I.E.I NEWS

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A CENTURY OF SERVICE TO THE NATION

Volume 32 Number 3

Felicitation of Chairman, ISRO by President, IEI

Dr V Narayanan, Chairman of the Indian Space Research Organisation (ISRO) and Secretary, Department of Space, Government of India, was felicitated by Mr VB Singh, President, IEI during his maiden visit to Lucknow on 7 July 2025. On this occasion, Dr Narayanan was apprised by President, IEI, regarding various technical activities being conducted across the 124 Centres of IEI, particularly those related to space technology.

It was a great honour for IEI to get an opportunity to felicitate such a globally acclaimed scientist. Dr Narayanan appreciated the efforts of The Institution of Engineers (India), acknowledging its 105 years of dedicated service to the nation. He praised the Institution for continuously disseminating the latest technological developments to the public and for regularly organizing technical seminars and workshops to keep engineers informed about on going advancements and research.

Also present on the occasion were Mr. Masarrat Noor Khan, Immediate Past Chairman, Uttar Pradesh State Centre, IEI & Council Member, and Mr Vijaya Pratap Singh, Honorary Secretary & Chairman-Elect of the UP State Centre of IEI.

Thirty-ninth National Convention of Production Engineers and National Seminar

Recent Advancements and Challenges on the Fabrication of Semiconductor Chips in India

Madurai Local Centre, IEI organized the 39th National Convention of Production Engineers during 23-24 May 2025 at Madurai, under the aegis of Production Engineering Division Board [PRDB], IEI. A National Seminar was organized concurrently on the theme **Recent Advancements and Challenges on the Fabrication of Semiconductor Chips in India**. Shri A Rajarajan, Distinguished Scientist, Director of Satish Dhawan Space Centre, SHAR [SDSC SHAR], Sriharikota graced the inaugural function as the Chief Guest with his virtual presence

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From the President's Desk.....

Democratizing AI for All

Artificial Intelligence is no longer the domain of a select few. It is fast becoming a universal force—reshaping industries, transforming the workplace, and redefining the skills required to thrive in a technology-driven world. As we stand on the brink of this AI-powered transformation, the most pressing need is to make AI education and skills accessible to all.

There is a growing global realization that AI must not deepen existing divides, but rather bridge them. From remote learners to working professionals, from students to senior engineers—everyone must have the opportunity to understand, apply, and innovate using AI tools. Such inclusivity is vital not only for individual empowerment but also for national development.

India has been quick to recognize this. Through digital literacy missions, skilling programmes, and AI curriculum integration, our nation is laying the foundation for an AI-ready future. Initiatives to promote responsible AI usage among school children and youth reflect a forward-looking vision that combines technological progress with ethical awareness.

At The Institution of Engineers (India), we remain deeply committed to fostering capacity-building and up-skilling in emerging technologies. Through a wide spectrum of initiatives—including seminars, webinars, technical courses, and academic publications—we aim to create accessible and relevant learning opportunities for all. It is imperative that we cultivate a culture where lifelong learning becomes a defining principle, not a rare pursuit.

AI has the potential to accelerate solutions in healthcare, climate action, infrastructure, and more. But for that to happen at scale, we must democratize access to AI tools, training, and awareness. Let us pledge to make this revolution inclusive—so that no aspiring mind is left behind in the race to the future.

Recent Advancements and Challenges on the Fabrication of Semiconductor Chips in India

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and addressed the audience. Shri Ashwin R Desai, Chairman, CII, Madurai Zone and Managing Director, A&T Video Networks Private Limited, Madurai graced the occasion as the Guest of Honour. The inaugural session was presided over by Dr S Ramesh, Chairman, Production Engineering Division Board, IEI.

The event started with the inaugural address delivered by Prof (Dr) P

Udhaya Kumar, Chairman, Madurai Local Centre. Dr N Sivasubramanian, Former Senior Scientist/Chief General Manager, ISRO, Convener, Technical Committee and Immediate Past Chairman, Madurai Local Centre briefed the august audience about the theme and the relevance of the National Convention. He explained the technical details of integrated chip manufacturing, production of semiconductor industry in global perspective, capital intensive digital transformation in semiconductor sector.

Chief Guest, Shri A Rajarajan in his address mentioned the applications of semiconductor chips in aerospace industries and focused on the challenges in semiconductor industry, which include development of skilled manpower, specialized infrastructure, high capital investment etc. He explained the application of semiconductors in launch vehicles, communication, navigation etc and said that its reliability, miniaturization and high efficiency make it inevitable.

Guest of Honour, Shri Ashwin R Desai explained the relevance of theme in the present context. He discussed the market perspective of the semiconductor industry, challenges in production of in-house raw materials major investment initiatives by the Government of India and stressed for development in ecosystem for better manufacturing of customized products. Shri Desai, in his address, strongly advocated for more R&D in component manufacturing, customized solutions for hardware and software and greater momentum in indigenous electronic manufacturing system. Prof (Dr) S Ramesh, Chairman, PRDB, IEI in his presidential address highlighted the rapid advancement in semiconductor manufacturing, collective exploration of constraints and challenges, collaborative thinking, formulation of strategic policy framework, supply chain, fulfillment of India Semiconductor Mission, challenges in achieving the excellence in semiconductor manufacturing. A Souvenir was released on the occasion in the august presence of dignitaries on the dais.

On the occasion, Dr Palani Iyamperumal Anand, Professor and Dean (R&D), Department of Mechanical Engineering, IIT Indore; Dr M R Suresh, Former Director, Directorate of Systems Reliability & Quality (DSRQ) and Directorate of Occupational Health and Safety (DOHS), ISRO HQ, Bangaluru; and Er K K G Prabhakaran, Managing Director, M/s Kuttuva Silicates Private Limited, Madurai were felicitated as Eminent Engineering Personalities in recognition of their eminence and contribution

Dr Palani Iyamperumal Anand

Dr M R Suresh

Er K K G Prabhakaran

to the profession of Production Engineering. The IEI Young Engineers Award for the year 2024 was presented to Dr Prashant Rawat, Assistant Professor, Grade- 1, Department of Aerospace Engineering, IIT Madras, Chennai in recognition of his contributions in the field of Production Engineering. Er A T Baskar, Honorary Secretary, Madurai Local Centre, IEI proposed the vote of thanks.

Dr Prashant Rawat

Followed by the inaugural session, the F W Taylor Memorial Lecture was delivered by Dr PSR Srinivasa Sastry, Former Outstanding Scientist and Founder Director, DSP Laboratory, DRDO, Hyderabad, Professor of Practice, Centurion University of Technology and Management, Bhubaneswar on the topic 'Semiconductor Manufacturing and the Indian Initiatives' and explained the Semiconductor IC fabrication scenario in India, major constraints and challenges, Government initiatives and key development, semiconductor fabrication, semiconductor cluster scenario in India. He explained the major advancements in semiconductor industry, Outsourced Semiconductor Assembly and Testing [OSAT], design and R&D ecosystem etc. He discussed on infrastructure constraints, geopolitical competition, shortage in skilled manpower and emphasized on capacity building and creation of more job opportunities.

The G C Sen Memorial Lecture was delivered by Er D Karthikesan, Former Director, ISRO Propulsion Complex (IPRC), ISRO, Mahendragiri on the topic 'Role of Semiconductor in Aerospace' and explained major applications of semiconductors in aerospace, consumer electronics, healthcare, automotive sectors etc. He discussed different semiconductor materials, electronic miniaturization, application of sensors in space applications, application of actuators with control electronics, accelerometer, chemical detectors, major trends in semiconductor manufacturing etc.

IEI Young Engineers Awardee, Dr Prasant Rawat delivered presentation on the topic 'Introduction to Biomimicry and Future Generation Body Armors' and introduced the concept of bio inspired armors applying biomaterials. He explained the ballistic performance of the protective layers and its' sustainability in terms of stress distribution, withstanding impact and resists high velocity bullets.

Dr Seeram Satyanarayana, Council Member, IEI delivered an Invited lecture on the topic 'Fabrication of Semiconductor in India – An Overview' and explained the strategic requirement to establish semiconductor fabrication in India to enhance national security and reduce import dependence and resilience in supply chain. Er P Balakrishnan Nair, Council Member, IEI delivered Invited lecture on the theme. Dr T R G Nair, Visiting Professor, NIAS, IISc Bangalore delivered presentation on virtual mode on the topic 'Emergence of Semiconductor Fabricating Industries in the Developing Countries'. Er Ashwin Ramakrishnan, Senior Development Engineer, Wafer Inspection Division, KLA Corp, USA delivered an online presentation on 'Wafer Inspection and KLA's Role in Improving the Yield in Manufacturing' and highlighted the inspection methodology by means of optical imaging spectroscopy. Prof (Dr) V Jeyalakshmi, Professor in Electronics and Communication Engineering Department, CEG Campus, Anna University, Chennai delivered an Invited Lecture on the topic 'AI Driven Chip Design Technologies'. Dr N Sivasubramanian delivered an Invited Lecture on the topic 'Sustainability in Semiconductor Chip Manufacturing'. Further, during the technical session, number of papers was presented on relevant sub theme.

For further details of technical; session, please refer the link

https://shorturl.at/WNB1u

A panel discussion was organized on the occasion. The panel comprising

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All India Seminar under the aegis of Mechanical Engineering Division Board

Rural Industrialization

Bareilly Local Centre, IEI, in collaboration with Rajshree Institute of Management & Technology (RIMT), Bareilly organized an All India Seminar on **Rural Industrialization** during 15-16 May, 2025, under the aegis of Mechanical Engineering Division Board [MCDB] IEI at Bareilly. The seminar aimed to explore transformative strategies and technologies that can empower rural communities and industries, with focus on innovation, supply chains, renewable energy, cooperative development and sustainable infrastructure.

The event started with the welcome address delivered by Prof (Dr) Pankaj Kumar Sharma, Chairman, Bareilly Local Centre, IEI. He emphasized the significance of rural industrialization in India's holistic development and congratulated the organizing team for the extensive participation.

Mr Neeraj Agrawal, General Manager, Premier Agri Foods Private Limited, Prayag, Bareilly graced the occasion as the Chief Guest and Keynote speaker. He delivered the Keynote address on the topic 'Empowering Rural Growth through Smart Innovation' and elaborated the role of smart technologies like precision farming, clean energy, telemedicine and digital education in uplifting rural communities through inclusive, sustainable innovation. He explained how digital technologies and innovation can transform rural sectors.

