
embracing the latest AI Driven Technologies"**

on Sunday the 15th September 2024
at 10.45 a.m.
at **IE(I) TNSC Auditorium**
No.19, Sivanandha Salai,
Chepauk, Chennai - 600 005.

CHIEF GUESTS

 **Dr. G. Ranganath, FIE**
President, IE(I)

 **Sri. Chocko Valliappa**
CEO, Vee Technologies Pvt. Ltd.,
India, USA, UAE & Singapore

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

Er D Gokul, MIE
Honorary Secretary
IE(I), TNSC

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Forthcoming Technical Activities

Date	Title	Venue
14.09.2024	"ENVIRONTHON 2024" and Unveiling of Bharath Rathna Dr.Sir.Visvesvaraya reinstated Statue	IE(I), TNSC Auditorium Chennai
15.09.2024	Celebration of "Engineers Day "	
28.09.2024	Online Lecture Meeting on EV Technology	
05,06.10.2024	All India Seminar on "Augmentation of Bio Ethanol & Bio-Hydrogen from Organic Wastes"	ROSETTE Convention Centre, National Centre for Sustainable Coastal Management, Anna University, Guindy, Chennai – 600025.

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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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