

IEI NEWS

March 2025

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A CENTURY OF SERVICE TO THE NATION

Volume 31

Number 12



IEI Recognized as an Awarding Body (Dual) by NCVET (MSDE, GoI)- A Defining Moment in its Rich Legacy



Signing of Agreement with NCVET, Ministry of Skill Development & Entrepreneurship, GoI, for recognition of IEI as an Awarding Body (Dual)

The Institution of Engineers (India) [IEI], under the stewardship of Er VB Singh, President, IEI has been recognized by the National Council for Vocational Education & Training (NCVET), under The Ministry of Skill Development & Entrepreneurship, as an Awarding Body (Dual) for Skill Development programs, PAN INDIA. Maj Gen (Dr.) MJS Syali, VSM (Retd.), SDG, IEI has signed an agreement for the same with NCVET on 26 March 2025.

The main objectives of IEI under this program are to award certification to trainees for an approved qualification by ensuring quality training and reliable assessments. IEI will also facilitate the creation of qualifications and related learning materials and affiliate/accredit training partners. Additionally, IEI will on-board assessment agencies to ensure fair and reliable assessments. IEI will aim to empower the youth of the country with in-demand skill sets which will make them more employable and productive thereby contributing to the Skill Development Mission in alignment with the Prime Minister's vision of "Skill India."

From the President's Desk.....



From Glacier to Gutter: A Journey of Water Wisdom

Every year, World Water Day gives us a moment to pause and reflect. This year, the theme 'Glacier Preservation' reminded us that water doesn't just flow from our taps—it begins in fragile, faraway places. Glaciers, silently feeding rivers for centuries, are now melting faster than ever. What once seemed distant is now a real and pressing concern.

Climate change is not just a headline—it's something engineers across India are dealing with every day. Erratic rainfall, water-logging in urban areas, dry bore wells in rural belts... we've all seen the signs. Our traditional systems are under strain. What worked decades ago now need a rethink.

Engineering today isn't only about building—it's about adapting. We're seeing a shift. Green infrastructure like rain gardens and sponge zones is being used alongside smart technologies like IoT-based water monitoring. Drainage, too—often taken for granted—is becoming a priority. New materials and prefabricated solutions are helping make our roads, buildings, and slopes more resilient. They show how engineering is evolving with the times, becoming more responsive and responsible.

At IEI, we observed World Water Day 2025 on 22 March across our State and Local Centres and affiliated entities to raise awareness on glacier melt and water resilience. Through these efforts, we aim to encourage engineers to not just respond to water challenges—but anticipate them.

As we move forward, let us remember: whether it's a glacier or a gutter, every drop of water matters. And it's our duty—as engineers and as citizens—to protect that flow, now and for the future.

UNESCO World Engineering Day & WFEO Special Executive Meetings

A three-member delegation led by Mr. VB Singh, President, IEI; Mr. Ashok Basa, Executive Vice President, World Federation of Engineering Organizations (WFEO) & Past President, IEI and Mr. NB Vasoya, National Member, Executive Council, WFEO & Past President, IEI attended the UNESCO World Engineering Day Celebrations and WFEO Special Executive Meetings held in Paris during March 03-06, 2025.



(L-R) Mr. M. Mustafa Shehu, President, WFEO, Mr. NB Vasoya, Mr. VB Singh, Mr. Seng Chuan Tan, President (Elect), WFEO, Mr. Ashok Basa

Celebration of World Engineering Day (WED) at the UNESCO premises was the most cherished event. World Engineering Day was celebrated on 4th March in the UNESCO Auditorium in UNESCO Fontenoy Building in a grand manner. WED was jointly organised by UNESCO & WFEO. Welcome remarks were delivered by Ms. Lidia Brito, Additional Director General for Natural Science, UNESCO. She narrated the importance of WED & role of engineers for attaining the Sustainable Development Goals (SDGs). Opening remarks were delivered by Mr. M Mustafa Shehu, President, WFEO. Mr. Shehu emphasized engineers are helping in a big way for the success of different Sustainable Development Goals. He also, highlighted how WFEO is taking steps to strengthen UNESCO in its mission.

In her keynote address Ms. Emanuela Colombo, Professor, Politecnico di Milano, Italy, emphasised on innovation in engineering which involves giving solutions to societal problems. She quoted Herbert Hoover- "The science of engineering is not merely to make things, but to make things that are good to society." Finally, she concluded by quoting Saint Francis of Assisi "Start by doing what is necessary, then do what is possible, and suddenly you are doing the impossible".

The highlight of WED was a high-level panel discussion on the "Key Role of Engineering in Designing Policies for Sustainable Development". It was moderated by Mr. Jose Viera, Immediate Past President, WFEO.

The much-awaited WED Hacka Thon results were declared by Dr. Marlene Kanga, Past President, WFEO. Panel discussion on "Empowering Africa, Digital Transformation & Capacity Building" was moderated by Ms. Ania Lopez, from Italy.

Fireside chat on "Challenges Women Engineering Face & Testimonies Breaking Barriers: Inspiring Stories & Over coming Challenges by Women Engineering" was also conducted.

A panel discussion on "Energy, Infrastructure & Effective Solutions to Implement Sustainable Development" was another highlight of the day.

In all these discussions the Indian delegation also actively participated by raising different relevant issues which were appreciated.

The day's activities were summarised by Mr. Seng Chuan Tan, President (Elect), WFEO. Finally, the closing remarks were given by Mr. Shao Feng Hui, Director of the Division of Science Policy & Basic Sciences UNESCO.

Besides the WED many other meetings were held from 3rd to 6th March. Finance Committee & Executive Board Meeting were held on 3rd March in which Mr. Ashok Basa participated actively as a Board Member.

On 5th March Several Committee Meetings were held. These consist of International Members Meeting. All Committee Chairs Meeting, WFEO Energy Committee Meeting, ExCo National Members Meeting, etc.

The Indian delegation led by President Mr. VB Singh actively participated in these meetings. During discussions the role of IEI was highlighted in achieving the SDGs through participation of engineers.



Indian Delegation with Ms. Lidia Brito, ADG for Natural Sciences, UNESCO after the Inaugural Session of World Engineering Day on 4th March in Paris

The Special Executive Council Meeting was held on 6th March 2025. Mr. Navin Vasoya made certain suggestions how the National Members elected to the Executive Council can be best utilised by WFEO. Mr. Ashok Basa, Chair, Strategic Planning Committee explained the recommendation of SPC to the Board in this regard. President Mr. VB Singh joined the Executive Council meeting and other meetings too.

It was also mentioned by the Indian delegation led by President Mr. VB Singh that an International meet is conducted along with the Indian Engineering Congress every year in which foreign delegates from different Countries & different International bodies likes WFEO, FEIAP, fib etc. congregate & participate actively. This was appreciated by the global community in the WFEO.

The delegation led by President Mr. VB Singh could create an impact at the global level by mentioning different activities conducted under the umbrella of the Institution of Engineers (India) in the interest of the engineering fraternity both at National & International level.

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>

Applications of AI & Machine Learning

Punjab & Chandigarh State Centre of the Institution, in association with Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab and Punjab Engineering College, Chandigarh, organized the 37th National Convention of Computer Engineers during 22-23 November 2024, at Chandigarh under the aegis of Computer Engineering Division Board, [CPDB], IEI. A National Seminar was organized concurrently on the theme **Applications of AI & Machine Learning**. Prof (Dr) T S Kamal, Former Vice President, IEI graced the inaugural session as the Chief Guest. Er Sukhvir Singh Mundi, Vice President, IEI [Session 2023-24] was present on the dais and addressed the audience. Dr Amit Kumar Das, Chairman, Computer Engineering Division Board, IEI [Session 2023-24] presided over the inaugural session.



The event started with the welcome address delivered by Prof (Dr) Baljit Singh Khehra, presently Chairman, Punjab & Chandigarh State Centre. His speech set the tone for the event, focusing on the relevance of computers in tackling contemporary engineering and technological challenges. Dr Khehra emphasized the seminar's theme, underscoring the role of computational innovations in achieving sustainability and addressing complex issues like resource management, environmental impact, and infrastructure development. Dr Jatinder Singh Saini, Convener of the event, briefed the august audience about the theme of the National Convention and delivered an insightful address on 'Role of Computer in Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology'. He began by articulating the critical challenges facing modern engineering, including environmental degradation, urban congestion, and energy scarcity. Dr Saini outlined how computational advancements have provided transformative solutions in these domains. Focusing on sustainability, Dr Saini highlighted the use of artificial intelligence, machine learning, and big data analytics in designing resource-efficient systems. He cited examples such as AI-driven energy grids, automated traffic systems, and predictive maintenance models that significantly reduce waste and optimize resources. His address also emphasized the potential of computing in fostering innovation, particularly in developing countries, where resource constraints require creative and sustainable solutions. Dr Saini concluded his address by calling for enhanced interdisciplinary collaborations between technologists, engineers, and policymakers to create a unified approach toward sustainable development. His message resonated with the audience, providing a robust intellectual framework for the technical sessions that followed. Dr Amit Kumar Das delivered an engaging and forward-looking Presidential Address, emphasizing the transformative role of computers in engineering and technology. He began by highlighting how computational technologies have redefined the way engineers approach problem-solving and innovation. He also discussed the challenges posed by the rapid evolution of technology, such as the need for updated skill sets, ethical considerations in AI deployment, and the digital divide in accessing advanced tools. Dr Das stressed the importance of continuous learning and adaptation for professionals and advocated for increased investment in research and development. In his concluding remarks, he called upon the audience to leverage computational technologies responsibly and collaboratively to address global challenges.

Er Sukhvir Singh Mundi's address highlighted the strategic vision of IEI in fostering innovation through the use of computational tools. Er Mundi emphasized the need for engineers to adopt a proactive approach in integrating computational technologies into their work to create sustainable solutions. He spoke about the role of automation and robotics in enhancing productivity while minimizing environmental impact, providing real-life examples from industrial applications. He also addressed the importance of ethical engineering practices,

particularly in the context of emerging technologies like AI and Blockchain. Er Mundi stressed the need for stringent standards and guidelines to ensure that technological advancements are used for the greater good. In his concluding remarks, he expressed optimism about the discussions and collaborations that the seminar would facilitate, encouraging participants to take inspiration from the event to drive meaningful change in their respective fields.

Chief Guest of the inaugural session, Prof (Dr) T S Kamal, delivered a Keynote address that underscored the transformative potential of computing in addressing modern engineering challenges. He began by reflecting on the evolution of computing technologies, from basic automation to advanced AI and Machine Learning systems, and their role in shaping engineering practices. Prof Kamal, in his address, provided an optimistic perspective on how computers can enable sustainable development, especially in developing countries. He highlighted global success stories where computational models have driven innovation in energy, transportation, and healthcare sectors. His address also touched upon the ethical implications of technology use, urging engineers to adopt solutions that prioritize equity and environmental stewardship. He highlighted the use of AI in predictive analytics, the application of machine learning in material design, and the role of big data in optimizing resource usage. He further discussed the criticality of integrating sustainable practices into engineering designs to address climate change and resource depletion. Dr Kamal called for a shift in mindset, urging engineers to prioritize sustainability alongside innovation. He emphasized the importance of lifelong learning, as the rapid pace of technological advancements demands continuous skill enhancement.

On the occasion, Dr Raman Maini, Professor, Department of Computer Science & Engineering, Punjabi University, Patiala; Dr Parminder Singh, Professor, Department of Computer Science and Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab and Dr K L Shunmuganathan, Dean and Professor, Department of Information Technology, Rajalakshmi Engineering College, Thandalam, Chennai were felicitated as Eminent Engineering



Personalities in recognition of their eminence and contributions in the field of Computer Engineering. The IEI Young Engineers Award in Computer Engineering Division for the year 2024 were presented to Dr (Ms) Aakanksha Sharaff, Assistant Professor, Department of Computer Science and Engineering, NIT Raipur and Dr Siddarth Asokan, Research Software Development Engineer, Microsoft Research Laboratory, Bengaluru, Karnataka in recognition of their contributions in the field of Computer Engineering. The Award session served as an inspiration, highlighting the importance of dedication, innovation, and excellence in engineering. The Awardees shared their insights and emphasized the role of computational technologies in achieving the future milestones.

Er Karnail Singh, presently Honorary Secretary of the Punjab & Chandigarh State Centre, IEI delivered the vote of thanks. His speech was filled with appreciation for the dignitaries, speakers, and all participants who made the National Convention and National Seminar a success.

Followed by the inaugural session, the M S Ramanujan Memorial Lecture was delivered by Er Bhupinder Singh Mavi, Director, Software Engineering, LS Pedia, Michigan, USA. In his lecture, Er Mavi highlighted the role of software tools in data analysis, simulation, and optimization, and how these tools are crucial in enhancing decision-making processes, especially in industries such as energy, infrastructure, and healthcare. Er Mavi's lecture resonated with the

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Applications of AI & Machine Learning

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audience, inspiring them to explore new ways of integrating computational techniques into their engineering practices for a sustainable future.

Dr Raman Maini delivered the State-of-Art lecture, providing an in-depth look into the latest trends and advancements in computational technologies. His presentation focused on the applications of cutting-edge technologies such as artificial intelligence, machine learning, and blockchain for transforming the engineering landscape and developing sustainable and innovative solutions. Dr Maini elaborated on the role of AI and ML in automating processes and improving the efficiency of systems in industries like manufacturing, energy, and healthcare. He spoke about how these technologies can be used to predict maintenance needs, optimize supply chains, and design energy-efficient buildings, thus reducing the environmental impact of human activities.

Dr Jagtar Singh, Past Chairman, Bathinda Local Centre delivered a Keynote address that focused on the integration of computational technologies in education and research. He highlighted the transformative impact of digital tools in enhancing the learning experience for engineering students, particularly in areas like virtual simulations and e-learning platforms. He discussed the role of interdisciplinary research in fostering innovation, citing examples of collaborations between computer scientists and engineers in developing smart systems.

Dr Harpreet Kaur, Assistant Professor, Department of CSE, Punjabi University, Patiala delivered a Keynote address, which explored the applications of computational technology in environmental engineering. She discussed the use of data analytics, modeling, and simulation in addressing challenges like water management, pollution control, and waste reduction. Dr Kaur presented



Dr Raman Maini

case studies demonstrating how computational models have been employed to design sustainable urban ecosystems and optimize resource use. She emphasized the need for engineers to adopt a multidisciplinary approach, integrating computing, engineering, and environmental science to create innovative solutions. Her address left a strong impression on the audience, particularly on the potential of technology to drive environmental sustainability.



Dr Parminder Singh



Dr K L Shunmuganathan

Dr Parminder Singh delivered a Keynote address focusing on the integration of computational techniques in civil engineering and infrastructure development. He elaborated on how modern tools like Building Information Modeling (BIM), Geographic Information Systems (GIS), and IoT-based systems are transforming the field by enabling precise, efficient, and sustainable designs. Dr Singh shared insights from his research and projects, including case studies of smart city initiatives and disaster-resilient infrastructure planning. He emphasized the importance of data-driven decision-making



Dr (Ms) Aakanksha Sharaff

and highlighted the critical role of computational technology in achieving sustainability goals. Dr Singh concluded his address with a call to engineers to adopt innovative technologies and contribute to building a smarter and more sustainable future.

Dr Amitoj Singh, Associate Professor, Jagat Guru Nanak Dev Punjab State Open University, Patiala presented a Keynote address on the potential of cloud computing and artificial intelligence in engineering education and practice. He discussed, how cloud-based platforms are revolutionizing data accessibility,

collaboration, and real-time analytics, enabling engineers to work more effectively. Dr Singh underscored the importance of AI in automating complex tasks, enhancing accuracy, and predicting future trends in engineering solutions. He also explored the ethical challenges associated with these technologies, such as data security and algorithmic bias. His address provided a balanced perspective on leveraging computational advancements while addressing associated risks, inspiring participants to pursue innovation responsibly.

Er Gagandeep Kaur, Assistant Professor, Yadavindra Department of Engineering, Punjabi University, Gurukashi Campus, Talwandi Sabo delivered a Keynote address and highlighted the role of computational tools in modern power systems. She focused on the application of smart grid technologies, energy management systems, and predictive maintenance models in optimizing energy usage and reducing carbon footprints. Er Kaur provided detailed examples of projects where computational models have been successfully deployed to improve power efficiency and integrate renewable energy sources. She further emphasized in fostering cross-disciplinary collaborations.

Dr Gurpreet Bharti, Yadavindra Department of Engineering, Punjabi University, GKC delivered an inspiring Keynote address on the use of artificial intelligence and machine learning in healthcare sector. She discussed how computational tools are enabling breakthroughs in medical imaging, diagnostics, and personalized treatment plans. Dr Bharti shared examples of AI-driven systems, that have improved the accuracy and speed of medical diagnoses. She also addressed challenges such as data privacy and the ethical implications of AI in healthcare. Her address emphasized the need for engineers to collaborate with medical professionals to develop solutions that are both innovative and patient-centric, leaving a lasting impact on the audience.

Er Bhupinder Singh Mavi, delivered a Keynote address focusing on intersection of computing and industrial engineering. He highlighted the role of computational models in optimizing supply chains, reducing operational costs, and enhancing productivity. Er Mavi shared insights from his professional experience, emphasizing the importance of real-time data analysis and predictive analytics in maintaining efficient industrial operations. He also discussed how technology is driving sustainability in manufacturing processes, reducing waste and energy consumption. His address provided a practical roadmap for leveraging computational tools to achieve industrial and environmental goals.

Further, number of papers were presented during the technical sessions on relevant sub-theme, which include; Optimizing Trait Selection in Crop Improvement using a Hybrid GA-PSO: A Case study of Punjab; A Comparative Study of Cloud Printing Architectures and Services for Cloud Computing Environments; A Study on the Machine Learning Models for Heart Diagnostics; Chronic Disease Management Through Multi-Modal AI Agents Orchestration; 2d To 3d Generation Using Deep Learning: A Comprehensive Survey; Optimizing Energy Grids with AI: Innovations for a Sustainable Future; Challenges and Solutions in Implementing Smart City Technologies in Developing Countries; Harnessing Machine Learning for Alzheimer's Disease: A study of Diagnostic and Predictive Approaches; Introduction to Facial Emotion Recognition System in Machine Learning; HVMC: A Hybrid Machine Learning based VM Consolidation Framework for Energy-Efficient Cloud Data Centers; AI Driven Dentistry – Advancements and Applications; Reinforcing Smart Home Security: Anomaly detection with Machine Learning; Wearable Fractal Antennas for Medical Applications: A Comprehensive Review; Hybrid Features and Grey Wolf Optimization Algorithm Based Fruit Recognition and Classification System; Applications of AI in Edge Computing for IoT Devices: Transforming Real-Time Analytics and Decision-Making; etc.

During the valedictory function, Dr Maninder Singh, Professor at Thapar Institute of Engineering & Technology, Patiala, graced the occasion as the Chief Guest. In his address, Dr Singh appreciated the success of the National Convention in bringing together experts and practitioners to discuss the role of Artificial Intelligence and Machine Learning in sustainable engineering solutions. He focused on the importance of interdisciplinary collaboration, urging engineers to look beyond their individual fields and work together to address the multifaceted challenges of the modern world. Dr Singh concluded by stressing

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R&D Activities in Minerals, Chemicals and Metallurgical Industries for Today's Society

Odisha State Centre of the Institution organized the 39th National Convention of Chemical Engineers at Bhubaneswar under the aegis of Chemical Engineering Division Board [CHDB], IEI during 09-10 November 2024. A National Seminar was concurrently organized on the theme **R&D Activities in Minerals, Chemicals and Metallurgical Industries for Today's Society**. The event witnessed enthusiastic participation from engineers, academicians,



researchers, industry experts, and students. Dr Deependra Singh, Chairman & Managing Director, IREL (India) Limited, Mumbai, graced the inaugural function as the Chief Guest and Dr Ramanuj Narayan, Director, CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar graced the function as the Guest of Honour. Dr Raghupatruni Bhima Rao, Chairman, CHDB, IEI presided over the inaugural session.

The event started with the welcome address delivered by Prof (Dr) Sudhansu Sekhar Dash, Chairman, Odisha State Centre, IEI. Dr Chaturmukha Pattnaik, Convener, provided the thematic insights and highlighted the significance of R&D for sustainable development in minerals, chemicals, and metallurgical industries. Chief Guest, Dr Deependra Singh in his address mentioned about critical mineral extraction and advocated for more research towards less use of energy for mineral extraction.

On the occasion, Dr (Mrs) Abanti Sahoo, Professor, Department of Chemical Engineering, NIT Rourkela; Prof (Dr) Thonangi Gouri Charan, Former Chief Scientist & Head of the Research Group, CSIR – Central Institute of Mining &



Dr (Mrs) Abanti Sahoo

Chemical Engineering.



Dr S K Biswal

CSIR-Indian Institute



Dr (Ms) Arelli Vijaya Lakshmi

Fuel Research [CIMFR], Dhanbad and Dr S K Biswal, Managing Director & CEO, M/s International Prana Graf Mintech Research Centre [IGMRC], Bhubaneswar were felicitated as Eminent Engineering Personalities in recognition of their eminence and contribution to the profession of Chemical Engineering. The IEI Young Engineers Award in Chemical Engineering Division were presented to Dr Ananth Govind Rajan, Assistant Professor, Department of Chemical Engineering, Indian Institute of Science Bengaluru; Dr (Ms) Arelli Vijaya Lakshmi, Research Associate, Department of Energy and Environmental Engineering, CSIR-Indian Institute of Chemical Technology [IICT], Hyderabad; and Mr Ankit Sharma, Deputy Manager Technical [Chemical], Technical Services Department, OSCOM, IREL (India) Limited, Matikhala, Chatarpur, Odisha. A Technical Proceedings was released on the occasion in the presence of the dignitaries on the dais. Er Sangram Keshari Pattanayak, Honorary



Prof (Dr) Thonangi Gouri Charan



Dr Ananth Govind Rajan



Mr Ankit Sharma

Secretary, Odisha State Centre proposed the vote of thanks.

The inaugural function was followed by Acharya Prafulla Chandra Roy Memorial Lecture, delivered by Dr Ramanuj Narayan, Director, CSIR-Institute of Minerals and Materials Technology [IMMT], Bhubaneswar on the topic 'Opportunities and Challenges in Self-Reliance for Critical Minerals'. The speaker, in his lecture, explained the function of different rare earth materials and the recovery methodology of rare earth and critical metals through unconventional systems. Dr Shivakumar Angadi, Principal Scientist, CSIR-IMMT, delivered State-of-Art Lecture on advancements in minerals processing technologies. Dr Abanti Sahoo delivered presentation on the topic 'Chromium (VI) Removal from Wastewater using Chemically Treated Peanut Shells as Adsorbent'. Prof (Dr) Gouri Charan delivered lecture on 'Steel Making and Challenges for Steel Sector with Reference to Utilization of Indigenous Coking Coal Resources'. Dr Ananth Govind Rajan delivered lecture on the topic 'In Silico Design of Materials for CO₂ Capture and Conversion'. Er Ankit Sharma spoke on the topic 'Role of Rare Earths in achieving Sustainability and Circular Economy Goals'.

During the technical sessions, Dr (Prof) L B Sukla, Director, Biofuels and Bioprocessing Research Centre (BBRC), Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar delivered Invited Lecture on 'Biominer Processing – Towards Green Technology'. Dr Ranjan Kumar Dwari, Principal Scientist, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar delivered Invited



Lecture on the topic 'Green Surfactants: Paving the Way for Innovation in Froth Flotation Process'. Er Pradip Ranjan Choudhury, Former Executive Director, NALCO, Bhubaneswar delivered Invited Lecture on 'Digitalisation of Aluminium Smelters for Sustainability-Industry 4.0 As A Game Changer'. Further, papers were presented on different sub topics, namely

Integration of Adsorption and Photocatalysis for the Degradation of Congo Red (CR) dye using Manganese Dioxide Loaded on Coconut Shell Granular Activated Carbon; Sustainable Lithium Extraction via Bioleaching with Iron-Oxidizing Bacteria; Development and Characterization of Polyurethane Coating from Vegetable Oil, Isophorone Diisocyanate, and Propanediol for Coating Applications; Advancements and Challenges in Heavy Metal Adsorption by Microalgae: Mechanisms, Efficiency, and Future Directions; Malachite Green Dye Degradation by Adsorption-assisted Photocatalysis Employing Nano ZnO impregnated on GAC derived from unused Coconut Shells; Investigation on Bioplastic Prepared from Rice/Corn/Potato/Wheat Starch; An Assessment of Physical and Mechanical Integrity of Seawater-Treated Glass Fiber/Banana Fiber/Epoxy Hybrid Composite for Marine Application; Physicochemical analysis of Pine Resin as an Environmentally Friendly Alternative to Bitumen; Comprehensive Analysis of the Indian Hydrocarbon Sector: Opportunities and Challenges for Carbon Capture Implementation; Beneficiation Strategies to Utilize the PLK Rock for Industrial Applications; Recovery of Lithium from Low-grade Indian Pegmatite Deposits; A Review of Magnesite Beneficiation and Application in India: Future Aspects and Challenges; A Comprehensive Review of Cage Wheel Modifications for Improving the VSK Separator Efficiency; Comparative Analysis of Bond Work Index with Variation of Circulating Load and Test Mesh Size; Beneficiation Aspects of Low-grade Indian Iron Ores etc. The National Convention was well attended by the professionals from different walks of life.

AI Driven Digital Twins in Mechanical and Thermal Engineering Systems

Telangana State Centre, IEI organized an All India Seminar on the theme **AI Driven Digital Twins in Mechanical and Thermal Engineering Systems** during 31 January-01 February 2025 under the aegis of Mechanical Engineering Division Board, IEI at Hyderabad. Shri K Meghanath Chowhan, IRS, Commissioner of Income Tax, Hyderabad graced the occasion as the Chief Guest. Dr Prabha Shankar, Chairman & Managing Director, Leads Pharma Private Limited, Hyderabad graced the occasion as the Guest of Honour. Dr G Venkata Subbaiah, Chairman, Telangana State Centre, IEI



enabled Prediction of Tribological Properties of Cu-TiC-GNP Nanocomposites synthesized by Electric Resistance Sintering: A Comparison with RSM; Evaluating and Optimising Tribological Parameters of Enhanced Two-Step Stir Cast Al6061/Nano-SiO₂ Composite using Machine Learning Techniques; Analysis of Material Removal and Surface Roughness in EDM using Hybrid AL(7075+7178) Electrodes on Inconel 718 & using Deep Learning Approach; The Role of Machine Learning in Design and Development of High Entropy Alloys: Research Review; A Review on Machine Learning Approaches in Mechanical Engineering; Machine Learning based Cost Prediction for Product Development in Mechanical Engineering; Design and Fabrication of Omni Directional Wind Turbine; Effect of Ply Orientation on Thermal Erosion and Conductivity of Silica-phenolic Composites under Oxy-acetylene Flame; Analysis of Impact of Ash Content in Coal on Thermal Power Plant; Machine Learning Analysis in Mechanical Engineering; and Evaluating and optimizing Tribological Parameters of Enhanced Two-Step Stir Cast Al6061/Nano-SiO₂ Composite using Machine Learning Techniques. The Seminar was well attended by the working professionals, students and researchers.

welcomed the gathering and presided over the function. Dr K Seetha Ram Babu, Honorary Secretary, Telangana State Centre proposed the vote of thanks at the end of the inaugural session.

During the technical sessions, eminent speakers shared their insights with the august gathering. Dr G Raghavender Rao, Additional General Manager, Corporate R&D, BHEL, Hyderabad delivered an Invited Lecture on the topic 'Application of AI Driven Digital Twins in Thermal Power Plants'. Dr Y V Satish Kumar, Director, ASquare Infotech Consultancy Private Limited, Hyderabad delivered an Invited Lecture on the topic 'Digital Twin – Virtually Integrated Real time Industry Operations'. Er Gundala Nagaraju, Vice President, TAA IIT Kharagpur, Hyderabad Chapter, Hyderabad delivered Invited Lecture on 'AI Techniques for Digital Twin Modeling in Mechanical and Thermal Engineering Systems'. Er B Brahma Reddy, Immediate Past Chairman, Telangana State Centre, IEI delivered Invited Lecture on 'Digital Twins for 5G and Beyond'. Prof (Dr) Mohd Mohinoddin, Convener of the event delivered an Invited Lecture on the topic 'AI Driven Digital Twins in Mechanical and Thermal Engineering Systems'.

Papers were presented on relevant sub theme, which include; Artificial Intelligence in Digital Twins Current Advances, Challenges and Future Research Directions; Implementation of Artificial Intelligence for Smart Battery Management System in Electric Vehicles; AI Based Flow Network Analysis of Gas Turbine Nozzle Guide Vane Cooling; AI Techniques for Digital Twin Modelling of Jet Engine Blade Components in Aerospace Applications; A Review on AI and ANN-Based Modelling of Hydrodynamic Cavitation Processes: Water Treatment; A Python based Software for Calculating, Data Analysis and Modeling; The Coefficient of Friction of Aluminum Metal Matrix Composites using Support Vector Regression; Digital Twin: A Revolutionary Application in Mechanical and Agriculture System Integration; Machine Learning

REINFORCE 2025
The Future of Resilient Engineering!

The Institution of Engineers (India) (IEI), in association with Maccaferri and supported by WFEO, presents:

REINFORCE 2025

A Virtual International Conference on "Resilient Engineering Innovations for a Future-Oriented, Reliable & Circular Economy Infrastructure" (REINFORCE).

15th - 16th July 2025
Online | Zoom
10:00 AM - 6:00 PM (IST)

SAVE THE DATE

Join global industry leaders, academicians, and innovators as they discuss:

- ✓ Sustainable Geotechnical Solutions
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- ✓ Advanced Materials for Longevity
- ✓ Engineering for Lasting Infrastructure
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RSVP:
Tanmoy Chakraborty: +91-9830761661
Sumit Pathak: +91-9873007275

Be part of the transformative discussions & shape the future of resilient infrastructure!

Significance of Vastu in Modern Sustainable World

Kerala State Centre, IEI, in association with Vastuvidyapratisthanam organized an All India Seminar on the theme **Significance of Vastu in Modern Sustainable World** during 15-16 December, 2024, under the aegis of Architectural Engineering Division Board (ARDB), IEI at Thiruvananthapuram. The seminar aimed to explore the relevance of Vastu principles in contemporary architecture with a focus on sustainability.

Dr Ashalatha Thampuran, Founder Member, Vastuvidyapratisthanam delivered the opening remarks. Er K Balakrishnan Nair, Chairman, Kerala State Centre, IEI delivered the welcome address and presided over the inaugural session.

The seminar was inaugurated by Sri Kanippayur Krishnan Nambudiripad, Chairman, Vastuvidyapratisthanam. Er K R Suresh Kumar, Honorary Secretary, Kerala State Centre, IEI also addressed the audience. Sri



Kanippayur Krishnan Nambudiripad emphasized the integration of traditional Vastu principles with modern sustainable practices in his inaugural speech. Er K Balakrishnan Nair, who highlighted the importance of sustainable architecture in the presidential address. Dr Manoj Kumar Kini, Organising Secretary and Managing Director, KTIL, Department of Tourism, Government of Kerala and Life Member of Vastuvidyapratisthanam, proposed the vote of thanks.

The seminar comprised six technical sessions, each focusing on different themes related to Vastu and sustainable architecture. The first Technical Session on the subtheme Sthapatyaveda was chaired by Prof (Dr) P C Muraleemadhavan, Mhamahopadhya, Kerala Sanskrit Academy. Dr Paul Varghese, Visiting Faculty, Karpagam University, KAHE, Coimbatore presented paper on the topic 'The Historical and Global Diffusion of Ideas and Knowledge through the Ages', Papers were also presented on 'Insights on Mayamatam and Manasara', 'A Link between Traditional Texts and Modern-day Practice and "An Insight into Sthapatyaveda"'.

The second Technical Session on the subtheme 'Aesthetics in Arts, Crafts, and Architecture – I', was chaired by Prof (Dr) M S Mathews, Former Professor, Department of Civil Engineering, IIT Madras. Key papers presented on topic, were 'Significance of Kerala Temples as Centres of Arts and Crafts'; 'Alavum Azhakum: Keraleeya Rangakalayude Silpasoundaryathil Koothambalathinte Swaadheenam' and 'Reinventing the Kuttampalam for Traditional Art Forms of Kerala in the Contemporary Times'.

The third Technical session on 'Aesthetics in Arts, Crafts, and Architecture

– II' was chaired by Dr M G Sasibhushan, Consultant on Art, Culture and History. M R Aswathy, Su-Sara Design Studio, Trivandrum presented paper on "Restoration of Kumaramangalam Mana, West Fort, Trivandrum; Reviving and Reinterpreting rapidly Transforming Built Heritage in Historic Cities'.

Ar Harita Gireesan, Project Architect, M/s Architecture R&D, Chennai presented a paper on 'Aesthetics of Architecture of Bhutan'. Other key papers were; Aesthetics of Crafts, Digital Integration in Architectural Heritage Conservation: A Case of Kalpathy, Palakkad.

The fourth technical session on 'Vastu and Technology - Paving Way for the Future' was chaired by Ar N Mahesh, Principal Architect, Iyer & Mahesh Architects, Trivandrum. Ar Malarkodi Logaraja, Research Scholar, Department of Architecture, NIT Calicut presented a paper on 'Vastusastra - A Step Towards Sustainable Urban Development'. Ar Aiswarya K P, PhD Scholar & Dr Kasthurba A K, Professor, Department of Architecture, NIT Calicut presented a paper on 'Revitalization of Historic Urban Precincts Around Tali Temple, Calicut: Challenges Due to Urbanisation'. Dr K Sivasankara Menon, Executive Director, Vastuvidya Pratisthanam presented a paper on 'Sustainable Building Heritage through Engineering Solutions'.

The fifth Technical Session on the theme 'Traditional Wisdom in Buildings' was chaired by Padmasree Ar G Sankar, Chairman, Habitat Technology Group, Trivandrum & Vastuvidyagurukulam, Aranmulawas. Prof K Narayanan, Director, LBS Centre, Trivandrum delivered Invited Lecture on the topic 'Relocation of a Traditional Building'. Dr Priya Mendaritta, Additional Chief Planner, SIDCO, Maharashtra and Ravi Kumar V R K presented a paper on 'Genesis of Urban Planning in the Indian Peninsula'. Devahar V, Research Scholar, Department of Sanskrit Sahitya, Sree Sankaracharya University, Kalady presented a paper on 'Bridging Gaps in Vastuvidya: Unlocking the Challenges in Manuscripts and Published Texts'. Ms Ardra S. Babu, Dimple Maria and Priyanjali Prabhakaran of College of Engineering, Trivandrum presented a paper on 'Accessible Heritage: Finding Common Ground in India's Heritage Buildings'. Meghna Unni and Charudathan M.B. of College of Engineering, Trivandrum presented a paper on 'Comparative Study of Traditional Kerala Kitchens'.

The last Technical Session on 'Vastu in Modern Age - Projects and Techniques' was chaired by Dr Kailas Rao, Director, SPA, Bhopal and Prof (Dr) Ashalatha Thampuran. Key papers were presented on the topics 'Vastu Evaluation of Flats', 'Bridging Tradition and Technology: Photogrammetry as a Tool for Documenting Kerala Temple Architecture – A Case study of Anjoor Subramanya Swamy Temple, Thrissur', "Bharatheeya Vastuvidyayudeyum Vastusasthrathinteyum Paschathalam: Oru Anweshanam' and 'Human-Centric Dimensioning: Redefining Space and Furniture Design Through Personalized Measurements'.

The valedictory session was presided over by Prof (Dr) Ashalatha Thampuran. Dr K Sivasankara Menon, Executive Director, Vastuvidyapratisthanam summarized the proceedings of the seminar and Dr Manoj Kumar Kini, Organising Secretary proposed the vote of thanks. Feedback was collected from participants, emphasizing the seminar's success in bridging traditional Vastu principles with modern sustainable practices.

Upgradation of Membership

- ❖ Existing Associate Members are requested to upgrade their Membership to the grade of MIE and FIE as per the eligibility criteria
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Transforming Industry and Infrastructure: The Role of Automation and AI

Coimbatore Local Centre of the Institution organized an All India Seminar on the theme **Transforming Industry and Infrastructure: The Role of Automation and AI** under the aegis of Interdisciplinary Coordination Committee, IEI during 19-20 December 2024, in association with the Department of Mechanical Engineering, PSG Polytechnic College, Coimbatore at Coimbatore. The event started with welcome address, delivered by Dr J Krishnamoorthi, Chairman, Coimbatore Local Centre, IEI. Dr B Giriraj, Principal, PSG Polytechnic College, Coimbatore outlined the details of the Seminar. Dr S Vinodh, Professor, Department of Production Engineering, National Institute of Technology Tiruchirappalli graced the inaugural session as the Chief Guest. In his address, he highlighted the importance of continuous learning and staying updated with the current industrial scenario. He emphasized that the skills applied in the workplace are not confined to a specific division of study. The vote of thanks was proposed by Prof (Dr) Madhan Mohan Gopalsamy, Honorary Secretary of Coimbatore Local Centre.



During the technical session, Chief Guest, Dr S Vinodh, delivered an Invited Lecture on the topic 'Future Ready Factories: Navigating Industry Transformation with Smart Manufacturing'. He highlighted the transformative potential of smart manufacturing in creating future-ready factories that adapt seamlessly to changing industry landscapes. Smart manufacturing integrates advanced technologies like IoT, AI, robotics, and big data analytics to enhance operational efficiency and innovation. He spoke about that future-ready factories are the cornerstone of Industry 4.0, empowering industries to remain competitive, resilient, and sustainable in an evolving global market. Dr D Sivaraj, Assistant Professor (SI Gr), Department of Electronics & Communication Engineering, PSG College of Technology, Coimbatore delivered an Invited Lecture on 'Industrial IoT' and explained the basic concepts of Internet of Things. He discussed the transformative role of the Industrial Internet of Things (IIoT) in revolutionizing industrial processes through connectivity, data analytics, and automation. Dr S Prabhakaran, Assistant Professor (SI Gr), Department of Robotics and Automation, PSG College of Technology, Coimbatore delivered an Invited Lecture on 'Empowering Industry: Exploring the Role, Application and Future of Industrial Robots in India'. He discussed the pivotal role of industrial robots in driving India's industrial transformation, focusing on their applications and future potential. He emphasized that industrial robots hold the key to enhancing productivity, global competitiveness, and innovation in India's manufacturing sector while addressing labor

shortages and ensuring sustainable growth. Mr K Sivashanmugam, Deputy General Manager - Marketing, Janatics Global Solutions Private Limited, Coimbatore, delivered an Invited Lecture on the topic 'Role of Hydraulics & Pneumatics in Automation' and highlighted the importance of hydraulic and pneumatic systems in automation. He further explained about the various hydraulic & pneumatic components and its descriptions. Mr R Sasikumar, Manager - Education, TVS Training and Services, Chennai spoke on 'Low Cost Automation'. He emphasized the significance of low cost automation (LCA) as a practical and affordable solution for improving productivity, especially in small and medium enterprises (SMEs). He highlighted that LCA provides a stepping stone to modernizing operations, empowering businesses to remain competitive while maintaining cost-effectiveness. Mr V Rajendran, Executive Engineer, Water Resources Department, Ariyaru Basin Division, Trichy delivered Invited Lecture on 'AI in Urban Planning & Smart Cities' and highlighted the transformative role of artificial intelligence (AI) in urban planning and the development of smart cities. He emphasized that AI enables cities to become more resilient, sustainable, and livable by leveraging data-driven solutions to address urban challenges effectively. Mr S Dinesh Babu, Technical Engineer, Enthu Technology Solutions India Private Limited, Coimbatore delivered Invited Lecture on 'Autonomous Systems in Infrastructure'. He spoke about the growing impact of autonomous systems in transforming infrastructure development and management. He emphasized that autonomous systems minimize human error, reduce costs, and ensure safer, smarter, and more sustainable infrastructure development. Dr S Sangeetha, Associate Professor, Department of Artificial Intelligence and Data Science, Kumaraguru College of Technology, Coimbatore delivered an Invited Lecture on 'AI Enhanced Robotic Technology'. She spoke about AI-enhanced robotic technology integrates artificial intelligence with robotics to create systems that are more adaptive, intelligent, and efficient. She also spoke about the history AI technology and its transformation.

Also papers were presented on relevant topics, which include; Autonomous Robots for Active Removal for Space Debris; Smart Foundry and Automation in Foundry: Transforming the Metal Casting Industry; AI in Mechanical Engineering: A timeline of Transformation; Impact of AI on the Manufacturing Industry; Design and Development of Mobile Puncture Equipment Fitted with Tricycle For Physically Challenged People; Advanced Image Segmentation for Historical Artifact Preservation; Learning of N-code Programming Application etc.

Recommendations evolved from the two-day deliberations are as follows.

The synergy between automation and AI is the need of the hour, that paving the way for a future where technology seamlessly integrates into our daily lives, making processes faster, safer, and more efficient; Role of automation in industry and infrastructure need to be explore more, which leads to enhancing productivity, development of smart cities and seamless public utility services; AI driven data based control systems need to be implemented more, to optimise the production system, identify inefficiencies, precise demand forecasting and many more; As AI and automation technologies evolve, industries requires increased adoption of autonomous systems, intelligent production lines, and predictive maintenance, leading to reduced downtime and optimized resource use.

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Engineering Approach for Valuation of Stressed Assets

Uttar Pradesh State Centre, IEI, in collaboration with the Institution of Valuers, organized a One Day Seminar on the theme **Engineering Approach for Valuation of Stressed Assets** on 31 August 2024, at Lucknow, under



the aegis of Civil Engineering Division Board [CVDB], IEI. The seminar aimed to address the importance of applying engineering principles to the valuation of stressed assets, ensuring accurate and effective assessments for financial institutions under the SARFAESI Act 2002.

Shri Satya Prakash, presently Chairman, Uttar Pradesh State Centre welcomed the Chief Guest of the session, Shri Sanjay Ambastha, DGM, State Bank of India, and the Guest of Honour, Shri N K Das, Zonal Manager, Bank of India; dignitaries and participants. Shri Khazan Chandra, Chairman, Institution of Valuers was also present on the occasion.

Chief Guest, Shri Sanjay Ambastha emphasized the critical role of valuation in the recovery of loans by financial institutions. He stressed the importance of engineering approaches to enhance the accuracy of asset valuation, enabling higher recovery rates during auctions of stressed assets. Guest of Honour, Shri N K Das discussed the challenges financial institutions face in loan recovery and highlighted how engineering expertise can contribute to precise and reliable property valuation under the SARFAESI Act.

Er VB Singh, Member, CVDB and now President, IEI provided an in-depth explanation of the valuation process, the concept of market value and the factors influencing the assessment of stressed assets. He highlighted the necessity for appraisers to adopt engineering principles to achieve accurate valuations, ensuring the maximum possible value during auctions.

During the seminar, experts shared their perspectives on the challenges associated with the valuation of stressed assets. Key points included 'Financial institutions' efforts to ensure loan recovery through auctions', 'The importance of precise and detailed valuation under the SARFAESI Act 2002' and 'Engineering methodologies that appraisers can use to maximize the value of stressed assets during auctions'. The speakers emphasized the significance of detailed analysis and careful valuation to meet market expectations and optimize recovery for financial institutions. The Chief Guest, Shri Sanjay Ambastha, released a souvenir to commemorate the seminar. The publication captured key insights and perspectives shared during the event.

The seminar was efficiently moderated by Shri D N Sharma, Secretary, Institution of Valuers. His coordination ensured the smooth flow of sessions and active engagement from all participants.

The seminar concluded with a vote of thanks by Er Vijaya Pratap Singh, Honorary Secretary, Uttar Pradesh State Centre IEI, who expressed gratitude to the dignitaries, speakers and participants for their contributions and active involvement in making the seminar a success.

The seminar successfully highlighted the importance of integrating engineering approaches into the valuation of stressed assets. It provided valuable insights into methodologies that can optimize recovery for financial institutions while addressing the challenges in property valuation under the SARFAESI Act. The event served as a platform for knowledge sharing and professional development among appraisers and financial experts.

Applications of AI & Machine Learning

Contd. from page 4

that the future of engineering lies in the adoption of digital technologies, which have the potential to revolutionize industries and help engineers create more efficient, sustainable, and resilient systems. He expressed his hope that the insights gained from the convention would inspire attendees to push the boundaries of innovation and drive positive change in their respective fields.

Dr Lakhvir Singh, Principal of Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, in his address during the valedictory session, reflecting on the importance of engineering education and research in the contemporary world. He discussed the need for educational institutions to equip students with the necessary skills to handle the challenges posed by emerging technologies, particularly in the realm of computer science and sustainable engineering. Dr Singh highlighted the importance of a collaborative approach to education, where academic institutions, industry leaders, and government bodies work together to ensure that the engineering curriculum remains relevant and impactful.

Based on the two-day deliberation during the national Seminar, the recommendations of the National Convention are placed as under:

Ethics in AI and ML Development: Development of ethical frameworks be prioritized, that govern AI and ML applications, especially in sensitive areas such as healthcare, autonomous vehicles, and surveillance; AI-Driven Healthcare Solutions: Research and collaboration in AI applications for personalized medicine, early diagnosis, and patient monitoring be promoted on urgent basis; AI for Climate Change Mitigation: Leveraging AI and ML to model and predict environmental patterns, optimizing renewable energy use, and monitoring carbon footprints are the need of the hour; AI in Education and Workforce Development: Use of AI in education for personalized learning experiences and career development be enhanced, focusing on AI-assisted tutoring systems, language learning tools, and vocational training; AI-Powered Automation and its Impact on Employment: The potential displacement of jobs due to automation need to be addressed by formulating suitable policies that focus on reskilling workers and fostering AI-driven innovation; AI and ML in Cybersecurity for Finance, Banking, Defence and Power Sector: Continuous development of AI systems need to be focussed to detect and defend proactively against cyber threats, ensuring that AI can help predict vulnerabilities and mitigate risks in real-time; AI Regulations and Policy Development: This is the right time to formulate global and local policies for AI governance to ensure ethical development and mitigate risks.

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SDGs and the Role of Emerging Technologies: Vision and Implementation

Gorakhpur Local Centre, IEI organized a One Day Seminar on the theme **SDGs and the Role of Emerging Technologies: Vision and Implementation**, in association with Institute of Technology and Management, GIDA, Gorakhpur at Gorakhpur on 25 January, 2025 under the aegis of Interdisciplinary Coordination Committee. Representatives from IEI, engineering profession and academia and engineering students attended the Seminar and technical sessions. Prof (Dr) A K Singh, Vice Chancellor, Mahayogi Guru Gorakhnath AYUSH University, Gorakhpur graced the inaugural function as the Chief Guest. Er Jyoti Bhushan Rai, President, Madan Mohan Malaviya Alumni Association, Madan Mohan Malaviya University of Technology, [MMMUT], Gorakhpur; Prof Rakesh Kumar, Dean-Research, Madan Mohan Malaviya University of Technology, Gorakhpur; Dr Pawan Kumar Mishra, Senior Director, Construction Industry Development Council [CIDC], established by the Planning Commission, Government of India, New Delhi and Er M W Beg, Former Chief Plant Manager, Refinery Division, Indian Oil Corporation were the Guests of Honor. The event started with the welcome address delivered by Dr Narendra Kumar Singh, Chairman, Gorakhpur Local



Centre, IEI. Dr Singh, in his address, welcomed the Chief Guest, Guests of Honors, Speakers and participants from academia and industry. Er J B Rai, in his speech, invited young generation to develop new ideas for sustainable development and in alignment to the nature. Dr Pawan Kumar Mishra, well collaborated the topic of the seminar and aligning the emerging technologies with the future need of the society. The inaugural program ended with the vote of thanks, delivered by Er Pavnesh Kumar, Honorary Secretary, Gorakhpur Local Centre, IEI.

During the technical session, Dr Pawan Kumar Mishra delivered lecture on the topic 'Green Construction Technologies for Sustainable Cities'. Dr Mishra, in his lecture, highlighted the critical role of sustainable construction practices in shaping the future of urban environments. Dr Mishra, with extensive experience in the construction and skill development sector, further shared his insights on adopting green technologies to balance development and environmental preservation. Dr Mishra highlighted the importance of training construction professionals in green technologies. He shared CIDC's initiatives in this domain, including skill development programs for engineers, architects, and workers. The lecture featured

successful case studies from India and abroad, showcasing the positive impact of adopting green construction technologies in urban development projects. Er Jyoti Bhushan Rai delivered lecture on the topic 'Balancing Technological Advancements and Sustainability', drawing from his vast experience in irrigation engineering and water resource management. His address emphasized the importance of harmonizing technological progress with environmental preservation and social well-being. Er Rai discussed the role of advanced irrigation technologies such as precision irrigation, automated water management systems, and sensor-based monitoring in ensuring sustainable agricultural practices. The speaker highlighted the importance of engineers and policymakers adopting ethical practices to minimize negative environmental impacts while leveraging technological advancements. He emphasized the need for collaboration between government agencies, industries, and academia to foster sustainable technological innovations. Er Rai concluded with a call for responsible engineering and mindful technological advancements to address the growing environmental and societal challenges. He urged stakeholders to innovate while preserving natural resources for future generations, emphasizing the role of water management in sustainable development. Prof Rakesh Kumar spoke on 'Role of AI, ML and IoT in Achieving the Sustainable Development Goals (SDGs)'. His lecture explored the transformative role of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) in accelerating progress towards the UN-SDGs. He highlighted how these emerging technologies are pivotal in addressing global challenges such as healthcare access, agricultural efficiency, resource management, and climate action. Prof Kumar, in his lecture, emphasized the importance of integrating AI, ML and IoT ethically and inclusively to support marginalized communities and avoid exacerbating social inequalities. He called for robust regulatory frameworks to address risks, including data privacy concerns, algorithmic biases, and the environmental impact of technological advancements. Er M W Beg, Former Chief Plant Manager, Refinery Division, Indian Oil Corporation spoke on 'Sustainable Development Goal: Vision & Implementation'. He discussed at a length 'Industrial Energy Production and Conservation'. The lecture provided valuable insights into both industrial and domestic energy conservation strategies, emphasizing practical solutions for sustainable energy practices. The session concluded with actionable advice to contribute towards achieving SDGs through mindful energy production and consumption at all levels. Dr Krishna Kumar, Professor of Computer Science & Engineering, ITM, GIDA, Gorakhpur delivered lecture on the topic 'Assessing Sustainable Development Goals for Environmental Attainment Using Machine Learning Approaches'. Dr Krishna Kumar's lecture emphasized the role of Machine Learning (ML) in advancing environmental sustainability and achieving the Sustainable Development Goals (SDGs). He highlighted the rapid growth of the renewable energy (RE) industry and the need for innovative solutions to maximize its efficiency.

During the valedictory session, Ms Shalini Singh, Department of Computer Science, ITM Gorakhpur summed up the proceedings of deliberation. Er Pavnesh Kumar, Honorary Secretary, Gorakhpur Local Centre, IEI extended the vote of thanks to all dignitaries, guests, speakers, participants and the organizers.

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Digital Project Delivery Solutions for Building and Infrastructure

Uttar Pradesh State Centre, IEI, in collaboration with Ceinsys Tech Limited, organized a One Day Seminar on the theme **Digital Project Delivery Solutions for Building and Infrastructure** on 27 July 2024, at Lucknow, under the aegis of Civil Engineering Division Board [CVDB], IEI. The seminar aimed to showcase cutting-edge digital solutions in project delivery and explore their transformative impact on the building and infrastructure sectors.



The event commenced with the opening remarks by Er Masarrat Noor Khan, Immediate Past Chairman and Program Convener, Uttar Pradesh State Centre, IEI. Er Satya Prakash, presently Chairman, Uttar Pradesh State Centre, IEI, delivered the welcome address. He emphasized the seminar's significance in promoting digital excellence in the industry and highlighted the crucial role of Ceinsys Tech Limited in shaping the future of building and infrastructure development. Er VB Singh, Member, CVDB and now President, IEI also graced the occasion.

The Chief Guest of the program, Shri Jitendra Banga, Engineer-in-Chief (HOD), UPPWD, expressed his appreciation for the innovative solutions presented

by Ceinsys Tech Limited. He acknowledged the IEI's commitment to digital transformation and emphasized how such collaborations can revolutionize design, construction and infrastructure management. The Guest of Honour, Shri Ashok Kumar Singh, Former Engineer-in-Chief (HOD), UP Irrigation Department, highlighted the digital revolution's role in India's economic transformation. He stressed the need for digital solutions to maximize economic potential and ensure timely project delivery.

Resource person of the session, Shri Owais Ahmad Kuraishy, Vice President & State Head - Water, Ceinsys Tech Limited, spoke about the importance of digital transformation in the building and infrastructure sectors. He emphasized how Ceinsys Tech's solutions enable professionals to deliver projects efficiently, sustainably and with precision. The other speakers of the program were Ms Trupti Gandhi, Head, BIM Team, who delivered a presentation on Building Information Modeling (BIM) software, showcasing its key features and expertise and Mr Rahul Joshi, Head, Autodesk Team, who presented the latest software advancements and their role in enhancing project efficiency.

The seminar featured technical sessions with expert presentations and discussions on 'BIM and its impact on modern construction and infrastructure projects', 'Autodesk tools and their role in digital project execution', 'Case studies on the successful implementation of digital solutions in major projects' and 'The future of digital project management and the role of AI in construction'.

The seminar concluded with a vote of thanks delivered by Er Vijaya Pratap Singh, presently Honorary Secretary, UP State Centre, IEI. The event saw participation from government officials, industry experts, thought leaders and professionals from the construction and infrastructure sectors. The seminar successfully showcased the transformative power of digital technologies in project delivery, collaboration and sustainable development.

Agricultural Automations & Engineering Standards - Artificial Intelligence, Intelligent Agricultural System

Salem Local Centre, IEI, organized a One Day Seminar on the theme **Agricultural Automations & Engineering Standards - Artificial Intelligence, Intelligent Agricultural System** on 27 April 2024, at Sengunthar Engineering College, Tiruchengode, under the aegis of Agricultural Engineering Division Board [AGDB], IEI. The event aimed to foster collaboration and knowledge sharing, emphasizing the integration of agricultural automations with the rapidly evolving landscape of the Intelligent Agricultural System and AI. This report provides a comprehensive overview of the key discussions, insights, and emerging trends presented during the Seminar.

The inaugural session began with a welcome address, delivered by Dr R Satishkumar, Committee Member, Salem Local Centre, IEI. He emphasized the role of agricultural automation in solving crop production problems and its impact on economic growth and environmental sustainability. Dr C Aarthi, Organising Secretary of the event and HoD, Electronics and Communication Engineering Department, Sengunthar Engineering College introduced the theme of the Seminar to the august audience. She encapsulated the central ideas of combining Agricultural Automation technology with Artificial Intelligence and the Engineering Standards. She emphasized the collaborative potential of these technologies, highlighting their capacity to ensure secure Agricultural data management and facilitate intelligent connectivity in various industries and sectors.

The Keynote address was delivered by Dr L Durai Murugan, Business Strategy Analyst, TCS, Mumbai on the topic 'Artificial Intelligence is part of our Daily Lives'. He elaborated on the importance of integrating AI into agricultural

automation and highlighted the potential for future collaborations with IEI to develop advanced technologies. He further discussed how AI is seamlessly integrated into daily activities and its applications in agriculture. He emphasized how intelligent systems could transform traditional agricultural practices.

Dr P Rameshkumar, Professor, Electronics and Communication Engineering Department, Sengunthar Engineering College, delivered Invited Lecture on the topic 'Current Challenges in Agriculture', discussing the barriers to agricultural productivity and how AI can address these issues. Dr C Aarthi, HoD, ECE, Sengunthar Engineering College delivered an Invited Lecture on 'Benefits of AI in Agriculture', highlighting how AI improves decision-making, resource management and yield predictions. Dr C Sakthivel, HoD, Computer Science and Engineering Department, Sengunthar Engineering College spoke about 'AI and the Future of Work in Agriculture', focusing on the evolving roles and opportunities created by AI-driven systems. Er G Shalini, AI Developer, Speridian Technologies, Bangalore discussed on 'Challenges of AI in Agriculture and Solutions through AI', emphasizing real-world applications and addressing technological hurdles. Prof (Dr) Ms C Dhavamani, Honorary Secretary, Salem Local Centre proposed the vote of thanks.

The seminar successfully highlighted the intersection of agricultural automation and AI, providing valuable insights into addressing agricultural challenges with intelligent systems. The event fostered collaboration among participants and inspired future research in agricultural engineering and AI applications.



Recent Advancements in Communication Engineering

Arunachal Pradesh State Centre, IEI, organized a One Day Seminar on the theme **Recent Advancements in Communication Engineering** on 30 September 2024, at NERIST, Nirjuli, Arunachal Pradesh, under the aegis of Electronics & Telecommunication Engineering Division Board [ETDB], IEI. The event aimed to provide a platform for discussing cutting-edge developments in communication technology, focusing on topics such as 5G, IoT, satellite communications and biomedical applications.

Er Tanya Taji, Former General Manager, NEEPCO, graced the inaugural function as the Chief Guest and underlined the societal impact of communication engineering and emphasized the importance of creating more such platforms for engineers to collaborate and address practical challenges. Prof Sarsing Gao, Dean (Academics), NERIST, was present on



the dais as the Guest of Honour. In his address, he stressed the need for innovative solutions in communication engineering to support the rapidly evolving digital landscape.

Dr Nutan Kumar Dash, the then Vice-President, IEI, addressed the participants online and appreciated the sincere effort of the Organizing Committee. He further emphasized the role of advancements in 5G, IoT and satellite communications in shaping a robust and inclusive digital infrastructure.

Dr Debashish Pal, Senior Principal Scientist, CSIR-CEERI, Pilani, delivered lecture on the topic 'Generation and Applications of High Power Microwaves' where he discussed the applications of high-power microwaves in advanced

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IEI Celebrates Energy Conservation Day

The Energy Conservation Day was celebrated by the Institution on December 14, 2024. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Andaman & Nicobar



Andaman & Nicobar State Centre, IEI, observed National Energy Conservation Day 2024 in Port Mout. Er D Sathyamoorthy, Past Chairman, Andaman & Nicobar State Centre was present during the session. Commandant Naresh Kumar, Indian Coast Guard, Coast Guard Headquarters, Sri Vijaya Puram served as the resource person, delivering an engaging session with his team of senior engineers.

Assam



Assam State Centre, IEI observed Energy Conservation Day on 14 December 2024 in Guwahati. Keynote speaker of the session was Prof (Dr) Dhanapati Deka, Vice Chancellor, Bhattadev University and Professor,

Department of Energy, Tezpur University. Prof Deka delivered an insightful lecture on 'Powering Sustainability: Every Watt Counts', emphasizing green energy generation, energy conversion and management for sustainable development and Net Zero Emission goals. Corporate members actively participated in discussions following the lecture.

Delhi

Delhi State Centre, IEI observed National Energy Conservation Day on 14 December 2024 in Delhi. Dr R P Maheshwari, Former Professor, IIT Roorkee was the Chief Guest of the function and Shri Shashi Kant, Cluster Head (Northern Region), Energy Efficiency Services Limited, JV of PSU's Ministry of Power, Government of India was the Keynote speaker.

Meghalaya

Meghalaya State Centre, IEI observed National Energy Conservation Day on 14 December 2024, in Shillong. Er JB Poon, Former Chairman of the centre, delivered the welcome speech, emphasizing the need for energy efficiency and conservation. The Keynote address was delivered by Er Mefurrson Mawlieh, Former Honorary Secretary of the host Centre, who discussed the significance of adopting renewable energy sources like solar and wind power.

Tripura

Tripura State Centre, IEI observed Energy Conservation Day on 14 December 2024 in Agartala. A seminar was organized on the topic 'Harvesting Renewable Energy for Sustainable Cooling - A Key to Energy Conservation in India's Hot Humid Climate', in collaboration with TSECL, Tripura. Special Guest, Dr Tirtharaj Sen, Principal, Women's Polytechnic, spoke on India's renewable energy goals and traditional cooling methods. Keynote Speaker, Er Prithviraj Deb Choudhury, former AGM, TSECL, highlighted the growing demand for cooling and its energy impact. Special Speaker, Prof (Dr) Ranjan



Das, NIT Agartala, emphasized energy-efficient air-conditioning solutions. The seminar provided valuable insights in sustainable cooling and energy conservation. The seminar focused on adoption of energy-efficient appliances adoption of traditional cooling systems, implementation of smart technologies, promoting sustainable urban planning etc.

Uttar Pradesh



Uttar Pradesh State Centre, IEI organized Energy Conservation Day on 14 December 2024 in Lucknow. Shri Amit Kumar Srivastava, former Director Commercial, UPPCL, Lucknow graced the function as the Chief Guest. In his address, Shri

Srivastava spoke on energy conservation, reducing energy demands, etc.

LOCAL CENTRES

Bhilai

Bhilai Local Centre, IEI observed Energy Conservation Day on 18 December 2024 at Bhilai. Guest speaker, Mrs Bonya Mukherjee, General Manager, SAIL Bhilai Steel Plant,



discussed energy conservation, industrial efficiency and economy. Dr Debashis Sanyal, Professor & Dean, Department of Architecture & Planning, NIT

Raipur, delivered lecture on the topic 'Green Buildings - Energy Efficiency in Housing for Sustainable Living'. The event saw participation from industry professionals, government officials and academia, emphasizing the importance of sustainable energy practices for the future.

Bhimavaram

Bhimavaram Local Centre, IEI observed Energy Conservation Day on 14 December 2024, in hybrid mode in Bhimavaram. Chief Guest of the session was Dr G Harish Kumar Varma, Associate Professor, Department of Electrical and Electronics Engineering, SRKR Engineering College, Bhimavaram. Dr Varma delivered a Keynote address emphasizing the significance of energy conservation and sustainable practices. The event successfully engaged attendees in discussions on energy efficiency and best practices.

Kollam

Kollam Local Centre, IEI observed National Energy Conservation Day on 18 December 2024, emphasizing sustainable energy management at UKF College of Engineering & Technology, Kollam (UKFCET). The inauguration was led by Dr Jayaraju Madhavan, Principal, UKFCET, who highlighted the



role of conservation in climate change mitigation. Er Jayakrishnan KA, Former Chief Electrical Inspector, Electrical Inspectorate, Trivandrum delivered an Expert Lecture on 'Recent Developments in Energy Conservation'.

Madurai



Madurai Local Centre, IEI observed the National Energy Conservation Day on 16 December 2024 in Madurai. Chief Guest of the session was Dr L Ashok Kumar, Principal, Thiagarajar College of Engineering, Madurai. Dr Ashok Kumar delivered an insightful lecture on energy conservation, emphasizing the need for energy efficiency and renewable energy adoption to combat global warming. A discussion session followed, engaging the Corporate Members of Madurai Local Centre.

Mangalore



Mangalore Local Centre, IEI observed Energy Conservation Day on 17 December 2024, in Mangalore. Speaker of the session, Er Ramesh Bhat N, former General Manager, Projects, Mangalore Chemicals & Fertilizers Limited, delivered

an insightful talk emphasizing that energy conservation is a collective responsibility requiring action at all levels. The session concluded with an interactive discussion on sustainable practices.

Muzaffarpur

Muzaffarpur Local Centre, IEI organized a webinar on 'Energy Conservation: Need of the Hour' on 16 December 2024, to mark Energy Conservation Day. The Chief Guest and Keynote Speaker, Dr Manish, Principal, R P Sharma Institute Of Technology, Patna, stressed the need for collective responsibility in adopting sustainable energy practices. During the technical session, papers were presented on relevant topics. An E-souvenir was also published on the occasion. The event was attended by eminent engineers, faculty members and students.

Nashik



Nashik Local Centre, IEI observed National Energy Conservation Day on 14 December 2024 in Nashik. The Guest Speaker, Er Karan Racca, an independent consultant, shared insights on energy

conservation. The event successfully fostered awareness and discussion on sustainable practices, aligning with the institution's commitment to technical excellence and environmental responsibility.

North Bengal

North Bengal Local Centre, IEI observed Energy Conservation Day 2024 on 14 December 2024, in Jalpaiguri Government Engineering College, Jalpaiguri. A seminar was organized on the topic 'Powering a Sustainable Future – Embrace Energy Efficiency'. Er Shrayasi Datta,



Honorary Secretary, North Bengal Local Centre, IEI, introduced the theme, emphasizing the importance of energy efficiency in tackling climate change and resource depletion. Er Santanu Das, Professor, Department of Electrical Engineering, JGEC, highlighted optimizing energy use through smarter technologies and practices. Prof (Dr) Amitava Ray, Chairman, North Bengal Local Centre also spoke on the occasion.

Palghat



Palghat Local Centre, IEI observed Energy Conservation Day on 14 December 2024 in Palghat. Guest Speaker, Er Bijish Vijayakumar, Assistant Engineer, Small Hydel Power Project (SHEP), Peechi,

Thrissur, delivered a comprehensive speech on the importance of energy conservation, highlighting its role in reducing the energy crisis, air pollution, and global warming.

Silchar

Silchar Local Centre, IEI observed Energy Conservation Day on 14 December 2024 in Silchar. Chief Guest of the session was Dr Tanmoy Malakar, Associate Professor & Head, Electrical Engineering Department, NIT Silchar. Dr Malakar delivered

his presentation on 'Energy Conservation – Policies, Challenges & Opportunities'. Er Debayan Bhattacharjee, PhD Scholar, NIT Silchar, delivered presentation on 'Energy Conservation: A Brief Introduction', emphasizing the importance of energy efficiency. The session concluded with an interactive discussion. The event successfully raised awareness about sustainable energy practices.

Tirunelveli



Tirunelveli Local Centre, IEI observed the Energy Conservation Day on 20 December 2024 and organized a technical seminar at Einstein College of Engineering, Tirunelveli. Resource Person

of the session, Er Murugan, Assistant Executive Engineer, TANGEDCO, Regional Office, Tirunelveli delivered lecture on power generation and conservation methodologies. Er Jeyasree, Assistant Engineer, TANGEDCO, Regional Office, Tirunelveli presented insights on electrical safety and IoT-powered advancements in TNPE.

Udaipur



Udaipur Local Centre, IEI organized Energy Conservation Day 2024 on 13 December 2024, in Udaipur. Chief Guest, Er B L Khamesra, Former Managing Director, Jodhpur Vidyut Vitaran Nigam Limited, Government of Rajasthan

highlighted the rising global electricity demand and the need for energy-efficient technologies. Keynote Speaker, Er Vivek Gupta, Director & Principal Consultant, M/s LC Multisolutions, Ahmedabad, discussed practical energy-saving measures, including renewable energy adoption and energy audits. The event successfully raised awareness of energy efficiency.

Upper Assam

Upper Assam Local Centre, IEI, in collaboration with North Eastern Coalfields, Coal India Limited, Ledo, observed Energy Conservation Day 2024 on 18 December 2024 in Ledo. The event commenced with the ceremonial lamp lighting by the Chief Guest of the session, Shri Ketholehou Mere, General Manager, NEC-CIL, Margherita and Guest of Honour, Shri MP Dutta, General Manager (E&M), NEC-CIL, Margherita. During the technical session, chaired by Shri Dibakar Bhattacharjee, Ex-GM, IOCL, four research papers presented. Shri Abhishek Daga, CE IS, OIL India Ltd, Duliajan delivered presentation on 'AI for a Brighter, Greener Future'; Shri Rakesh Kalita, Manager, Excavation, NEC-CIL, Margherita on 'Govt Initiatives on Energy Efficiency & Energy Conservation'; Shri Sabir Ahmed, Dy Manager (E&M) NEC-CIL, Margherita on 'Future of NEC in Energy Conservation' and Shri Samiran Gogoi, Dy Manager (E&M) NEC-CIL, Margherita spoke on 'Pumped Storage Plants: A Key to Sustainable Energy Management in Coal Mines'. The event successfully promoted awareness of sustainable energy practices.



on 14 December 2024 at Vallabh Vidyanagar. The event featured expert talks by Dr Yogesh R Prajapati and Dr Hitesh Kumar A Bhargav, Assistant Professors, BVMEC and Er Parth Soni, Solar Expert. The session concluded with participants pledging to promote energy conservation and renewable energy use. The event successfully raised awareness about sustainable energy practices.

Visakhapatnam



Visakhapatnam Local Centre, IEI observed Energy Conservation Day 2024 on 14 December 2024 and organized a technical session in Visakhapatnam. Speaker of the session, Sri R V Ramana Rao, Former Superintending Engineer, APEPDCL/APSEB, Senior Consultant & Lead Auditor (IRS) and Certified Energy Auditor delivered a lecture on 'Every Watt Counts', emphasizing the importance of energy efficiency. The event successfully highlighted practical strategies for energy conservation.

Varanasi

Varanasi Local Centre, IEI observed Energy Conservation Day on 14 December 2024, in collaboration with Ambition Institute of Technology, Parao, Varanasi in Varanasi. Speakers of the session were Er Aparna Singh, Lecturer, Department of Electrical Engineering, Ambition Institute of Technology, Parao, Varanasi and Prof Rakesh Kumar Misra, Department of Electrical Engineering, IIT BHU Varanasi. Er Aparna Singh delivered her presentation on the topic 'Impact of Energy Usage on Climate'. Prof Rakesh Kumar Misra delivered lecture on 'Energy Efficient India'. The event observed active participation from faculty and students.

Vallabh Vidyanagar



Vallabh Vidyanagar Local Centre, IEI, in association with Birla Vishvakarma Mahavidyalaya Engineering College, [BVMEC] Vallabh Vidyanagar observed Energy Conservation Day

Recent Advancements in Communication Engineering

Contd. from page 12

communication systems and 'Reconfigurable Intelligent Surface for 5G and Beyond Applications', which explored the potential of reconfigurable intelligent surfaces in revolutionizing next-generation communication technologies.

Dr Sandeep Kumar, Central Research Laboratory, BEL, Ghaziabad, delivered presentation on 'Performance Modeling of Fading Channels', where he explained the challenges in wireless communication systems and the importance of understanding fading channel models to optimize performance. Dr Kurmendra, Assistant Professor, Rajiv Gandhi University, Rono Hills, Doimukh, delivered lecture on the topic 'MEMS Bio-sensors

and Communication' and focused on the integration of MEMS bio-sensors in medical applications and their role in enhancing communication in healthcare systems.

The seminar concluded with a vote of thanks by Dr Pukhrbamb Devachandra Singh, presently Honorary Secretary, Arunachal Pradesh State Centre, IEI who expressed gratitude to Dr Nutan Kumar Dash, Dr (Ms) Gunnu Padmavathi, Chairperson ETDB, all speakers, organizers and participants, for their guidance and support. The seminar successfully provided a comprehensive overview of advancements in communication engineering. It fostered meaningful discussions on cutting-edge technologies and their applications, paving the way for future innovations in the field.

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>.

Hundred-and-fifth Annual General Meeting of The Institution of Engineers (India)

PROCEEDINGS

The 105th Annual General Meeting (AGM) of The Institution of Engineers (India) was held at 1400 hrs on 22 Dec 2024 at Hotel Novotel Kolkata Hotel & Residences, CF-11, Action Area-I, Newtown, 700156 Kolkata, India.

Attended by 161 Corporate Members, the meeting was chaired by the President, IEI. The President welcomed the Past Presidents, President-elect and Corporate members of IEI present at the meeting and announced that under the provision of Bye-Law 46, Honorary Life Fellowship of The Institution of Engineers (India) was conferred on the Hon'ble Chief Minister of Gujarat, Shri Bhupendrabhai Patel on 8th December 2024.

Then, on being invited by the President, the Secretary and Director General read out the Notice of the meeting published in November 2024 issue of IEI News.

ITEM 1 Confirmation of Minutes of the 104th Annual General Meeting held on 29 Dec 2023 at Jabalpur

The Minutes of the 104th Annual General Meeting held on 29 Dec 2023 at Jabalpur had been circulated in the March 2024 issue of IEI News, [Vol. 30, No. 12] and again in November 2024 issue of IEI News [Vol. 31, No. 8]. President invited comments on the Minutes from the members present.

The Corporate Members present unanimously Resolved that the Minutes of the 104th Annual General Meeting of The Institution of Engineers (India) held on 29 Dec 2023 at Jabalpur be confirmed.

ITEM 2 To receive the Annual Report of the Council and the Audited Accounts of The Institution of Engineers (India) for the year ended on 31 March 2024

(a) Annual Report

President invited comments from the members present on the Annual Report of the Council for the year 2023-2024 as circulated.

The Corporate Members present unanimously Resolved that the Annual Report of the Council for the year 2023-2024 be received.

(b) Audited Accounts

President then invited comments on the Audited Accounts of The Institution of Engineers (India) for the year ended on 31 March 2024.

The Corporate Members present unanimously Resolved that the Audited Accounts of The Institution of Engineers (India) for the year ended on 31 March 2024 be received.

ITEM 3 To receive the report on the composition of the Council for the Session 2024-2025

On being requested by the President, the Secretary and Director General reported the following composition of the Council for the Session 2024-2025:

Er V B Singh, President

(1) Under provisions of Bye-Law 4(a)(ii) (02)

The following, by virtue of his being the Immediate Past President, shall become Member of the Council for the Session 2024-2025:

Dr G Ranganath

The seat of another Past President in the Council was decided to be kept vacant for session 2024-25.

(2) Under provisions of Bye-Law 4(a)(iii) (17)

The Corporate Members elected to the Council from the following State Centres for sessions 2024-2028 shall be Members of the Council for its Session 2024-2025:

Andhra Pradesh :: K N S Prakasa Rao

Haryana :: Kiran Chander Sethi

Punjab & Chandigarh :: Sukhvir Singh Mundi

Further, one Corporate Member from West Bengal State Centre would become member of the Council for the Session 2024-2025 on completion of the election process.

A number of Corporate Members present raised objections about the announcement of the name of the member elected from Andhra Pradesh State Centre, as the matter was still under examination by the Election Grievance Redressal Committee (EGRC).

Being asked by the President, the Secretary and Director General apprised the members of a direction by the President (Session 2023-24) vide his note dated 21 Dec 2024. Copy of the note which was read out by the Secretary and Director General is given at **ANNEXURE**.

The Chairman, Andhra Pradesh State Centre who expressed concern of not being communicated the decision on the election from the State Centre to the Council was assured by the President of a copy of the communication within two days.

The Corporate Members elected to the Council from the following State Centres shall continue as Members of the Council for the Session 2024-2025:

Elected for the Sessions 2023-2027:

Bihar :: Ajoy Kumar Sinha

Jharkhand :: Sanjay Sen

Madhya Pradesh :: Rakesh Kumar Rathore

Rajasthan :: Sajjan Singh Yadav

Elected for the Sessions 2022-2026:

Kerala :: Dr G Madhu

The Corporate Members elected to the Council from the following State Centres shall continue as Members of the Council for the Session 2024-2025:

Elected for the Sessions 2021-2025:

Delhi :: Devendra Gill

Gujarat :: Sandeep B Vasava

Karnataka :: Dr M Chowde Gowda

Maharashtra :: Manish Mahendra Kothari

Odisha :: Dr Nutan Kumar Dash

Tamilnadu :: Dr G Ranganath

Telangana :: M Shyamprasad Reddy

Uttar Pradesh :: V B Singh

(3) Under provisions of Bye-Law 4(a)(iv) (31)

The following members elected from 15 Engineering Divisions for the Sessions 2021-2025 shall become members of the Council for the Session 2024-2025 :

Aerospace (1) :: Dr Venkitakrishnan P V

Agricultural (1) :: Prof (Dr) Nemichandrappa M

Architectural (1) :: Mr Sandip Kumar Deb

Chemical (2) :: Dr Raghupatruni Bhima Rao

Prof (Dr) Ms Shilpa Tripathi

Civil (5)	:: Mr M Nagaraj Dr I Satyanarayana Raju Mr P Surya Prakash Dr S M Goel Dr Anil Joseph
Computer (2)	:: Dr Amit Kumar Das Prof (Dr) Chandrashekara S N
Electrical (4)	:: Mr R R Tanwar Dr S Dharmalingam Mr A Sekar Mr K K Gopalakrishnan Nair
Electronics & Telecommunication (4)	:: Dr (Ms) G Padmavathi Prof (Dr) G S Mundada Dr Aloknath De Mr S S Mutha
Environmental (1)	:: Mr J C Singhal
Marine (1)	:: Cdr (Dr) B M Bhandarkar
Mechanical (5)	:: Dr Enti Ranga Reddy Prof (Dr) Brahma Raju K Dr R Venkatesan
Metallurgical & Materials (1)	:: Mr K K Mehrotra
Mining (1)	:: Prof (Dr) Netai Chandra Dey
Production (1)	:: Dr Seeram Satyanarayana
Textile (1)	:: Dr Sadhan Chandra Ray
(4) Under provisions of Bye-Law 4(b)(i) (31)	
By virtue of being elected as Chairmen of the following State Centres for the Sessions 2024-26 and installed at the Annual General Meeting of the respective State Centre, the following persons shall become members of the Council for its Session 2024-2025:	
Andhra Pradesh	:: Prof (Dr) M L S Deva Kumar
Delhi	:: Sat Pal Singh
Haryana	:: Rajbir Singh Malik
Himachal Pradesh	:: Jaswant Singh
Madhya Pradesh	:: Ashok Kumar Sharma
Tripura	:: Paramananda Sarkar Banerjee
Punjab & Chandigarh	:: Prof (Dr) Baljit Singh Khehra
Sikkim	:: Lochan Kumar Adhikari
By virtue of being Chairmen of the following State Centres for the Sessions 2023-2025, following persons have become ex-officio members of the Council for its Session 2024-2025:	
Andaman & Nicobar	:: Ms T Shanthi
Arunachal Pradesh	:: Prof (Dr) M Chandrasekaran
Assam	:: Mahesh Barkataki
Bihar	:: Jai Prakash Narayan
Chhattisgarh	:: Prof (Dr) Sanjay Kumar
Goa	:: Anwar Isaac Khan
Gujarat	:: S J Ghelani
Jammu & Kashmir	:: Iftikhar Ahmed Hakeem
Jharkhand	:: Dr Mahesh Kumar Gupta
Karnataka	:: M Nagaraj
Kerala	:: P Balakrishnan Nair
Maharashtra	:: Anand Wamanrao Jawanjali

Manipur	:: Swamikanta Singh L
Mizoram	:: Prof (Dr) Saibal Chatterjee
Odisha	:: Prof (Dr) Sudhansu Sekhar Dash
Puducherry	:: Dr S Thirougnaname
Rajasthan	:: Mahendra K Chauhan
Tamilnadu	:: Dr V Karthikeyan
Telangana	:: Dr G Venkata Subbaiah
Uttarakhand	:: Narendra Kumar Yadav
Uttar Pradesh	:: Satya Prakash
West Bengal	:: Prof (Dr) Raju Basak

The Chairman of the Meghalaya State Centre, after assumption of office for the remaining part of the sessions 2023-2025, shall become ex-officio member of the Council for the remaining period of the session 2024-2025.

(5) Under provisions of Bye-Law 4(b)(ii) (19)

By virtue of being elected as Chairmen of the following Local Centres for the Sessions 2024-26, the following persons shall become member of the Council for its Session 2024-2025:

Nashik	:: Samir Dilip Kothari
Visakhapatnam	:: K Venkata Rama Mohana Rao
Faridabad	:: Inderdeep Singh Oberoi

By virtue of being the Chairmen of the following Local Centres for the Sessions 2023-2025, the following persons have become ex-officio members of the Council for its Session 2024-2025:

Navi Mumbai	:: Dr Nilajkumar Najukrao Deshmukh
Coimbatore	:: Prof (Dr) Krishnamoorthi J
Durgapur	:: Prof (Dr) Chandan Koner
Ghaziabad	:: Dr Satish Chandra Gupta
Kancheपुरam	:: Prof (Dr) S Ramesh
Kochi	:: Velayudhan Nair G
Ludhiana	:: Dr Arvind Dhingra
Madurai	:: Prof (Dr) P Udhaya Kumar
Mysore	:: Prof (Dr) Deepu R
Nagpur	:: Satish Sambhaji Raipure
Neyveli	:: M Venkatachalam
Pune	:: Vasant Dattatraya Pandarkar
South Gujarat	:: Dr Suryawanshi Shiwanand Rohidas
Salem	:: Dr Thangaraj K
Tiruchirappalli	:: Prof (Dr) Ravimaran S
Vadodara	:: Dr Satishkumar Kantilal Joshi

(6) Under provisions of Bye-Law 12, 13 and Regulation (17)

Corporate Members shall be co-opted in the Council for the Session 2024-2025 under provisions of Bye-Law 12, 13 and Regulation 17.

ITEM 4 To appoint Auditors for the year 2024-2025 and to fix their remuneration

President proposed that Auditors M/s D K Chhajer & Co., Chartered Accountants be appointed as Auditors of The Institution of Engineers (India) for the year 2024-2025 at a remuneration of Rs. 3,00,000 + Taxes as applicable.

It was then Resolved that M/s D K Chhajer & Co., Chartered Accountants, be appointed as Auditors of The Institution of Engineers (India) for the year 2024-2025 at a remuneration of Rs.3,00,000 + Taxes as applicable.

The meeting was declared closed at 1500 hrs.

21 Dec 2024

Result of 2024 election from Andhra Pradesh State Centre (APSC) to the Council for sessions 2024-28

Secretary & Director General

Please refer to today's meeting at 10:15 pm on the subject issue wherein following submissions of you have been noted –

1. The election under reference attracted grievances from all concerned including the winning candidate, the then Chairman & Honorary Secretary of the Centre as well as the BOS who refused time and again to accept/ endorse the result which had been available in public domain since 14 Nov 2024.
2. The matter has been under examination by the EGRC since 29 Nov 2024.
3. After the examination by the EGRC has started, the BOS sent their acceptance of the results available at the public domain.
4. The EGRC at its 18th and 19th (Special) meeting held on 16 Dec 2024 *decided to hold the result of the APSC elections in abeyance till final decision by the EGRC.* Copies of the EGRC minutes are attached.
5. Regulation 23(h) provides that - *'The Election Grievance Redressal Committee shall investigate/ conduct an enquiry/ interpret the Bye-Law or Regulation, etc as the case may be and communicate its decision to the aggrieved member within 60 days from the date of declaration of the election result.'* The scheduled date of declaration of the election result was 14 Nov 2024.
6. After the EGRC pronounces its decision within the mandated timeframe, Regulation 23(h) also provides that – *'The matter will be appealable within fifteen days from the date of decision of the Committee. The President will be the Appellate Authority and his decision will be final.'*

The President being the appellate authority has therefore no jurisdiction to intervene prior to finalization of the decision by EGRC under Regulation 23(h).

While noting the above submissions from SDG, I have also perused the minutes of the 17th, 18th and 19th (Special) meetings of the EGRC wherein I observed that the members of the EGRC had divergent opinions and the BOS has already sent their decision on the result of election of MR KOTA NAGA SURYA PRAKASA RAO (F-1184276) from APSC to the Council. In view of the imminent AGM of the Institution and in exercise of the power given under Bye-Law 29(iii), I hereby expressly direct you to announce his name while reporting the composition of the Council in the 105th AGM of the Institution and invite him to attend the 728th meeting of the Council scheduled to be held on 22 Dec 2024 at Kolkata.


Dr G Ranganath
President. IEI

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>



The Institution of Engineers (India)

IEI YOUNG ENGINEERS AWARD 2025

Notification

The Institution of Engineers (India) is a multi-disciplinary professional body of engineers with 15 engineering disciplines and over 9,00,000 members in India and abroad. The Institution was established in 1920 and was incorporated by Royal Charter in 1935. It has been in the forefront of engineering profession addressing the socio engineering problems for progress of the country. IEI functions among professional engineers, academicians, research workers to update their professional knowledge through continuous professional development. With its large international linkages and a network of 124 Centres in India and Six Overseas Chapters, the Institution has built up wide reach and large infrastructure to meet its objectives of promoting engineering in all aspects.

With a view to promote the pursuit of excellence in the field of engineering, IEI has instituted 'IEI Young Engineers Award'. The Award consists of a Plaque and a Certificate. The purpose of the Award is to recognize outstanding achievements/contributions made by young engineers in engineering research, excellence in engineering technology development, technology transfer, etc. Any engineer citizen of India not older than **35 years** of age/ women engineer citizen not older than **37 years** of age as on **March 31, 2025** is eligible for the Award, provided that he/she is a Corporate Member of IEI or has applied for IEI Membership. The IEI Young Engineers Award is presented to awardees for all the 15 Engineering Divisions of the IEI during the respective National Conventions. The awardees attending the National Convention will be provided with free accommodation & their traveling expenses (AC-3 Tier train fare by shortest route) will be reimbursed on production of original documents.

The Application Proforma may be downloaded from IEI website <https://www.ieindia.org/webui/IEI-Activities.aspx#young-engineering-awards> or scan the QR code below. Soft copy of the filled-in application proforma should be forwarded to award@ieindia.org by **April 15, 2025**. Further, six copies of the duly filled application form, along with all supporting documents, endorsed by appropriate authority should be sent to the below mentioned address so as to reach us latest by **April 25, 2025**:

Deputy Director (Technical)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700020



The envelope containing the application should be superscribed at the top as 'IEI Young Engineers Award 2025' and name of the engineering division under which the applicant desires to be considered for the Award.



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],
ISO/IEC 17025:2017 Certified, AICTE & CEA Recognized Institution)

Continuing Professional Development Programmes (CPDPs) for the Month of April 2024

Sl. No.	Name of the Course	Scheduled Dates
1.	Advances in Foundry Processes, Technology, Casting and Inspection.	07 – 11 April
2.	Bio Medical Waste Management – Handling & Safe Disposal Options with New Rules 2016	07 – 09 April
3.	Communication and Presentation Skills for Technologists, Engineers and Officers	07 – 09 April
4.	Comprehensive Course on Drilling and Blasting for Engineers & Managers	07 – 11 April
5.	Heat Treatment – Furnaces, Processes and Innovations	14 – 17 April
6.	Cyclone Resistant Building Construction	21 – 25 April
7.	3D Printing in Manufacturing	21 – 24 April
8.	Vibrations, Balancing, Alignment and Condition Monitoring of Rotating Equipments (Theory and Practical Orientation with Site Visit)	21 – 25 April
9.	Mine Legislation and Management Safe Practices in Opencast Mines	21 – 25 April
10.	Advanced Wastewater Treatment and Reuse Technologies	22 – 25 April
11.	Failure Analysis of Distribution Transformers - O&M achieving Zero Breakdown	22 – 25 April
12.	Instrumentation and Seismic Analysis of Gravity Dams with Software Applications	22 – 24 April
13.	Sustainable Solutions for Long-Term Lake Restoration	23 – 25 April
14.	Project Management & Monitoring using MS Project 2021	23 – 25 April
15.	Advances in Design & Optimization of UAV's for Industrial Applications (Defense, Mining & Construction)	28 April – 02 May
16.	Management of Training for Training & HR Managers	28 – 30 April

For detail information please contact:

Engineering Staff College of India

Old Bombay Road, Gachibowli, Hyderabad – 500 032

Landline : 040-66304100 & Mobile: +91 7337319038 Email : mis@escihyd.org / URL : <https://escihyd.org>

National Maritime Day 2025

Theme

Our Ocean, Our Obligation, Our Opportunity

05 April, 2025

The World Maritime Day theme for 2025 "Our Ocean, Our Obligation, Our Opportunity" reflects the ocean's vital role in the world economy, with more than 80% of global trade transported by sea. The ocean is a source of jobs and food for millions of people, a home for countless marine species, and a regulator of the planet's climate, mitigating the impacts of climate change.

As the largest sector operating in the ocean space, shipping has a central role to play in the protection of the marine environment and management of ocean resources.

IMO's long-standing commitment on this issue is evident in the robust global regulatory framework supporting cleaner, safer seas, and a growing portfolio of technical assistance initiatives to support ocean protection in 176 Member States.

The theme emphasizes the link to wider global efforts to protect the ocean including the conclusion of UN Agreement on the Conservation and Sustainable Use of Marine Biological Diversity of Areas beyond National Jurisdiction (BBNJ Agreement), the negotiation of a new instrument to address plastic pollution and the third UN Ocean Conference in June 2025.

The theme will allow all stakeholders to showcase the deep interconnection of shipping and IMO in the ocean space, highlighting the importance of collaboration and coordination to ensure the sustainable and safe use of ocean resources.

FORM IV

(See Rule 8 of The Registration of Newspapers (Central) Rules, 1956)

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| 6. Names and addresses of individuals who own the newspaper and partners or shareholders holding more than one percent of capital | The Institution of Engineers (India)
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I, Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary and Director General of The Institution of Engineers (India), hereby declare that the particulars given above are true to the best of my knowledge and belief.

Sd/-

Maj Gen (Dr) MJS Syali, VSM (Retd)

Signature of Publisher

Dated : March 01, 2025

IEI DIARY



Agricultural Engineering Division

All India Seminar on “**Irrigation Drainage Water Management Soil Conservation Practices Watershed Management Practices**”
Bareilly, May 23-24, 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]

Thirty-seventh National Convention of Agricultural Engineers on “**Innovation Approaches in Agricultural Engineering for Agriculture of Viksit Bharat A Road Map for Next 25 Years**”
Lucknow, August 29-30, 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]

Architectural Engineering Division

All India Seminar on “**Sustainable Urban Development Green Architectural Engineering and Smart City Planning for A Greener Future**”
Coimbatore, May 08-09, 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]

Aerospace Engineering Division

One Day Seminar on “**Safety and Reliability in Space Systems**”
Ghaziabad, April 25 2025

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15, Shopping Complex, ALT Centre, Rajnagar, Ghaziabad 201002, Ph: 0120-2702673, Email: ghaziabadlc@ieindia.org

All India Workshop on “**Advancement of Drone Technology Transforming Industries in 2025**”
Hosur, July 15-16, 2025

The Honorary Secretary, IEI, Hosur Local Centre, No. 69, Kamaraj Nagar, Kumudepall, Near, Adhiyamaan College of Engineering, Hosur, 635109, Tamilnadu [Email: hosurhc@ieindia.org]

All India Seminar on “**Applications of Smart Materials in Aerospace Defense**”
Coimbatore, July 24-25, 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]

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]

Chemical Engineering Division

All India Workshop on “**Hydrogen Economy- Opportunities & Challenges**”
Kochi, July 25-26, 2025

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

Civil Engineering Division

One Day Seminar on ‘**Instrumentation and Sensor Application in Civil Engineering**’
Puducherry, April 04, 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail : puducherryesc@ieindia.org, Website : www.ieipsc.org]

All India Seminar on ‘**Building A Greener Future Modern Construction Practices for Sustainability**’
Faridabad, April 10-11, 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 [☎: 01292245008 E-mail : faridabadlc@ieindia.org, Websites: www.ieifbdlc.in]

All India Seminar on “**3D Printing in Civil Engineering: Advancements Design and Sustainability**”
Coimbatore, July 28-29, 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 “**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: nagpurhc@ieindia.org, Website: ieinagpur.net]

Computer Engineering Division

One Day Seminar on ‘**Artificial Intelligence, Machine Learning And Its Application**’
Kanpur, May 24, 2025

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTU Campus, Nawabganj, Kanpur 208002 [Mobile: 9140018277, E-mail:

kanpurhc@ieindia.org, Website: www.ieikanpur.org]

One Day Seminar on ‘**Exploring Quantum Frontiers The Future Of Computation**’
Coimbatore, June 27, 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]

One Day Seminar on ‘**Smart Cloud Based Meditation System With Adaptive AI for Holistic Wellbeing**’
Erode, July 03, 2025

The Honorary Secretary, IEI, Erode Local Centre, Sri Ramakrishna Seva Samithi Religious Library, Thindal Murugan Temple Premises, Thindal, Erode 638012, Tamilnadu [E-mail : ieierode2015@gmail.com, erodelc@ieindia.org, Web: www.ieierode.org]

One Day Seminar on ‘**Computational Intelligence in Healthcare Systems**’
Hyderabad, August 03, 2025

The Honorary Secretary, IEI, Telangana State Centre, 6-2-910, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004, Telangana [☎: 040-23314969, E-mail: telanganasc@ieindia.org]

All India Workshop on “**Android and IOS App Development for Preservation and Revitalization of South Dravidian Endangered**”
Kattankulathur, August 07-08, 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 “**Quantum Computing Bridging Theory Research and Applications**”
Salem, August 08-09, 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: salemhc@ieindia.org, Website: www.ieislsc.com]

Thirty-eighth National Convention of Computer Engineers on “**AI Data Science & Predictive Analytics in Engineering Innovating The Future**”
Durgapur, November 22-23 2025

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

All India Seminar on “**Artificial Intelligence Design Thinking and Innovation**”
Agartala, December 19-20, 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]

Electrical Engineering Division

One Day Seminar on "EV Charging System, Transforming Tomorrows Mobility"

Navi Mumbai, April 19, 2025

The Honorary Secretary, IEI, Navi Mumbai Local Centre, Plot No.106, Sector 15, C.B.D Belapur, Navi Mumbai 400614 [☎: 022-49706724, E-mail:navimumbailc@ieindia.org,Website: www.ieinmlc.org]

One Day Seminar on "AI in Electrical Engineering"

Durgapur, April 23, 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 "Opportunities and Challenges in Electric Vehicles EV in Bharat"

Jaipur, April 26-27, 2025

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

Ond Day Seminar on "Electric Vehicles: Steering towards a Greener Future"

Puducherry, May 13, 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail : puducherrysc@ieindia.org, Website : www.ieipsc.org]

All India Seminar on "Electric Vehicles and Their Impact on Power Grid Infrastructure"

Agartala, July 25-26, 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]

All India Seminar on "Electric Vehicles the Future of Transportation in Sustainable Energy Systems"

Amravati, July 26-27, 2025

The Honorary Secretary, IEI, Amravati Local Centre, Govt. Polytechnic Premises, Opp Venus Plaza, Shegaon Naka, VMV Road, Amravati 444603 [Ph : 9325444884, E-mail: amravatilc@ieindia.org, Website: www.ieiamt.org]

All India Workshop on "Energy Sphere IoT Powered Smart Grids for Sustainable Cities and Green Power"

Chennai, August 29-30, 2025

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: 044-25360614 / 9962950333, E-mail: ieitamilnadu@gmail.com; tnscc@ieindia.org, Website: www.ieitnsc.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]

Environmental Engineering Division

All India Seminar on "AI Based Solar Photovoltaic Systems for Greener Environment"

Bhimavaram, April 15-16, 2025

The Honorary Secretary, IEI, Bhimavaram Local Centre, First Floor, General Emenities Building, SRKR, Engineering College, PO: Chinnaamiram, Dist- West Godavari, Bhimavaram 534204 [☎: 08816-233522, E-mail: bhimavaramlc@ieindia.org]

All India Seminar on "Blue Planet, Green Future: The Critical Role of Water in Maintaining Biodiversity and Environment"

Thiruvananthapuram, June 10-11 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 "Drone Remote Sensing Satellite and Artificial Intelligence Based on Environment Management Solution"

Salem, July 29-30, 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]

Thirty-ninth National Convention of Environmental Engineers on "Environment and Digital World for Sustainable Development"

Chennai, August 22-23 2025

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: 044-25360614 / 9962950333, E-mail: ieitamilnadu@gmail.com; tnscc@ieindia.org, Website: www.ieitnsc.org]

All India Seminar on "Air Pollution and Control in Factories and Industries"

Hosur, August 28-29, 2025

The Honorary Secretary, IEI, Hosur Local Centre, No. 69, Kamaraj Nagar, Kumudepall, Near, Adhiyamaan College of Engineering, Hosur, 635109, Tamilnadu [Email: hosurc@ieindia.org]

All India Workshop on "Smart Solutions for Environmental Applications"

Dhanbad, November 03-04, 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

Marine Engineering Division

One Day Seminar on "Assessment of Maritime Security, Impacts of Maritime Transport on Marine Environment and Economics"

Thiruvananthapuram, April 29 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]

Mechanical Engineering Division

All India Seminar on "Rural Industrialization"

Bareilly, April 29-30 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]

One Day Seminar on "Resources for Power Plant Design"

Bareilly, April 11, 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]

One day Workshop on "Artificial Intelligence and Machine Learning Applications in Mechanical Engineering"

Puducherry, April 17, 2025

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701, E-mail : puducherrysc@ieindia.org, Website : www.ieipsc.org]

One Day Workshop on "Boiler and Steam Turbine - Best Practices"

Surat, May 02 2025

The Honorary Secretary, IEI, South Gujarat Local Centre, Mahida Bhavan, Opp SVNIT, Ichchhanath, Surat, 395007 [E-mail: sglc@ieindia.org, Web:www.ieisurat.org]

One Day Workshop on "Future of Steelmaking Navigating the Digital Revolution with AI and Machine Learning"

Salem, May 09, 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]

One Day Seminar on "Robotics and Automation - Shaping the Future of Engineering"

Agartala, June 07 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]

All India Seminar on "Role of AI & ML for Sustainable Development – Vikshit Bharat@2047"

Belapur, July 18-19 2025

The Honorary Secretary, IEI, Navi Mumbai Local Centre, Plot No.106, Sector 15, C.B.D Belapur, Navi Mumbai 400614, [☎: 022-49706724, E-mail: navimumbailc@ieindia.org, Website: www.ieinmlc.org]

Fortieth National Convention of Mechanical Engineers on "Recent Advances in Mechanical Engineering"

Durgapur, August 23-24, 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 "Additive Manufacturing for Enhanced Productivity"

Agartala, September 05-06, 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]

All India Seminar on "Comprehensive Insights into Vibration-Based Condition Monitoring: Theory, Techniques, Applications, and Case Studies for Mechanical Systems"

Coimbatore, September 19-20, 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]

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 "Metallurgy for Non-metallurgists"

Hosur, April 26-27, 2025

The Honorary Secretary, IEI, Hosur Local Centre, No. 69, Kamaraj Nagar, Kumudepall, Near, Adhiyamaan College of Engineering, Hosur, 635109, Tamilnadu [Email: hosurc@ieindia.org]

All India Seminar on "The Role of Metallurgy in Renewable Energy Technologies"

Thiruvananthapuram, May 13-14 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]

Thirty-eighth National Convention of Metallurgical & Materials Engineers on "Capacity Building in Process Metallurgy"

Rourkela, July 26-27, 2025

The Honorary Secretary, IEI, Rourkela Local Centre, National Institute of Technology Campus, Rourkela 769008, Odisha [☎: 0661-2472709, E-mail: rourkelalc@ieindia.org]

Mining Engineering Division

All India Seminar on "Smart Mining and Sustainable Development Emerging Trends in ML IoT and AI"

Durgapur, May 09-10, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B -Zone, Dist. Paschim Bardhaman, West Bengal 713205 [Mobile:94759 12594, E-mail: durgapurlc@ieindia.org; Website: www.ieidurgapurlc.org]

Production Engineering Division

One Day Seminar on "Innovations and Best Practices in Production Management"

Kanchepuram, April 09 2025

The Honorary Secretary, IEI, Kanchepuram Local Centre, Jerusalem College of Engineering Campus, Velachery Main Road, Narayanapuram, Pallikaranai, Chennai 600100 [Mobile: 9789924739, Whatapp number: 8870531609, Email: kanchepuramlc@ieindia.org; Website: www.ieindiaklc.org]

Thirty-ninth National Convention of Production Engineers on "Recent Advancement and Challenges on the Fabrication of Semiconductor Chips in India"

Madurai, May 23-24, 2025

The Honorary Secretary, IEI, Madurai Local Centre, Er TM Jambulingam Bhavan, No. 1, Vivekananda Nagar, 120 Feet Road, Surveyor Colony, K Pudur, Madurai 625007 [☎: 0452-4373067, E-mail: madurailc@ieindia.org, Website: www.ieimadurailc.org]

All India Seminar on "Unlocking the Future with 3D Printing and Additive Manufacturing"

Kanchepuram, July 09-10, 2025

The Honorary Secretary, IEI, Kanchepuram Local Centre, Jerusalem College of Engineering Campus, Velachery Main Road, Narayanapuram, Pallikaranai, Chennai 600100 [Mobile: 9789924739, Whatapp number: 8870531609, Email: kanchepuramlc@ieindia.org; Website: www.ieindiaklc.org]

All India Seminar on "Nanotechnology for Industrial Applications"

Chennai, June 27-28, 2025

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: 044-25360614 / 9962950333, E-mail: ieitamilnadu@gmail.com; tnscc@ieindia.org, Website: www.ieitnsc.org]

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

One Day Seminar on "Building the Future: An Introduction to Smart Manufacturing"

Coimbatore, July 18, 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]

Textile Engineering Division

Thirty-eighth National Convention of Textile Engineers on "Emerging Challenges of Sustainable Textiles"

Ghaziabad, September 05-06, 2025

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15, Shopping Complex, ALT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2702673, Email: ghaziabadlc@ieindia.org]

Interdisciplinary Coordination Committee

All India Seminar on 'Sustainable Technologies and Green Initiatives'

Durgapur, April 06-07, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B -Zone, Dist. Paschim Bardhaman, West Bengal 713205 [Mobile: 94759 12594, E-mail: durgapurlc@ieindia.org; Website: www.ieidurgapurlc.org]

All India Seminar on "Innovations in Science and Technology"

Gorakhpur, April 24-25, 2025

The Honorary Secretary, IEI, Gorakhpur Local Centre, Administrative Block, Institute of Technology & Management, AL-1, Sector 7, GIDA, Gorakhpur 273209 [Mobile: 8707269768, Email: gorakhpurc@ieindia.org, Website: www.ieigorakhpur.org]

One Day Seminar on "Improving Quality and Productivity by using AI Tools"

Sunabeda, April 26, 2025

The Honorary Secretary, IEI, Sunabeda Local Centre, Qtr No: M-8, Post Box No. 11, HAL Township, Sunabeda 763002, Dist - Koraput, Odisha, Ph: 06853-222488, E-mail:sunabedalc@ieindia.org

One Day Seminar on "Human Re-engineering"

Ghaziabad, May 10, 2025

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15, Shopping Complex, ALT Centre, Rajnagar, Ghaziabad 201002, Ph: 0120-2702673, Email: ghaziabadlc@ieindia.org

Inauguration of Guest House at Durgapur Local Centre, IEI

The **IEI Guest House** was inaugurated at **Durgapur Local Centre, IEI**, Durgapur on 22 February 2025 by Er VB Singh, President, IEI. The event witnessed the esteemed presence of Er Sisir Kumar Banerjee, Past President, IEI and Prof (Dr) Sadhan Chandra Ray, Council Member, IEI along with distinguished dignitaries and corporate members. In his address, Er VB Singh emphasized the importance of this new facility in enhancing the services and hospitality of the Durgapur Local Centre, IEI. Er Sisir Kumar Banerjee and Prof (Dr) Sadhan Chandra Ray acknowledged the dedicated efforts behind the project and the benefits it would provide to the members and visiting dignitaries. The event concluded with a vote of thanks by Prof (Dr) Chandan Koner, Chairman, Durgapur Local Centre, IEI, appreciating the contributions of all stakeholders involved in making the project a success.



Celebration of 27th Foundation Day of Amravati Local Centre

Amravati Local Centre, IEI celebrated its 27th Foundation Day [07 January, 2025] on 07 February 2025 at Amravati. The celebration was graced by Er VB Singh, President, IEI. On the occasion, the Library & Study Centre of Amravati Local Centre was inaugurated by Er VB Singh, President, IEI. In his address, Er VB Singh highlighted the vibrancy and active contributions of the Amravati Local Centre in organizing technical activities. The event featured a Keynote Lecture on 'Integrating Human Perspective into Technological Development' by Prof (Dr) Vinayak Deshpande, Vice Chancellor, G H Raisonni University, Amravati. Er Anand Wamanrao Jawanjal, Chairman, Maharashtra State Centre, IEI and Chairman, Electrical Engineering Division Board [ELDB], IEI attended the event as the Guest of Honour and appreciated the Host Centre's impactful initiatives since its inception. Er Sunil Gorulal Rathi, Chairman, Amravati Local Centre, IEI, elaborated on various ongoing activities of Amravati Local Centre. Er Ram Vittalrao Vighe, Honorary Secretary of the Centre, delivered the vote of thanks. Other dignitaries



attending the event included Er Satish Sambhaji Raipure, Chairman, Nagpur Local Centre, IEI; and Er Milind Anant Pathak, Immediate Past Chairman, Nagpur Local Centre, IEI. The event reinforced the significance of human values in the era of technological advancements.



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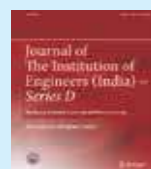
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President : Er VB Singh

Editor : Maj Gen (Dr) MJS Syali, VSM (Retd)

Special Contributors: Mr S Chakraverty, Dr K Sen
Mr D Nath, Ms H Roy, Mr S Bagchi, Mr Joydeep
Bhattacharya, Ms Tania Kumar

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Telephones: 91-33-40106299/248/228/215; Web: <http://www.ieindia.org>; E-mail: iei.technical@gmail.com