Dr Anuj Verma, HOD, Civil Engineering Department, RIMT spoke on the relevance of the seminar to present-day challenges and its potential to drive future-ready rural development.

Dr Raveesh Agarwal, Professor and Head, Dept of Business Administration, RIMT provided an overview of the seminar objectives and shared insights into the importance of stakeholder collaboration in rural progress. A Souvenir was released during the inaugural session in the august presence of Chief Guest, Chairman and other dignitaries to commemorate the seminar. For further details, please follow the link

https://shorturl.at/fqlxX

Er Sauveera Kumar, Assistant Professor, Graphic Era University spoke on 'Powering Tomorrow: Renewable Energy for a Sustainable Future' and discussed the benefits and applications of renewable energy in rural sustainability. Dr Hintendra Gangwar, Assistant Professor, RIMT deliberated on 'Future-Ready Villages: Integrating Innovation & Enterprise'. He highlighted the importance of entrepreneurship, skill development, job creation, infrastructure development and digital connectivity. Dr Ram Gopal, HOD, Mechanical Engineering Department, RIMT discussed on the topic 'Connecting Value, Creating Impact: Strengthening Supply Chains & Market Access'. He opined that by streamlining supply chain and enhancing infrastructure, rural producers have better access to the buyers, fair pricing and reduced waste.

Dr Vishal Saxena, Assistant Professor, Department of Mechanical Engineering, MJPRU delivered presentation on 'Connecting Producers to Prosperity: Strengthening Supply Chains & Market Access'. Dr Anil

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IEI Technical Webinar under the aegis of Mining Engineering Division Board

Application of Numerical Modelling in Mining

Kothagudem Local Centre organized a Technical Webinar on the theme **Application of Numerical Modeling in Mining** on 21 May 2025 under the aegis of Mining Engineering Division Board [MNDB], IEI. The webinar commenced with insightful presentations by two expert panelists, Sri Ramesh Dundra, Additional Manager, R&D Department, M/s SCCL, Kothagudem and Sri Chitti Ravi Kiran, Lecturer (C), Department of Mining Engineering, University College of Engineering, Kakatiya University, Kothagudem. The session was moderated by Sri B Karuna Kumar, Head of Department, Department of Mining Engineering, Government Polytechnic College, Rudrampur.

Sri Ramesh Dundra in his lecture, highlighted the vital role of numerical modeling in improving safety and optimizing mine design. The commonly used numerical modeling methods were presented with a focus on Finite Difference Method [FDM] and Boundary Element Method [BEM]. The FDM was discussed in the context of stress distribution and ground deformation analysis in underground mines along with practical applications. The BEM was discussed in the context of simulation involving infinite domains, especially in open pit slope stability analysis and crack propagation studies. The speaker shared several case studies and practical examples to illustrate the real world applicability of these methods in long wall panel design and pillar stability assessment.

Sri Ramesh Dundra

Sri Chitti Ravi Kiran, in his address, focused on mine subsidence and its prediction using finite element and finite difference methods. Various numerical simulation methods were discussed and the step

Sri Chitti Ravi Kiran

Sri B Karuna Kumar

by step procedures in setting up a numerical model in mining were outlined. The speaker explained how these models support in evaluating stress distribution, ground movement and safety parameters.

Moderator of the session, Sri B Karuna Kumar summed up the proceedings of deliberation. It is recommended that

- *Future efforts be focussed on enhancing practical exposure to numerical modeling through hands-on workshops using popular software tools like FLAC3D and UDEC.*
- *Integrating numerical modeling techniques into mining and geotechnical engineering curricula would prepare students for industry demands in a better way.*
- *Developing a repository of case studies from Indian mining projects can help demonstrate real-world applications and encourage knowledge sharing.*
- *It is also important to align modeling practices with relevant legal provisions such as those in the Mines Act and DGMS guidelines to ensure regulatory compliance.*
- *Encouraging interdisciplinary collaboration between academia and industry will foster innovative approaches to modeling challenges. Regular webinars dedicated to specific numerical methods, including the Finite Element and Discrete Element Methods, will help deepen understanding. Emphasis should be placed on model validation using field data to ensure accuracy and reliability.*

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Artificial Intelligence and Machine Learning Applications in Electrical Engineering

Tuticorin Local Centre, IEI, in collaboration with National Engineering College (NEC), Kovilpatti organized an All India Workshop on **Artificial Intelligence and Machine Learning Applications in Electrical Engineering** during 13-14 March, 2025, under the aegis of Electrical Engineering Division Board [ELDB], IEI at National Engineering College, Kovilpatti. The workshop drew wide participation from across India, including engineering professionals, students, researchers and academicians. The program aimed to explore the transformative potential of AI and ML in electrical engineering, emphasizing real-time applications, industrial trends and research advancements.

Er Justin Jagadeep Kumar, Chairman, Tuticorin Local Centre, IEI presided over the inaugural function and warmly welcomed the Chief Guest, Guest of Honour, dignitaries and delegates. He described the workshop as a timely initiative in the era of AI-driven transformation in Electrical Engineering and lauded the high registration and technical engagement. He congratulated the Convener, Mr I M Michael and the organizing teams from IEI and NEC for their dedicated efforts.

Er G Selvaraj, Former Chief Engineer, Tuticorin Thermal Power Station inaugurated the Workshop as the Chief Guest. In his address, he stressed that AI and ML are revolutionizing industries, particularly Electrical Engineering, through advancements in automation, smart grids, power system optimization and renewable energy forecasting. He called for increased integration of AI-driven technologies for a smarter and more sustainable future. Er I M Michael, former Senior Scientist, Department of Atomic Energy, Heavy water Board and Convener of the Workshop

Dr Kalidasa Murugavel, Principal, National Engineering College, Kovilpatti, graced the event as the Guest of Honour. He highlighted the importance of academia-industry collaboration through such workshops and emphasized the role of educational institutions in equipping engineers with advanced digital skills. He felicitated the dignitaries and extended full support for future IEI activities.

Mr Vijoe Raj, Manager - Operations Research at FedEx, delivered an insightful Keynote address on the topic 'Synergy Between Operations Research and Machine Learning & Optimization of EV Charging Infrastructure', explored how OR and ML jointly drive innovation in logistics and energy systems. He introduced ZION (Zonal Integer Operations Nexus), a decision-support tool for optimizing network and route planning, widely adopted by transport companies in India. Lectures delivered by other eminent resource persons during the workshop included: 'Artificial Intelligence in Electrical Engineering: A Game Changing Overview'; Revolutionizing Signal Processing: AI for NextGen Power Systems; Empowering High Voltage Systems: Fault Detection and Diagnosis with Machine Learning; Intelligent Load Forecasting: Bridging ML with Energy Demand and Smart Grid Integration and 'AI on Wheels: Machine Learning for Electric Vehicle Drive Control;.

The valedictory session was presided over by Mr I M Michael, Convener and Past Chairman of the centre. Dr S Dharmalingam, Council Member, IEI provided a comprehensive summary of the two-day technical deliberations. He highlighted the multidisciplinary convergence of AI and Electrical Engineering, and the importance of sustained learning. Er K Selvaganesan, Honorary Secretary, Tuticorin Local Centre, IEI proposed the vote of thanks.

The All India Workshop offered a comprehensive insight into the convergence of Artificial Intelligence, Machine Learning and Electrical Engineering. It successfully created a vibrant learning environment, fostered collaboration and encouraged innovation, leaving a lasting impact on all participants.

Recent Advancements and Challenges on the Fabrication of Semiconductor Chips in India

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Dr N Sivasubramanian, Dr Seeram Satyanarayana: Dr M.R.Suresh, Er P Balakrishnan Nair & Dr S Ramesh. Panelists opined that manufacturing of semiconductor chip is a high capital intensive, technologically driven/ challenging and multi disciplined activity and India to become self-reliant in this issue. Further, more thrust is essential at all the three levels of academia, R&D institutions, and industries.

The panelists also expressed their concern about the large consumption of purified water in the semiconductor industry and stressed on addressing the mitigation strategies.

During the valedictory function, Er P Rajamani, Past Vice President, IEI addressed the gathering. the session was presided by Prof (Dr) P Udhaya Kumar. Dr N Sivasubramanian summed up the proceedings of deliberation. Er A T baskar proposed the vote of thanks.

Recommendations emanating from the two-day fruitful deliberations are furnished hereunder.

Semiconductor manufacturing is a highly capital intensive, and challenging category. To achieve higher quality and larger quantity semiconductor chips, in Indian scenarion, large efforts and initiatives are required.

Semiconductor manufacturing needs large quantity of ultra-pure water (1,50,000 Ton per day), pure crystalline silicon, of 99.9999(9N) purity or Germanium, pure gas and huge electrical energy. Thus, alternate method of utilizing renewable energy has to be planned.

To meet the huge quantity of pure water, recycling, reclaiming and reuse methods are required to conserve the water resources. Subsequent waste disposal, effluent reconditioning has to be planned.

Availability of skilled manpower and talented workforce are essential through periodic training and upskilling the knowledge base. The stability of trained manpower at the shop floor as well as at the design level are essential.

Ability to cope up with fast changing technology, innovation and adaptability has to be looked in. The facility infrastructure also need periodic upgradation and adaptation to newer set up, as and when required.

The realization of semiconductor chip involves design, choice of materials and its processing, chemical processing like doping, extreme ultra violet lithography, etching, slicing, packaging & assembly and inspection & testing. The entire process is challenging and require a separate entity, then only importance will be addressed in this area.

Innovative Techniques in Dyeing, Printing and Finishing in Garment Technology

Kerala State Centre, IEI, organized an All India Seminar on **Innovative Techniques in Dyeing, Printing and Finishing in Garment Technology** during 21-22 January, 2025, under the aegis of Textile Engineering Division Board [TXDB], IEI at Thiruvananthapuram. The seminar aimed at knowledge exchange among professionals, academicians, researchers, and students to discuss contemporary trends and innovations in the textile sector.

Mr Sukumar Arunachalam, Managing Director, Kerala State Textile Corporation & HANVEEV, graced the occasion as the Chief Guest and inaugurated the Seminar on 21 January 2025 with the ceremonial lighting of the lamp. In his address, he highlighted the urgent need for innovation and sustainability in textile processing, especially in dyeing and finishing, to enhance competitiveness in the global market.

Er P Balakrishnan Nair, Chairman, Kerala State Centre, IEI delivered the welcome address and presidential speech, emphasizing the critical role of engineering innovation in the textile industry and encouraging knowledge sharing through such platforms. Er Shibu Shine, Member, Textile Engineering Division, IEI, briefed the audience about the objectives and structure of the seminar, outlining the technical sessions and expected outcomes.

The Keynote address was delivered by Dr Darlie Koshy, Former Director, NID; Chairman, NDBI (GOI), Ahmedabad and Director General, IAM & ATDC (AEPC) who offered deep insights into the transformation of the Indian garment industry through innovation in textile design, digital printing, sustainable dyeing and smart fabrics, urging young professionals to explore R&D for global impact. The inaugural session concluded with the vote of thanks proposed by Er (Adv) K R Suresh Kumar, Honorary Secretary, Kerala State Centre, IEI.

Experts and professionals shared their insights during the two-days technical sessions. Adv Akhil J K, Consultant CEO, NANKUZ CS LLP [Manufacturers of Ayur clothing] and former Principal, ATDC Trivandrum & Kannur, delivered a session on 'Line Balancing and Production Improvement'. Er Shajahan A, Lecturer, Central Polytechnic College, Thiruvananthapuram, spoke on 'Textile Industry in India'. Students from Central Polytechnic College, presented on 'Extraction and Application of Natural Dyes from Zebrina Pendula'. A student team from Central Polytechnic College, Thiruvananthapuram, discussed 'Noise Cancellation in Curtains'. Students from the same institution presented 'Tencel Fibres'. Mr Azeem K, Lecturer, Central Polytechnic College, delivered a lecture on 'Smart Wearable Textiles'. Mr Sukumaran Nair G, Former Senior Lecturer, IIHT, Salem & Jodhpur, Ministry of Textiles, shared insights on 'Modern Developments in Handloom Technology'. Ms Maisa Rasheed, Textile Designer, Nemom Handloom Cluster, KSTC, presented 'Innovative Techniques and Design Development in Modern Printing'. Er E J Francis, Former Group Director, VSSC, ISRO, delivered a technical talk on 'Textiles & Composites in Aerospace & Defense'. Mr Aby Thomas, General Manager In-Charge, Komalapuram Spinning and Weaving Mills, KSTC, spoke on the 'Scope of Textile Spinning Sector in Kerala'. Mr Raveendran P V, Convenor, HANTEX, presented on 'Cluster Approach of Handloom Textiles in Kerala'.

Mr P Pramod, Director, Factories & Boilers, Government of Kerala, was the Chief Guest in the valedictory function and delivered the valedictory address, applauding the quality of the deliberations and encouraging further industrial-academic collaboration. Er P Balakrishnan Nair welcomed the gathering and Er Shibu Shine summarized the seminar proceedings. The event concluded with a vote of thanks.

The two-day seminar proved to be a dynamic platform for exchanging innovative ideas and forging collaborations for the advancement of the textile sector in India.

Mining 4.0: Technology Vision for Safe, Smart, and Sustainable (3S) Mining

Jharkhand State Centre, IEI, in collaboration with IIT ISM Dhanbad and CSIR-CIMFR, Dhanbad, organized a All India Seminar on **Mining 4.0: Technology Vision for Safe, Smart, and Sustainable (3S) Mining** during 04-05 January, 2025, under the aegis of Mining Engineering Division Board (MNDB), IEI at Ranchi. The Seminar aimed at fostering innovation and discussion around the integration of digital and sustainable technologies in modern mining practices to address safety, efficiency and environmental challenges.

The Seminar commenced with a warm welcome by Dr Mahesh Kumar Gupta, Chairman, Jharkhand State Centre, IEI who stressed the relevance of the seminar theme in modernizing India's mining sector, especially through digital transformation, AI and environmentally sustainable methods.

The event was inaugurated by the Chief Guest, Er Manoj Kumar, Chairman-cum-Managing Director, Central Mine Planning and Design Institute Limited [CMPDI]. In his address, he emphasized the urgent need to embrace digital tools, sustainability and innovation to ensure mining evolves into a safer and eco-friendly industry. The Guests of Honour, Er Achyut Ghatak, Director (T/RD&T), CMPDI and Er Prafulla Chandra Tiwari, Immediate Past Chairman, MNDB, IEI appreciated the collaborative effort between academia, industry and research institutions and highlighted the critical role of industry-academia linkages for technological advancement in mining. The souvenir of the seminar was formally released by the Chief Guest , Guests of Honour and other dignitaries.

Keynote speaker, Dr Peeyush Kumar, MD, Bharat Coal Gasification and Chemicals Limited [BCGCL] spoke on mining digitization strategies and the importance of sustainable coal extraction techniques. Keynote speaker, Er Suraj Prakash, CERO, TEXMiN discussed the future of mining through AI/ML integration, data analytics and smart sensors for real-time monitoring and hazard control. Keynote speaker, Dr Murari Prasad Roy, Chief Scientist, CSIR-CIMFR, detailed emerging technologies like machine learning, remote sensing and environmental monitoring in the context of Mining 4.0. Dr Manoj Kumar, Chief Manager (M), Environment Division, BCCL and Er Shankar Naagachari, Director (T/CRD), CMPDI/Director T/PP), BCCL delivered presentation on 'Accredited Compensatory Afforestation -

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Advanced Civil Engineering Approach towards Geo-Environmental Problems

North Bengal Local Centre, IEI, organized an All India Seminar on **Advanced Civil Engineering Approach towards Geo-Environmental Problems** during 02-03 December, 2024, under the aegis of Civil Engineering Division Board [CVDB], IEI at Jalpaiguri Government Engineering College [JGEC], Jalpaiguri. The event witnessed the enthusiastic participation of corporate members and other attendees, including academicians, industry professionals and students. The seminar focused on contemporary geo-environmental challenges and civil engineering solutions, offering a platform for fruitful technical exchange.

Prof (Dr) Amitava Ray, Chairman, North Bengal Local Centre, IEI and Principal, Jalpaiguri Government Engineering College, formally inaugurated the seminar by lighting the ceremonial lamp. Er Samir Das and Er Sandipan Ganguly, Assistant Professors, Department of Civil Engineering, JGEC and Organizing Secretaries of the Seminar, introduced the theme and sub-themes of the seminar respectively. Er Suman Koner, HOD, Civil Engineering Department, JGEC and Convener of the Seminar elaborated on the objectives of the seminar. Er Shrayasi Datta, Honorary Secretary, North Bengal Local Centre, IEI, delivered the vote of thanks, acknowledging the contributions of the President, IEI, Chairman CVDB, National Advisory Committee, Organizing and Technical Committees and all speakers.

In the Technical Session, Dr Amit Dutta, Professor, Department of Civil Engineering, Jadavpur University, Kolkata delivered Invited Lecture on the topic, 'Solid Waste Management in India: Challenges and Innovations in Recycling', 'Bio-mining: A Sustainable Rotation for India's Waste Management Crisis' and 'Turning Waste into Resources: The Promise of Bio-mining'. The lectures comprehensively addressed solid waste challenges, emphasized bio-mining as a sustainable solution and outlined its environmental and economic benefits. The emergence of a new perspective as Bio-mining has been proposed for possible extraction of valuable materials as glass, plastic, metal, construction and demolition waste etc.

Dr Bikash Chandra Mandal, Associate Professor, Department of Civil Engineering, JGEC delivered Invited lectures on 'Solid Liquefaction: Causes, Effects and Implications for Foundations';, 'Assessing Liquefaction Risks: Methods, SPT Evaluation and Bearing Capacity' and 'Liquefaction in Seismic Zones: Engineering Solutions for Safe Foundations'. The presentations provided deep insights into the geotechnical phenomenon of liquefaction and its implications on foundation design in seismic regions.

Dr Kingshuk Dan, Assistant Professor, Department of Civil Engineering, Coochbehar Government Engineering College delivered lectures on 'An Overview on Stability Analyses of Reinforced Soil Retaining Wall', which covered 'Geotechnical Advances in Retaining Walls', 'Limit State Design of Reinforced Earth Walls: Static and Seismic Perspectives' and 'Structural Integrity of Reinforced Soil Retaining Walls'. These lectures addressed reinforced soil retaining wall design, stability assessments, and seismic considerations using modern design codes and practices.

The All India Seminar served as a dynamic platform for disseminating knowledge and fostering collaboration on geo-environmental issues in civil engineering. The event was marked by high-level technical deliberations, excellent speaker engagement, and active participation, making it a significant academic and professional success.

Rural Industrialization

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Kumar, Director (Academic), RIMT delivered Invited Lecture on 'Enabling Growth: Policy and Finance for Inclusive Development' and highlighted the importance of inclusive policy frameworks and financial accessibility. Ms Shreya Singh, Department of Plant Science, MJPRU delivered Invited Lecture on the topic 'Shortening Sugarcane Waste into Biodegradable Plastic' and proposed a sustainable, small-scale model for converting agricultural waste into usable materials. Mr Shreyash Chaudhary & Ms Kranti Gangwar, Assistant Professors, RIMT delivered Invited Lecture on the topic 'Cooperative Society in Rural India' and explained the significance of cooperatives in empowering rural communities. Dr Chhavi Sharma, Professor, Department of Electronics & Communication Engineering, MJPRU delivered presentation on 'Harnessing Electronics Engineering for Sustainable Rural Industrialization' and advocated for scalable tech-based solutions in electronics to boost rural industries. Mr Rizwan Khan, Assistant Professor, Civil Engineering Department, MJPRU delivered lecture on 'Rural Industrialization in India' and shared insights into infrastructure-driven growth strategies in rural regions.

The All India Seminar on 'Rural Industrialization' successfully provided a multidimensional platform for knowledge exchange and innovation, emphasizing smart technologies, supply chains, renewable energy, cooperative movements and inclusive policies. The diverse presentations and interactive discussions fostered a deeper understanding of the path to sustainable rural development. The seminar concluded with strong participation, positive feedback and renewed commitment toward empowering rural India through industrial transformation.

Mining 4.0: Technology Vision for Safe, Smart, and Sustainable (3S) Mining

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The Veneer or Smokescreen of Compensatory Afforestation'. Er Sudip Das, Senior Manager, Mining, GMMB Division, MECON Limited, Ranchi presented paper on the topic 'Application of AI in Sustainable Mining'. Er Abhishek Kumar Singh presented paper on 'Assessment of Coal Piller Strength under the Influence of Multilayer Weak Bedding Planes employing Analytical and Numerical Simulation Studies'. Er P K Rana, CSIR-CIMFR Dhanbad deliberated on 'Backfill Strength in underground Metalliferous Mines'.

For further details regarding technical session, please follow the link

https://shorturl.at/oovD8

During the valedictory function, Er S K Verma, Chairman & Managing Director, MECON, graced the occasion as the Chief Guest. Er Prafulla Chandra Tiwari was the Guest of Honour. Er Sanjay Sen, Council Member, IEI graced the event with his esteemed presence. Er S K Verma, in his address emphasized the transformative potential of emerging technologies such as AI and ML to meet sustainability targets while maintaining safety and productivity in mining operations. The Guest of Honour Er Prafull Chandra Tiwari and Er Sanjay Sen, in their address, commending the diverse perspectives and innovations discussed during the sessions. Er Harun Ansari, Honorary Secretary, Jharkhand State Centre, IEI delivered the vote of thanks. He acknowledged the efforts of collaborators IIT ISM Dhanbad and CSIR-CIMFR, Dhanbad, guest speakers, paper presenters, participants and the organizing team for making the seminar a resounding success.

The Seminar offered a valuable platform to discuss and promote smart, safe and sustainable mining practices through technological innovation, interdisciplinary research and stakeholder collaboration.

One Day Seminar under the aegis of Agricultural Engineering Division Board

Micro Irrigation for Enhanced Water Use in India

Sunabeda Local Centre, IEI, in collaboration with the Deputy Director of Horticulture, Koraput successfully organized a One-Day Seminar on **Micro Irrigation for Enhanced Water Use in India** on 06 June 2025 under the aegis of Agricultural Engineering Division Board [AGDB], IEI at Koraput. The Seminar aimed to raise awareness and promote effective practices of micro irrigation technology to improve water use efficiency, with a special focus on the unique agro-climatic and horticultural context of Koraput and surrounding districts.

The event commenced with the welcome address, delivered by Er Premananda Maity, Chairman, Sunabeda Local Centre, IEI. He highlighted the importance of micro irrigation systems for optimizing water use in agriculture, especially in drought-prone areas like Koraput and applauded the collaboration between government departments and technical institutions. Prof (Dr) Sriram Padhi, Convener of the Seminar and Member, Technical Committee, provided an overview of the seminar theme. He emphasized how micro irrigation enhances crop productivity and resource use efficiency, benefiting both small and large-scale farmers.

Dr Nutan Kumar Dash, Former Vice President, IEI and presently Council Member, IEI, graced the occasion as the Chief Guest and released the seminar souvenir. In his address, he shared insights on the technological and policy developments in the field of irrigation and the transformative potential of micro irrigation in achieving water sustainability and food security. Guest of Honour, Mr Sudam Chandra Biswal, Deputy Director of Horticulture, Koraput, discussed the initiatives taken by Government of Odisha in promoting micro irrigation among farmers. He explained how root zone watering and canopy control through drip and sprinkler systems have improved the yield and quality of horticultural crops like mango and vegetables in Koraput district. Er P K Jani, Assistant Executive Engineer, DDH, Koraput also present on the occasion.

A series of insightful lectures and presentations were delivered by renowned experts during the technical sessions. Dr Nutan Kumar Dash discussed on micro irrigation technologies and their role in sustainable agriculture and industry. Prof (Dr) Sriram Padhi, Central University, Koraput spoke on the integration of micro irrigation systems into traditional farming practices, highlighting success stories and data-driven outcomes. Prof (Dr) V S Devadas, Dean, Agriculture, GIET University, Gunupur on crop performance under various micro irrigation strategies in southern Odisha; Prof (Dr) N Sahoo, CATE, OUAT Bhubaneswar on institutional and policy support needed to scale micro irrigation solutions across Odisha and India; Dr Narayan Tiadi, Associate Professor, Environmental Science, Berhampur University on environmental impacts of micro irrigation and its role in mitigating water scarcity; Dr Prabhakar Behera, Chief Construction Engineer, Rural Works Circle, Sunabeda on insights into engineering design considerations, field implementation, and infrastructural integration of micro irrigation systems in rural development projects.

Participants included engineers from HAL, NALCO, Agriculture Department, GIET University, Rural Development Department and horticulture sector professionals. They actively interacted with the speakers and contributed valuable experiences and feedback.

A live field demonstration and component display of micro irrigation systems were inaugurated by Dr Nutan Kumar Dash, Mr Sudam Chandra Biswal and Er Sanjaya Kumar Bishoyi, Honorary Secretary, Sunabeda Local Centre, IEI. This practical showcase helped participants better understand system components and real-time application. A special mango plantation activity featuring the Amrapali variety was conducted and drip irrigation was applied from the first day. This demonstration, set up at the DDH campus, is intended to serve as a long-term awareness and training site under the maintenance of the Horticulture Department, Koraput.

Er Sanjaya Kumar Bishoyi, Honorary Secretary, Sunabeda Local Centre, IEI proposed the vote of thanks. He summarized the seminar's objectives and takeaways, discussed the advantages and limitations of micro irrigation and touched upon its potential for industrial use, such as cooling applications. He expressed gratitude to all dignitaries, speakers, participants and organizing members for making the seminar a resounding success.

The All India Seminar effectively highlighted the critical role of micro irrigation in addressing water challenges and enhancing agricultural productivity. The event fostered knowledge exchange among engineers, horticulturists, scientists and local stakeholders, paving the way for future collaborations and field adoption. The live demonstration, expert lectures and practical discussions offered valuable insights into sustainable water use practices, especially relevant to the agrarian landscape of Odisha.

One Day Seminar under the aegis of Aerospace Engineering Division Board

Safety & Reliability in Spacecraft Systems

Ghaziabad Local Centre, IEI, in collaboration with HRIT University, Ghaziabad organized a One-Day Seminar on **Safety & Reliability in Spacecraft Systems** on 09 May 2025 under the aegis of Aerospace Engineering Division Board [ASDB] at HRIT University Ghaziabad Auditorium. The seminar aimed to explore critical themes around spacecraft safety, mission reliability, material quality assurance and payload design, with the participation of eminent scientists and engineers from ISRO and the defense sector.

Dr Satish Chandra Gupta, Chairman, Ghaziabad Local Centre, IEI welcomed the dignitaries and participants. He emphasized the significance of understanding spacecraft safety during take-off, orbitation and landing phases and expressed hope that the deliberations would enhance awareness among young engineers. Er (Dr) Anil Kumar Agarwal, Chancellor, HRIT University & Ex-MP (Rajya Sabha), graced the occasion as the Chief Guest. In his address, he highlighted the invaluable contributions of spacecraft missions to the national economy and underscored the

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Materials Challenges in Marine Application

Rourkela Local Centre, IEI organized a One-Day Seminar on **Materials Challenges in Marine Application** on 28 December 2024 under the aegis of Marine Engineering Division Board [MRDB], IEI at Rourkela. The Seminar focused on the interdisciplinary challenges and opportunities posed by the marine environment, particularly in materials performance, biotechnology applications and marine-based food innovation. Number of participants including engineers, academicians, researchers and students attended the Seminar.

The Seminar began with the welcome address delivered by Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI. In his address, he outlined the importance of materials selection and sustainability in marine environments, especially considering corrosion, biofouling and ecological impact. He emphasized the seminar's aim to highlight innovative applications and foster academic-industry collaboration.

Prof (Dr) Saroj Kumar Patel, Department of Mechanical Engineering, NIT Rourkela, graced the event as the Chief Guest. He addressed the gathering with an insightful overview of the evolving applications of marine resources and materials. Notably, he discussed the nutritional and economic prospects of marine algae in food technology, emphasizing their role in sustainable development and future food security. He also released the seminar souvenir during the inaugural function. The Seminar theme was introduced by Dr Arun Prasath Venugopal, Convenor of the Seminar. He provided a comprehensive overview of the challenges in deploying materials in marine settings and the emerging solutions involving biotechnology and green engineering practices. The inaugural session concluded with a vote of thanks delivered by Dr Hara Mohan Jena, Past Honorary Secretary, Rourkela Local Centre, IEI who expressed gratitude to the guests, speakers and participants for their valuable presence and contributions.

The technical sessions were rich with multidisciplinary insights and presentations, comprising four Keynote lectures and three technical papers, reviewed by subject experts. Keynote Lectures delivered by Dr N Muralidharan, Assistant Professor, Dr M G R Fisheries College and Research Institute, Ponneri, Chennai on the topic 'Reimagining Fish Byproducts – A New Era of Circular Bio Economy'; Dr Vivek Kambhampati, Assistant Professor, Department of Food Process Engineering, NIT Rourkela on 'Marine Probiotics: Unlocking Potential for Health and Nutrition'; Dr Soukat Kumar Das, Assistant Professor, Department of Civil Engineering, NIT Rourkela on 'Material Challenges in Offshore Construction' and Dr Balasubramanian P, Associate Professor, Department of Biotechnology and Medical Engineering, NIT Rourkela on 'Material Challenges in Marine Pollution Control'.

Further, during the technical sessions, technical papers were presented on 'Fortifying Low-Fat Engineered Meat with Chitin and Algal Biomass: Marine-Derived Materials in Food Innovation'; 'Smart pH-Sensitive Films from Kodo Millet Starch, Gum Tragacanth, and Beetroot Peel Extract for Shrimp Freshness Monitoring' and 'Integrating Cold Plasma Pre-Treatment with Ultrasonic Extraction to Enhance Yield and Bioactivity of Fucoidan from Brown Algae (Sargassum ilicifolium)'.

The Seminar concluded with a valedictory session, wherein the key outcomes and recommendations were discussed. Several suggestions were made on improving material performance through interdisciplinary approaches and integrating marine biotechnology in practical applications. Experts appreciated the diverse themes and depth of technical content. The seminar provided a comprehensive platform for the exchange of knowledge and opened new avenues for research and innovation in the field of marine materials and biotechnology.

Safety & Reliability in Spacecraft Systems

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vast career opportunities for engineering graduates in the space sector. He also inaugurated the Space Exhibition for the benefit of the attendees. Guest of Honour of the event, Dr Sameer Saran, Deputy General Manager, NRSC, ISRO, Hyderabad delivered an enlightening address on the role of space expeditions in weather forecasting, agricultural planning, mineral detection and scientific discovery. Dr Anjul Agarwal, Pro-Chancellor, HRIT University was present on the dais as the Distinguished Guest. Er Anil C Mathur, Co-Convener of the Seminar, detailed the objectives of the event, types of papers, authors' backgrounds and the scope of the exhibition. The inaugural session concluded with a vote of thanks by Er Punit Goel, Honorary Secretary, Ghaziabad Local Centre, IEI.

During the technical sessions of the Seminar, expert lectures were presented by the eminent speakers. Dr S C Sharma, Former Associate Director, VSSC, ISRO & Visiting Professor, CSST, IIT Roorkee delivered presentation on 'Ensuring Reliability & Safety of Materials for Emerging Indian Space Programmes'. Dr Bhanu Pant, Former Group Director, VSSC, ISRO & presently Visiting Professor, CSST, IIT Roorkee discussed on 'Quality Assurance of Raw Materials and Launch Vehicle Parts'. Shri Vinod Kumar Srivastava, Former General Manager, SDSC, ISRO, Sriharikota delivered virtual presentation on 'Safety in Launching Satellite Launch Vehicle from SDSC Shar'. Wg Cdr B K Yadav, Indian Air Force spoke on 'Safety and Reliability Features in Missile Systems'. Shri Surinder Singh, Former Director, SCL & Advisor, MAITI, New Delhi deliberated on 'Satellite Earth Stations – Challenges in Design and Manufacturing in Satcom Payloads'. Shri A K Lal, Former Deputy Director, SAC, ISRO, Ahmedabad delivered an online presentation on 'Quality Assurance and Reliability of Satellite Payloads'. Shri G P Singh, Former Project Director, ISRO & Chairman, IETE Noida Chapter on 'Design and Challenges in Satellite Earth Stations. Er Jagdish Kumar, Former General Manager (CNS), Airports Authority of India, CHQ CNS Planning Directorate, spoke on 'Basic Safety Concepts'. Each session witnessed interactive Q&A rounds and enthusiastic participation from delegates.

The valedictory function held in the afternoon was chaired by Er Anil C Mathur, who presented a comprehensive synopsis of the lectures and technical papers discussed during the seminar. He expressed satisfaction with the knowledge exchange and emphasized the need for continuous learning in such critical and evolving domains. The seminar concluded with a vote of thanks delivered by Er Punit Goel, Honorary Secretary, Ghaziabad Local Centre, IEI marking the end of a highly engaging and insightful one-day academic event.

The Seminar was a resounding success, fostering technical awareness and academic-industry collaboration in the crucial field of space mission safety and reliability.

One Day Seminar under the aegis of Textile Engineering Division Board

Textile Machinery and Equipment Design

Rourkela Local Centre, IEI, successfully organized a One Day Seminar on **Textile Machinery and Equipment Design** on 15 December 2024 under the aegis of Textile Engineering Division Board [TXDB] at Rourkela. The event aimed to bring together engineers, academicians and students to explore recent innovations and sustainable practices in textile machinery and related equipment.

The inaugural session began with the welcome address by Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI. He emphasized the evolving innovations and trends in textile machinery, underlining the need for continuous R&D and interdisciplinary collaboration in this field.

The Guest of Honour, Dr Madhuresh Dwivedi, Associate Professor, Department of Food Process Engineering, NIT Rourkela delivered a comprehensive talk on the latest textile machinery with a focus on industry needs and future developments. As a recipient of the prestigious BRICCS Award, Dr Dwivedi also highlighted the role of responsible business practices in the fields of education, health and environment. His recognition was formally acknowledged and celebrated with a felicitation by the Chairman.

Dr Ajit Behera, Honorary Secretary, Rourkela Local Centre, IEI and faculty member at the Department of Metallurgical & Materials Engineering, NIT Rourkela introduced the Seminar theme and its relevance in the current global context. A digital version of the seminar souvenir was released by Er Santosh Kumar Polaki, symbolizing the centre's commitment to sustainability and digital transformation.

Two Keynote lectures and other technical paper presentations formed the core of the seminar's technical sessions. These sessions were moderated and evaluated by eminent experts from the textile and allied industries. Dr Madhuresh Dwivedi delivered Keynote lecture on 'Textiles Production from Food Extract/Byproduct' and spoke on the interdisciplinary innovation of deriving textile materials from agro and food byproducts, contributing to circular economy and sustainable production. Dr Kashinath Barik, Department of Chemical Engineering, Indira Gandhi Institute of Technology, Sarang, Dhenkanal delivered Keynote lecture on 'Green Textile: A Sustainable Alternative', and focused on eco-friendly textiles, biodegradable materials, and reducing environmental footprints through green manufacturing techniques. Dr Ajit Behera spoke on 'E-Textile and Industry 4.0'. Er Santosh Roy, Department of Textile and Fibre Engineering, IIT Delhi delivered presentation on 'Advanced Machinery in Textile Industries'. Shri Sourav, Department of Textile and Fibre Engineering, IIT Delhi spoke on 'Advances in Textile Ecosystem'.

The Seminar concluded with a valedictory session, where reflections and recommendations from the day's deliberations were shared. The discussions emphasized the need for sustainability, digital integration and innovative material sourcing in textile engineering. The vote of thanks was extended by Dr Ajit Behera acknowledging all dignitaries, speakers, participants and organizing members.

The Seminar witnessed active participation from corporate members, guests and students and successfully fulfilled its objective of fostering innovation, collaboration and awareness in the field of textile machinery and equipment design.

One Day Seminar under the aegis of National Languages Promotional Committee

Opportunities and Applications of Artificial Intelligence in Electronic Sector

Coimbatore Local Centre, IEI, in collaboration with the Department of Electronics and Communication Engineering, PSG Polytechnic College successfully organized a One Day Seminar on **Opportunities and Applications of Artificial Intelligence in Electronic Sector** on 12 December 2024 under the aegis of National Languages Promotional Committee [NLPC], IEI at PSG College of Technology, Coimbatore. The Seminar brought together academia and industry professionals to deliberate on the transformative role of Artificial Intelligence in the electronics sector.

The Seminar commenced with a welcome address delivered by Dr J Krishnamoorthi, Chairman, Coimbatore Local Centre, IEI. He underlined the pivotal role of AI in reshaping the electronics industry and driving innovation. Dr B Giriraj, Principal, PSG Polytechnic College, felicitated the gathering and appreciated the joint efforts of IEI in organizing such an insightful Seminar. Ms D Jayasree, HoD, Department of Electronics and Communication Engineering [ECE], PSG Polytechnic College, Coimbatore briefed the audience on the Seminar's objectives, highlighting its significance in the context of rapid AI advancements.

Mr S Chidambaranathan, Managing Director, Vasantha Advanced Systems Private Limited, Coimbatore, graced the function as the Chief Guest. Mr Chidambaranathan discussed the ongoing AI revolution in the electronics sector, emphasizing how emerging technologies are streamlining production, reducing errors and accelerating time-to-market. The inaugural session concluded with a vote of thanks proposed by Prof (Dr) Madhan Mohan Gopalsamy , Honorary Secretary, Coimbatore Local Centre, IEI. Mr S Chidambaranathan, delivered an Invited Lecture on 'Transforming Electronics Manufacturing Through AI' and focused on the impact of AI in predictive maintenance, quality control, supply chain optimization and automation. Dr S Venkatapathy, Director, Anaadi Rural AI Centre, Palani delivered Invited Lecture on 'AI-Enabled Technologies and Frameworks' and explained the essential steps in data preparation, model training and evaluation. Dr R Vimalathithan, Founder and Director, Krishtec, Coimbatore delivered an Invited Lecture on 'Revolutionizing Driver Assistance with AI'. The speaker highlighted the advancement of AI in vehicle safety systems and explored adaptive cruise control, lane keeping assistance, pedestrian detection etc emphasizing their role in enhancing road safety. Mr D Muralidhar, Manager – Training, PSG Industrial Institute delivered an Invited Lecture on 'AI-Enabled Digital Twins' and explained the concept of Digital Twins and their integration with AI.

The Seminar concluded with a valedictory session, where speakers and participants shared their experiences and feedback. The session acknowledged the valuable contributions of all resource persons and the enthusiastic participation from faculty, students and industry delegates. Mementos and certificates were distributed to the speakers and organizing members as a token of appreciation.

This One Day Seminar successfully highlighted the growing relevance and integration of Artificial Intelligence in the electronics domain and encouraged future collaborative learning and research initiatives in this emerging area.

Next Generation Military Technologies

Sunabeda Local Centre, IEI organized a One Day Seminar on the topic **Next Generation Military Technologies** on 11 December 2024 under the aegis of Aerospace Engineering Division Board [ASDB], IEI at SCITM College, Semiliguda. The Seminar aimed to deliberate on recent advances in defense technologies, fostering knowledge exchange among engineers, academicians, and industry professionals.

The Seminar commenced with inviting the guests on the dias by Er Sanjaya Kumar Bishoyi, Honorary Secretary, Sunabeda Local Centre. The welcome address was delivered by Er Premanand Maity, Chairman, Sunabeda Local Centre, IEI who highlighted the importance of adapting to emerging military technologies in the current global defense scenario.

Er Krushna Singh, Chairman, SCITM College, Semiliguda, graced the occasion as the Chief Guest and shared his insights on fostering academia-industry collaboration to drive innovation in military applications. The Guest of Honour, Dr Nutan Kumar Das, the then Vice President, IEI emphasized the need for sustained research and development in defense technology to maintain strategic superiority.

The Keynote address was delivered by the Chief Speaker, Er Hara Kumar Mohanty, Director, DGAQA, HAL, Sunabeda who provided a comprehensive overview of India's advancements in indigenous defense manufacturing and highlighted the critical role played by HAL and DGAQA in shaping the future of next-generation military systems.

The Seminar featured a series of technical presentations from esteemed experts. Er Manas Ranjan Subudhi, Chief Manager, HAL, Sunabeda delivered a lecture on the topic 'Future Combat Aircraft Technology' and discussed the trends in stealth, avionics and aerodynamic innovations. Er Manoj Kumar Pattanaik, Manager, HAL, Sunabeda, spoke on Artificial Intelligence, detailing its applications in autonomous systems and combat simulations. Er. Anjana Nayak, Manager, HAL, Sunabeda, presented on Digital Twin Technology, explaining its utility in predictive maintenance and real-time system modeling. Er Rudra Prasanna Das, Senior Manager, HAL, Sunabeda, shared techniques on Problem Solving in Engineering Projects, focusing on HAL's operational strategies. Dr Rajesh Kumar Dora, Director, SCITM College, delivered a presentation on Hypersonic Weapons, highlighting emerging propulsion systems and strategic implications.

The Seminar concluded with a valedictory session where speakers and participants shared their feedback. The organizing team was appreciated for such timely and informative seminar. The One Day Seminar proved to be a successful platform for knowledge dissemination and collaboration in the field of military technologies, reflecting IEI Sunabeda's commitment to advancing engineering frontiers in national interest.

Application of Numerical Modelling in Mining

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- *Awareness about the ethical use of simulations and their limitations is crucial to avoid over-reliance on models. Promoting open-source tools can increase accessibility, especially for students and smaller institutions.*
- *Emphasis should be given on integrating these modeling approaches into mining education and industry training programs to enhance understanding of geomechanical behavior and subsidence prediction.*
- *Developing localized case studies and best practices aligned with Indian mining conditions and regulatory frameworks, including relevant sections of the Mines Act, will help bridge theory and practice.*
- *The importance of accurate model setup, validation, and interpretation of results should be reinforced to improve risk assessment and design optimization in both underground and open-cast mining environments.*
- *Encouraging closer collaboration between academia, industry professionals, and regulatory bodies can foster innovation and adherence to safety standards. Additionally, raising awareness of the ethical considerations and limitations of numerical modeling will ensure responsible use of these tools in mine planning and hazard mitigation.*

The session concluded with an interactive Q&A, effectively reinforcing the role of numerical modeling in advancing scientific and safe mining practices.

Discount at the Samsung e-store for IEI Corporate Members

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

IEI Celebrates

World Environment Day 2025

Theme : Beat Plastic Pollution

World Environment Day was celebrated by the Centres/Forum of the Institution all over the country on 5 June, 2025. Brief accounts of the celebration as received from various Centres are reported hereunder.

STATE CENTRES

Jammu & Kashmir

Jammu & Kashmir State Centre, IEI in collaboration with the Directorate of School Education, Kashmir, commemorated World Environment Day 2025 on 05 June 2025 at Srinagar. The day began with a Student Awareness Rally at Zabarwan Park, Srinagar, under the patronage of Shri Shantmanu, IAS, Financial Commissioner/Additional Chief Secretary, supported by the Directorate of Tourism. Students raised awareness about the hazards of plastic use through placards and slogans. A technical seminar followed at the Centre auditorium, where Technical presentations were delivered by students and engineers from GCET Safapora, NIT Srinagar and Government departments, offering innovative perspectives. Chief Guest, Dr Owais Ahmed IAS, Commissioner, Srinagar Municipal Corporation and Guest of Honour, Er Khurshid Ahmad Ganai, Retd IAS highlighted the need for synergy between policy and civic responsibility.

Karnataka

Karnataka State Centre, IEI, in collaboration with Dayananda Sagar College of Engineering (DSCE), Bengaluru, organized a technical webinar on 05 June 2025 to commemorate World Environment Day. The event aimed to raise awareness and explore innovative solutions to plastic pollution. Dr H K Ramaraju, Vice Principal & Head, Civil Engineering, DSCE, highlighted the significance of collective action. Er R P Mallik, Chairman, IPHE Karnataka Chapter, emphasized sustainable environmental practices and community engagement. Dr B G Prasad, Principal, DSCE, underscored the role of academia in environmental responsibility. The Keynote address was delivered by Dr Leena Shevade, Project Engineer, Boomi Environmental, USA, who discussed global innovations and policy frameworks for plastic alternatives. Er Narayanaswamy K N, Former Assistant Commissioner of Police, Bengaluru provided practical engineering solutions for a plastic-free world. Dr M Nagaraj, Chairman, Karnataka State Centre, IEI, acknowledged the contributions of speakers, organizers and participants in fostering environmental consciousness.

Rajasthan

Rajasthan State Centre, IEI celebrated World Environment Day on 05 June 2025 at Jaipur. Chief Guest of the event was Prof Shiv Dayal Bharti, Professor & Head, Civil Engineering Department, MNIT Jaipur. Keynote Speaker, Er Azmeera Balu, Assistant Technical Officer, CIPET, Sitapura, Jaipur elaborated on the environmental and health hazards of plastics, including their adverse effects on women's health, marine life, soil and air quality. Prof Bharti advocated for daily eco-friendly habits and called for strong legislation and corporate accountability. The other distinguished speaker Er Neha Sakka, Spearhead TEVAO program and Electrical Engineer (Policy& Industrial Area) JVVNL Jaipur stressed reducing single-use plastics, promoting innovation and using recycled plastic in road construction.

Uttar Pradesh

Uttar Pradesh State Centre, IEI observed World Environment Day on 05 June 2025 at Lucknow. Keynote speaker, Mr Pradeep Kumar, Assistant Professor, Chemical Engineering Department and Associate Dean (PG), IET emphasized the urgent need to reduce plastic waste and shift towards eco-friendly alternatives. The session highlighted the environmental hazards posed by single-use plastics and advocated sustainable practices such as reuse, recycling and community awareness. A large number of professionals actively participated, reinforcing their commitment to a greener future.

LOCAL CENTRES

Agra

Agra Local Centre, IEI in collaboration with the Department of Civil Engineering, Institute of Engineering and Technology, Dr Bhimrao Ambedkar University, celebrated World Environment Day 2025 on 05 June 2025 at Agra. Er Rajneesh Kumar Yadav, Chairman, Agra Local Centre, IEI emphasized the urgent need to tackle plastic pollution, highlighting the persistence of microplastics in the environment. Keynote speaker, Er Lakshman Singh, Former Executive Engineer, Irrigation Department, Government of Uttar Pradesh stressed nature-inspired solutions and the importance of the 3Rs—Replace, Recycle and Reuse. Er V K Gupta, Retired Senior Faculty, SGI Group, earlier Chief Engineer, Vardhman Polytex Limited, Bhatinda Unit advocated for deeper engagement with the principles of refusing, reducing, reusing, recycling and rethinking plastic use. Dr Tanveer Qamar, Assistant Professor, Department of Electrical Engineering, Faculty of Engineering and Technology, Agra College Agra linked plastic pollution to climate change and environmental damage. Er Mohd Arif, Assistant Professor, Department of Mechanical Engineering, Sharda University, Agra spoke on global negotiations for a treaty to end plastic pollution. A tree plantation drive was also held.

Ahilyanagar

Ahilyanagar Local Centre, IEI in collaboration with Lauritz Knudsen Electrical and Automation, MIDC, Ahmednagar celebrated World Environment Day on 05 June 2025 with a knowledge-sharing session and tree plantation at Ahilyanagar. Chief Guest, Shri Popatrao Pawar, Padmashree Awardee and Executive Director of the Project Model Village Programme, emphasized

that plastic poses a severe environmental threat and urged individuals to adopt eco-friendly habits and reduce plastic use. Er Arvind Pargaonkar, Ex-Business Vice President, Schneider Electric India Private Limited, described plastic as a global menace and proposed a 10-point action plan including avoiding single-use plastics, opting for cotton bags, reducing air travel and choosing sustainable lifestyles. A tree plantation drive was organized on the occasion.

Alwar

Alwar Local Centre, IEI, in collaboration with Ashok Leyland, organized a tree plantation drive followed by an awareness seminar on 'Protection of Environment' and 'Ending Plastic Pollution Globally' on 05 June 2025. The event witnessed active participation from engineers of Ashok Leyland and IEI members. Shri Ramakant Sharma, Head of the Ashok Leyland unit highlighted the company's commitment for environmental sustainability. Er Pradeep Kumar Sharma, Chairman, Alwar Local Centre, IEI emphasized the significance of World Environment Day and the urgent need to address plastic waste. Representatives from Ashok Leyland - Shri Mukesh Sharma, Shri Jagdish, Shri Anil Vijay, and Shri Subhash Kumar shared their ongoing environmental initiatives.

Bhimavaram

Bhimavaram Local Centre, IEI organized an online guest lecture on the theme 'Beat Plastic Pollution' to mark World Environment Day on 05 June 2025. The session featured Dr P Raghuram, Associate Professor, WET Research Centre, Department of Civil Engineering, SRKR Engineering College, as the Chief Guest and Speaker. Dr Raghuram delivered an insightful lecture on the environmental and health hazards posed by plastic pollution, stressing the importance of the 3Rs - Reduce, Reuse and Recycle and the need for collective responsibility through community action. He also discussed innovative and sustainable alternatives to single-use plastics, encouraging institutions, industries and individuals to shift towards biodegradable materials and support policies for plastic waste reduction. The lecture successfully raised awareness and motivated attendees to take active steps toward combating plastic pollution.

Bokaro Steel City

Bokaro Steel City Local Centre, IEI in collaboration with SAIL, Bokaro Steel Plant, celebrated World Envi ronment Day on 05 June 2025 at Bokaro Steel City. Chief Guest of the event was Sri Sharad Gupta, CGM (Maintenance), BSL and Sri D K Saxena, CGM (Environment Control and Sustainability), BSL was the Guest of Honour. A pledge for environmental conservation was administered to all attendees. Sri Sharad Gupta urged the younger generation to live in harmony with nature and minimize plastic usage, while Sri Saxsena emphasized the importance of a zero-plastic initiative and highlighted Bokaro Steel Plant's sustainability efforts. Sri Nitesh Ranjan, AGM/Environment, presented a paper on the theme. The morning saw a tree plantation drive by corporate members.

Dhanbad

Dhanbad Local Centre, IEI, in association with the Department of Environmental Science & Engineering, IIT ISM Dhanbad, celebrated World Environment Day 2025 on 05 June 2025 at Dhanbad. The event commenced with an inaugural session attended by dignitaries including Prof Alok Sinha, HOD, Dept of Environmental Science and Engineering [ESE], IIT ISM; Prof Biswajit Paul, Professor, Dept of ESE and Honorary Secretary, Dhanbad Local Centre, IEI. Prof Paul delivered a thoughtful introduction emphasizing the importance of addressing plastic pollution. The technical highlight of the event was a Keynote lecture by Prof Paul on the topic 'Beat Plastic Pollution by Awareness on Curbing Usages of Single Use Plastic'.

Durgapur

Durgapur Local Centre, IEI observed World Environment Day 2025 on 05 June 2025 at Durgapur. Dr Biswajit Ruj, Former Senior Principal Chief Scientist, CSIR-CMERI, Durgapur graced the event as the Guest of Honour and Keynote Speaker. The event began with the screening of a compelling documentary, "Plastic Pollution in India", setting the tone for the day's theme. Dr Bimal Das, Honorary Secretary, Durgapur Local Centre, IEI highlighted the environmental and health impacts of plastic pollution, stressing the need for sustainable alternatives. Dr Chandan Koner, Chairman, Durgapur Local Centre, IEI addressed the harmful effects of plastic accumulation in ecosystems due to improper disposal practices. Dr Ruj delivered the Keynote lecture on the topic "Plastic Waste: Options for Recovery of Value-Added Products', where he discussed innovative waste management strategies like incineration, mechanical recycling, and chemical recycling, with emphasis on catalytic pyrolysis and plasma pyrolysis as sustainable solutions.

Faridabad

Faridabad Local Centre, IEI, in association with Lingaya's Vidyapeeth University, Faridabad, celebrated World Environment Day 2025 on 05 June 2025 at Faridabad. Maj Gen (Dr) Y Chaudhary, Pro Vice Chancellor, Lingaya's Vidyapeeth stressed individual responsibility in sustainability and mentioned that collective environmental responsibility begins with individual action and self discipline. Dr M K Soni, Patron, Lingaya's Vidyapeeth, discussed the global threat of microplastics and proposed actionable measures. Dr Somvir Bajar, Assistant Professor, Department of Environmental Sciences, J C Bose University of Science and Technology, Faridabad delivered the Keynote address, offering scientific insights into plastic waste management, policy strategies and SDG-aligned grassroots initiatives.

Gwalior

Gwalior Local Centre, IEI celebrated World Environment Day 2025 on 05 June 2025 at Gwalior. Prof (Dr) Chandra Sekhar Malvi, Chairman, Gwalior Local Centre, IEI underscored the importance of recognizing this day as a Statutory Day and its role in addressing global environmental challenges. Keynote Speaker, Er Rajendra Singh Bhadauriya, Government Consultant -Environment, stressed the urgency of collective action against

plastic pollution, calling for innovative and real-world solutions. Eminent speakers including Er U S Pandey, Former Chief Engineer, PHE; Er K K Saraswat, Former Executive Engineer, PHE; Er Vishnu Kumar Agrawal from BHEL and Er Vinay Kumar Shukla, Past Honorary Secretary of the centre elaborated the causes, impacts and remedies for plastic pollution, emphasizing the 3Rs - Reduce, Reuse, Recycle - as essential tools for mitigation. Er Pramod Singhal, Past Chairman of the centre and HOD EC, MITS University advocated awareness and community clean-ups.

Jammu

Jammu Local Centre, IEI observed World Environment Day 2025 on 05 June 2025 at Jammu. Dr Devansh Yadav, IAS, Commissioner, Jammu Municipal Corporation & CEO, Jammu Smart City Limited, graced the event as the Chief Guest. Dr Pratik Kumar, Assistant Professor, Environmental Engineering, IIT Jammu, delivered the Keynote address. Er Anil Verma, Chairman, Jammu Local Centre, IEI called for a ban on single-use plastics and enforcement of a Non-Biodegradable Garbage Control Act. Dr Yadav announced the upcoming mandate for using plastic in road blacktopping as a sustainable disposal method. Dr Kumar emphasized joint action by government, academia, industry and the public to combat plastic pollution and warned of the health risks posed by microplastics. Various technical papers were presented during the program.

Kanchipuram

Kanchipuram Local Centre, IEI, in association with EPMCR Private Limited - an IIT Madras incubated company, celebrated World Environment Day 2025 on 05 June 2025 at IIT Madras Research Park, Chennai. The event gathered young design and construction engineers to explore industry driven solutions for plastic reduction. Dr S Ramesh, Chairman of the Centre emphasized the pervasive role of plastics in manufacturing and packaging and the urgent need for industry to adopt sustainable alternatives. Technical sessions featured expert talks including Mr Amit Vaishnav, Entrepreneur & Food Technologist, Ariha Foods, Chennai on the environmental impact of plastics in food logistics, Ms Krithika Subrahmanian, Architect & Entrepreneur, Transform Design, Chennai on plastic-free construction practices, Mr Sudhakar Perumal, President – Exports (Concrete Products) and Sustainability Business, Schwing Stetter India Private Limited, Chennai on recycling and reuse of demolition waste, and Mr Madhusudhanan, Technical Lead, Senergy IOT Private Limited, Chennai spoke on IOT-based air quality monitoring. The program underlined the potential of lean principles and mindful construction to reduce plastic use.

Kanpur

Kanpur Local Centre, IEI, in collaboration with the Department of Civil Engineering and the Department of Plastic Technology, HBTU Kanpur, observed World Environment Day on 05 June 2025 through online mode. Dr Manish Kumar, Assistant Professor, Department of Plastic Technology, HBTU delivered the theme address, highlighting the global threat of plastic pollution to ecosystems, biodiversity and human health due to the pervasive presence of plastic waste and microplastics. Dr Kumar emphasized the urgent need for systemic reforms, individual responsibility and sustainable alternatives to combat plastic waste, stressing the importance of recycling, reduced consumption and supportive policy measures.

Kochi

Kochi Local Centre, IEI celebrated World Environment Day on 07 June 2025 at Kochi, The event aimed at fostering environmental awareness and sustainability among students and featured spirited student competitions including poster design, elocution and quiz contests, engaging the participants from various schools and colleges. During the valedictory session, Chief Guest, Er S Sreekala, Chairperson, Kerala State Pollution Control Board, delivered a compelling Keynote on microplastic threats and the need for sustainable practices. Er George V James, MD, Rubber Park, also addressed the gathering, advocating for green industrial initiatives. The event left a strong impression on the need for collective environmental action and youth engagement.

Kolhapur

Kolhapur Local Centre, IEI, in association with Yoga Seva Foundation, Lions Club, Kolhapur and Vadgaon Municipal Corporation, observed World Environment Day 2025 with a focus on promoting environmental awareness and collective sustainability efforts on 05 June 2025 at Kolhapur. Chief Guest of the session was Mr Sumit Jadhav, Chief Officer, Vadgaon Municipal Council. Also, Mr Rajendra Jadhav, President, Yoga Seva Foundation; Mr Avinash Pendurkar, President, Lions Club, Kolhapur; Mr Girish Baraskar, Secretary, Lions Club Kolhapur and Mr Santosh Sangar, Brand Ambassador, Vadgaon Nagar Palika were present on the occasion. A significant tree plantation activity followed, symbolizing a collective commitment to ecological responsibility. The event united civic bodies, professionals and the community in a shared vision for a greener future.

Kollam

Kollam Local Centre, IEI celebrated World Environment Day on 03 June 2025 at Kollam. Dr M Nazeer, HOD in Charge, Civil Engineering Department, UKF College of Engineering and Technology, Kollam emphasized the vital role of civil engineers in environmental conservation. Dr Jayaraju Madhavan, Principal, UKFCET, in his address, urged to embrace sustainability in academics and daily life. Prof (Dr) Ms Sudhi Mary Kurian, Honorary Secretary, Kollam Local Centre, IEI spoke on the significance of IEI student membership and the organization's commitment to sustainable engineering practices, encouraging students to innovate against plastic pollution. Dr E Gopalakrishna Sarma, Deputy Director (Academics) and Sri A Sundaresan, PTA Patron, also addressed the audience. Mr Thodiyoor Radha Krishnan, Faculty & Resource Person, Suchitwa Mission & KILA, delivered an expert talk on 'Scientific Solutions to Plastic Pollution: Innovatiove Strategiesto Eliminate Plastic Waste'.

Ludhiana

Ludhiana Local Centre, IEI in collaboration with Lions Club Ludhiana, celebrated World Environment Day on 05 June 2025 at Ludhiana. The event was marked by the plantation of medicinal and fruit bearing trees to promote environmental sustainability. Sh Naupam Nanda, Former Senior District Manager, Punjab Energy Development Agency, graced the occasion as the Chief Guest and emphasized the significance of individual efforts in minimizing plastic waste. Dr Arvind Dhingra, Chairman, Ludhiana Local Centre, IEI highlighted the urgency of addressing the rising plastic waste crisis. Members of Ludhiana Local Centre, IEI, Lions Club Ludhiana, along with faculty and staff of GNDEC, participated in the programme with enthusiasm. The event served as a platform to reinforce community responsibility towards the environment.

Madurai

Madurai Local Centre, IEI celebrated World Environment Day on 02 June 2025 at Madurai. Prof (Dr) P Udhaya Kumar, Chairman, Madurai Local Centre, IEI highlighted the significance of World Environment Day in promoting global environmental awareness. Chief Guest, Er T Kannan, Former District Environmental Engineer, Tamil Nadu Pollution Control Board delivered a compelling lecture emphasizing the global urgency to tackle plastic pollution. The session underscored the environmental, social and economic costs of plastic and stressed collective action to combat the crisis.

North Bengal

North Bengal Local Centre, IEI observed World Environment Day 2025 on 05 June 2025 at Jalpaiguri. Er Shrayasi Datta, Honorary Secretary of the host Centre introduced the theme and emphasized the urgent need to address the widespread environmental damage caused by single-use plastics. Er Chinmoy Ghosh, Past Honorary Secretary of the centre, elaborated on the critical role of individual, community and governmental efforts in reducing plastic use, recycling effectively, and promoting eco-friendly alternatives. Members of the host Centrew actively participated in a thought-provoking discussion on sustainable practices and innovative solutions. They advocated for stricter plastic regulations, public education and support for biodegradable alternatives to ensure long-term environmental protection.

Prayagraj

Prayagraj Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Prayagraj, by organizing a seminar on climate change with a special emphasis on biopolymers. Prof Avanish Kumar Dubey, Chairman, Prayagraj Local Centre, IEI highlighted the global concern over plastic pollution and underscored the role of the United Nations Environment Programme in promoting sustainable development. He emphasized the need for stringent regulations and public cooperation to combat pollution effectively. Distinguished speaker, Prof Pradip Kumar Dutta from the Department of Chemistry, MNNIT Allahabad, elaborated the critical impact of plastic on the environment and proposed sustainable alternatives such as biodegradable utensils and biopolymers. The event saw active participation from IEI corporate members, MNNIT faculty and research scholars, reinforcing commitment toward a pollution free future.

Rourkela

Rourkela Local Centre, IEI observed World Environment Day on 05 June 2025 at Rourkela, through hybrid mode. A seminar was organised on the topic 'Plastic Pollution: A Major Environmental Issue'. Invited speaker, Er P C Dash, General Manager In-Charge, Environment Engineering, Rourkela Steel Plant (RSP), SAIL, presented an insightful lecture highlighting the alarming levels of plastic waste and its detrimental effects on ecosystems and human health. Prof Singham Jayanthu, Past Honorary Secretary of the centre coordinated the event, introduced the speaker and moderated the discussions. The presentation was followed by an interactive session involving academicians and industry professionals, fostering dialogue on sustainable solutions.

Tiruvallur

Tiruvallur Local Centre, IEI celebrated World Environment Day on 05 June 2025 at Tiruvallur. The event aimed to raise awareness about the escalating crisis of plastic waste and emphasized sustainable environmental practices. Distinguished speaker, Dr Sridhar Harikrishnamoorthy, Founder and Chief Scientific Officer, Orcci Eco Products, Chennai, with his extensive expertise in sustainable product development delivered an insightful lecture covering the environmental and health impacts of plastic pollution, innovative eco-friendly alternatives and the critical roles of industries and communities in driving change.

Know-Your-Member (KYM)

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

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

Deputy Director (Membership)

The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700020
Email: datamemb@ieindia.org

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

IEI Celebrates
World Telecommunication and Information Society Day 2025

Theme: **Gender Equality in Digital Transformation**

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

STATE CENTRES

Assam

Assam State Centre, IEI celebrated World Telecommunication and Information Society Day (WTISD) on 17 May 2025 at Guwahati. Speaker of the session was, Dr Kaustubh Bhattacharyya, Associate Professor, Assam Skill University, Dr Bhattacharyya delivered a comprehensive presentation on digital transformation, gender equality and the evolution and impact of telecommunication technologies, stressing actionable strategies to bridge the gender gap in digital access.

Bihar

Bihar State Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025, focusing on the theme of gender equality in the digital era at Patna. The Keynote address was delivered by Dr Sweta, Assistant Professor, Department of PMIR, A N College, Patna, who highlighted the urgency of addressing gender inequality in the context of digitalization and artificial intelligence, stating that rights and opportunities must not be determined by gender. Shri R K Choudhury, ITS, Chief General Manager, BSNL, Bihar Telecom Circle, Patna, graced the event as the Chief Guest and spoke on how the digital revolution is transforming society by unlocking opportunities for innovation, economic development, and inclusive growth. The program saw enthusiastic participation from corporate members, students, engineers, and technocrats across government, industry, and academia.

Delhi

Delhi State Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 through online platform. The event featured distinguished speakers, Prof (Dr) Gurbandini Kaur, All India Management Association and Shri Arjan Singh Jassal, Web Developer. Dr Kaur delivered an insightful lecture on the topic 'Bridging the Digital Gender Divide', emphasizing the need for inclusive digital policies and initiatives to empower women. Shri Jassal elaborated on the impact of gender equality in digital transmission and its role in shaping an equitable digital future. The session witnessed active participation from corporate members, professionals and students.

Goa

Goa State Centre, IEI successfully organized an online seminar on 17 May 2025 to commemorate World Telecommunication and Information Society Day. Er Anwar Isaac Khan, Chairman, Goa State Centre, IEI emphasized the significance of the day. The first technical session featured presentations by licensed amateur radio operators, Poly Kirtaniya (VU3ZHM) and Aishi Rajbanshi (VU3XUS), who shared their empowering journeys in amateur radio, showcasing its role in skill development and community engagement. This was followed by Sandesh Bhat (VU3FGJ) and Ronald Rodrigues (VU3RDD), who elaborated on amateur radio's applications in emergencies and education, with Mr Bhat presenting a live HAM radio demo. Joann Fernandes, Head of Operations, Spintly, offered an industry perspective on challenges and progress in gender equality within tech workplaces.

Haryana

Haryana State Centre, IEI, in collaboration with Seth Jai Parkash Polytechnic, Damla Yamuna Nagar, celebrated World Telecommunication and Information Society Day on 15 May 2025 at S J P Polytechnic, Damla. Sh Ajay Chhabra, Deputy General Manager, BSNL, Yamuna Nagar, graced the event as the Chief Guest, while Er Mahinder Singh, Principal, Government Polytechnic, Nanakpura, Panchkula, delivered the Keynote address, emphasizing the importance of gender equality in ICT and the need to increase women's participation in digital transformation. Er Anil Budhiraja, Principal, S J P Polytechnic, welcomed dignitaries and highlighted the role of women in AI R&D. Er K C Sethi, Council Member and Past Vice President, IEI, shared insights into IEI's activities and membership benefits. Mr Chhabra discussed both the potential and risks of the digital revolution for women, underlining the persistent digital gender gap. Seven other speakers presented technical papers on the theme, appreciated by all attendees.

Jharkhand

Jharkhand State Centre, IEI celebrated World Telecommunication & Information Society Day on 17 May 2025 at Ranchi. Dr Biresh Kumar, Associate Professor, Department of Computer Science and Engineering [CSE], Amity University, in his Keynote address, called attention to the global gender digital divide and the need for women's representation in ICT. Dr Dipti Kumari, Assistant Professor, CSE, Sarala Birla University, discussed how digital tools can empower women, stressing the need for policy reform, safety and cultural change. Chief Guest, Prof Sanjay Kumar, Head, Electronics and Communication Engineering, BIT Mesra, spoke on equity, human dignity and the transformative power of inclusive digital progress. The event concluded with a shared vision: digital transformation must be rooted in gender equality for a truly inclusive future.

Karnataka

Karnataka State Centre, IEI observed World Telecommunication & Information Society Day on 19 May 2025 and a webinar was organized on the occasion. The Keynote address was delivered by Dr C V Ravishankar, Professor & HOD, ECE, Sambhram Institute of Technology, Bengaluru and Chairman, IETE Bangalore Centre. The program commenced with an inaugural address by Er M Nagaraj, Chairman, Karnataka State Centre, IEI who highlighted the growing significance of digital technologies in modern society. Dr Ravishankar elaborated on the relevance of WTISD and explored diverse applications of electronics including wearable tech, AI-powered devices, IoT, smart cities, quantum electronics and advancements in 5G/6G. He discussed disparities in internet access across gender, age and geography with a focus on India, referencing trends post-COVID and Operation Sindoor. He emphasized the need for inclusive digital policies to bridge the gender divide.

LOCAL CENTRES

Agra

Agra Local Centre, IEI in association with Bharat Sanchar Nigam Limited (BSNL) BA C.T.O Compound Targhar, Agra, celebrated World Telecommunication and Information Society Day 2025 on 17 May 2025 at Agra. Chief Guest of the event was Shri Shyam Singh, PGM BSNL BA Agra. Keynote speaker, Er Bhagwan Das Rawat, AGM BSNL Agra, shared insights based on the ITU 2024 facts and figures. Shri Shyam Singh emphasized that gender, geographical and economic disparities hinder equal internet access. The event saw participation from the corporate and non-corporate members along with BSNL staff and dignitaries.

Angul

Angul Local Centre, IEI celebrated World Telecommunication and Information Society Day on 22 May 2025 at Angul. Er Md S Rahaman, Group General Manager (T&C), NALCO, graced the occasion as Chief Guest. Dr (Mrs) Ashima Rout, Associate Professor, IGIT Sarang, served as the Chief Speaker. In his inaugural speech, Er Md Rahaman emphasized the importance of bridging digital gender divides. Dr Ashima Rout, in her insightful presentation, shared research on how gender equality is advancing across technical, social and economic sectors through digital transformation. Engineers from industries such as NALCO, TATA Steel, GMR and JSPL actively participated in the lively and interactive session.

Anpara

Anpara Local Centre, IEI celebrated World Telecommunication and Information Society Day 2025 on 17 May 2025 at Anpara. The event was graced by the Chief Guest, Mr Nikhil Chaturvedi, District Magistrate Administration Sonbhadra and Guest of Honour, Mr Vijay Kumar Chaudhary. Er Vivek Shrivastava, Deputy General Manager (C&I), Megha Engineering and Infrastructures Limited (MEIL), Anpara delivered the Keynote address, emphasizing the need to bridge the digital gender divide and empower women in the ICT sector. Several engineers and professionals from DTPS, ATPS, BTPS, MEIL and UPRVUNL actively participated. The event witnessed dynamic discussions on promoting gender equity in digital access. The programme highlighted collective efforts toward a more inclusive and equitable digital future.

Bareilly

Bareilly Local Centre, IEI celebrated World Telecommunication and Information Society Day 2025 on 17 May 2025 at Bareilly. Prof Pankaj Sharma, Chairman of the Centre emphasized the need for inclusive digital innovation, equitable access and collaboration to ensure no one is left behind in the digital era. Er Arun Kumar Agrawal, Past Honorary Secretary of the Centre, stressed the urgency of breaking digital gender barriers, empowering women in STEM and ICT. Dr Varun Verma, HOD, Civil Engineering, RRIMT, spoke on integrating gender equality at the core of digital transformation.

Bathinda

Bathinda Local Centre, IEI celebrated World Telecommunication and Information Society Day on 19 May 2025, through online mode. Er Kartar Singh Brar, Chairman, Bathinda Local Centre, IEI underscored the necessity of inclusive digital growth. Dr Manjeet Singh Bhambra, Dean, Faculty of Engineering, Punjabi University, Patiala, graced the occasion as the Chief Guest and emphasized empowering women to be active contributors in technological development. The Keynote Speaker, Dr Jagatar Singh Sivia, Professor (ECE), Yadavindra Department of Engineering, Talwandi Sabo, highlighted the pivotal role of AI and digital tools in achieving gender equality. Dr Gurpreet Bharti, Assistant Professor, YDOE, Talwandi Sabo, effectively moderated the program. The seminar provided an insightful platform promoting gender balanced leadership in the digital era.

Belagavi

Belagavi Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2024 at Belagavi. The event featured a theme address by Shri Uttam Yaligar, Assistant General Manager, BSNL, Belagavi, who emphasized BSNL's ongoing initiatives to promote gender equality in digital access and usage. Shri Yaligar also elaborated on how BSNL is incorporating the goals of this global observance into its operational practices, aiming to improve digital literacy and connectivity for women. Prof J Shivakumar, Principal & Director, Jain College of Engineering, Machhe, Belagavi, graced the occasion as Guest of Honour. The event was an insightful initiative promoting inclusive digital empowerment.

Bhimavaram

Bhimavaram Local Centre, IEI organized a webinar on the occasion of World Telecommunication and Information Society Day on 17 May 2025 through online mode. The Chief Guest and Speaker, Dr Bh V N Lakshmi, Professor & Head, Department of English and Foreign Languages, SRKR Engineering College, delivered a thought-provoking address emphasizing the importance of inclusive digital access, digital education and leadership opportunities for women to bridge the existing gender gap in technology. She highlighted that empowering women in the digital space not only ensures equity but also accelerates innovation and economic development. The webinar underscored the role of gender inclusivity in creating a balanced and sustainable digital future.

Bokaro Steel City

Bokaro Local Centre Local Centre, IEI celebrated World Telecommunication and Information Society Day on 18 May 2025 at Bokaro. The Chief Guest, Shri S C Patra, Chief General Manager, