



IEI NEWS

November 2025

Innovative Approaches in Agricultural Engineering for Agriculture

3

IEI Journals Receive Recognition at Springer Nature Symposium 2025

4

Environment and Digital World for Sustainable Development

5

Shaping the Future: Innovations in 3D and 4D Printing Technologies

6

IEI Diary

10

A CENTURY OF SERVICE TO THE NATION

Volume 32

Number 8

WFEO General Assembly & Global Engineering Congress

The Indian delegation comprising Er VB Singh, President, The Institution of Engineers (India) and Leader of the Delegation; Er Ashok Kumar Basa, Past President, IEI & Executive Vice President, WFEO; Er Navinchandra Bhagwanji Vasoya, Past President, IEI & National Member, Executive Council, WFEO; and Padma Shri Er S S Rathore, Member, President's Advisors Committee, WFEO, participated in the World Federation of Engineering Organizations (WFEO) General Assembly and Global Engineering Congress held in Shanghai from 12 to 17 October 2025. The event was co-hosted by the World Federation of Engineering Organizations (WFEO), the China Association for Science and Technology (CAST), the Chinese Academy of Engineering, and the Shanghai Municipal People's Government.



The event commenced on 12 October 2025, with a meeting between the WFEO Executive Board and the China Association of Science and Technology (CAST), led respectively by WFEO President Er Mustafa B Shehu and Prof WAN Gang, Chair, CAST. Er Ashok Basa, as a Board Member, attended this meeting where both sides underscored the importance of the enduring partnership between WFEO and CAST for advancing global engineering collaboration.

Contd. on page 2

From the President's Desk.....

A Century of Television: A Medium That Continues to Inspire



As I pen what will be my final message in this tenure as President, I could find no subject more intriguing and fitting than the story of television—a medium that, much like our Institution, has continuously reinvented itself while staying true to its core purpose of connecting people and expanding human possibility.

This year marks a remarkable milestone in the journey of innovation. A hundred years ago, John Logie Baird revealed the first recognizable television image—an unassuming, flickering portrait of his laboratory assistant. It was a modest beginning for what would become one of the world's most influential and trusted mediums. As we celebrate the centenary of that breakthrough, we are reminded that television has always been more than technology. It has been a bridge across distances, cultures, and generations. Even today, amid sweeping digital transformation, its mission remains unchanged: to inform, to entertain, and to unite.

Recent advances have accelerated this transformation. Artificial intelligence, high-speed connectivity, cloud platforms, and virtual and augmented reality have redefined how stories are created and experienced. The rise of smart TVs, seamlessly merging broadcast channels with apps, personalized dashboards, and AI-driven content suggestions, has placed an entire universe of information and entertainment at the viewer's fingertips.

This year also saw a decisive leap with Brazil's launch of TV 3.0, integrating over-the-air signals with broadband capabilities. Similar transitions across the world promise a future where television becomes more immersive, interactive, and responsive to individual preferences.

Yet one truth remains constant: content is king. Technology serves as an enabler, but the heart of television lies in the richness and relevance of what appears on the screen. With countless choices today, intelligent discovery—powered by AI—has become indispensable. It organizes vast archives,

Contd. on page 4

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

26 November 2025

To

All Corporate Members of IEI

The 106th Annual General Meeting of The Institution of Engineers (India) will be held at the **National Institute of Technology, Durgapur** on **21 December 2025 at 1500 hrs.**

AGENDA

- To confirm the Minutes of the 105th Annual General Meeting held on 22 December 2024 at Kolkata, already circulated in February 2025 issue of IEI News, Vol. 31, No. 11.
- To receive the Annual Report of the Council and the Audited Accounts of IEI for the year ended on 31 March 2025.
- To receive the Report of the Council on election of the President and also the composition of the IEI Council for the Session 2025-2026.
- To appoint the Auditors for the year 2025-2026 and to fix their remuneration.

Maj Gen (Dr) M J S Syali, VSM (Retd)
Secretary and Director General

WFEO General Assembly & Global Engineering Congress

Contd. from page 1

The Opening Ceremony on 13 October was held in a grand manner at the Shanghai Expo Center, graced by dignitaries including Mr Ding Xuexiang, Vice Premier of China. A congratulatory message from UN Secretary-General, António Guterres, was also read on the occasion. The Indian delegation received a warm welcome from the organizers and participated in three plenary sessions as well as the President's Advisors Committee Meeting, attended by Padma Shri S S Rathore as a Member and Er N B Vasoya as an observer.



On 14 October, the Strategic Planning Committee (SPC) meeting, chaired by Er Ashok Basa, was convened, with participation from international members and the Indian delegation led by Er VB Singh. The Committee's report was later presented to the WFEO Executive Council and General Assembly. Er N B Vasoya also attended the Awards Committee meeting as a Member. The Indian delegation actively participated in the four parallel thematic forums of the World Engineering Congress (WEC). The Executive Board and Finance Committee (FC) meetings were held later that afternoon, attended by Er Basa in his capacity as a Board and Finance Committee Member.

A bilateral meeting was held between the IEI delegation and the leadership of CAST/CSE on 15 October 2025 from 10:30 to 11:30 (Shanghai Time, GMT+8) at the Shanghai Expo Center, the main WFEO event venue.

