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A CENTURY OF SERVICE TO THE NATION

Volume 32

Number 6

Conferment of Honorary Life Fellowship to Dr V Narayanan, Chairman, ISRO



It was a memorable occasion for the Institution, when a delegation led by Er VB Singh, President, IEI visited ISRO for conferring the 'Honorary Life Fellowship' of IEI to Dr V Narayanan, Secretary, Department of Space and Chairman, Indian Space Research Organisation, Bengaluru on the evening of 16 September 2025. Dr V Narayanan is an alumnus of the Institution.

The President, IEI was accompanied Dr S B Ganjigatti, Past Honorary Secretary, Karnataka State Centre, IEI; Er Lakshmana, Council Member, IEI; Er M Lakshmana, Honorary Secretary, Karnataka State Centre, IEI and Dr Enti Ranga Reddy, Council Member, IEI.

During the meeting, Dr. V Narayanan discussed on various issues pertaining to engineering and science, advancements in technology, communication, scientific research in space technology, etc to ensuring India's leadership in the global arena, contribution of IEI to the engineering community in particular and the society at large in the country since 105 years and its sustenance in the coming years, etc.

Thirty-eighth National Convention of Metallurgical and Materials Engineers and National Seminar

Capacity Building in Process Metallurgy

The 38th National Convention of Metallurgical and Materials Engineers, under the aegis of Metallurgical and Materials Engineering Division Board (MMDB), IEI was organized by Rourkela Local Centre, IEI during 26-27 July 2025, in association with the National Institute of Technology Rourkela at Rourkela. A National Seminar was concurrently organized on the theme **Capacity Building in Process Metallurgy**. The two-day National Convention was attended by a large number of delegates, including members, guests, sponsors,



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From the President's Desk.....

Peer Review Crisis and Mitigation



Publishing is more than just putting research into print—it is the very lifeline through which ideas travel, inspire, and transform society. In an age where information is everywhere, the real challenge is ensuring that what reaches the public is credible, ethical, and evidence based. That is why journals continue to play such a vital role in shaping the knowledge ecosystem.

The peer review system, long considered the backbone of academic integrity, is now under stress. Many researchers hesitate to take up reviewing due to time constraints, while a few attempt to misuse the system through questionable practices. This has led to slower review cycles, heavier workloads for editors, and, at times, a dent in the trustworthiness of published work. These challenges are not unique to India but are being felt worldwide, reminding us that publishing is not just a technical process—it is a shared responsibility.

At The Institution of Engineers (India), we remain committed to upholding the highest standards in our journals, published in collaboration with Springer. Our guiding practices include blind peer review, independence of editorial judgment, and strict adherence to publishing ethics. What makes these efforts meaningful is the active participation of our members—not only as authors but also as reviewers and editors. When each of us contributes in this way, we build a stronger publishing community that benefits all.

Newer questions are also shaping the future of scholarly communication. How do we balance open access with affordability? How do we use artificial intelligence responsibly in publishing—leveraging its potential without compromising authenticity? How do we empower young researchers from smaller towns and institutions so their voices are equally heard? These are conversations that require openness, inclusivity, and innovation.

The answers, I believe, lie in a cultural shift. Reviewing should be seen not as a burden but as an integral part of being a scholar. Senior experts can set the tone by guiding younger researchers in ethical reviewing, while institutions must encourage faculty to devote time to this responsibility. Technology may provide tools to assist us, but it is the human touch—the willingness to nurture knowledge—that will ultimately safeguard the integrity of our work.

In today's publishing world, credibility is the true measure of value. Without it, research loses direction; with it, ideas gain the power to inspire change. What we need is not just more publications, but more responsible publishing—where every review completed with integrity and every article accepted with diligence adds to humanity's collective journey of knowledge.

Capacity Building in Process Metallurgy

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academicians, industry experts and students. The event witnessed active participation from different organizations and covered Memorial Lecture, State-of-the-art lectures, Keynote Lectures, Invited Lectures and Contributory Talks in different parallel sessions. Prof K Umamaheshwar Rao, Director, National Institute of Technology Rourkela graced the inaugural function as the Chief Guest. Er Atanu Bhowmick, Former Director in Charge, RSP-SAIL and Professor of Practice, Metallurgical and Materials Engineering Department, NIT Rourkela was present on the dais as the Guest of Honour.

The inaugural session started with the welcome address by Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI. Er Polaki highlighted the significance of capacity building in process metallurgy in today's context, emphasizing the demand for skilled professionals, advanced research and industry - academia collaboration.

The Chief Guest, Prof K Umamaheshwar Rao, inaugurated the National Convention and urged the younger generation to focus on innovation and invention to keep pace with global technological progress. He reiterated the institute's commitment to fostering academic excellence, interdisciplinary research and strong industry engagement. The Guest of Honour, Er Atanu Bhowmick, spoke about the objective and importance of organizing such conventions. He underlined how national-level seminars help in shaping professional values, building a knowledge-sharing ecosystem and advancing metallurgical research. The Abstract Book of the National Convention was also released on this occasion.

On this occasion, Er Jagdish Arora, Director (Project & Technical), NALCO; Dr Vakil Singh, Ex-Professor, Department of Metallurgical Engineering, IIT BHU Varanasi and Dr K L Sahoo, Chief Scientist, Materials Engineering Division & Professor, AcSIR were felicitated as Eminent Engineering Personalities in recognition of their eminence and contribution to the profession of Metallurgical & Materials Engineering. The IEI Young Engineers Awards in Metallurgical and Materials Engineering Division for the year 2025 were presented to Dr Avanish Kumar Chandan, Senior Scientist, MTE Division, CSIR-NML, Jamshedpur and Ms Smita Toppo, Senior Manager, Steelmaking & Casting Group, R&D Centre for Iron & Steel, SAIL Bokaro, Jharkhand, in recognition of their contributions in the field of Metallurgical and Materials Engineering. Dr Ajit Behera, Honorary Secretary, Rourkela Local Centre, IEI proposed the vote of thanks at the end of inaugural session.

The inaugural session was followed by the V Subramony Memorial Lecture, delivered by Prof (Dr) V Sampath, Former Professor, Department of Metallurgical and Materials Engineering, IIT Madras on the topic 'Principles and Mechanisms of Shape Memory Alloys [SMA] and their Medical and Structural Engineering Applications'. The speaker explained Shape Memory Effect and Super Plastic Effect, alloy composition, processing techniques and microstructural control on improving the performance of SMAs intended for specific applications.

The State-of-the-Art Lecture was delivered by Prof (Dr) Animesh Mandal, Head, School of Minerals, Metallurgical & Materials Engineering, IIT Bhubaneswar on the topic 'The Present and Future of Aluminium Alloys'. The speaker discussed the potential of Aluminum alloys to contribute towards a greener future by carbon reduction strategy. He also explained the importance of high temperature Aluminium alloys in today's context.

The National Seminar featured a series of Keynote and Invited Lectures from distinguished academicians and industry experts. Er Atanu Bhowmick delivered a Keynote lecture on the topic 'Process Metallurgy Advances'. His lecture explored capacity building as a catalyst in the metallurgical value chain, not only through the advancements in furnaces and materials, but through the refinement of talent, institutions and collaborative ecosystems.

Er Jagdish Arora delivered a presentation on the topic 'Growth of Aluminium Industry in India'. Dr Vakil Singh delivered presentation on 'Some Aspects of Fatigue of Structural Materials'. Dr K L Sahoo delivered an Invited lecture on

the topic 'Development and Processing of Light Metallic Alloys for Speciality Applications'. Ms Smita Toppo delivered a lecture on the topic 'Utilization of Sludge Bricks as Primary Coolant in BOF Converters for Sustainable Steel Making'. Prof (Dr) Viswanath H M from Manipal University delivered an Invited Lecture on 'Fundamentals and Advancements in Additive Manufacturing' and mentioned that despite number of challenges, the technology continues to mature at a rapid pace. Dr Deepankar Panda, Department of Metallurgical and Materials Engineering, MNIT Jaipur delivered an Invited Lecture on 'Evolution of Microstructure, Texture and Mechanical Properties of Pure Mg and its Alloys during Grain Growth'.

During the technical sessions, papers were presented on diversified topics, which include; Investigation through Numerical Simulation and Experimental Validation of Square Bar Extrusion in Al-Mg-Si Alloy; Monte Carlo Modeling of Recrystallization and Grain Growth; Ni based superalloys used in Aerospace applications and their Characteristics; Optimizing Compaction Pressure and Foaming parameters for Enhanced Mechanical Properties in Powder Metallurgy based Al Foams; AI driven Modeling for RSW Tensile Shear Strength Prediction etc. For further details, please follow the link

<https://shorturl.at/8cfx3>

During the valedictory session, Shri P M Prasad, Chairman-cum-Managing Director, Coal India Limited, graced the function as the Chief Guest through his virtual presence. He emphasized the importance of metallurgical innovations in sustainable development and resource utilization. The session also included addresses by Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI; Prof Anshuman Patra, Convenor, CBPM-2025; Prof (Dr) Soumitra Kumar Dinda, Coordinator; Prof Singam Jayanthu, Conference Coordinator and Er Kishore Kumar Mehrotra, Chairman, MMDB and Council Member, IEI. Prof Ajit Behera, Honorary Secretary, Rourkela Local Centre, IEI proposed the vote of thanks. The deliberations over the two days produced several recommendations and suggestions on strengthening research-industry collaborations, advancing process metallurgy and nurturing young talent. Recommendations emanating from the two –day deliberation are as follows.

Capacity Building for Non-Ferrous and Special Alloys: Enhance focus on developing competencies for non-ferrous metals, particularly Titanium-Nickel based alloys is required, to cater to the escalating demand for these strategic materials; **Value-Added Products for Customs Replacement:** Emphasis should be given on the development of high-quality, value-added products to substitute imports, leveraging India's potential for producing specialized materials.

Adoption of Modern Tools for Techno-Economic Competitiveness: In conventional product technologies and development, the integration of Artificial Intelligence (AI) and Machine Learning (ML) be encouraged to enhance their competitiveness in the global market.

Sustainable Processes for Low Carbon Footprint: The adoption of environmentally friendly processes aligned with the low carbon rating system should be promoted, in the context of Sustainable Development Goals (SDGs), Atmanirbhar Bharat, and Viksit Bharat initiatives.

Harnessing the Potential of Shape Memory Alloys: The vast potential of Shape Memory Alloys (SMAs) in various engineering applications, including structural, civil, and other areas, should be focussed more to drive innovation and self-reliance.

The 38th National Convention of Metallurgical and Materials Engineers, provided a dynamic platform for academia, industry and researchers to exchange knowledge and deliberate on the latest advances in metallurgy. Supported by leading sponsors including L&T Minerals & Metals, Coal India Limited, NALCO, MECON Limited, SAIL RSP and others, the Convention reinforced the role of engineering in driving innovation and capacity building for the future.

Design and Development of Public Fast Charging Infrastructure for Electric and Hybrid Electric Vehicles

Tamilnadu State Centre, IEI in association with Centre for E-Vehicles Technologies (CEVT), Anna University organized an All India Seminar on **Design and Development of Public Fast Charging Infrastructure for Electric and Hybrid Electric Vehicles** during 28-29 March 2025, under the aegis of Electrical Engineering Division Board [ELDB], IEI at Chennai. The Seminar aimed to bring together experts from industry, academia and research institutions to deliberate on fast charging technologies, energy storage systems and infrastructural challenges in the context of India's transition towards sustainable mobility.

Dr V Karthikeyan, Chairman, Tamilnadu State Centre and Chairman, ENDB, IEI extended a warm welcome to the dignitaries, speakers and participants.

He highlighted the growing relevance of electric mobility in India, the importance of developing robust public charging infrastructure and the role of IEI in fostering dialogue between industry and academia. Mr Kannappan Chettiar, Founder, Switching Battery Inc graced the inaugural session as the Chief Guest. Mr Kaushik Palicha, Managing Director, Entity 2 Energy Storage Private Limited, graced the event as the Guest of Honour. In his address, he emphasized the crucial role of energy storage systems in the EV sector and elaborated on emerging technologies like sodium sulphide-based batteries, which are being scaled globally and will soon be adopted in India. Chief Guest, Mr Kannappan Chettiar, Founder, Switching Battery Inc presented an inspiring narrative on replacing conventional battery technologies with innovative alternatives.

Earlier, Dr C Sharmeela, Professor and Head of the Department of Electrical and Electronics Engineering (EEE) at College of Engineering, Guindy (CEG) in Anna University delivered the thematic address and outlined the challenges and opportunities in designing public fast charging systems and emphasized the importance of academia - industry partnerships in developing sustainable EV technologies. Er D Gokul, Honorary Secretary, Tamilnadu State Centre, IEI proposed the vote of thanks.

Followed by the inaugural session, Mr Thiru Srinivasan, CEO, Centre of Excellence in Advanced Automotive Research (CAAR), IIT Madras, delivered the Keynote lecture on the topic 'Technology Needs in Charging for Electric Vehicles'. He highlighted the urgent need for charging technologies that complement India's automotive industry and research ecosystem. His lecture provided a comprehensive analysis of design, materials, manufacturing and safety aspects while stressing the importance of training and technology adoption.

Dr V Gowri Sree, Professor & Head, Division of High Voltage Engineering, Department of Electrical & Electronics Engineering, CEG, Anna University delivered an Invited lecture on the topic 'Insulation Thickness Optimization for Enhanced Electro - Thermal Performance in EV DC Charging Stations'. She elaborated on insulation design, electro-thermal stress and safety aspects in EV fast-charging cables, supported by COMSOL simulations, underlining their impact on efficiency and reliability. She discussed the function of insulation materials in EV DC charging cables to maintain the safety and efficiency.

Dr C Sharmeela, delivered an Invited lecture on 'Power Quality Issues and Mitigation Techniques due to EV Charging Infrastructure', where

she discussed PQ issues such as harmonics, voltage flicker and supra harmonics, supported by case studies and presented mitigation strategies. Dr K Rathnakannan, Professor & Director, CEVT, CEG, Anna University, delivered an Invited lecture on 'Advancing E-Mobility: Intelligent Ultra-Fast EV Charging Solutions' and highlighted AI-driven load management, V2G integration and renewable-linked fast charging solutions to accelerate e-mobility.

Mr P Sivaraman, Schneider Electric Solar India Private Limited delivered an Invited lecture on 'Solar PV Systems and Energy Storage Systems for EV Fast Charging', where he emphasized the integration of solar energy with BESS to overcome intermittency and ensure reliable fast-charging infrastructure.



Further, during the technical sessions, a number of papers were presented on different sub theme, which included 'Design of DC Nano-Grid with Fuel Cell-Solar Cell Hybrid System for EV Fast Charging'; 'A Study of Intra & Inter Electromagnetic Interference on EVs and Charging Infrastructure'; 'Advanced PWM-Based Motor Control for H-Bridge Driven EV Power Trains'; 'Impact of EVs and Renewable

Sources in Unit Commitment Problem'; 'Wireless Charging-Based Battery and Drone Construction using STM32f407'; 'Leveraging IoT for Smart EV Infrastructure: Real-World Applications'; 'Voltage Profile and Profit Enhancement by Optimal Placement of EVCS and Capacitors'; 'AURA EV: Hybrid Charging EV with V2V Communication'; etc. For further details, please follow the link

<https://shorturl.at/MPEFh>

A panel discussion was organised on the topic 'EV Charging Infrastructure: Opportunities and Challenges', which was moderated by Dr P Marish Kumar, Easwari Engineering College. Panellists included Dr Naveenkumar Marati, R&D Specialist Professional, Hitachi Energy; Mr G Madhanasekar, Cluster Manager Technical Services, Radisson GRT; Dr A K Parvathy, Professor, SCOPE, Vellore Institute of Technology, Chennai; Dr T Porselvi, Professor, Department of EEE, Sri Sairam Engineering College and Dr Mahalakshmi Ganapathie, Lead power system Engineer & Head- Training Team, Power Projects. The discussion covered EV policies, infrastructure needs, safety practices, international standards, power quality issues and business models for fast charging infrastructure.