The meeting was attended by:

- Er. VB Singh, President, The Institution of Engineers (India)
- Er. Ashok Kumar Basa, Past President, IEI & Executive Vice President, WFEO
- Er. Navinchandra Bhagwanji Vasoya, Past President, IEI & National Member, Executive Council, WFEO

The IEI delegation was warmly received by Dr. Zhang Bin, Director General, International Affairs Department, CAST & Deputy Secretary-General, CSE. Dr Zhang outlined the pivotal role of CAST and CSE in China's engineering development. Er VB Singh elaborated on IEI's century-long legacy, its governance structure, network of State and Local Centres, and contributions to technical advancement in India. Er Basa recalled the longstanding relationship between IEI and CAST, while Er Vasoya emphasized deepening collaboration, particularly in capacity building through ESCI.

The key points of discussion included:

Establishing a bilateral long-term cooperation and exchange mechanism:

Both sides expressed interest in exploring a Memorandum of Understanding (MoU) focusing on engineering capacity building, exchange programs for young engineers, and joint development of Continuing Professional Development (CPD) resources.

Enhancing collaboration within multilateral frameworks: Both institutions agreed to strengthen synergies under multilateral initiatives, especially within the context of the Global South and the Federation of Engineering Institutions of BRICS (FEIBRICS).

The meetings of the WFEO–UN Relationship Committee and other Standing Technical Committees were also conducted on 15 October. The Executive Council Meeting held on 16 October reviewed and approved the reports of the President, Executive Director, Treasurer, and Internal Auditor, along with the audited accounts for 2024, the budget estimates for 2025, and the draft budget for 2026–27. A presentation on the "Climate Change Mitigation Best Practice Project" was also delivered. Er Basa, as Chair of the SPC, presented the Committee's report highlighting key achievements for 2022–25.



The General Assembly convened on 17 October 2025, during which elections were held for key WFEO leadership positions. Dr K N Gunalan, nominated by the Engineering Societies of America and Member of the American Society of Civil Engineers (ASCE), was elected as President (Elect) and will become WFEO President for a 2-year term, 2027-2029. Mr Firas Bou Diab, nominated by the Federation of Lebanese Engineers, WFEO, was elected for a 4-year term, 2025-2029 as the Executive Vice President, WFEO. In his inaugural address, Dr Gunalan emphasized inclusivity and sustainability as guiding principles for WFEO's future initiatives.

Reports from various committees, including the WFEO Academy and Climate Change Education Project, were presented. The WFEO Code of Practice – Principles of Climate Adaptation and Resilience was approved, marking an important milestone. Also, the Shanghai Declaration "Taking Action: Engineering Shapes a Green Future" was signed.

The proceedings concluded with the ceremonial Transmission of Leadership, wherein Mr. Seng Chuan Tan (Singapore) assumed charge as the new President of WFEO, succeeding Mr Mustafa B Shehu (Nigeria) for the 2025-2027 biennium.

The choice of the host for the WFEO 2027 General Assembly Meetings and the World Engineers Convention 2027 was finalized. The proposal put forward by the Society of Engineers – UAE was chosen, and the 2027 meetings and the World Engineers Convention will be held in Dubai.

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>

Innovative Approaches in Agricultural Engineering for Agriculture of Viksit Bharat – A Roadmap till 2047

The **Uttar Pradesh State Centre**, IEI organized the 37th National Convention of Agricultural Engineers at Lucknow, under the aegis of Agricultural Engineering Division Board (AGDB), IEI during 29-30 August 2025. A National Seminar was organized concurrently on the theme **Innovative Approaches in Agricultural Engineering for Agriculture of Viksit Bharat – A Roadmap till 2047**. The Convention brought together distinguished academicians, scientists, engineers and policymakers from across India to discuss innovations and technologies driving the nation's agricultural transformation.

The inaugural session began with the lighting of the ceremonial lamp. Earlier, Er Satya Prakash, Chairman, Uttar Pradesh State Centre, IEI welcomed the dignitaries and participants and shared his views on the vital role of agricultural engineers in realizing the dream of Viksit Bharat. Dr Jaswant Singh, Organising Secretary, briefed about the 105 years legacy of IEI and the contributions of the Uttar Pradesh State Centre the oldest centre of IEI. Dr R C Srivastava, Convener, emphasized the need for innovation and technological inputs to enhance agricultural productivity and sustainability.

Hon'ble Shri Brajesh Pathak, Deputy Chief Minister, Government of Uttar Pradesh, graced the inaugural function as the Chief Guest and inaugurated the event. In his address, he highlighted that agriculture remains the backbone of India's economy and noted that farmers' incomes have significantly increased through the use of modern agricultural technologies and government welfare schemes. He urged agricultural engineers to focus on achieving a 7% growth rate in the agriculture sector to meet India's \$30 trillion GDP target by 2047.

Er VB Singh, President, IEI graced the occasion as the Guest of Honour. In his address, President, IEI spoke about the steady rise in farmers' incomes due to agricultural engineering and technological innovations. Guest of Honour, Prof (Dr) S W Akhtar, Chancellor, Integral University, Lucknow, emphasized the importance of research focusing on small and marginal farmers and reaffirmed the Government's commitment to doubling farmers' incomes. The inaugural session was presided over by Er Jai Prakash Narayan, Chairman, AGDB, IEI.