During the valedictory function, Mr G Madhanasekar, Cluster Manager, Technical Services, Radisson GRT, graced the function as the Chief Guest. Dr C Sharmeela, Convener of the event summarized the proceedings of deliberation. The session concluded with a vote of thanks by Er D Gokul.

The All India Seminar provided a comprehensive platform for deliberating on fast charging infrastructure for EVs and hybrid vehicles. The keynote lectures, invited talks, paper presentations and panel discussions highlighted the pressing need for technological innovations, safety standards and policy interventions. The seminar successfully bridged industry - academia collaboration and encouraged further research in the EV ecosystem, reaffirming IEI's commitment to promoting sustainable engineering practices in India.

Artificial Intelligence for Electrical Engineering

Salem Local Centre, IEI in association with the Department of Electrical and Electronics Engineering, Thiagarajar Polytechnic College (TPT), Salem organized an All India Seminar on **Artificial Intelligence for Electrical Engineering** during 30-31 January, 2025, under the aegis of Electrical Engineering Division Board [ELDB], IEI at Salem. The two-day Seminar was aimed at fostering discussion on the application of Artificial Intelligence (AI) and Machine Learning (ML) in electrical engineering domains such as smart grids, robotics, automation, condition monitoring, predictive maintenance and intelligent energy systems.

The Seminar commenced with welcome address by Dr K Thangaraj, Chairman, Salem Local Centre. He highlighted the historical significance of AI and ML, tracing their journey from expert systems to the present-day applications in power systems, robotics and secure data systems. He also emphasized IEI's role in creating opportunities for members and extended warm wishes to academia, industry and students.

Dr K Senathipathi, Convener of the event delivered the thematic address and discussed the use of AI in power system operations, control and planning, emphasizing its role in automation, distribution, decision-making and predictive fault management. He underlined how AI could enhance reliability, efficiency and sustainability in power distribution systems.

Dr A Kanakaraj, Principal, TPT in his lecture, elaborated on AI's transformative role in design and simulation, predictive maintenance and energy optimization. Using vivid analogies, he explained how AI-powered smart grids function like intelligent traffic controllers for electricity, ensuring dynamic, efficient distribution of energy.

The inaugural address was given by Er M Obulakshmi, Team Facilitator, Siemens India Private Limited., Bengaluru, who emphasized the immense potential of AI in electrical engineering. She highlighted AI's multidisciplinary nature and its contribution to solving longstanding challenges in power systems. Her talk underscored AI's ability to enhance efficiency, economic viability, safety and operational control in electrical engineering. A souvenir was released on the occasion. Er V Revathi, Convener of the event delivered the vote of thanks at the end of inaugural session, acknowledging the dignitaries, organizers and participants.

In the technical sessions, the first Invited Lecture was delivered by Er M

Obulakshmi, on 'Applications of AI in Industrial Electrical Engineering'. Dr S Padma, Professor & HoD, Electrical and Electronics Engineering Department, Sona College of Technology, Salem delivered Invited lecture on 'Artificial Intelligence in Electrical Industries'; Er G Kavitha, Lecturer, Electrical and Electronics Engineering, TPT delivered Invited lecture on 'Intelligent Electrical Systems: Powering the Future with AI'. Er M A Suresh Babu, Lecturer (Sr Sc.), EEE, TPT delivered Invited lecture on 'The Birth of AI: World War II'.

Also papers were presented on related sub theme, which include; 'Smart Grids and Intelligent Energy Systems, Machine Learning Applications in Power Systems'; 'Robotics and Automation in Electrical Engineering'; 'AI for Condition Monitoring and Predictive Maintenance' and 'Edge Computing and IoT in Electrical Networks, Renewable Energy Integration with AI'.

For further details, please follow the link

<https://shorturl.at/NaWu6>

The valedictory session commenced with a welcome address by Dr K Thangaraj. Er M

A Suresh Babu presented a detailed report on the seminar, summarizing invited lectures, paper presentations and major outcomes. The report highlighted the innovative ideas, technological challenges and participant feedback.

The valedictory address was delivered by Dr K Senathipathi, who emphasized AI's transformative journey in electrical engineering while noting the challenges in its widespread adoption, such as technological, economic and regulatory barriers. The session concluded with a Vote of Thanks by Dr C Dhavamani, Honorary Secretary, Salem Local Centre, IEI who expressed gratitude to speakers, participants, sponsors, organizers and technical teams for making the event successful.

The All India Seminar provided an enriching platform for knowledge exchange, connecting academia, industry and students. Through thematic and technical sessions, participants explored how AI is revolutionizing electrical engineering, from smart grids to predictive maintenance. The discussions and presentations underlined the vast opportunities AI offers while recognizing the challenges ahead. The seminar concluded on a highly positive note, reinforcing IEI's commitment to advancing engineering knowledge and practice.



Smart Metering and Net Metering

Gwalior Local Centre, IEI organized an All India Seminar on **Smart Metering and Net Metering** during 22-23 February, 2025, under the aegis of Electrical Engineering Division Board [ELDB], IEI at Gwalior. The Seminar aimed at exploring the emerging challenges and opportunities in the field of smart energy management, solar energy utilization and net metering practices in India. Eminent dignitaries, faculty members, industry experts, researchers and students participated in the sessions, making it a vibrant platform for knowledge sharing.

The Seminar started with the welcome address by Prof(Dr) Chandra Shekhar Malvi, Professor, Mechanical Engineering Department, MITS Gwalior and Chairman, Gwalior Local Centre, IEI. He highlighted the theme of the Seminar and discussed the performance of the 100 kW rooftop solar PV

plant at MITS, which has successfully operated for five years, effectively reducing CO₂ emissions. He emphasized the importance of continuous maintenance and the role of such systems in developing sustainable energy models for educational institutions.



The Keynote Speaker, Shri S K S Chauhan, DEO, Madhya Pradesh Urja Vikas Nigam, delivered an insightful lecture on metering system. He explained the working of Net Energy Metering as a billing mechanism enabling renewable energy consumers to utilize self-generated electricity anytime. He also elaborated on Smart Energy Meters as

critical components of modern energy management, capable of real-time monitoring and enabling efficient demand-side management. A souvenir was released on the occasion.

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Health Monitoring System for Building Structures using Deep Learning

Puducherry State Centre, IEI, in association with National Institute of Technology Puducherry, IEI Students' Chapter organized an All India Seminar on **Health Monitoring System for Building Structures using Deep Learning** during 20-21 February, 2025, under the aegis of Civil Engineering Division Board [CVDB], IEI at NIT Puducherry. The seminar brought together eminent experts, academicians, researchers and industry professionals to deliberate on the role of deep learning and artificial intelligence in structural health monitoring (SHM). Topics such as non-destructive evaluation (NDE), corrosion detection, predictive maintenance and AI-based monitoring techniques were extensively discussed.

Dr A Hemachander, IEI Coordinator, NIT Puducherry, highlighted the importance of integrating deep learning into SHM practices and its transformative impact on the engineering community.

Dr Makarand Madhao Ghangrekar, Director, NIT Puducherry, in his address emphasized the institution's dedication to innovation, cutting-edge research and fostering interdisciplinary collaborations. He also urged students to actively participate with the professional bodies like IEI.

Er K Soundararajan, Honorary Secretary, Puducherry State Centre, IEI stressed the role of AI and deep learning in infrastructure safety, predictive maintenance and real-time monitoring and Dr S Thirougnaname, Chairman, Puducherry State Centre, IEI spoke on strengthening industry-academia partnerships and bridging the gap between theoretical knowledge and real world applications.

The Chief Guest, Dr S Mohan, Vice Chancellor, Puducherry Technological University delivered an inspiring speech. He emphasized the potential of deep learning in predictive maintenance and real-time structural monitoring. He also motivated students and researchers to explore AI-driven solutions to address civil engineering challenges.

Dr S Mohan also delivered the Keynote Lecture on 'Deep Learning – An

Introduction' and explained the fundamentals of neural networks, CNNs, RNNs, transformers, predictive maintenance in building structures, case studies showcasing the application of AI in structural monitoring etc.

Er Vimal Mohan, Principal Scientist, CSIR-SERC delivered his lecture on 'Corrosion and Non-Destructive Techniques' and explained the causes and effect of corrosion in reinforced concrete structures, Non-destructive testing methods, AI powered NDT techniques etc.



Further, during the technical session, a number of papers were presented, focussed on advanced Deep Learning techniques tailored for structural health monitoring, feature extraction techniques in image-based structural analysis, automated crack detection using Deep Neural Networks, mathematical foundations required for Deep Learning, Linear Algebra concepts in Neural Networks, probability and statistics for predictive maintenance, optimization techniques and

gradient descent etc.

The valedictory session summarized the insights from two days of deliberations. The session highlighted the importance of AI in automating health assessments, strengthening interdisciplinary collaborations and building stronger industry-academia partnerships. Participants provided positive feedback, appreciating the balance of theory and practice, real-world case studies and opportunities for collaboration. Some participants suggested incorporating hands-on workshops and live AI-based demonstrations in future seminars.

The two-day seminar successfully demonstrated the transformative potential of deep learning in structural health monitoring. By integrating AI with non-destructive evaluation techniques, engineers can ensure safer, more durable and sustainable infrastructure. The event fostered a collaborative learning environment, paving the way for future research and innovation in AI-driven civil engineering solutions.

Smart Metering and Net Metering

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Shri KN Jha, Member, MP State Centre Committee, IEI spoke on Solar Energy: Powering a Sustainable Future, highlighting technological advancements in PV systems and their role in climate-friendly development. Ms Mugdha Shrivastava from Rustamji Institute of Technology, BSF Academy, Tekanpur, & Prof Gaurav Bhardwaj, MITS Gwalior presented a study on Failure Modes and Risk Prioritization in Solar PV Systems using FMEA and RPN, stressing reliability and standard frameworks. Shri Rajesh Sharma, Shri Saurabh Kumar Rajput and Dr Sulochana Wadhvani, from MITS-DU Gwalior, discussed Performance Analysis of Photovoltaic Cells with respect to light intensity variations. Mr Deepansh Kulshrestha, Shri Saurabh Kumar Rajput and Shri Nikhil Paliwal from Electrical Engineering Department, MITS, Gwalior presented on 'Utilizing Smart Meter Data for Power Grid Regulation and Enhancement'. Dr Sarika Shrivastava & Dr Namita Saxena from SMS Government Science College, Gwalior & RJIT Tekanpur, explained Techniques to Develop Nano Crystal Solar Cells and Spin Coating. Er Dhruv Gupta, Shri Yashwant Sawle and Shri Vishal Chaudhary from MITS, Gwalior spoke on Hybrid Renewable Energy Systems: Enhancing Sustainability in Ahmedabad using HOMER Pro. Mr Abhay Pratap Singh, Ms Ayushi Vyas and Prof C S Malvi from MITS Gwalior, presented an analysis on Financial Viability of Two-Wheeler EV Charging Stations. Mr Deepak Pippal, CEO, Jasiv Green Energy Solution, Gwalior delivered a comparative study on Smart Metering vs Net

Metering in Madhya Pradesh. Er Vishnu Swaroop and Ms Pragya Agrawal from National Informatics Centre, Lucknow, reviewed Computational Models to Predict Solar Radiation. Mr Atul Mohan & Ms Kanika Prasad from Institute of Technical Textiles, Haryana and NIT Jamshedpur, presented a paper on Solar Panel Recycling in India: Challenges and Opportunities. For further details about the technical session, please follow the link

<https://shorturl.at/iR2QV>

The Seminar concluded with the Valedictory Address by Dr (Ms) Chhavi Singhal, Director, GEC Overseas, who emphasized the advantages of smart meters, the role of lithium-ion technologies and the importance of solar panel recycling. She also raised safety concerns related to energy storage and system integration.

The All India Seminar provided a comprehensive platform for academia, researchers and industry professionals to deliberate on smart energy management, solar integration and sustainable practices. The two-day discussions highlighted real-world applications, financial models, challenges in PV reliability and policy implications. The program concluded successfully with positive feedback from participants, who appreciated the depth of technical sessions and the balance of academic and industrial perspectives.

Disaster Management

Nashik Local Centre, IEI, successfully organized a One Day Seminar on **Disaster Management** under the aegis of Interdisciplinary Coordination Committee [ICC] on 15 May 2025 at Nashik. The Seminar aimed to sensitize industries about the importance of creating hazard-free environments in factories. It emphasized equipping industry professionals with knowledge of safety studies, compliance with safety regulations and best practices to mitigate hazards while promoting a safety-conscious culture. Disaster management was discussed as a comprehensive process involving mitigation, preparedness, response and recovery to minimize the impact of natural and man-made disasters.

The event started with an introductory address by Er Manish Mahendra Kothari, presently, President Elect, IEI, highlighting the history, achievements and future plans of the Nashik Local Centre, while also outlining various initiatives undertaken.

Er Samir Dilip Kothari, Chairman, Nashik Local Centre, IEI; Er Sumit Kantilal Khinvasara and Er Narendra Birar, Past Chairmen, Nashik Local Centre, IEI were present during the session.

Speakers of the session were Mrs A C Ade, Joint Director, DISH, Nashik; Mr Asit Patra, Deputy Director, DMI, Bhopal; Mr Dhananjay Joshi, DGM

(MD & Safety), Mahindra & Mahindra, Nashik and Mr Ram Dahiphale, Additional Director, DISH, Mumbai. Their addresses underscored the necessity of awareness, collaboration and technical preparedness for disaster management in industries, stressing the role of engineers in ensuring workplace safety and resilience.



In the first technical session Mrs A C Ade delivered her lecture on the topic 'Safety Studies and discussed the objective and types of safety studies

Mr Asit Patra spoke on 'Disaster Management' and elaborated on the principles of disaster management, classifying disasters and explained types and phases of disaster.

Mr Dhananjay Joshi delivered his lecture on 'Industrial Safety' and explained its importance, common hazards, risk assessment, training on safety etc.

Mr Ram Dahiphale spoke on 'Industrial Safety & Health' and emphasized a multidisciplinary approach to occupational safety and health.

The Seminar saw active participation from members of Nashik Local Centre, IEI, industry professionals and subject experts, making the seminar highly impactful.

Revolutionizing Infrastructure Monitoring: Advanced Sensors, AI and ML in Civil Engineering

Salem Local Centre, IEI, in association with Department of Civil Engineering, K S Rangasamy College of Technology, [KSRTC], Tiruchengode successfully organized an One Day Seminar on **Revolutionizing Infrastructure Monitoring: Advanced Sensors, AI and ML in Civil Engineering** under the aegis of Civil Engineering Division Board [CVDB] on 11 March 2025 at K S Rangasamy College of Technology, Tiruchengode. The Seminar aimed at exploring how emerging technologies such as advanced sensors, Artificial Intelligence (AI) and Machine Learning (ML) are transforming civil engineering practices through real-time monitoring, predictive maintenance and improved decision-making. The event was attended by number of participants, including academicians, professionals, researchers and students.

The inaugural session began with a welcome address delivered by Dr K Thangaraj, Chairman, Salem Local Centre, IEI. He greeted dignitaries, faculty, participants and students and emphasized the transformative role of AI and ML in building resilient cities, improving water management, enhancing decision-making and promoting sustainability in civil engineering.

Dr N Ramesh, Professor, Civil Engineering, KSRTC introduced the theme of the Seminar and explained how AI-assisted design and ML algorithms enable predictive modeling, resilience optimization and sustainability. He stressed the significance of IoT-enabled sensors for continuous infrastructure monitoring, predictive maintenance and early detection of degradation, which ultimately helps extend infrastructure life and reduce environmental costs.

Dr A Kumaravel, Dean, Administration, K S Rangasamy College of Technology & Committee Member, Salem Local Centre, IEI in his opening remarks highlighted, how AI and ML technologies such as deep learning, neural networks and genetic algorithms are revolutionizing civil engineering in areas like structural health monitoring, earthquake resilience, renewable energy systems and environmental sustainability. He also outlined challenges such as data quality and ethical considerations while stressing the need for policy interventions to accelerate AI deployment in civil engineering.