On the occasion, Er Pratik Ranjan Chaurasia, Former Chief Engineer/HOD, Minor Irrigation Department, Government of UP; Dr Kanchan Kumar Singh, Former Assistant Director General (Engineering), ICAR and Dr Ambrish Kumar, Principal Scientist, ICAR - Indian Institute of Soil and Water Conservation, Dehradun, Uttarakhand were felicitated as Eminent Engineering Personalities in recognition of their eminence and contribution to the profession of Agricultural Engineering. The IEI Young Engineers Award in Agricultural Engineering Division for the year 2025 were presented to Dr Doppalapudi Srigiri, Assistant Professor, College of Agricultural Engineering Madakasira, Madakasira, Andhra Pradesh; and Dr Jadhav Mahesh Laxman, Assistant Professor, Farm Machinery and Power, College of Agricultural Engineering and Technology, Dr Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra in recognition of their contributions in the field of Agricultural Engineering.

The Convention witnessed participation of eminent agricultural scientists and engineers, including Dr S N Jha, Deputy Director General (Engineering), Indian Council of Agricultural Research, New Delhi; Dr I M Mishra, Vice Chancellor, Vasantryao Naik Marathwada Krishi Vidyapeeth Parbhani, Maharashtra; Dr M L Gaur, Former Vice Chancellor, Dr C V Raman University, Vaishali, Bihar; Dr Bangali Baboo, Former National Director, ICAR - NAIP; Dr R C Srivastava, Former Vice Chancellor, Dr Rajendra Prasad Central Agricultural University, PUSA, Samastipur, Bihar; and so on.

Dr Nutan Kumar Dash, Former Vice President, IEI and Member, AGDB, IEI; Prof (Dr) M Nemichandrapa, Member, AGDB, IEI and Er Vasant Dattatraya Pandarkar, Member, AGDB, IEI were present on the occasion and shared valuable insights on mechanization, precision agriculture and sustainable farming practices. A Proceedings was released on the dais on the occasion. Er Vijaya Pratap Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI proposed the vote of thanks.

The Rathindranath Tagore Memorial Lecture was delivered by Dr Shyam Narayan Jha, Deputy Director General (Agricultural Engineering), ICAR, New Delhi, on the topic 'Agricultural Engineering for Viksit Bharat'.

The State-of-the-Art Lecture was presented by Dr Bangali Baboo, Former National Director, NAIP (World Bank & ICAR), New Delhi, on 'Policy Environment and Farm Engineering for Viksit Bharat Agriculture @ 2047'. Both lectures highlighted the critical role of technology, policy and innovation in shaping India's agricultural future.

A panel discussion was organized on the occasion on the future of Agricultural Engineering.

The two-day event comprised six technical sessions, during which 35

papers were presented by experts, scientists and academicians. Prof (Dr) Indra Mani, Vice Chancellor, Vasantryao Naik Marathwada Krishi Vidyapeeth delivered Invited lecture on 'Recent Advancements in Farm Mechanization with a Focus on Drone Technology'. Prof (Dr) Murari Lal Gaur, Former Vice Chancellor, Dr C V Raman University delivered Invited lecture on 'From Sensors to Smart Villages: Reimagining Engineering Roles in Agriculture, Water and Climate Resilience'. Dr Kamlesh N Tiwari, Former Professor (Soil and Water Engineering), Department of Agriculture and Food Engineering, IIT Kharagpur and Former Adjunct Professor, IIT Roorkee on 'Recent Advances in Micro Irrigation Technology'. Dr K N Agarwal, Project Coordinator, AICRP on Farm Implements and Machinery, ICAR - Central Institute of Agricultural Engineering, Bhopal (MP) on 'Agriculture 4.0: Innovations and Automation for Sustainable Mechanization'. Dr Shiv Pratap Singh, Project Coordinator, AICRP on Mechanization of Animal Husbandry (formerly UAE), ICAR - Central Institute of Agricultural Engineering, Bhopal on the topic 'Application of Advanced Technologies for Mechanization of Animal Husbandry'. Dr Sukhbir Singh, Project Coordinator, AICRP on Ergonomics and Safety in Agriculture and Allied Sectors (ESAAS), ICAR - Central Institute of Agricultural Engineering, Bhopal (MP) on 'Farm Mechanization Technologies for Small and Hill Farmers - Gender Perspective'. Dr V P Chaudhry, HOD (AMD), ICAR - Central Institute of Agricultural Engineering, Bhopal on 'Mechanization of Horticultural Crops: Status and Challenges'. The presentations and discussions emphasized topics such as precision farming, renewable energy, drone applications and digital agriculture systems, all aligning with the vision of Viksit Bharat 2047.

The valedictory session was chaired by Er Satya Prakash and was graced by Er Jai Prakash Narayan, Prof (Dr) M Nemichandrapa, Dr Nutan Kumar Dash, Er Vasant Dattatraya Pandarkar, Dr R C Srivastava, Dr Jaswant Singh, and Er K P Tripathi, Convener (Technical). Er Vijaya Pratap Singh proposed the vote of thanks.

Recommendations emanating from the two-day deliberation, include:

Separate Directorate of Agricultural Engineering needs to be established in every state.

Need of the farmer and the research should be properly integrated as it is observed that presently, agricultural research is mainly aimed at research for publication.



IEI Journals Receive Recognition at Springer Nature Symposium 2025

The Institution of Engineers (India) [IEI] achieved a significant milestone in its publishing initiatives during the Springer Nature Annual Journal Development Symposium 2025, held on 30 October 2025 at Delhi. Two of IEI's journals—Series A and Series D—were recognised for exemplary



On behalf of IEI, Prof (Dr) Shilpa Tripathi, Chairperson, CATE, IEI, and Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General, IEI, received the awards from Ms Fiona McKenzie, Vice President, Springer Nature.

performance and noteworthy impact in scholarly publishing. The IEI Journal Series A was nominated for the “Author Experience Award”, acknowledging significant improvements in editorial support, transparency of processes, and enhanced author engagement. The Series D Journal was conferred with the “Growth Impact Award” for its remarkable rise in research submissions, global readership and citation impact leading to an increase in the number of issues from two to three.

The awards were received on behalf of IEI by Prof. (Dr.) Shilpa Tripathi, Chairperson, Committee for Advancement of Engineering and Technology (CATE), and Maj Gen (Dr.) MJS Syali, Secretary & Director General, IEI. The symposium brought together distinguished editors-in-chief, publishing leaders and society partners to discuss emerging trends in research communication, visibility enhancement, indexing mechanisms and best practices in journal development.

IEI embarked on a transformative publishing journey in 2011, when the IEI



Council strategically decided to transition from stand-alone publication of journals across 15 engineering disciplines to publication in collaboration with Springer India Ltd. The 15 discipline-based journals were consolidated into five peer-reviewed Series (A–E), thereby aligning IEI's publication platform with global standards. By 2016, all five series obtained Scopus Indexing, demonstrating the Institution's commitment to quality dissemination of engineering research and service excellence extended to its Corporate Members and the research community. IEI expresses sincere appreciation to its Editorial Boards for their dedicated academic stewardship, to Authors for placing their confidence in IEI's publication platform and contributing their research knowledge, and Reviewers and Readers for enriching the impact and outreach of the journals. These achievements reinforce IEI's commitment to fostering impactful engineering research and advancing global publication standards.

Discount at the Samsung e-store for IEI Corporate Members

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

From the President's Desk.....

Contd. on page 1

refines recommendations, and helps viewers navigate an overwhelming landscape of options.

Accessibility represents another powerful frontier. Around 15 per cent of the world's population lives with some form of disability. AI-driven captioning, live audio description, automated translation, and computer-generated sign-language avatars are making television more inclusive than ever. These innovations enrich not only those who depend on them, but elevate the experience for all. Looking ahead, real-time multilingual translation, interactive storytelling, hybrid broadcast-Internet ecosystems, and ever-evolving smart TV environments promise a future where television becomes even more intuitive, intelligent, and engaging.

As television enters its second century, it continues to evolve—technically, creatively, and socially. For the engineering community, including the esteemed members of The Institution of Engineers (India), this journey is a compelling reminder of what innovation can achieve. May this spirit continue to guide us as we build technologies that inform, empower, and connect a brighter future for all.

Environment and Digital World for Sustainable Development

Tamilnadu State Centre, IEI organized the 39th National Convention of Environmental Engineers, under the aegis of Environmental Engineering Division Board (ENDB), IEI during 22-23 August 2025 at the Rosette Convention Centre, Anna University, Chennai. A National Seminar was organized concurrently on the theme **Environment and Digital World for Sustainable Development** on the occasion. The event brought together eminent engineers, academicians, researchers and students to deliberate on the integration of digital technology with environmental sustainability. Er VB Singh, President, IEI graced the inaugural function as the Chief Guest.

The Convention commenced with the traditional Convocation and the lighting of the lamp by the dignitaries on the dais. Dr V Karthikeyan, Chairman, Tamil Nadu State Centre, IEI and Chairman, Environmental Engineering Division Board, IEI delivered the welcome address, outlining the objectives and significance of the Convention. Prof (Dr) D Elango, Organising Secretary and Committee Member of the host Centre briefed the audience about the importance of the event. The inaugural session was presided by Dr V Karthikeyan, Chairman, Environmental Engineering Division Board, IEI. Dr Karthikeyan, in his address, emphasized the need for environmental protection through technological innovation. The Souvenir of the Convention Proceedings were formally released during the inaugural session.

Chief Guest, Er VB Singh, President, IEI, in his presidential address, stressed the necessity of integrating digital advancements with sustainable practices for environmental management. Er Sanjay Sen and Er Jagdish Chand Singhal, Members, ENDB and Council member, IEI, also addressed the gathering, offering felicitations and insights on the evolving role of engineers in achieving sustainability goals.

On the occasion, Dr B Srimuruganandam, Professor & Director, Centre for Clean Environment, Vellore Institute of Technology, Vellore; Prof (Dr) M M Prabhakaran, Director & Chief Consultant, SARAS Engineering and Environment Consultants, Ernakulam, Kerala and Dr Suparna Mukherji, MPCB Chair Professor, Environmental Science and Engineering Department (ESED), IIT Bombay, Mumbai were felicitated as Eminent Engineering Personalities in recognition of their eminence and contribution to the profession of Environmental Engineering

The IEI Young Engineers Awards in Environmental Engineering Division were presented to Dr Ashutosh Sharma, Assistant Professor, Department of Hydrology, IIT Roorkee and Mr Partho Pratim Chatterjee, Director, Aditya Bioinnovation Private Limited, Nagpur, Maharashtra.

The National Convention was supported by several sponsors, including Sona College of Technology, Salem; Baskaran Projects Private Limited; Vibrant; TPT Civil Testing and Consultancy; Sri Gowri Offset Printers; Raagav Communications; Supreme Marketing; Global Lab and Consultancy Services LLP; Fujitec; Thiruneelakandar & Company; St. Joseph's College of Engineering; Saveetha Institutions; RMK Engineering College, Kancheepuram Local Centre, IEI; Muthayammal Engineering College, and Ramkalam CECT. Er D Gokul, Honorary Secretary, Tamil Nadu State Centre, IEI delivered the vote of thanks at the end of inaugural session.

The inaugural session was followed by The N V Modak Memorial Lecture, which was delivered by Dr Kurian Joseph, Emeritus Professor and Former Director, Centre for Climate Change and Disaster Management, Department of Civil Engineering, Anna University on the topic 'Digital Technologies for Sustainable Development'. He elaborated on the role of IoT, AI and data analytics in optimizing resources and achieving the UN Sustainable Development Goals. He mentioned that Cloud technology provides accessible and scalable infrastructure for data storage, analysis, and collaboration, supporting various sustainability initiatives. Analyzing large datasets can

reveal patterns and insights for informed decision making, leading to more sustainable resource management. Digitalization is revolutionizing how we interact with the environment, from monitoring ecosystems to conserving resources to influencing markets and consumer behaviors.

The Dr G D Agarwal Memorial Lecture was delivered by Er Jagdish Chand Singhal on the topic 'Smart Cities, Clean Rivers - Is the Waste Sector Ready?' He emphasized the urgent need for integrated waste management strategies in India's urban ecosystems. He strongly advocated for building infrastructure with ecological integration, more focus and control on the waste silently flows in the rivers and stressed on integrated and result oriented system.

The Convention included four invited talks and two technical sessions. Dr R Vijayakumar, Engineering Consultant & Technical Arbitrator, delivered Invited Lecture on 'Environment and Digital World for Sustainable Development'. He explained that the digital world and the environment are intricately linked, with digital advancements offering both opportunities and challenges for sustainable development. While the digital economy can contribute to resource efficiency, reduced emissions, and improved access to services, it also presents environmental concerns related to energy consumption, e-waste, and resource depletion. Sustainable digitalization, which involves integrating environmental considerations into digital practices, is crucial for

harnessing the positive impacts of technology while mitigating its negative consequences. IEI Young Engineer Awardee, Dr Ashutosh Sharma presented his research on 'Projected Shifts in India's Terrestrial Ecosystem Carbon Uptake under 21st Century Droughts'.

Dr Dawn S S, Professor (Research) and Head, Centre for Waste Management, Centre of Excellence for Energy Research (Bioenergy Division), Sathyabama Institute of Science

and Technology, Chennai delivered an invited talk on 'CO₂E Reduction Initiatives'. The presentation covered an Introduction to Carbon footprint calculations and Technology readiness levels (TRLs).

Dr S V Srinivasan, Senior Principal Scientist, Department of Environmental Engineering, CSIR - Central Leather Research Institute, Chennai delivered an Invited Lecture on the topic 'Solid Waste Management' and elaborated on the objectives, type, benefits of solid waste.

Mr R Ramakrishnan, General Manager, Environment, Health & Safety Team, Mando Automotive India Private Limited, Chennai delivered Invited Lecture on "Environment and Digitalization for Sustainable Development". He emphasized that digitalization plays a transformative role in advancing environmental sustainability. Advanced technologies such as Artificial Intelligence (AI), the Internet of Things (IoT), Big Data, and Blockchain enable efficient resource management, pollution monitoring, and waste reduction. Smart grids, precision agriculture, and intelligent transportation systems contribute to minimizing energy consumption and reducing environmental impact. Furthermore, digital tools enhance transparency in environmental governance and empower communities through data-driven decision-making. By integrating digital innovation with sustainable practices, societies can achieve economic growth while preserving ecological balance for future generations.

Apart from the invited lectures, number of papers were presented during the technical sessions.

For the details of technical session, please follow the link

<https://url-shortener.me/1KZF>

A panel discussion was organized on the topic 'Digital Technology -

Contd. on page 7

Shaping the Future: Innovations in 3D and 4D Printing Technologies

Prayagraj Local Centre, IEI, in association with Mechanical Engineering Department, Sambhunath Institute of Engineering and Technology (SIET), Jhalwa, Prayagraj organized an All India Seminar on the topic **Shaping the Future: Innovations in 3D and 4D Printing Technologies** during 29 & 30 August, 2025, under the aegis of Mechanical Engineering Division Board (MCDB) at Prayagraj. The Seminar served as a knowledge-sharing platform to explore the future of additive manufacturing and its multifaceted applications across industries. Number of participants, including research scholars, faculty members and corporate professionals, attended the Seminar.

The inaugural session began with the invocation and lighting of the lamp. Prof Avanish Kumar Dubey, Chairman, Prayagraj Local Centre, IEI delivered the welcome address, highlighting the evolution of 3D printing since its commercialization. He emphasized its growing role in manufacturing - ranging from simple plastics to complex ceramics and metals - while noting challenges such as design complexity, material limitations and reduced employment opportunities due to automation. He underscored the urgent need to develop skilled manpower adept with advanced technologies to achieve India's manufacturing growth targets and self-reliance.

The Chief Guest of the session, Prof Mukul Shukla, Head, Department of Mechanical Engineering, MNNIT Allahabad, discussed the progress and challenges in additive manufacturing, emphasizing its transformation from a prototyping tool to a mainstream manufacturing method. The Guest of Honour, Dr Kaushal Kishor Tewari, Secretary, Utthan Group of Institutions, shared the journey of Utthan in education and research. He reiterated the group's commitment to supporting academic and research activities and expressed gratitude to Prayagraj Local Centre, IEI and SIET for organizing the seminar. Er Ubaid Ahmad Khan, Organizing Secretary, SIET Prayagraj, introduced the Seminar theme and its national significance. The inaugural ceremony concluded with a vote of thanks by Er Udai Prakash Srivastava, Honorary Secretary, Prayagraj Local Centre, IEI followed by the National Anthem.

The two-day Seminar featured insightful Keynote and Invited lectures from leading academicians and researchers. Chief Guest, Prof Mukul Shukla, delivered an invited lecture on 'Advances in Fused Filament Fabrication – 3D Printing', explaining the evolution of FDM techniques and their industrial applications, along with challenges like weak interlayer adhesion and anisotropy.

Dr Manogna Karthik Gangaraju, Assistant Professor, Department of Mechanical Engineering, IIT BHU Varanasi, presented an Invited lecture on 'Characterization and Testing of Metal Additive Parts', elaborating on microstructures and material properties of metal additive manufacturing. Dr Pawan Sharma, Assistant Professor, Department of Mechanical

Engineering, IIT BHU Varanasi delivered Invited lecture on 'Introduction to 4D Printing', explaining the paradigm shift from static manufacturing to self-evolving intelligent systems, emphasizing future applications in healthcare, aerospace, and robotics.

Dr Skylab Paulus Bhole, Associate Professor, Mechanical Engineering Department, MNNIT Allahabad, delivered an Invited lecture on '3D Food Printing'. He discussed the potential of additive manufacturing in culinary innovation and personalized nutrition, exploring extrusion-based printing techniques and sustainable food applications.



Other papers presented during the technical sessions include; 'Enhancing Hardness and Corrosion Resistance of Additively Manufactured Inconel 718 through Optimized Post-Processing Heat Treatments' by Aman Dwivedi, Research Scholar, MNNIT Allahabad; '3D Printed Hierarchically Porous Copper Current Collectors for Dendrite-Free Lithium Metal Anodes' by Dr Vivek Mani Tripathi, Assistant Professor, Uttar Pradesh Textile Technology Institute, Kanpur;

'Latest Advancements and Applications of 3D/4D Additive Manufacturing Technologies' by Dr Naveen Kumar, Assistant Professor, UCER, Prayagraj; 'Polyflow Simulation of Extrusion-Based 3D Food Printing of Wheat Flour and Marigold Powder-Based Food Inks' by Shrishti Massey, Research Scholar, MNNIT Allahabad; 'Advances in 3D and 4D Printing of Soft Robotics and their Applications' by Abhishek Mishra and Nidhi Patel, SIET Prayagraj; '3D Printing in Healthcare: Revolutionizing Prosthetics and Organ Printing' by Vipin Sharma and Vikas Singh, SIET Prayagraj and 'Advancements in 3D Printing Materials: From Plastics to Smart Polymers' by Nandini Singh and Ghulam Mohammad Aquib., SIET Prayagraj.

For details of technical sessions, please follow the link

<https://url-shortener.me/1KYU>

The valedictory session was presided over by Prof Avanish Kumar Dubey, Chairman, Prayagraj Local Centre, IEI. Mr Abhishek Tewari, Managing Director, Utthan and Er Ubaid Ahmad Khan, Organizing Secretary, shared their reflections on the seminar and summarized the sessions. The session concluded with vote of thanks by Er Udai Prakash Srivastava, Honorary Secretary, Prayagraj Local Centre, IEI who expressed gratitude to all dignitaries, participants and organizing members for the success of the event.

The seminar Successfully fulfilled its objective of fostering awareness and dialogue on the innovations in 3D and 4D printing technologies. The event not only enriched the participants with the latest research insights but also inspired young engineers to explore additive manufacturing as a catalyst for India's industrial growth. The coordinated efforts of the Organizing Committee led by Prof Avanish Kumar Dubey, Er Udai Prakash Srivastava and Er Ubaid Ahmad Khan, ensured the Seminar's grand success and set a benchmark for future academic collaborations between IEI and SIET.

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>

Global Civilizations Dialogue Ministerial Meeting

Mr. Navinchandra B. Vasoya, Past President of The Institution of Engineers (India) and National Member, Executive Council, World Federation of Engineering Organizations (WFEO), represented WFEO at the Global Civilizations Dialogue Ministerial Meeting held in Beijing on 10–11 July 2025. The high-level gathering, organized by the Publicity Department of the CPC Central Committee, brought together ministers, academicians, leaders of international organizations and policy experts to reflect on how science and technology can deepen inter-civilization exchanges in the era of Artificial Intelligence. On 11 July, at the parallel sub-forum hosted by the China Association for Science and Technology (CAST), Mr. Vasoya delivered a keynote address on behalf of WFEO.



In his speech, Mr. Vasoya emphasized that the advancement of civilizations has always been shaped by dialogue and shared learning, and that this spirit must guide the world's response to the transformative rise of AI. He highlighted that technology is never value-neutral and must evolve with ethical responsibility, cultural sensitivity and a commitment to humanity's collective well-being. He noted that engineers and scientists today are not merely inventing tools but "building the next chapters of civilization," and therefore must ensure that AI reflects the harmony of diverse worldviews rather than the dominance of one. He also underscored WFEO's sustained efforts to promote responsible innovation, global AI governance, and equitable access to technological progress, particularly for developing nations.

The forum saw active contributions from several global leaders. Malaysia's Minister of Science, Technology and Innovation, Chang Lih Kang, underscored that science and technology serve as a crucial bond among civilizations and praised China's Global Civilization Initiative for addressing contemporary global concerns. Lord Vaea of Tonga drew attention to the importance of dialogue in resolving differences among cultures. Academicians such as Liu He of the Chinese Academy of Engineering and Jiao Nianzhi of the Chinese Academy of Sciences highlighted the need for open, inclusive and cooperative ecosystems in science and technology, particularly as the world confronts challenges such as climate change and the rapid expansion of AI. Their views reinforced the shared global understanding that no single nation or civilization can face these issues alone.



International media in Beijing noted that participants widely agreed on the need to bridge digital and intelligent divides, strengthen cooperation, and ensure that scientific progress benefits all peoples. Mr. Vasoya's contribution on behalf of WFEO added a strong engineering perspective to these deliberations and reaffirmed India's commitment to advancing ethical, inclusive and culturally rooted technological development on the global stage.

Environment and Digital World for Sustainable Development

Contd. from page 5

Economically Truly Sustainable or Shifting the Burden Elsewhere' was moderated by Dr V Karthikeyan with participation from distinguished experts.

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

Digital Transformation: Green Digital Transformation should be promoted through energy-efficient data centres, low-power devices and green cloud computing. Carbon-neutral IT and renewable-powered digital infrastructure also be encouraged; Digital Governance for Sustainability: IoT for real-time monitoring of air, water, and soil should be deployed. AI for disaster prediction, biodiversity protection, and sustainable urban planning be used; Responsible E-Waste Management: The e-Waste recycling laws and circular economy models are to be enforced; Sustainable Smart Cities: Smart cities using digital twins, smart grids, and AI-driven waste systems

can be developed; Digital Education for Sustainability: Environmental and digital literacy in education can be integrated. Online training programmes in green tech and sustainable innovation need to be conducted; Community and Citizen Participation: Mobile apps and open data for citizen-led reporting and conservation can be used. Digital volunteering and crowd sourced sustainability initiatives also to be promoted; Public-Private-Academic Collaboration: Cross-sector partnerships for sustainable tech innovation can be built. Green-tech start-ups through research funding, and incubation can be supported; Policy and Finance Mechanisms: Green tax incentives for sustainable digital practices can be provided. Climate-tech funding via PPPs and green bonds should be promoted; Global Cooperation: International collaboration on digital environmental solutions are to be fostered. A Global Digital Green Network for tech transfer and best practices can be created.

Professional Engineers (PE) Certification by IEI — A Pathway towards Success

Get the **Professional Engineers Certification** by IEI to enhance your knowledge, skill and competency and also elevate your career by becoming a member of an elite group of engineers.

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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>.

Know-Your-Member (KYM)

Is your mobile number & e-mail updated with us? If not, then please forward your Know-Your-Member (KYM) form immediately to participate the Elections of IEI from 2026 onwards.

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

Deputy Director (Membership)

The Institution of Engineers (India)
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E-mail: datamemb@ieindia.org

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Upgradation of Membership

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

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

For detailed eligibility criteria and application procedures, please contact:

Deputy Director (Membership)

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

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- ❖ Aerospace Engineering Division,
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- ❖ Chemical Engineering Division,
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- ❖ Electronics & Telecommunication Engineering Division,
- ❖ Environmental Engineering Division,
- ❖ Marine Engineering Division,
- ❖ Mechanical Engineering Division,
- ❖ Metallurgical and Materials Engineering Division,
- ❖ Mining Engineering Division,
- ❖ Production Engineering Division,
- ❖ Textile Engineering Division,
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Inside Full Page	16.8 cm (width) x 22.6 cm (height)	Colour	20,000
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For booking, Please write to:

Deputy Director (Technical)

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

E-mail: technical@ieindia.org/dd.technical@ieindia.org

Payment is to be made by 'at par' cheque drawn in favour of **The Institution of Engineers (India)/RTGS/NEFT**

IEI DIARY



Agricultural Engineering Division

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

Ahilyanagar, January 8-9, 2026

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

Aerospace Engineering Division

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

Bhopal, February 26-27, 2026

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

Chemical Engineering Division

Fortieth National Convention of Chemical Engineers on **"Separation Process Technologies in Chemical Engineering"**

Chandigarh, December 06-07, 2025

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

Civil Engineering Division

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

Faridabad, January 28, 2026

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

Computer Engineering Division

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

Agartala, January 16-17, 2026

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

Electrical Engineering Division

All India Workshop on **"Solar PV Driving Indias Renewable Energy Mission through Innovation Integration And Opportunities"**

Bhimavaram, December 02, 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 **"Electrical Vehicle and Charging System Transforming Tomorrows Mobility"**

Navi Mumbai, January 30, 2026

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

All India Seminar on **"Distributed Generation Power Quality Navigating Grid Integration Challenges"**

Coimbatore, February 12, 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]

Electronics & Telecomm. Engineering Division

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

Faridabad, December 03-04 2025

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

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

Bareilly, December 20, 2025

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

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

Agartala, January 29-30, 2026

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

Environmental Engineering Division

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

Tiruchirappalli, January 08, 2025

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

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

Ranchi, February 8-9, 2026

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

Materials & Metallurgical Engineering Division

One Day Seminar on **"Automation and Industry 4.0 in Foundry Technology"**

Pune, December 08, 2025

The Honorary Secretary, IEI, Pune Local Centre, IEI Abhiyanta Bhavan, 1332 J M Road, Shivajinagar, Pune 411005, [☎: 020-25533376 (Admin Incharge: 8668475255 / Office Admin: 9822754165), E-mail: ieiplc41@gmail.com; punelc@ieindia.org, Website: www.ieipune.org]

Mechanical Engineering Division

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

Vijayawada, February 01-02, 2026

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

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

Thiruvananthapuram, September 23-24, 2026

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

Production Engineering Division

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

Coimbatore, June 19-20, 2026

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

National Languages Promotional Committee

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

Coimbatore, January 07-08, 2026

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



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

Sl. No.	Name of the Course	Scheduled Dates
1.	IT Tools & Techniques for Office Administration	01 - 03 Dec 25
2.	Surface Engineering – Concepts, Applications and Emerging Technologies	01 – 04 Dec 25
3.	NDT Level II Certification in Visual Inspection/Visual Testing (in Accordance with ASNT Document No. SNT-TC-1A 2011)	01 - 05 Dec 25
4.	Lean Six Sigma Green Belt	01 - 05 Dec 25
5.	Hazardous Waste Management & Prevention	02 - 03 Dec 25
6.	Mitigation of Occupational Safety & Health Challenges in Mining	02 - 05 Dec 25
7.	Latest techniques in Control & Instrumentation in Power Plants and Process Industries Applications	02 - 05 Dec 25
8.	Planning, Design, Construction and O&M of Lift Irrigation Schemes	02 - 05 Dec 25
9.	Techno Managerial Skills for Engineers	08 - 11 Dec 25
10.	Conflict Management, Decision Making and Problem-Solving Skills	08 - 11 Dec 25
11.	Rehabilitation of Buildings using latest Techniques	08 - 12 Dec 25
12.	Best Practices Operation Maintenance of EHV Substation (GIS & AIS)	09 - 11 Dec 25
13.	Plastic waste management	10 - 11 Dec 25
14.	Technology for Efficient Mine Surveying	10 - 12 Dec 25
15.	Micro Irrigation Systems Implementation, Fertilizer Management including System Maintenance	10 - 12 Dec 25
16.	Microsoft Power Platform Fundamentals (PL 900 Certification)	15 - 18 Dec 25
17.	Total Productive Maintenance (TPM)	15 - 18 Dec 25
18.	Engineering Simulation Using ANSYS & CFD	15 - 19 Dec 25
19.	Innovative Practices and Financial healthiness of the DISCOMs- Issues & Challenges	16 - 18 Dec 25
20.	Management of Training for Training & HR Managers.	17 - 19 Dec 25
21.	Big Data Analysis & Financial Management	17 - 19 Dec 25
22.	Techno-Management Program for Managers and Engineers in Mining	17 - 19 Dec 25
23.	Use of Total station & DGPs for Engineering Project	17 - 19 Dec 25
24.	Coastal Zone Climate Change Management with Remote Sensing Applications	17 - 19 Dec 25
25.	Online Monitoring Industrial Emission Effluent (Technical Guidelines and Demonstration).	22 - 24 Dec 25
26.	Quality and Reliability Management	22 - 24 Dec 25
27.	Personality Development (An Ordinary to Extraordinary Personality Empowerment)	29 - 31 Dec 25
28.	Uncertainty Measurement	29 - 31 Dec 25

For detailed information please contact:

Engineering Staff College of India

Old Bombay Road, Gachibowli, Hyderabad – 500 032

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



40th INDIAN ENGINEERING CONGRESS

Durgapur

Theme:

Innovative Engineering Solutions for Viksit Bharat @ 2047



Organized by

The Institution of Engineers (India)

Hosted by

Durgapur Local Centre

Date

December 19-21, 2025

For details please visit: <https://40iec.org>

Superannuation from IEI

Mr Utpal Karmakar, an employee of the Institution HQ was superannuated from the services of IEI on 30 November 2025. He joined the Institution on 11 September 1991 and rendered his services to the Institution over a period of 34 years.

IEI wishes Mr Utpal Karmakar and his family a happy and healthy life in the future.



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How to apply for International Professional Engineers?

For details
please visit the link:
<https://shorturl.at/j36fo>
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- ⊙ Enhances an engineering professional's stature and gives confidence to employer/ prospective employer about competency of Certified Engineer;
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For any query and assistance, please send email to: pe@ieindia.org or contact (033) 40106220

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