Dr A Ranganathan, Assistant Divisional Engineer, WRD – Special Project Division, Perundurai graced the function as the Chief Guest and Keynote speaker. He elaborated on the role of advanced sensors, AI and ML in infrastructure monitoring, discussing on Advanced Sensors for real-time data collection (IoT, drones, LiDAR, SHM sensors), AI and ML Models for analyzing data, identifying patterns, anomalies and predicting failures,

Applications in roads, bridges, tunnels, buildings and water infrastructure and Predictive Maintenance and Early Warning Systems ensuring safety and cost-effective operations.

Dr K Raguvaran, Assistant Professor, Department of Electronics and Communication Engineering, KSRTC delivered Invited Lecture on 'Smart Building: An Intelligent Business Proposition for a Green, Safe and Productive Future'; Dr P Mageshkumar, Associate Professor & Head, Department of Civil Engineering, KSRTC on 'Introduction to Artificial Intelligence'. Dr C Rajan, Professor, Department of Computer Science & Engineering (AIML), KSRTC on 'AI Revolutionizing Civil Engineering' and Er

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Green Energy Technology

Kollam Local Centre, IEI, organized an One Day Workshop on **Green Energy Technology** under the aegis of Electrical Engineering Division Board [ELDB], IEI on 15 February 2025 at Kottarakkara. The objective of the workshop was to promote awareness and facilitate discussions on renewable energy sources, energy efficiency, sustainable power generation and supportive policy frameworks. The event provided an excellent platform for students, academicians, industry experts and professionals to exchange knowledge and explore solutions for a sustainable energy future.

The inaugural session started with a welcome address by Prof (Dr) Ms Sudhi Mary Kurian, Honorary Secretary, Kollam Local Centre, IEI who highlighted the significance of the workshop and its role in inspiring engineers and students to embrace renewable energy practices.

Dr K Madhusoodanan Pillai, Chairman, Kollam Local Centre, IEI chaired the session and emphasized the vital role of engineers in advancing green energy technologies. The workshop was inaugurated by the Chief Guest, Dr R Harikumar, Director, Energy Management Centre (EMC), Kerala. Dr Harikumar in his inaugural address stressed the importance of policy-driven energy adoption and highlighted the initiatives of EMC in fostering energy sustainability in Kerala. Er P Balakrishnan Nair, Chairman, Kerala State Centre, IEI was present on the dais and lauded the initiative and reiterated the need for effective utilization of renewable energy resources.

The technical sessions featured distinguished speakers from academia and industry. Dr Prabu K, Associate Professor, Department of Electronics and Communication Engineering, NITK Surathkal delivered his presentation on 'Renewable Energy Innovations & Challenges', exploring the emerging

technologies in solar and wind energy and the challenges of scaling them effectively. Mr Dinesh Kumar A N, Joint Director, EMC Kerala spoke on 'Energy Efficiency & Policy Frameworks', focusing on government policies, strategies and frameworks designed to support sustainable energy management. Er P Balakrishnan Nair, Chairman, Kerala State Centre, IEI conducted a technical session on 'Effective Utilization of Green Energy', where he shared practical applications, case studies and success stories in energy conservation and efficiency. All sessions were interactive, with active engagement from participants who raised thoughtful questions and discussed innovative ideas for a green energy future.



An exhibition of electric scooters was also organized on the occasion. The exhibition highlighted the importance of adopting electric mobility to reduce carbon footprints and improve energy efficiency in the transportation sector.

The valedictory session included participant feedback, which was overwhelmingly positive, praising both the academic depth and practical demonstrations of the seminar. The vote of thanks was delivered by Dr Lijesh L, Convener of the Workshop, who expressed gratitude to all dignitaries, speakers, participants and the organizing committee.

The One Day Workshop was a resounding success which enhanced awareness on renewable energy, offered insights into government policies, emphasized energy efficiency measures and showcased sustainable transportation through electric mobility. The event significantly contributed to fostering a culture of innovation and sustainability among engineers, students and industry professionals.

Recent Advancements in Electric Power Systems

Jamshedpur Local Centre, IEI, organized an One Day Seminar on **Recent Advancements in Electric Power Systems** under the aegis of Electrical Engineering Division Board [ELDB] on 08 February 2025 at Jamshedpur. The Seminar brought together eminent experts, industry professionals, academicians and students to deliberate on the latest developments in electric power systems and their applications for sustainable energy and reliable power supply. The event witnessed participation from large number of delegates from NIT Jamshedpur, Arka Jain University, Srinath University, Maryland Institute of Technology and Management, Adityapur Polytechnic, as well as professionals from Tata Steel, Tata Steel Growth Shop, CSIR-NML, Adhunik Power & Natural Resources Ltd, Tata Tinplate, among others.

Er T Thirumurugan, Honorary Secretary, Jamshedpur Local Centre, IEI welcomed all participants and highlighted the significance of such seminars in bridging the gap between academia and industry while encouraging young engineers to engage with emerging technologies in the field of power systems.

Er Sourabh Goyal, Chief, Iron Making, Electrical Maintenance, Tata Steel Limited, Jamshedpur in his opening remarks emphasized the importance of integrating grid networks for reliable resources and sensitized the audience on the challenges of modern electric power systems.

The Chief Guest, Er Parvesh Kumar Dhawan, Ex-Chief Scientist and Head, Engineering Division, CSIR-NML, in his address, stressed upon the

integration of power grids for uninterrupted and reliable power supply. He underlined the need for advanced controls, enhanced safety and strong cyber security measures for the protection of the national grid. His insights laid the foundation for the day's technical discussions.

The Keynote lecture titled 'Innovations in Energy: Shaping a Cleaner, Greener India' was delivered by Dr Rekha Choudary, Ex-Principal, Maryland Institute of Technology, Galudih, Jamshedpur. She elaborated on emerging sources of energy such as hydrogen fuel, fuel cells, biofuels and synthetic fuels as alternatives to fossil fuels. She explained hydrogen's potential as a clean energy carrier, producing only water when consumed in a fuel cell, and discussed challenges in hydrogen production and electrolysis costs. Dr. Choudary emphasized that future advancements in clean fuels would significantly reduce environmental impact and support India's transition towards a greener energy economy.



The second lecture was delivered by Dr Omhari Gupta, Assistant Professor, Department of Electrical Engineering, NIT Jamshedpur on the topic 'Distributed Generation and Power Quality'. He discussed grid integration of renewable-based distributed generation using a microgrid approach, addressing challenges of renewable variability and its solutions. He also focused on power quality issues and how distributed generation could enhance electricity reliability.

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Water Reuse and Conservation

Bareilly Local Centre, IEI organized an One Day Seminar on the theme **Water Reuse and Conservation** under the aegis of Civil Engineering Division Board [CVDB] on 29 January 2025 at Bareilly. The Seminar was celebrated with great enthusiasm and witnessed active participation from engineers, academicians, industry professionals and students and aimed to emphasize the critical importance of sustainable water management and showcased innovative approaches for conservation and reuse.

The Seminar began with the inaugural words and introduction the theme by Prof (Dr) Pankaj Kumar Sharma, Chairman, Bareilly Local Centre, IEI who highlighted that water reuse and conservation are crucial for sustaining life, preserving ecosystems and securing water for future generations. He emphasized strategies such as rainwater harvesting, greywater recycling, wastewater treatment and efficient irrigation as means to minimize wastage and optimize resource use.



The Keynote address was delivered by Er Jaideep Singh, Senior Manager, Kribhco Fertilizers Limited, Shahjahanpur, on the topic 'Urban Water Conservation'. He explained that sustainable urban water management requires practices like rainwater harvesting, wastewater recycling, green infrastructure (permeable pavements, rooftop gardens) and efficient irrigation systems. He also highlighted the role of government policies, public awareness and emerging technologies like AI-driven water management and IoT-based leak detection in ensuring long-term water sustainability.

The second lecture was delivered by Er Prashant Ravichandran, Deputy Manager, Kribhco Fertilizers Limited, Shahjahanpur, on 'Community-Based Water Management'. He emphasized community participation in water conservation through watershed restoration, traditional knowledge integration, participatory decision-making and collaboration with NGOs and government agencies. His address reinforced the importance of empowering local communities for sustainable water practices.

The technical sessions featured a series of engaging presentations by the student groups. Mohd Nizam Khan, Mr Kartik Srivastava and Mr Sunny Sagar from SRMS College of Engineering & Technology, Bareilly delivered presentation on 'Water Conservation: Securing Our Future – Saving Water, Protecting Life'. Their impactful presentation stressed water conservation practices and their role in ecosystem balance and community well-being. Mr Sachin Kumar and Mr Tanishq Maurya from Rajshree Institute of Management & Technology, [RIMT], Bareilly on 'Water Reuse and Conservation' highlighting the role of wastewater recycling, smart irrigation and community-driven initiatives. Mr Deep Kumar and Mohd Shakir from RIMT, Bareilly on 'Wastewater Treatment for Irrigation' explaining how treated wastewater can be reused in agriculture to reduce freshwater dependency. Mr Desh Deepak from RIMT, Bareilly spoke on 'Water Reuse and Conservation', emphasizing technologies such as leak detection, smart irrigation and awareness campaigns for sustainable resource use. The student sessions reinforced the principle "Saving Water, Protecting Life", underlining the importance of conservation for a sustainable future.

The valedictory session featured reflections on the Seminar's success, with appreciation for the enthusiastic participation of students and professionals alike. The Seminar concluded successfully, offering participants valuable insights into the critical role of water reuse and conservation in ensuring sustainability. It fostered awareness about smart technologies, community-driven practices and policy measures needed to protect this precious resource. The event served as a platform for knowledge sharing, inspiring engineers and students to work towards sustainable water management and conservation for a better future.

Revolutionizing Infrastructure Monitoring: Advanced Sensors, AI and ML in Civil Engineering

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G Amirthagadeshwaran, Managing Director, GVR Construction, Erode on 'AI in the Construction Industry: Transforming the Future'. These sessions highlighted the integration of AI in design optimization, construction management, predictive maintenance and smart city development.

The valedictory address was delivered by Er G Amirthagadeshwaran, who highlighted the transformative role of AI in design optimization, construction automation, predictive maintenance and smart city planning. Certificates were distributed to participants by Prof (Dr) C Dhavamani, Honorary

Secretary, Salem Local Centre, IEI delivered the vote of thanks acknowledging the contributions of the speakers, participants and organizing institutions.

The One Day Seminar successfully provided a valuable platform for knowledge exchange on the application of advanced sensors, AI and ML in civil engineering, construction management and automation, predictive maintenance and infrastructure, AI in Smart City etc. Participants gained insights into data-driven infrastructure monitoring, design optimization and sustainable construction practices. The program concluded with enthusiasm and generated new ideas for research, collaboration and future developments in smart infrastructure monitoring.

Discount at the Samsung e-store for IEI Corporate Members

Exclusive access to the Samsung e-store for IEI Corporate Members. This shall enable the Corporate Members to procure the Samsung Products at a discounted rate. The Samsung e-store can be accessed at www.samsung.com/in/multistore/iei using your Membership No. and email id/Mobile Number.

IEI Celebrates

World Environment Day 2025

Theme : Beat Plastic Pollution

World Environment Day was celebrated by the Centres/Forum of the Institution all over the country on 05 June 2025. Brief accounts of the celebration as received from various Centres are reported hereunder.

STATE CENTRES

Andhra Pradesh



Andhra Pradesh State Centre, IEI in collaboration with the Board for Community Development through Education, Government of Andhra Pradesh, observed World Environment Day 2025 on

05 June 2025 at Vijayawada. Prof (Dr) P Udaya Bhaskar, Former Chairman, Andhra Pradesh Public Service Commission (APPSC) and Professor of JNTU Kakinada, in his opening remarks, highlighted engineers' roles in promoting eco-friendly technologies. Dr C V Sriram, Immediate Past Chairman, Andhra Pradesh State Centre, IEI in his presidential remarks, emphasized sustainable alternatives to plastics and introduced the theme. Chief Guest, Er Narendra A Patil, Divisional Railway Manager, South Central Railway, Vijayawada, in his Keynote address outlined Indian Railways' initiatives toward becoming net-zero carbon emitters by 2030 and detailed efforts like eliminating single-use plastics and installing bottle crushers at stations. Dr C V Sriram, stressed engineering ethics and youth involvement in combating plastic pollution. A tree plantation drive was conducted on the occasion to symbolize environmental commitment.

Puducherry



Puducherry State Centre, IEI organized World Environment Day on 06 June 2025 at Puducherry. Dr S Thirougnaname, Chairman, Puducherry State Centre, IEI emphasized the critical need for sustainable

action against plastic pollution. Er K Sundramoorthy, Superintending Engineer, PWD, Puducherry delivered a compelling speech on the urgent need to reduce plastic use, while Er R Devadassou, Assistant Engineer, PWD, Puducherry elaborated on the environmental impacts and mitigation strategies. Mr Seenu Thamizhmani, Organizer, Poovulagin Nanbargal, Puducherry highlighted sector-wise approaches to combating plastic pollution. The programme witnessed enthusiastic participation from newly recruited and in-service engineers of PWD as well as IEI members, collectively reinforcing the commitment to a plastic-free and sustainable future.

Sikkim



Sikkim State Centre, IEI in collaboration with ATTC Polytechnic, Bardang, East Sikkim, celebrated World Environment Day on 05 June 2025 at ATTC, East Sikkim. Chief Guest, Shri

R K Pariyar, former Secretary-cum-Principal Chief Engineer, Government of Sikkim emphasized engineers' role in environmental education and sustainability. Keynote Speaker, Dr Hari Bhakta Sharma, Assistant Professor, SMIT Majhitar discussed the dangers of plastic pollution, introduced the "10 R's" of waste management and promoted source-level segregation. Special invitees included Dr Guru Prasad Sharma, Assistant Professor, SMIT, Majhitar; Er Anirban Sengupta, Associate Professor, SMIT, Majhitar and Mrs L M Tamang and other officials from the Forest Department, Rangpo Division, Government of Sikkim were present during the program. Mr Sonam Palden Barfungpa, Principal, ATTC Polytechnic urged action against plastic use.

West Bengal

West Bengal State Centre, IEI celebrated World Environment Day 2025 on 05 June 2025 at Kolkata. Dr Nirmal Das, Immediate Past Chairman,



West Bengal State Centre, IEI, highlighted the relevance of the theme and acknowledging the presence of Council members, corporate participants and the theme speaker. Prof (Dr) N R Bandyopadhyay, Past

Chairman of the centre, introduced the theme and stressed the urgency of tackling plastic pollution due to its severe ecological and health impacts. The Keynote lecture was delivered by Prof Jayanta Bandyopadhyay, Distinguished Fellow at the Observer Research Foundation, Kolkata and Former Professor, IIM Calcutta traced the origins of World Environment Day and called for an interdisciplinary approach to address plastic pollution.

LOCAL CENTRES

Anpara

Anpara Local Centre, IEI celebrated World Environment Day 2025 on 05 June 2025 at Anpara. The event commenced with a plantation drive



The event observed enthusiastic participation from professionals of Uttar Pradesh Rajya Vidyut Utpadan Nigam (UPRVUNL) and MEIL. The technical session featured engaging discussions on

the critical issue of plastic pollution, including its alarming spread into remote ecosystems and the human body through microplastics. Speakers highlighted the need for a circular economy, sustainable alternatives and the reduction of single-use plastics. The dialogue gained further relevance with reference to the upcoming global treaty negotiations on plastic pollution. The event concluded with a collective pledge by all participants to adopt eco-friendly practices and contribute meaningfully toward a plastic-free, healthier planet.

Brahmapur



Brahmapur Local Centre, IEI, in association with ECO City Club, celebrated World Environment Day on 05 June 2025 at Brahmapur. Chief Guest, Prof Santosh Kumar Udagata, Dean OUAT, College of Fisheries shared insights on pressing environmental issues and called for community-driven sustainable practices. Sri Pratap Ch. Dash (Prakruti Bandhu), Vice President, ECO City Club also participated actively. Scholars, researchers and engineers engaged in meaningful discussions on tackling plastic pollution and promoting ecological responsibility. The collaborative spirit of IEI and ECO City Club, supported by active youth participation, made the event a resounding success and reinforced the call for united action toward a greener, plastic-free future.

Chandrapur



Chandrapur Local Centre, IEI, in association with the Departments of Civil Engineering and Electronics & Communication Engineering, Rajiv Gandhi College of Engineering, Research and Technology [RCERT] Chandrapur, celebrated World Environment Day on 12 June 2025 at Chandrapur. Dr Anil Chitade, Principal, RCERT graced the occasion as the Chief Guest, emphasizing the importance of environmental awareness among students. The Keynote address was delivered by Dr Sachin Wazalwar, Associate Professor, Department of Chemistry, RCERT and Member, Green Planet Society presented compelling statistics and sustainable solutions to combat plastic pollution.

Chhatrapati Sambhaji Nagar

Chhatrapati Sambhaji Nagar Local Centre, IEI celebrated World Environment Day on 05 June 2025 by organizing a Tree Plantation Programme to promote



environmental sustainability and raise awareness about ecological responsibility. The programme commenced with all attendees gathering at the IEI premises and saplings were planted across the institute's grounds, creating a green belt around the premises. The initiative aimed to install a sense of environmental responsibility among participants and emphasize the vital role of trees in maintaining ecological balance. The event concluded with a shared commitment by the participants to nurture and protect the planted trees, reflecting the Centre's dedication to sustainable development and climate action.

Jamshedpur



Jamshedpur Local Centre, IEI celebrated World Environment Day 2025 on 05 June 2025 to promote sustainability and environmental responsibility. The programme began with a tree plantation drive on the Centre premises. Chief Guest, Mr Amit Ranjan Chakraborty, Chief, Environment Management, Tata Steel Limited, Jamshedpur emphasized the collective responsibility to protect the planet and called for proactive efforts

to reduce plastic use and support green initiatives. The event concluded with a pledge by participants to adopt eco-friendly practices and advocate for sustainable policies.

Munirabad



Munirabad Local Centre, IEI, in collaboration with Government Engineering College, Talakal and its NSS unit, celebrated World Environment Day 2025 on 05 June 2025 at Munirabad. The event commenced with a tree plantation drive involving dignitaries, faculty and students. Dr H M Sadananda, environmental activist and Keynote speaker, emphasized the urgent need to eliminate single-use plastics and adopt sustainable alternatives such as cloth bags and biodegradable materials. Dr S L Nadaf, Principal, Government Engineering College, Talakal stressed the importance of reducing, reusing and recycling to protect natural resources. Dr S M Shashidhar, Chairman, Munirabad Local Centre, IEI called upon engineers to devise innovative waste management systems and sustainable alternatives to plastics, noting the alarming rate of microplastic consumption.

Muzaffarpur

Muzaffarpur Local Centre, IEI celebrated World Environment Day on 05 June 2025 through virtual platform. Dr Ramjee Prasad Gupta, Chairman, Muzaffarpur Local Centre, IEI highlighted the importance of environmental protection for achieving sustainable and economically balanced societal well-being. The Chief Guest, Shri Sushil Kumar, IES, Ex-Director, Patna Metro Rail Corporation Limited delivered an insightful address detailing the innovative measures adopted by Indian Railways and Delhi Metro to reduce plastic pollution, including the use of eco-friendly materials and efficient waste management systems. The online celebration witnessed the active participation of numerous members, including committee members, past chairmen and other dignitaries. The program effectively reinforced the need for collaborative efforts in tackling plastic waste and promoting sustainable urban transport solutions as part of the broader environmental movement.

Navi Mumbai

Navi Mumbai Local Centre, IEI celebrated World Environment Day on 10 June 2025 at Belapur. Shri Hiten Sethi, Founder & CEO, M/s Hiten Sethi Associates, delivered a



lecture on 'Designing for Impact: Sustainability as a Guiding Principle' and highlighted the importance of sustainable architecture and presented case studies showcasing environmentally adaptive designs. The event served as a knowledge-sharing platform for promoting sustainable engineering practices and reducing plastic pollution. Dr Nilajkumar Najukrao Deshmukh, Chairman, Navi Mumbai Local Centre, IEI underscored the relevance of World Environment Day and the collective responsibility to protect the planet. The session was graced by many eminent dignitaries which concluded with a vote of thanks, marking the successful culmination of an insightful and action-oriented seminar dedicated to environmental sustainability.

Silchar



Silchar Local Centre, IEI, in collaboration with the Regional Laboratory cum Office (RLO), Pollution Control Board Assam, celebrated World

Environment Day 2025 through a series of impactful events from 25 May 2025, 3 June, 5 June and 8 June 2025, at Silchar. Distinguished speakers included Dr Ajita Tiwari, HoD, Agricultural Engineering, Assam University; Er Arabinda Das, Executive Engineer, PCBA and Er Saroj Kumar Koiri, eco-entrepreneur and founder of Raamor Enterprise. Dr Tiwari highlighted engineering innovations to reduce plastic in agriculture, while Er Das stressed on awareness, reduced single-use plastic, and better recycling. Er Koiri shared his sustainable initiative in producing eco-friendly paper products.

Trichur

Trichur Local Centre, IEI celebrated World Environment Day on 06 June 2025



at Trichur. Prof (Dr) C P Sunil Kumar, Former Dean & HOD, Government Engineering College, Thrissur delivered the Keynote address and highlighted India's advanced initiatives to combat plastic pollution, technological innovations and the role of community engagement in achieving the UN Sustainable Development Goals.

Tuticorin

Tuticorin Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Tuticorin. Er I M Michael Raj, Past Chairman of the Centre, stressed the importance of observing World Environment Day. He reflected on how human activities have disrupted Earth's natural balance, urging a collective



responsibility to restore environmental health. Mr Arulselvam, a noted expert in environmental management, delivered the Keynote address, highlighting the pervasive

impact of plastic pollution, including the presence of microplastics in the human body. He called for systemic change through sustainable practices and collective action, aligning with the global push toward a treaty to end plastic pollution. The programme served as a platform for raising awareness and fostering commitment to environmental protection.

Vallabh Vidyannagar

Observed World Environment Day, in association with Ultratech Cement Limited and organized a Tree Plantation Program on 05 June 2025, aligning with this year's theme of ecosystem restoration. The event aimed to promote environmental stewardship by planting trees as a tangible step towards combating climate change, fostering green campus initiatives and encouraging community participation for ecological restoration. The program brought together engineers, students, professionals and local residents in a shared commitment to sustainability. Participants engaged in planting saplings while reflecting on the vital role of afforestation in reducing carbon footprints and enhancing biodiversity. The successful event concluded with a resolve to continue such green initiatives, ensuring that the seeds planted today grow into a healthier, greener planet for future generations.

Recent Advancements in Electric Power Systems

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The third lecture was presented by Dr Sharat Chandra Mahato, Assistant Professor, Dept of Electrical & Electronics Engineering & Associate Dean (Academic Affairs), RVS College of Engineering & Technology, Jamshedpur. He spoke on electric vehicles and introduced stable fuzzy controllers using Linear Matrix Inequalities (LMIs). His lecture highlighted how robust control mechanisms could stabilize EV speed under various operational uncertainties and external disturbances.

The fourth session was addressed by Dr Jitendra Kumar, Assistant Professor, NIT Jamshedpur, delivered a lecture on 'Green Energy and Clean Energy for New India'. He emphasized smart grid technologies and their role in advancing India's clean energy goals, underscoring the importance of innovation for energy efficiency and sustainability.

The fifth lecture was given by Er Ajit Kumar Singh, PhD Research Scholar, Department of Electrical Engineering, NIT Jamshedpur spoke on 'DC Microgrid Feeder Protection'. He elaborated on key issues such as energy storage, cyber security, operational, financial and maintenance challenges

in DC microgrids, stressing the importance of resilience and protection frameworks.

The Seminar concluded with an interactive question - answer session followed by the distribution of participation certificates. A feedback session was conducted, where participants expressed appreciation for the highly informative and interactive sessions. The event concluded with a formal vote of thanks proposed by Er S D Bhattacharjee, Immediate Past Honorary Secretary, Jamshedpur Local Centre, IEI who acknowledged the contributions of dignitaries, speakers, participants and organizers.

The One Day Seminar successfully provided a vibrant platform for knowledge exchange and interaction between academia and industry. The sessions covered vital topics including hydrogen fuel, distributed generation, electric vehicles, smart grids and DC microgrid protection. The seminar was well received by participants and was a grand success, charting a roadmap for sustainable, reliable and safe practices in electric power systems for the future.

Empanelment as Advocate/ Attorneys & Chartered Accountant who are also Engineers

The Institution of Engineers (India) invites practicing Advocates/Attorneys and Chartered Accountants who are also Engineers to apply for empanelment to enhance their visibility in the public domain. Empanelment entails a nominal application fee of Rs. 5900/- (inclusive of GST) payable by Demand Draft/Multi-city Cheque drawn in favor of "**The Institution of Engineers (India)**" and payable at Kolkata.

Applicants are requested to send a hard copy of their application to the **Deputy Director (Membership)**, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020. For further details, please visit our website at <https://www.ieindia.org/webui/iei-home.aspx>.

IEI Celebrates World Water Day



Theme - Glacier Preservation

The World Water Day was celebrated by the Institution all over the country on 22 March 2025. Reports of celebration received from various Centres are reported here.

STATE CENTRES

Kerala

Kerala State Centre, IEI celebrated World Water Day 2025 on 26 March 2025 at Thiruvananthapuram. The Keynote address was delivered by Er Ganesh R, Executive Engineer, Kerala Water Authority and currently serving as Deputy Superintending Engineer, Thrissur. In his insightful lecture, Er Ganesh highlighted the critical role of glacier preservation in sustaining freshwater resources and mitigating climate change impacts.



Meghalaya

Meghalaya State Centre, IEI celebrated World Water Day on 22 March 2025 at Shillong. Er Constantine Kharmudai, Chairman, Meghalaya State Centre, IEI, emphasized the significance of the occasion and highlighted the importance of tropical glaciers. He elaborated the urgent need to address the rapid disappearance of glaciers and its impact on freshwater availability. Er Sekhar Dey, Honorary Secretary, Meghalaya State Centre, IEI, appreciated the participation of members and reiterated the role of engineers in advocating for sustainable water management and glacier preservation.

LOCAL CENTRES

Brahmapur

Brahmapur Local Centre, IEI observed World Water Day on 22 March 2025 at Berhampur. Chief Guest of the session, Er L K Tripathy, Former Additional Chief Engineer, DOWR, Minor Irrigation, Odisha delivered an eloquent address highlighting glacier depletion as a critical global issue contributing to environmental imbalance. Er Bijay Mishra, Senior Academician graced the occasion as the Guest of Honour. Speakers of the session were; Dr (Er) Prabeer Kumar Dash, Past Chairman of the Centre and Consultant (ARCH); Dr (Er) Narayan Tiwadi, Assistant Professor, Environmental Science, Brahmapur University and Er Badri Narayan Tripathy, Former Superintending Engineer, DOWR, Minor Irrigation, Odisha enriched the session with their insights.

Nagpur

Nagpur Local Centre, IEI celebrated World Water Day on 29 March 2025 at Nagpur. On the occasion, the 5th Dr A G Bhole Memorial Lecture was delivered by Dr Valsson Varghese, Principal, KDK College of Engineering, Nagpur and Past Honorary Secretary, Nagpur Local Centre, IEI on the topic 'Glacier Preservation: Securing India's Water Future'. Dr Varghese explained the alarming rate of glacier melt, global water crises and their cascading impact on Indian river basins and population. He emphasized the need for urgent action against greenhouse gas emissions, pollution and climate change, sending a strong message on the importance of glacier preservation.



Ramagundam

Ramagundam Local Centre, IEI organized World Water Day on 22 March 2025 through online platform. Er B Brahma Reddy, 5G Expert and Former SDG, IEI & Immediate Past Chairman, Telangana State Centre, IEI graced the occasion as the Chief Guest. The Keynote address was delivered by Er G Kondala Rao, former Chief Engineer, Public Health Department, shared valuable insights on glacier preservation and its critical role in securing future water resources.

Tiruvallur



Tiruvallur Local Centre, IEI celebrated World Water Day on 22 March 2025 at Tiruvallur. Speaker of the session, Dr Sheik Syed Ishak, K A, Regional Head – Water Resources, South,

Bureau Veritas (India) Private Limited delivered a compelling lecture on water conservation and sustainable water management, drawing from his vast expertise in the field. The event underscored the importance of preserving water resources amidst rising challenges like climate change, pollution and scarcity. It successfully fostered awareness and encouraged innovative thinking for water sustainability.

Upgradation of Membership

Members of The Institution of Engineers (India) who meet the prescribed eligibility criteria are encouraged to apply for upgradation of their membership as follows:

Associate Members (AMIE) who fulfill the required experience and qualifications may apply for upgradation to the Member (MIE) or Fellow (FIE) grade, as applicable.

Members (MIE) who satisfy the requisite professional standing and contributions are invited to apply for elevation to the prestigious grade of Fellow (FIE).

For detailed eligibility criteria and application procedures, please contact:

Deputy Director (Membership)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700020
✉ dd.membership@ieindia.org

IEI Celebrates World Telecommunication and Information Society Day 2025

Theme: Gender Equality in Digital Transformation

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on 17 May 2025. Brief accounts of celebrations as received from various Centres are given hereunder.

STATE CENTRES

Andhra Pradesh

Andhra Pradesh State Centre, IEI, in collaboration with the Institution of Electronics and Telecommunication Engineers (IETE), Vijayawada Centre and the Board for Community Development through Education (BCDE), Government of Andhra Pradesh observed World Telecommunication and Information Society Day on 17 May 2025 through online mode. The event highlighted the importance of inclusive digital access for women and marginalized communities. Prof (Dr) M L S Deva Kumar, Chairman, Andhra Pradesh State Centre and Secretary & CEO, BCDE emphasized inclusive empowerment through technology. Chief Guest, Shri P Muralidhar, Scientist-F, DLRL, Hyderabad, delivered the Keynote address on ICT applications in defense and society, advocating secure, scalable and inclusive digital systems. Dr B Surya Prasada Rao, Honorary Chairman, IETE Vijayawada and Dr Shaik Riyazuddin, Honorary Secretary, IETE Vijayawada, underlined the need for equitable tech education.

Meghalaya

Meghalaya State Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Shillong. Er Ezekiel Lyngdoh, Past Chairman of the Centre, delivered an insightful address on the importance of gender equality in digital transformation, highlighting the gradual progress towards gender parity in internet access and usage. He underscored how inclusive digital participation is vital for equitable development in the information society.

Sikkim

Sikkim State Centre, IEI observed World Telecommunication and Information Society Day on 20 May 2025 through virtual mode. The Keynote address was delivered by Dr Kushal Pokhrel, Deputy Director, Centre for Distance and Online Education, Sikkim Manipal University, and Associate Professor, Department of Electronics and Communication Engineering, SMIT, SMU and Honorary Secretary, Sikkim State Centre on the topic 'Digital Innovation for Sustainable Development'. Dr Pokhrel presented an engaging talk on the evolution of telecommunication from traditional landlines to the current era of smart phones with 5G and emerging 6G technologies, highlighting how digital innovation is instrumental in achieving sustainability goals. The event witnessed enthusiastic participation from executive and general members of Sikkim State Centre, IEI reflecting a shared commitment to leveraging ICT for societal progress. Organized virtually to reflect the day's digital significance, the program concluded with a collective call to ensure equitable access to digital technologies for all sections of society.

Uttarakhand



Uttarakhand State Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Dehradun, emphasizing the crucial role of digital innovation in

sustainable development and bridging the digital divide. Er Narendra Kumar Yadav, Chairman, Uttarakhand State Centre, IEI in his address highlighted the day's significance in the modern technological landscape. Dr Drupda Srivastava, Senior SaaS Consultant, ROC-P LLC USA opened the session with remarks on the global importance of the occasion. Dr B L Semwal, Retd Military Engineer Services & Entrepreneur emphasized technology's transformative power. Er Pramod Aggarwal, Entrepreneur appreciated the student-led exhibitions and presentations, commending their innovation and social commitment. Er Ankit Negi, Entrepreneur reflected on both the advancements and challenges in the digital era. Col Naresh Goyal, Entrepreneur concluded the session by calling on stakeholders to search for inclusive and affordable digital solutions.

LOCAL CENTRES

Amravati



Amravati Local Centre, IEI celebrated World Telecommunication and Information Society Day on 16 May 2025 at Amravati. Keynote speaker, Er Vivek Wankhede, Deputy General Manager, BSNL

Amravati delivered a lecture on 'Enhance Equality in Our Society with AI in Communications' and elaborated on the transformative role of AI in healthcare, education and social equality, highlighting its applications in diagnostics, AI-assisted surgeries and personalized patient care, as well as bridging gaps in rural education and supporting inclusive learning. Dr Nitin Ingole, Chairman, IWWA, was also present on the dais.

Jamshedpur

Jamshedpur Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 through online mode and a webinar was organized on the theme. The Keynote presentation was delivered by Dr Shalini Kumari, Assistant Professor, RVSCET Engineering College, Jamshedpur. Her lecture highlighted the urgent need to bridge the gender digital divide, emphasizing that inclusive digital access is vital for education, economic empowerment and civic participation. The session, attended by number of participants including distinguished engineers and professionals from various institutions.

Nagpur



Nagpur Local Centre, IEI, in collaboration with The Institution of Electronics & Telecommunication Engineers (IETE), Nagpur Centre celebrated World Telecommunication & Information Society Day on

17 May 2025 at Nagpur. Chief Guest and Keynote Speaker, Dr PVS Shastry,

Secretary, MKSSS, Pune discussed barriers to gender parity in ICT and advocated for education and leadership in digital sectors. Guest of Honour, Ms Namratta Tiwari, ITS, Principal GM, BharatNet, BSNL, Nagpur, stressed inclusive digital policymaking and access for women in underserved areas.

Ramagundam

Ramagundam Local Centre, IEI organized World Telecommunication & Information Society Day on 24 May 2025 through online platform. Er B Brahma Reddy, 5G Expert & Former Secretary & Director General, IEI and Immediate Past Chairman, Telangana State Centre, IEI graced the event as Chief Patron. The Keynote lectures were delivered by Dr Madhavi Tatineni, Professor & HoD, Department of Electrical, Electronics and Communication Engineering Department GITAM University, Hyderabad and Dr S P Yadav, Professor & Dean, Academics and Head, Electronics and Communication Engineering Department, Guru Nanak Institutions, Hyderabad.

Silchar



Silchar Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Silchar. Er Debayan Bhattacharya, PhD Scholar, National Institute of Technology Silchar

highlighted global gender disparities in internet access, based on ITU data. The Keynote address was delivered by Dr Partha Pakray, Associate Professor, Department of Computer Science and Engineering, NIT Silchar, who presented thought-provoking insights using real-life examples to show how gender bias still persists across digital platforms and search engines. The event witnessed participation from corporate and non-corporate members, including journalists, former Chairmen and Honorary Secretaries and students.

Trichur



Trichur Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Trichur. Er Aparna N P, Junior Telecom Officer, BSNL, Thrissur spoke on the theme and emphasized bridging the digital divide among women and girls through access to education, economic opportunities, participation in decision-making, improved well-being and enhanced social mobility. Er Denni E D, Junior Telecom Officer, BSNL, Thrissur, spoke on 'From Connectivity to

Capability: BSNL's Role', detailing BSNL's contributions to technological empowerment in rural, tribal and marginalized communities and outlining future developments.

Chartered Engineer Certification

The Members who have not availed the Chartered Engineer Certificate [CEng(I)], are requested to apply online:

<https://www.ieindia.org/WebUI/iei-Memb.aspx#chartered-engineering>

IEI AWARDS

The Coal India Ltd (CIL) had instituted an Award to perpetuate the memory of **Late J G Kumaramangalam**, its first Chairman to be awarded every year during the Indian Engineering Congress to author/s of the articles adjudged best on a selected topic. The topic for the year 2025 is given below.

COAL INDIA (J G KUMARAMANGALAM MEMORIAL) AWARD

"Energy Efficiency"

The articles preferably restricting to 3000 words along with good quality photographs may be submitted along with a Declaration Form to award@ieindia.org within **October 30, 2025**.

The template of the paper and the Declaration Form are available under the following link: <https://shorturl.at/vGxdc>

Intending contributors are requested to send the soft copy of the paper by email to award@ieindia.org (with subject heading Paper for Coal Award) and submit four nos. printed copies of their articles to :

Deputy Director (Technical)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020

World Standards Day

14 October, 2025

Shared vision for a better world: Spotlight on SDG 17 - Partnerships for the Goals

International Standards are a cornerstone of global collaboration, ensuring interoperability, fostering trust, and accelerating multi-stakeholder cooperation to drive sustainable development.

This year, World Standards Day will explore how standards provide a shared framework that enables meaningful collaboration across industries, governments, and organizations to achieve common objectives.

The campaign will highlight concrete examples that demonstrate the power of partnership and the impact of working together through standards.

Know-Your-Member (KYM)

Is your mobile number & e-mail updated with us ? If not, then please forward your Know-Your-Member (KYM) form immediately.

You are requested to forward your KYM along with the self-attested copy of photo ID proof to the address given below:-

Deputy Director (Membership)

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

Email: datamemb@ieindia.org

The form is available on IEI
Website <https://shorturl.at/8Q5tF>
or scan the code:



Superannuation from IEI

Mr Nand Lal, an employee of the Himachal Pradesh State Centre was superannuated from the services of IEI on 30 September 2025. He joined the Institution on 16 September 2017 and rendered his services to the Institution over a period of 8 years.

IEI wishes Mr Nand Lal and his family a happy and healthy life in the future.



Corporate Air Ticketing for IEI Members

Corporate Members may book Corporate Air Ticket through M/s EBIX Travels Private Ltd. For details please visit

<https://www.ieindia.org/webui/IEI-AirTickets.html>

News-in-Brief

The following are brief accounts of Technical Activities organised by various Centres and Fora

STATE CENTRES

Andhra Pradesh

Organized the Er M Lingeswara Rao 14th Endowment Lecture on the topic 'AP Capital Amaravati – Aspirations of People' on 12 May 2025, honoring the legacy of Er M Lingeswara Rao, Past Chairman, Vijayawada Local Centre, IEI. The Keynote address was delivered by Dr K S S V V Prasad, CMD, Kreyatoo Solutions, who underscored the need for a smart, sustainable and citizen-driven Amaravati through digital tools, green planning and inclusive governance. The lecture outlined Amaravati's original vision, its setbacks and the growing public demand for transparent and inclusive development. The speaker explained the role of engineers, urban planners, policy makers and common citizens for a smart, sustainable and inclusive approach towards city building.

In association with the Board for Community Development through Education, Government of Andhra Pradesh, organized a virtual Technical Expert Session on urban water crisis, on 5 July 2025 bringing together engineers, academicians and officials from across the state. Prof (Dr) M L S Deva Kumar, Chairman, Andhra Pradesh State Centre, IEI, stressed the importance of collaborative, interdisciplinary efforts and the role of virtual platforms in knowledge exchange. Chief Guest, Er M Siva Prasad, Additional Commissioner, MGNREGS covered MGNREGS-led water resilience initiatives, rainwater harvesting, urban water auditing, grey water recycling, IoT and GIS-driven management systems and public awareness strategies, blending field experiences with policy frameworks. The session featured real-world case studies, interactive discussions and practical solutions for water-secure cities.

Observed the birth anniversary of the legendary civil engineer and statesman Padma Bhushan Dr K L Rao on 15 July 2025 at Vijaywada, honouring his monumental contributions to irrigation engineering and nation-building. The programme commenced with a floral tribute to Dr Rao's portrait by dignitaries, office bearers and members, followed by a documentary showcasing his achievements. Sri R Mohan Rao, Superintending Engineer, Irrigation Department, Vijayawada, highlighted Dr Rao's pioneering role in major irrigation projects like Nagarjuna Sagar and stressed the continued relevance of his vision for water resource management. Sri A V Gopala Krishna Rao, Rashtriya Adhyakshudu, Federation of Water Users Associations, reflected on how Dr Rao's reforms empowered grassroots water users and urged young engineers to uphold his ideals. Dr Venkata Sriram Chintamaneni, Immediate Past Chairman, Andhra Pradesh State Centre, IEI lauded Dr Rao's dual legacy as an engineer and Union Minister, inspiring the fraternity to pursue excellence and public service.

Arunachal Pradesh

In collaboration with NERIST, Arunachal Pradesh and Manipur Technical University, Manipur organized a highly insightful technical lecture on 'Artificial Intelligence and Machine Learning in Medical Applications' on 24 May 2025 at the ME Seminar Hall, NERIST. Prof M Chandrasekaran, Chairman, Arunachal Pradesh State Centre, IEI emphasized the transformative impact of AI/ML in improving diagnostics and healthcare accessibility. The Keynote speaker, Prof Swanirbhar Majumdar, Professor, Department of Information Technology, Tripura University, delivered a detailed presentation on the use of AI in medical imaging, diagnostics, early disease detection, wearable technologies and rural healthcare applications. Special Guest Er Chinmoy Debnath, Past President, IEI and President, Indian Buildings Congress, encouraged engineers to embrace AI for societal benefit, stating that 'AI's true success lies in how it empowers and saves lives'.

In collaboration with NERIST, Arunachal Pradesh and Manipur Technical University, Manipur organized a compelling technical lecture on 'Cybersecurity: The Need of the Hour' at the ME Seminar Hall, NERIST on 23 May 2025. The guest speaker, Dr H Saratchandra Sharma, Head, Department of Computer Science & Engineering, Manipur Technical University, delivered an insightful session covering critical cyber security issues, threats like ransomware and phishing and strategies including the CIA triad, cryptographic protocols and zero-trust architecture. Special Guest Er C Debnath, Past President, IEI and President, Indian Buildings Congress, New Delhi, inspired the audience by stressing ethical responsibility in technology use, stating, 'Technology must always serve humanity with integrity and foresight'. The lecture, which included case studies and an interactive Q&A, was live-streamed via Google Meet, enabling wider participation and sparking meaningful dialogue on safeguarding digital infrastructure.

Goa

In association with Goa College of Engineering, Civil Engineering Division Students Chapter, hosted the Truss Building Competition and AutoCAD Contest on 28 March 2025 at Goa. The event, part of a larger gathering provided a dynamic platform for practical skill development, fostering innovation, technical excellence and collaborative learning.

In collaboration with Goa College of Engineering (GEC) and the Indian Geotechnical Society (IGS), Goa Chapter, organized a distinguished lecture series on Geotechnical Engineering on 29 March 2025 at Goa. Dr Anil Joseph, President, IGS, delivered the first invited lecture on 'Sustainable Innovations in the Construction Industry', sharing eco-friendly practices for the sector. The Dr Narayan V Nayak Memorial Lecture was delivered by Prof Deepankar Choudhury, IIT-Bombay, on the topic 'Foundation Systems for Mega Structures under Static and Dynamic Loadings: Theory to Practice'. The Dr Victor de Mello Goa Lecture was delivered by Prof G L Sivakumar Babu, Indian Institute of Science, Bengaluru on 'Climate Resilient Design and Rehabilitation of Embankment Structures'.

Jharkhand

Organized a technical talk on 'Automation for Green Earth' on 10 March 2025 at MECON Limited, Ranchi, focusing on new innovations in automation aimed at reducing the carbon footprint. The presentation was delivered by Er B M Sen Gupta, Senior General Manager I/c, Instrumentation & Process Control, MECON Ltd who highlighted cutting-edge advancements in industrial automation and their critical role in minimizing energy consumption, reducing raw material wastage, improving compliance with product specifications and eliminating off-spec products. These innovations were presented as key contributors to optimizing processes and achieving sustainable industrial practices. The session emphasized how automation can lead the way in building a greener and more efficient future. Members of the Jharkhand State Centre, IEI actively participated and the event concluded with an engaging Q&A session and interactive discussion, leaving attendees with valuable insights into environmentally conscious automation strategies.

Organized a technical talk titled 'EIA for Nuclear Project' on 10 January 2025 at MECON Limited, Ranchi, focusing on the significance of Nuclear Power Plants (NPPs) and their role in power sector. Mr Aman Kumar, Assistant Manager Technical delivered a comprehensive presentation highlighting the strategic role of nuclear power in promoting sustainable development and reducing dependency on fossil fuels. Emphasis was laid on Pressurized Heavy Water Reactors (PHWRs) and their relevance in India's nuclear

energy landscape. The session offered critical insights into environmental impact assessments (EIA) for nuclear projects, making a strong case for nuclear power as a clean and sustainable energy source. Attendees from Jharkhand State Centre, IEI engaged in thoughtful discussions, making the event both informative and impactful in promoting energy awareness.

Karnataka

Organised the Prof B R Narayan Iyengar Memorial Lecture on 21 February 2025 in hybrid mode on the topic 'Cold Fusion – Heat & Energy for Next Century', delivered by Padma Shri Prof Dr Prahalada Ramarao, Former Distinguished Scientist-DRDO, Former Vice Chancellor, DIAT, Ministry of Defence and Co-founder, Hylenr Technologies, Hyderabad. Er M Nagaraj, Chairman, Karnataka State Centre, IEI welcomed the committee members and participants. Prof Dr Ramarao's presentation highlighted the limitations of conventional and renewable energy sources and introduced Low Energy Nuclear Reactions (LENR), popularly known as cold fusion, as a clean, sustainable and game-changing energy solution. The session included schematic diagrams, video demonstrations and interactive discussions with both online and offline attendees.

Observed National Science Day on 28 March 2025 at Bangalore. A lecture on 'Synergy between Science and Technology' was delivered by Prof K V Ramanathan, Former Professor & Former Chairman, NMR Research Centre, Former CSIR Emeritus Scientist, Bengaluru, Prof Ramanathan explained how scientific ideas often translate into transformative technologies, citing examples such as electricity, lasers, nuclear energy and radio communication and conversely, how technological advances fuel scientific breakthroughs. Earlier, Er M Nagaraj, Chairman, Karnataka State Centre, IEI, highlighted the integration of science and engineering in industry and daily life.

Celebrated International Women's Day on 22 April 2025 on the UN theme 'For All Women and Girls: Rights, Equality, Empowerment' at Bangalore. Chief Guest, Dr Mamatha B R, IAS (Retd), State Information Commissioner, KIC delivered an inspiring Keynote, highlighting women's crucial role in nation-building and the importance of equal opportunities. The event was graced by Dr Suma V, Vice Principal and Head, Department of Computer Science & Design, DSCE; Dr Poornima G R, Dean, Electronics & Communication, Sri Venkateshwara College of Engineering; Dr Thriveni J, Chairperson, Department of Computer Science & Engineering, UVCE; Dr T C Thanuja, Professor, Department of Electronics & Communication, VTU Muddenahalli Centre and Dr Nirmala Hiremath Program Coordinator, Department of Computer Science & Engineering, VTU Centre for PG Studies, Muddenahalli. Er M Nagaraj, Chairman, Karnataka State Centre, IEI in his address emphasized the need for continuous institutional support to build a gender-equitable professional environment.

Organised a hybrid lecture on 'Microporous Material for Storm Water Management & Noise Mitigation' on 07 July 2025 at Bangalore. The speaker was Dr K N Shivakumar, Professor, Mechanical Engineering, Director, Centre for Composite Material Research and Chief Technologist – ARIS, USA. Dr Shivakumar explained that microporous materials, with pores smaller than two nanometers, are highly effective in filtering and adsorbing pollutants in stormwater, thereby improving water quality.

Kerala

In collaboration with IEEE, INSARM, ASI, SSI, ISTD, SAME, IITArb, PMI and IETE organized a technical talk on 'Remaining Young – From Engineers' on 19 March 2025 at Tiruvananthapuram. The insightful session was delivered by Er Pradeep Kumar M, Management Systems & Business Excellence Consultant, Auditor and International Tutor who shared valuable perspectives on maintaining vitality and relevance in the engineering profession. The event successfully fostered intellectual engagement and highlighted the enduring spirit of engineers in contributing to society across generations.

Tamilnadu

Organized a grand felicitation program on 17 March 2025 to honor Dr V Narayanan, Secretary, Department of Space and Chairman, ISRO at Chennai. Dr V Karthikeyan, Chairman, Tamilnadu State Centre, IEI felicitated Dr V Narayanan. Padmabhushan Dr A Sivathanu Pillai, Founder CEO & MD, BrahMos Aerospace and Shri A Rajarajan, Director, SDSC SHAR also present on the occasion. Dr V Narayanan shared his inspiring journey from a diploma holder to Chairman of ISRO, highlighting key milestones like completing AMIE in 2.5 years, earning an MTech and PhD from IIT Kharagpur and 41 years of service at ISRO. He proudly cited India's space achievements, including Chandrayaan-3's Moon landing and 100th GSLV launch.

Telangana

Conducted the Er A P Ranganatha Swamy 28th Endowment Lecture on 27 July 2025 through virtual mode. The Keynote lecture on 'Problem of Construction and Demolishing Waste in Urban Areas' was delivered by Er C N Raghu Prasad, Additional Commissioner, GHMC and Special Officer, Nizampet Corporation, who addressed the key challenges and sustainable solutions for managing urban construction waste.

Tripura

Celebrated its 35th Foundation Day on 01 April 2025 with a series of events including a flag hoisting ceremony, a technical talk and a cultural programme. The evening session featured a Technical Talk on 'Insights of Artificial Intelligence - A User Perspective with Human Intelligence', delivered by Dr Suman Deb, Assistant Professor, Department of Computer Science & Engineering, NIT Agartala. Dr Deb elaborated on the contrasts between human cognition - shaped by emotion, experience and social context and AI's algorithm based decision making, highlighting the unique strengths of each. The interactive session engaged engineers, students and technology enthusiasts in a lively exchange of ideas. Er Paramananda Sarkar Banerjee, Chairman, Tripura State Centre, IEI emphasized the need for continuous learning in the fast-evolving technological landscape.

In collaboration with The ICFAI University Tripura, organized a seminar on 'IP and Music: Feel the Beat of IP' on 28 April 2025 at ICFAI University, Kamalghat, marking the observance of World Intellectual Property Day. Prof (Dr) Biplab Halder, Vice Chancellor, ICFAI University Tripura, graced the event as Chief Guest, emphasizing the role of intellectual property in empowering musical creativity across cultures. Er Harjeet Nath, Assistant Professor, Chemical and Polymer Engineering Department, Tripura University, delivered the keynote presentation, focusing on the impact of IPR in protecting musical innovations, including Indian patents on electronic tablas and hybrid instruments. Dr Divya Prakash Pathak, Assistant Professor, ICFAI University and IP expert, highlighted the legal framework of IP and its role in fostering innovation, economic growth and creator rights. Dr A Ranganath, Registrar, ICFAI University also addressed the gathering.

Uttar Pradesh

Organized a Technical Talk on 'Indian Space Program and Its Future' on 09 May 2025 at Lucknow. The Chief Guest, Er S K Pandey, Senior Scientist, ISTRAC/ISRO, delivered an enlightening address on India's rapidly evolving space program, highlighting key milestones such as Chandrayaan-3, Aditya-L1 and future initiatives including the Gaganyaan mission, India's own space station by 2035, Chandrayaan-4 and Shukrayaan-1. He emphasized ISRO's growing international collaborations and the rise of over 100 private Indian startups through the IN-SPACE initiative. The program drew large participation and stimulated engaging discussions on India's future in space exploration.

Organized a technical seminar on the topic 'Nuclear Energy for Peace and Development' on 22 July 2025 at Lucknow. Er Masarrat Noor Khan, Immediate Past Chairman, UP State Centre and Council Member, IEI shared

his insights on the theme. Keynote Speaker, Prof Usha Bajpai, former professor at Lucknow University, highlighted the status of nuclear power plants in India, generation capacity and future expansion plan. She elaborated the application of nuclear energy in medical, industrial, agricultural, water management and space sectors, emphasizing its potential to address the global energy crisis if applied safely.

LOCAL CENTRES

Aligarh

Organized a Technical Lecture on 'The Era of AI' on 15 February 2025 at Aligarh. Prof (Dr) Nadeem Khalil, Chairman, Aligarh Local Centre, IEI emphasized the growing significance of Artificial Intelligence in shaping the technological future. The lecture was delivered by Er Tariq Ahmed, Assistant Professor, Women's Polytechnic, AMU, Aligarh, who provided an insightful presentation on AI's applications, its transformative impact on industries and its influence on daily life, from smart assistants to healthcare advancements. The session was highly appreciated for its clarity and relevance. The program concluded with fostering interactive discussions among attendees on the potential and challenges of Artificial Intelligence.

Amravati

Organized a Career Guidance and Counselling Program on 29 April 2025 at Amravati, focusing on opportunities in Diploma and Graduation courses in Engineering and Architecture for students after 10th and 12th standards. Er Sunil Rathi, Chairman, Amravati Local Centre, IEI highlighted the student-centric activities of the Centre, including career-building workshops, training programs, scholarships for UG students and industry interaction opportunities. Keynote Speaker Architect Satish Deshmukh, Principal, P R Patil College of Architecture shared his personal journey, challenges faced due to lack of guidance and the vast career prospects in architecture. He further stressed the importance of providing comprehensive career information to students. Prof Piyush Joshi, Director, Fullor Academy explained the scope of architecture beyond construction, covering fields like design, planning, heritage conservation, urban development and education, while also elaborating on the National Education Policy (NEP). The program inspired participants to explore diverse and rewarding career paths in engineering and architecture.

Organized a Technical Visit to Suryalakshmi Cotton Mills, Ramtek, Nagpur on 15 June 2025, coordinated by Er Harish V Mohod, Immediate Past Honorary Secretary, Amravati Local Centre, IEI and General Manager of the plant. The visit included a detailed tour through various departments, including raw cotton segregation and cleaning, spinning, dyeing, weaving, singeing, finishing, denim fabric manufacturing and the Effluent Treatment Plant (ETP). Er Harish Mohod explained the ETP process, highlighting its role in removing pollutants, with 85% of treated water reused and 15% evaporated through MEE.

Organized a Technical Visit to the Shri Sant Sevalal Maharaj Mandir Project and Pohradevi Banjara Museum on 19 July 2025. Around 100 corporate members of Indian Water Works Association (IWWA) and Amravati Local Centre, IEI participated in the program. Inaugurated in 2022, the eight-storied museum showcases the Banjara community's rich heritage using AI technology, light and music systems and special effects. The architectural marvel features a unique Nagara-shaped exterior. The Nagara design posed significant engineering challenges due to its convex curvature and massive dimensions. The project stands as a symbol of cultural pride and engineering excellence, offering invaluable insights into large-scale, technically complex construction.

Dhanbad

In association with the EIACP Programme Centre (RP), Department of Environmental Science and Engineering, IIT ISM Dhanbad, organized a

lecture-cum-interaction session on 'Environmental Governance, Audits and ISO Norms: A Roadmap to Compliance and Excellence for a Sustainable Future' on 01 April 2025 at Dhanbad. Keynote speakers of the event were Ms Gargi Ghosh, Advisor and Mr Ishan Mehrotra, Manager Sustainability, The British Standards Institution (BSI) India. Ms Ghosh elaborated on BSI's role in global sustainability and the importance of ISO standards, while Mr Mehrotra discussed the global risk landscape, responsible business practices and India's Panchamrit Action Plan.

Ghaziabad

Organized a captivating technical lecture on the topic 'Origami Applications in Engineering' at Ghaziabad on 15 April 2025. The session featured Mr Krishna Kumar Dixit, Former Deputy Commissioner and Renowned Origami Scholar, as Guest Speaker and was convened by Wg Cdr B K Yadav, Executive Committee Member, Ghaziabad Local Centre, IEI. Prof S C Gupta, Chairman, Ghaziabad Local Centre, IEI in his address, expressed the relevance of origami in modern engineering solutions. Guest speaker, Mr Dixit explained the origins and evolution of origami, demonstrating how paper-folding techniques can be ingeniously applied in engineering, geometry and practical problem-solving. His live demonstrations of paper models illustrating geometrical theorems drew keen interest and admiration from the audience. The session was interactive, with the speaker responding to several insightful queries.

Jamshedpur

Organized a webinar on 'Online Health Monitoring of Belt Scrappers' on 22 April 2025, at Jamshedpur. Resource person of the session, Mr Kaushik Kumar Shaw, Sr Manager, Mechanical Maintenance - WRM, introduced the theme and elaborated on the critical role of conveyor belts in transporting iron-bearing materials and additives for continuous hot metal production, emphasizing the function of belt scrapers in removing residual material to reduce breakdowns, lower operational costs and boost productivity. The event drew active participation from students, teachers, technical professionals and IEI members, fostering knowledge exchange on maintenance best practices.

Organized a webinar on 'Impact of Service Factor in Mill Stand Gearboxes Reliability' on 16 May 2025, with 32 participants from academia, industry and IEI members. Mr T Thirumurugan, Principal Technologist, Mechanical Power Transmission, Tata Steel, introduced the theme and presented a detailed analysis of mill stand drive gearbox failures in the New Bar Mill over the past five years, identifying low service factors - below AGMA standards - as a major cause.

Kakinada

In association with JNTU Kakinada and the Retired Irrigation Engineers Association, Kakinada, organised a Seminar on 15 May 2025 to commemorate the 222nd Birth Anniversary of General Sir Arthur Thomas Cotton, renowned as the 'Delta Architect' of the Godavari District. Prof Ch S R K Prasad, Hon'ble Vice Chancellor, JNTUK, graced the occasion as Chief Guest and delivered an enlightening lecture on Cotton's life and engineering legacy. The address covered Cotton's visionary ideas of river interlinking, drought-relief measures for Odisha and port development at Visakhapatnam. Prof Prasad noted that Cotton's engineering brilliance, commitment to public welfare and far-reaching proposals for water resource management remain an inspiration for present-day civil engineers. The seminar concluded with tributes to Cotton's enduring contributions, acknowledging his role in shaping irrigation infrastructure and agricultural prosperity in South India.

Kancheepuram

Organised a five day Online Staff Research Workshop on 'AI in Healthcare' from 19 to 23 May 2025, aimed at equipping faculty members with in-depth knowledge of Artificial Intelligence applications, advancements and research opportunities in the healthcare sector. Mrs S M Keerthana, Assistant Professor, St Joseph's Institute of Technology, Chennai spoke on AI tools in healthcare, covering platforms like Tensor Flow, PyTorch and IBM Watson Health. Dr D Menaga, Associate Professor, St Joseph's Institute of Technology, elaborated on AI in medical imaging using CNNs for segmentation, classification and anomaly detection. Dr B Lakshmi, Senior Research Scientist, Karyon Bio, discussed on predictive analytics for clinical challenges. Dr B Dhanalakshmi, Associate Professor, BSA Crescent University, discussed NLP in healthcare, introducing advanced techniques like BioBERT. Dr S Sabena, Assistant Professor (SI Grade), Anna University, Regional Centre, Tirunelveli explained AI in IoT healthcare devices for real time monitoring and personalized care. The workshop successfully fostered interdisciplinary collaboration, practical learning and ethical AI application in healthcare.

Kanpur

In collaboration with the All India Valuers Association (AIVA), Kanpur, organized a technical lecture on 'Cold Storage Energy Saving Strategies' on 03 May 2025 through online mode. Shri Anjaneesh Pratap Singh, Deputy Commissioner (Industries), Government of Uttar Pradesh graced the occasion as the Chief Guest, while Dr Ajit K N Shukla, Director, SHEAT College of Engineering, Varanasi was the Guest Speaker. Dr Shukla, in his address highlighted advanced refrigeration technologies, thermal energy storage and smart IoT monitoring as the keys to optimizing energy use in cold storage.

Organised a lecture on 'Transforming Electrical Engineering with AI and Machine Learning: From Smart Grids to Intelligent Machines' on 18 July 2025 at Kanpur. Guest Speaker, Er Ashish Gupta, Associate Professor, Department of Electronics Engineering, Maharana Pratap Engineering College, Kanpur, highlighted the role of AI and ML in revolutionising electrical engineering from enabling self-healing and adaptive smart grids to predictive analytics for transformer health monitoring, fault detection and voltage stability. He shared real-world examples such as India's Smart Grid Mission and AI-enabled drone inspections, emphasising efficiency gains, cost savings and enhanced safety.

Kozhikode

Organized a technical presentation on 15 July 2025 at Calicut, featuring an expert lecture by Er Surendranathan K, Former Chief Engineer (Marine Engineering) on the topic 'Future of Marine Engineering: Trends and Predictions'. The presentation covered a comprehensive range of topics including the history and core areas of marine engineering, ship propulsion systems, diesel engines, marine power plants, green marine technologies, IMO goals, smart ships, AI and data analytics, and cyber security challenges. The lecture was highly informative, providing valuable insights into emerging technologies and future outlooks in marine engineering, followed by an engaging interactive discussion.

Ludhiana

Organized an expert session on 'Road Safety and Traffic Management' on 14 July 2025 through online mode. The session featured Ar Vivek Sehgal, Faculty, GNDEC School of Architecture, Ludhiana as the expert speaker. In his presentation, Ar Vivek Sehgal elaborated on key aspects of road safety and traffic control, emphasizing the role of effective urban planning and infrastructure in reducing accidents. The session was informative and well-received by the participants for its practical relevance and clarity.

Munirabad

Observed Women's Day on 18 March 2025, at Munirabad with the theme focusing on 'Glacier Preservation' on 18 March 2025. Chief Guest Smt Malavika, HR Manager, SKMEPL, Sandur, stressed that education is the key to women's empowerment, enabling economic independence and social equality and encouraged young women to actively contribute to society. Dr B Ravi, Director, VSKU PG Centre, emphasized the transformative role of higher education in shaping future leaders. Guest of Honour, Dr Chowdappa V A, Co-ordinator, Department of Economics and NSS, outlined the history of International Women's Day.

Nagpur

In collaboration with the Association of Consulting Civil Engineers (India), Nagpur Centre, organized an insightful expert talk on 'Blast and Ballistic Loading on Structures' on 21 February 2025 at Nagpur. The expert session was delivered by Dr Manmohan Dass Goel, Associate Professor, Department of Applied Mechanics, Visvesvaraya National Institute of Technology Nagpur who shared in-depth knowledge on the structural impacts of blast and ballistic forces, emphasizing practical resilience and his valuable contributions to the BIS Code on Blast. The engaging talk attracted number of engineers and professionals, who gained critical insights into this advanced engineering domain. and was graciously supported by UltraTech Cement Limited.

Organized the Er A B Kottewar Memorial Lecture on 08 February 2025 in the esteemed presence of Er V B Singh, President, IEI. The Keynote address on the topic 'Engineering and Future of Work in AI Ambience' was delivered by Er Shailesh Awale, Associate Vice President, HCL Tech, Nagpur, who highlighted the transformative role of Information Technology and Artificial Intelligence in the modern work environment, its irreplaceable value across sectors and the challenges and opportunities it presents.

In association with the Department of Electronics & Telecommunication Engineering, K D K College of Engineering, Nagpur, IETE and SSIT Private Limited, successfully organized a Faculty Development Program on 'IoT Enabled Sensor Technology for Research and Industry 5.0' from 30 December 2024 to 04 January 2025 at K D K College, Nagpur. Dr Rajeshree Raut, Associate Professor, GCOE, Nagpur graced the event as the Chief Guest and Keynote Speaker, who elaborated on smart sensor integration in cognitive radio systems. Other dignitaries included Dr A M Badar, Vice Principal, KDKCE; Dr V P Varghese, Principal, KDKCE; Dr P D Khandait, Convener & HoD, E&T Engg and Dr J S Gawai, Co-Coordinator, KDKCE. Technical sessions featured Dr B Sureshkumar, Associate & Faculty, Institute of Advanced Research, Andhinagar, Gujarat; Dr Pradnya Ghare, Associate Professor, Government College of Engineering, Nagpur; Dr Mayur Parate, Assistant Professor, IIIT Nagpur; Mr Shoab Rajz, Senior Software Developer & AI Engineer, SSIT Private Limited, Nagpur and Mr Santosh Selokar, Director, SSIT Private Limited, Nagpur who addressed diverse IoT and sensor applications. A hands-on session on IoT integration concluded the FDP. The well-received program empowered faculty and researchers with cutting-edge insights into IoT and Industry 5.0 technologies.

Ramagundam

In association with the Telangana State Centre, IEI organized the Er V Subba Rao 8th Endowment Lecture on 26 January 2025 through virtual mode. Dr B Naga Malleswara Rao, Professor & Head, Department of Civil Engineering and Associate Dean, CVR College of Engineering, delivered the Keynote lecture on 'Predicting the Droughts using Artificial Neural Networks – A Case Study', offering valuable insights into the application of AI in environmental forecasting. while Er P Appa Rao, Chairman, Ramagundam Local Centre, IEI addressed The session was presided over by Er B Brahma Reddy, Immediate Past Chairman, Telangana State Centre, IEI who welcomed the participants. Er Marri Ramesh, Joint Honorary Secretary, Telangana State Centre, IEI, introduced the gathering.

Organized a webinar on 10 January 2025 on the topic 'Geotechnical Aspects of Mine Tailings: Improving Stability and Safety'. The Keynote lecture was delivered by Dr P Raja Sekher, Associate Professor, Mastrusri Engineering College, Hyderabad who provided in-depth insights into the geotechnical challenges and solutions associated with mine tailings, focusing on enhancing structural stability and ensuring environmental safety. The webinar proved to be an engaging and informative platform for knowledge-sharing among professionals from geotechnical and mining engineering backgrounds.

In association with IEI Student Chapter, Jyothishmathi Engineering College, Ramagundam organized the Intercollegiate Robotic Competition – Circuit Clash 2025 on 25 June 2025 at Ramagundam. The event served as a dynamic platform for students to showcase their innovation, technical skills and creativity in the field of robotics. Er P Appa Rao, Chairman, Ramagundam Local Centre, IEI emphasized the importance of hands-on experience and innovation in shaping future engineers.

Organized a webinar on 20 January 2025 on the topic "Role of Technology in 5G in Mining Industry". The Keynote address was delivered by Er B Brahma Reddy, 5G Expert & Former Secretary & Director General, IEI and Immediate Past Chairman, Telangana State Centre, IEI who elaborated on the transformative role of 5G technology in enhancing efficiency, automation and safety in mining operations. The session highlighted the potential of 5G in revolutionizing mining with real-time monitoring, remote control and improved connectivity. The session proved to be highly informative and beneficial, offering participants valuable insights into cutting-edge technological applications in the mining sector.

Ranipet

Organized a technical lecture on 'Challenges in Effective Lignite Mining, with Integrated Water Management & Restoration of Ecosystem' on 11 July 2025 at Ranipet. The expert lecture was delivered by Shri K Manimaran, Advisor, NLCIL and former General Manager, Geology, who provided a comprehensive overview of geology, hydrogeology, mineral exploration and challenges in lignite mining. He highlighted the innovative 'Waste to Wealth' approach, particularly the production of M-sand from overburden dump material, supported by relevant case studies and practical insights. The session was interactive, concluding with a Q&A session that addressed the queries of participating members.

Silchar

Celebrated its 36th Foundation Day on 28 January 2025 at Silchar. Er Subhash Chandra Choudhury, delivered a compelling lecture on 'Indian Strength – Its Missile Power', highlighting BrahMos and future missile developments. The talk was well-received, especially by NIT Silchar students and research scholars.

Sunabeda

Observed National Technology Day 2025 on 11 May 2025 at Sunabeda on the topic 'YANTRA – Yugantar for Advancing New Technology, Research & Acceleration'. Er Ranjit Kumar Sahu, Manager Quality Control, HAL Sunabeda, served as the Chief Speaker and highlighted India's scientific legacy and modern innovations across sectors such as IT, biotechnology, robotics, healthcare and space science. Er Manoj Kumar Pattnaik, Manager, Tooling, HAL Sunabeda, delivered the concluding remarks, appreciating the active participation and valuable insights shared during the event.

Tiruchirappalli

Celebrated International Women's Day 2025 on 17 March 2025 at Tiruchirappalli. Chief Guest, of the session was Mrs Leema Peter, Psychologist and Student Counsellor and Member of the Juvenile Justice Board, Perambalur. The session focused on empowering women professionals and acknowledging their pivotal roles in engineering and society.

In association with the Safety and Quality Forum, IEI, and the Indian Institute of Welding, Tiruchirappalli Branch, organized an online technical lecture on the topic 'Karakuri Kaizen – A Neglected Source of Productivity' on 08 July 2025 through online mode. The Keynote speaker, Dr N Vivek, Professor of Practice – Operations, Great Lakes Institute of Management, Manamai, Chennai presented a thought-provoking lecture highlighting the traditional Japanese method of Karakuri Kaizen, emphasizing its role in enhancing productivity through simple, low-cost automation techniques. Er Kannan Rahavan, TQM Consultant, Visiting Faculty and National & International Jury for ICQCC, Tiruchirappalli, introduced the speaker and also delivered the concluding remarks, appreciating the depth of the presentation and the active participation. Number of engineers, academicians and professionals, attended the session and benefited from the unique insights into productivity improvement strategies rooted in traditional wisdom and lean principles.

In association with the Indian Institute of Welding, Tiruchirappalli Branch, organized a technical lecture on the topic 'Changes in Latest Edition of ASME Section IX' on 15 July 2025 through online mode. The Keynote speaker, Er Ritesh Kumar, Deputy Manager, Methods – Welding, Advanced Technology Products, Bharat Heavy Electricals Limited, Tiruchirappalli, presented an insightful and detailed lecture covering the updates in the ASME Section IX code, highlighting their significance and practical implications for welding professionals. The programme witnessed participation of industry professionals, academicians and students, who gained valuable knowledge on the latest developments in welding codes and standards.

Tiruvallur

Organized its 44th Technical Lecture on the theme 'Current Scenario of Precast Construction in India' on 28 April 2025 at Tiruvallur. The event featured Mr R Manoharan, Technical Director, VME Precast Products as the Keynote speaker. Drawing from his extensive experience in precast technology, Mr Manoharan delivered an insightful lecture highlighting the advantages of precast construction such as enhanced speed, cost-effectiveness, improved quality control and reduced environmental impact. The session targeted civil engineering students, faculty, construction professionals, architects, and researchers keen on sustainable and modular infrastructure. With number of participants in attendance, the session sparked meaningful discussions on the practical applications and innovations in precast construction. The program concluded with a vote of thanks extended to the speaker and all attendees for their enthusiastic participation, acknowledging their commitment to advancing knowledge in modern construction technologies and their role in shaping India's infrastructure development.

Trichur

Organized an invited lecture on 'Ergonomics and Safety' on 26 April 2025 in hybrid mode. Dr Thomas John V Chairman, Trichur Local Centre, IEI, emphasized real-world safety lapses due to poor ergonomic design and highlighting how improved ergonomics in vehicles has fostered gender inclusivity in mobility. Dr Francis J Emmatty, Assistant Professor, Government Engineering College, Kozhikode was the Chief Speaker and presented the core principles of ergonomics and their impact on workplace efficiency and safety. He also showcased patented devices for waste management, such as tools for picking up rags and bottles and a waste segregation system.

Udaipur

Organized a technical Visit on 29 March 2025 at the Zonal Railway Training School, Udaipur with the objective to understand railway operations, infrastructure and cultural heritage. During the visit, the senior railway officials provided detailed insights into modern training methodologies, signalling systems, locomotive maintenance and safety protocols, highlighting the school's pivotal role in preparing skilled professionals for the sector. Interactive sessions and demonstrations enriched engineers' knowledge of railway functioning and its role in national development.

Organized a technical visit to the Indian Space Research Organisation (ISRO), Ahmedabad, on 02 May 2025 to provide its members with a comprehensive understanding of ISRO's cutting-edge projects and

facilities. The visit featured interactions with Dr Nilesh Desai, Director, Space Applications Centre (SAC), ISRO; Dr Harish Seth, Head, SCD, EOSDIG and Er Dinesh Agarwal, Head, SAC. Dr Desai addressed the delegates on India's strides in space exploration and shared insights on upcoming missions. The engineers toured advanced facilities including the Antenna Testing Facility, High Resolution Optical Sensor Lab, Lithography Lab and more, gaining first-hand exposure to innovations in satellite communication, meteorology, remote sensing and navigation. ISRO scientists also presented on key developments such as the Gaganyaan mission and interplanetary exploration. The visit fostered technical discussions, idea exchange and collaborative spirit, underscoring IEI's commitment to professional development.

Vadodara

Organized a webinar on 'WARS: Then and Now' on 23 July 2025. Panelist, Er Niraj Anilbhai Shah, Honorary Secretary, Gujarat State Centre, IEI delivered a Keynote on 'Artificial Intelligence in Engineering: Purpose, Power, and Precision'. He emphasized the synergy between AI and human intelligence, the transformative role of AR/VR in simulation, design and training and the potential of 3D printing for rapid innovation. The webinar was marked by active interaction, knowledge sharing and a forward-looking approach to modern engineering challenges.

Vallabh Vidyanagar

Organized 'Regional Language Promotion Day' on 22 February 2025 to highlight the importance of regional languages in professional, academic and cultural contexts. Dr Arti Pamnani, Chairman and Er Amitkumar Dipakbhai Raval, Honorary Secretary, Vallabh Vidyanagar Local Centre, IEI emphasized the role of regional languages in identity building, communication and knowledge dissemination. The Keynote session was delivered by Dr Nayankumar M Patel, an eminent scholar in Gujarati literature, who spoke on the contribution of regional languages to education, administration and literature, underscoring their significance in preserving cultural heritage and fostering intellectual growth. His address sparked engaging discussions and an interactive Q&A session where participants shared personal experiences and perspectives on promoting linguistic diversity. The program was a resounding success, inspiring participants to actively preserve and promote their regional languages in both personal and professional spheres.

Varanasi

Organized a Technical Paper Meeting on 05 March 2025 at Varanasi. The invited speaker, Dr Kumar Rohit, Joint Faculty (Assistant Professor), Department of Industrial and Production Engineering and Department

of Management Studies, SGSITS Indore delivered an insightful lecture on 'Insights into the Digitized Platform of Product Analytics towards Sustainable Operations', emphasizing the role of analytics in optimizing industrial processes for sustainability. A large number of faculty members and students attended the event and benefitted from the expert insights shared. The event successfully highlighted the importance of digital tools in advancing sustainable industrial operations.

Visakhapatnam

Organized a technical session on 15 July 2025 at Visakhapatnam, to commemorate the 124th Birth Anniversary of eminent civil engineer, statesman and visionary Dr K L Rao. The event, featured a lecture by Dr I Satyanarayana Raju, Council Member, IEI. Dr Raju highlighted Dr Rao's unparalleled contributions to India's water resources sector, focusing on the Polavaram-Banakacherla Link Project (PBLP), which reflects his vision of interlinking rivers to combat droughts and floods. The PBLP aims to transfer surplus Godavari River water to the Penna Basin via the Krishna River, addressing critical water needs in Rayalaseema and coastal Andhra Pradesh. Dr Raju emphasized the project's role in ensuring sustainable and equitable water distribution, echoing Dr Rao's foresight in integrated water management. The session concluded with collective acknowledgment of Dr Rao's enduring legacy and the importance of technically sound, visionary solutions for India's water security.

FORUM

Rural Development Forum

In collaboration with Dola Basu Foundation, STHF, Behala Sathee Foundation, WIST (Drinkwell India) and Kishalaya Taruntirtha School, Gazna, Gaighata organized an impactful Awareness Programme on 'Arsenic Mitigation at Gazna, Gaighata Block' on 06 July 2025 at Kishalaya Taruntirtha School, Gazna, Gobordanga. The programme was inaugurated by Prof (Dr) Raju Basak, Chairman, RDF, IEI, who emphasized the urgency of addressing arsenic contamination through awareness and technology. The event witnessed active participation of around 80 attendees, including local residents, Gram Pradhan, experts, media and social organizations. Technical deliberations were led by experts including Dr Sailen Bhowmick, Rotarian & CEO, Adir Group; Dr Kabita Maity, Sathee Foundation; Dr U B Adhikary, Retd PTO, CGCRI and Mr Tilak Basu, Director, Dola Basu Foundation. The speakers discussed health impacts, removal technologies like ceramic membranes and the NDWM's role. A guided tour of the Water ATM plant highlighted ongoing mitigation efforts.

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For booking, Please write to:

Deputy Director (Technical)

The Institution of Engineers (India), 8 Gokhale Road, Kolkata - 700020

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Notification for

R&D Grant-in-Aid

To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/PhD courses, The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Like every year, the Institution invites applications for the session 2025-26 for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions/Colleges/Universities. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IEI. Membership criteria for student investigator(s), guide(s) and Institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership	Quantum of Grant (INR)
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory	Not exceeding ₹15,000/- for a single project
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The soft copy of the duly filled-up applications (in editable format), as per the pro-forma available in our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same should reach the following address:

Deputy Director (Technical)

The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020

Applications received in format other than that available on our website will not be accepted. Application should be forwarded through the Guide, Head of the Department or Head of the Institution. Please note that preference will be given to project proposals received from Institutions who are Members of The Institution of Engineers (India) and with NBA / NAAC Accreditation. Kindly go through the guidelines ([visit link https://shorturl.at/BiAOQ](https://shorturl.at/BiAOQ)) carefully before filling up the application.

The grant is not intended for the faculty members / working individuals who have access to other avenues of research funding. Proposals received will be scrutinized and the recipients of R&D Grant will be informed accordingly.



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Continuing Professional Development Programmes (CPDPs) for the Month of October 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	Waste to Resources in Mining	06 - 07 Oct, 25
2.	Industry 5.0 Initiatives for Sustainable development	06 - 08 Oct, 25
3.	Hydrological Observations, Data Collection and Formulation of Flood Forecasting	06 - 08 Oct, 25
4.	Energy Transition including Climate Change and Sustainable Development	07 - 09 Oct, 25
5.	Robotics and Digitalization in Manufacturing	06 - 09 Oct, 25
6.	High Speed Machines – Operational problems and Remedial Measures	07 – 09 Oct, 25
7.	Integrated Urban Planning using GIS tools-Hands on Training	07 - 10 Oct, 25
8.	Best Practices in O&M of Coal & Ash Handling Plants	07 - 10 Oct, 25
9.	RE Technologies	13 - 15 Oct, 25
10.	Procurement Rules for Goods & Services including Gem Portal & GFR 2017 Guideline	13 - 15 Oct, 25
11.	Measures to Mitigate Social Impacts of Mining Projects - Social Impact Assessment, Land Acquisition, Rehabilitation & Resettlement, Pollution Control Measures, Water and Soil Management, Controlled Blasting, Skill Development of Affected Persons	13 - 15 Oct, 25
12.	Energy Portfolio Management & Power System Operation Management	14 - 16 Oct, 25
13.	Communication and Presentation Skills	14 - 16 Oct, 25
14.	Power Cables Selection, testing, Laying and Commissioning	14 - 16 Oct, 25
15.	Cyber Security in Power Sector	15 - 17 Oct, 25
16.	Advanced Waterproofing Technologies	13 - 17 Oct, 25
17.	Network Administration: Configuring & Securing LANs and WANs	13 - 17 Oct, 25
18.	Urban Flood Management: Adaptive Strategies for Climate Resilience	15 - 17 Oct, 25
19.	Environmental Auditing: Accountability for Sustainability	17 - 19 Oct, 25
20.	Energy Portfolio Management & Power System Operation Management	22 - 24 Oct, 25
21.	ESG and BRSR Environmental Social Governance and Business Responsibility and Sustainability Reporting.	22 - 24 Oct, 25
22.	Policy and Regulatory Aspects of Electricity Distribution	27 - 29 Oct, 25
23.	Hydro Dynamic Analysis using MIKE including Dam Break Analysis	27 - 29 Oct, 25
24.	RE Technologies	28 - 30 Oct, 25
25.	Maintenance and Troubleshooting of Hydraulics and Pneumatic Systems	27 - 30 Oct, 25
26.	Laboratory Management System Awareness & Internal Auditing (As per ISO/IEC 17025:2017 & NABL Requirements)	27 - 30 Oct, 25
27.	Maintenance and Lubrication of Rotating Equipment	28 - 30 Oct, 25
28.	Cyber Security in Power Sector	29 - 31 Oct, 25
29.	Implementation of National Education Policy 2020 in Higher Educational Institutions	29 - 31 Oct, 25
30.	Pumps Operation, Maintenance and Performance Monitoring for Power Plant Applications	29 - 31 Oct, 25

For detail information please contact:

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IEI DIARY



Agricultural Engineering Division

All India Seminar on **"The Role of Advanced Machinery in Postharvest Management from Farm to Market Efficiency"**

Coimbatore, November 06-07, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

All India Seminar on **"Watershed Development and Management Programmes: Monitoring and Evaluation"**

Ahilyanagar, January 8-9, 2026

The Honorary Secretary, IEI, Ahilyanagar, Abhyantha Bhavan, Survey No. 243, Behind Haral Hospital, Kalyan Road, Ahilyanagar 414001 [☎:0241-2323359, Email: ahmednagarlc@ieindia.org]

Aerospace Engineering Division

One Day Seminar on **"Living in Space"**

Kattankulathur, October 08, 2025

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [☎: 044-2745 2270]

All India Seminar on **"Priority of Safety Culture in Aviation Industry"**

Gwalior, October 24-25 2025

The Honorary Secretary, IEI, Gwalior Local Centre, Green Park, Engineer Road, Behind New Collectorate, City Centre, Gwalior 474011 [☎:0751-2454168, E-mail: gwaliorlc@ieindia.org]

Thirty-eight National Convention of Aerospace Engineers on **"Advancing AI in Aerospace Industries"**

Salem, November 06-07, 2025

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: 0427-2332544, E-mail: salemc@ieindia.org, Website: www.ieisl.com]

International Conference on **"Sustainable Aerospace Technologies"**

Bhopal, February 26-27, 2026

The Honorary Secretary, IEI, Madhya Pradesh State Centre, Dr M Visvesvaraya Marg, PO: Habibganj, Bhopal 462024 (M. P.), [☎: 0755-2474572, E-mail:mpsc@ieindia.org, Website: www.mpsc.ieibhopal.in]

Architecture Engineering Division

Fortieth National Convention of Architectural Engineers on **"Towards Sustainable Cities -Strategies and Technologies"**

Kochi, October 09-10, 2025

The Honorary Secretary, IEI, Kochi Local Centre, IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kloor, Kochi 682017 [☎: 0484-2403838 / 2403993, E-mail: kochilc@ieindia.org; Website: www.ieikochi.org]

Chemical Engineering Division

One Day Workshop on **"Plasma Gasification for Conversion of Municipal Solid Waste to Syngas"**

Tiruchirappalli, November 05, 2025

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirappalllc@ieindia.org]

Fortieth National Convention of Chemical Engineers on **"Green Energy Technology and AI Enabled Sustainable Chemical Process"**

Visakhapatnam, November 14-15, 2025

The Honorary Secretary, IEI, Visakhapatnam Local Centre, 43-18-22, "Visvesvaraya Bhavan", Venkatarajunagar, Railway Station Road, Visakhapatnam [☎: 0891-2947460, E-mail: visakhapatnamlc@ieindia.org;ieivisakha@gmail.com, Website: www.ieivisakha.org]

Civil Engineering Division

All India Seminar on **"Forensic in Civil Engineering"**

Nagpur, October 10-11, 2025

The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010 [☎: 0712-2525617, E-mail: nagpurlc@ieindia.org, Website: ieinagpur.net]

One Day Seminar on **"Urban Flood Management Strategies For Resilient Cities"**

Coimbatore, October 11, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

All India Seminar on **"Advanced Civil Engineering Practices for Sustainable Infrastructure Development ACED2025"**

Lucknow, November 28-29, 2025

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [☎: 0522-3512499, E-mail: upsc@ieindia.org, Website: www.ieiup.org.in]

One Day Seminar on **"Strategies for Reducing Carbon Footprint in Construction Industry"**

Faridabad, January 28, 2026

The Honorary Secretary, IEI, Faridabad Local Centre, 2nd Floor, Bank Building, J C Bose University of Science and Technology (YMCA), Sector 6, Faridabad 121006, [☎: 01292245008, E-mail: faridabadlc@ieindia.org, Websites : www.ieifbdlc.in]

Computer Engineering Division

One Day Seminar on **"Green Computing And Sustainable AI"**

Kanchepuram, October 08, 2025

The Honorary Secretary, IEI, Kanchepuram Local Centre, IEI, Jerusalem College of Engineering Campus, Velachery Main Road, Narayanapuram, Pallikaranai, Chennai 600100 [Mobile: 9789924739, Whatsapp No. 8870531609, E-mail:

kanchepuramlc@ieindia.org, Website: www.ieindia.org]

All India Workshop on **"Nextgen Healthcare Quantum Enhanced Generative AI for Smart and Sustainable Systems"**

Tiruchirappalli, October 24-25, 2025

The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirappalllc@ieindia.org]

International Conference on **"Business Intelligence and Data Analytics"**

Jaipur, October 25-26, 2025

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, [☎: (0141) 2706327, E-mail:rajasthansc@ieindia.org]

Thirty-eight National Convention of Computer Engineers on **"Quantum Computing for Nextgen Digital Transformation Bridging Innovation with Intelligence"**

Salem, October 27-28, 2025

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [Ph: 0427-2332544, E-mail: salemc@ieindia.org, Website: www.ieisl.com]

One Day Seminar on **"Application of IoT for Pollution Monitoring"**

Durgapur, November 01, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B Zone, Durgapur 713 205 [Fax: 0343-2564770, Email: durgapurlc@ieindia.org, Website: http://www.ieidurgapurlc.org]

All India Seminar on **"Artificial Intelligence Design Thinking and Innovation"**

Agartala, January 16-17, 2026

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Gurkhabasti, PO: Kunjaban, Agartala, West Tripura 799006 [☎: 0381-2304700, Mobile: 9774129593; Email: tripurasc@ieindia.org; ieitripura@gmail.com, Web: www.ieitripura.org]

Electrical Engineering Division

One Day Workshop on **"AI in Electric Vehicles EVs"**

Kadapa, October 27, 2025

The Honorary Secretary, IEI, Kadapa Local Centre, A.P.H.B Colony, Kadapa 516004 [☎: 08562-245808, E-mail: kadapalc@ieindia.org, Website: www.ieikadapa.org]

Fortieth National Convention of Electrical Engineers on **"Influence of Artificial Intelligence on Modern Trends in Electricity Generation, Transmission & Distribution"**

Thiruvananthapuram, October 15-16, 2025

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033, [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

One Day Seminar on **"Recent Trends on Sustainable Energy Development"**

Agartala, November 01, 2025

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Gurkhabasti, PO: Kunjaban, Agartala, West Tripura 799006 [☎: 0381-2304700,

Mobile: 9774129593; Email: tripurasc@ieindia.org; ieitripura@gmail.com, Web: www.ieitripura.org]

One Day Seminar on "Application of Gen-AI in Engineering Technology"

Durgapur, November 04, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B Zone, Durgapur 713 205 [Fax: 0343-2564770, Email: durgapurlc@ieindia.org, Website: http://www.ieidurgapurlc.org]

All India Seminar on "Innovation And Sustainability in the Power Sector and Electricity Market"

Chandigarh, November 07-08, 2025

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Plot No.1-A, Engineers Bhawan, Madhya Marg, Sector 19-A, Chandigarh 160019 [☎: 0172-2775418, E-mail: pcsc@ieindia.org; ieichd@yahoo.com, Website: www.ieichd.org]

Electronics & Telecomm. Engineering Division

All India Seminar on "Emerging Trends in Next Gen Wireless Communication 5G to 6G"

Tiruchirappalli, October 15-16, 2025

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014 Tamil Nadu, [E-mail: tiruchirappallilc@ieindia.org]

All India Seminar on "IoT and Sensors Embedded IoT"

Bareilly, November 28-29, 2025

The Honorary Secretary, IEI, Bareilly Local Centre, Engineers' Bhawan, 44 Camphor Estate Colony, Near Camphor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile : 9634953691, E-mail : bareillylc@ieindia.org, Website: www.blcieindia.in]

Fortieth National Convention of Electronics and Telecommunication Engineers on "IoT and Sensor Embedded IoT Driving Smart Connectivity"

Faridabad, December 03-04 2025

The Honorary Secretary, IEI, Faridabad Local Centre, 2nd Floor, Bank Building, J C Bose University of Science and Technology (YMCA), Sector 6, Faridabad 121006, Ph. : 01292245008, E-mail: faridabadlc@ieindia.org, Websites : www.ieifbdlc.in]

One Day Seminar on "Electronics and Telecommunication in Medical Application"

Bareilly, December 20, 2025

The Honorary Secretary, IEI, Bareilly Local Centre, Engineers' Bhawan, 44 Camphor Estate Colony, Near Camphor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile : 9634953691, E-mail : bareillylc@ieindia.org, Website: www.blcieindia.in]

All India Seminar on "Flexible Nanoelectronics for Sensing and Biomedical Applications"

Agartala, January 29-30, 2026

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Gurkhabasti, PO: Kunjaban, Agartala, West Tripura 799006 [☎: 0381-2304700, Mobile: 9774129593, Email : tripurasc@ieindia.org; ieitripura@gmail.com, Web: www.ieitripura.org]

Environmental Engineering Division

All India Workshop on "Smart Solutions for Environmental Applications"

Dhanbad, October 31- November 01, 2025

The Honorary Secretary, IEI, Dhanbad Local Centre, Signature Corals Apartment, Flat No.B/4, First Floor, Block – A, Kusum Vihar, Phase-I, PO: BCCL Township, Koyla Nagar, Dhanbad 826005, Jharkhand [Mobile: 9934896322/8789853083, E-mail: dhanbadlc@ieindia.org; Website: www.iedhanbad.org]

One Day Workshop on "Smart Air Leveraging Cloud and AI to Combat Ultrafine Air Pollution PM.1 and PM1.0 for a Safer Environment"

Tiruchirappalli, November 04, 2025

The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirappallilc@ieindia.org]

All India Seminar on "Energy Efficiency in Heating Ventilations and Air Conditioning"

Ranchi, February 8-9, 2026

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [☎: 0651-3510412, E-mail: jharkhandsc@ieindia.org; Website: ieijscjharkhand.org]

Marine Engineering Division

Thirty-seventh National Convention of Marine Engineers on "Environmental Protect and Port Safety"

Vijaywada, November 13-14, 2025

The Honorary Secretary, IEI, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

Mechanical Engineering Division

One Day Seminar on "AI at Work - Smart Way to Manufacturing - Challenges and Way Forward"

Thiruvananthapuram, October 07, 2025

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033 [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

All India Seminar on "Industry 4.0 and Smart Manufacturing: Transforming Future Factories"

Panaji, October 16-17, 2025

The Honorary Secretary, IEI, Goa State Centre, D -8-1, D Type Quarters, Government, Polytechnic Campus, Altinho, Panaji, Goa, 403001 [Mobile : 9325029277, E-mail : goasc@ieindia.org, Website: www.ieigoasc.org]

All India Seminar on "Additive Manufacturing for Enhanced Productivity"

Agartala, November 14-15, 2025

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Gurkhabasti, PO: Kunjaban, Agartala, West Tripura 799006 [☎: 0381-2304700, Mobile: 9774129593; Email: tripurasc@ieindia.org; ieitripura@gmail.com, Web: www.ieitripura.org]

International Conference on "Advancements in Aerospace, Mechanical and Materials Engineering"

Vijayawada, February 01-02, 2026

The Honorary Secretary, IEI, Andhra Pradesh State Centre, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

Forty-first National Convention of Mechanical Engineers on "Emerging Domains in Robotics and AI"

Thiruvananthapuram, September 23-24, 2026

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033 [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

Metallurgical & Materials Engineering Division

All India Seminar on "Advanced Materials for Sustainable Development"

Prayagraj October 31-Nov 01, 2025

The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004, [☎: 0532- 2545539/2271149, E-mail: allahabadlc@ieindia.org]

Mining Engineering Division

Thirty-fifth National Convention of Mining Engineers on "Mining And Environment Quo Vadis 2070"

Dhanbad, November 07-08, 2025

The Honorary Secretary, IEI, Dhanbad Local Centre, Signature Corals Apartment, Flat No.B/4, First Floor, Block – A, Kusum Vihar, Phase-I, PO: BCCL Township, Koyla Nagar, Dhanbad 826005, Jharkhand, Mobile: 9934896322/8789853083, E-mail: dhanbadlc@ieindia.org; Website: www.iedhanbad.org

Production Engineering Division

Fortieth National Convention of Production Engineers on "Sustainable Smart Manufacturing for Circular Economy"

Coimbatore, June 19-20, 2026

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

Textile Engineering Division

One Day Seminar on "Indian Textile Industry in New Tariff Era"

Kanpur, October 29, 2025

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTU Campus, Nawabganj, Kanpur 208002 [Mobile: 9140018277, E-mail: kanpurlc@ieindia.org, Website: www.ieikanpur.org]

National Languages Promotional Committee

All India Seminar on "AI Powered Augmented Reality and Virtual Reality Technologies "

Coimbatore, January 07-08, 2026

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]



The Institution of Engineers (India)

IEI Industry Excellence Award 2025

Request for Participation

The IEI Industry Excellence Award has been instituted to recognize industry leaders for their innovation, excellence in engineering operations and thereby, to lead their industry in competitive manner. The benchmarks created by the industries in India have included productivity, quality, safety and performance assurance thereby giving India the rightful place in the global markets. Realizing that such industries can provide the leadership to a large number of other industries in the country, it has been considered appropriate by the IEI Council to institute the IEI Industry Excellence Awards in the year 2008.

Applications in specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>) are invited from prospective applicants for IEI Industry Excellence Award 2025. The last date of receipt of application for the Award 2025 is **30 October 2025**. Interested applicants are requested to send their applications (Two hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

Deputy Director (Technical)

The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020



The Institution of Engineers (India)

IEI Engineering Education Excellence Award 2025

Request for Participation

The IEI Engineering Education Excellence Award has been instituted to recognize leading Engineering Educational Institutions and encourage for better and more effective engineering education across the country. The engineering education sector has witnessed significant development, setting benchmarks for others to follow. Universities and institutions have expanded their scope beyond pedagogy and now engage in R&D activities, consultancy, patents, publications, skill development programs, industry interface, and the implementation of the New Education Policy (NEP), contributing to India's global prominence. Recognizing that such institutions can lead and inspire numerous others in the country, the IEI Council has decided to establish the IEI Engineering Education Excellence Awards.

Prospective applicants are invited to submit their applications in the specified format

(visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#engineering-education-excellence-award>) for the IEI Engineering Education Excellence Award 2025. The deadline for submitting of applications for the Award 2025 is **30 October 2025**. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

Deputy Director (Technical)

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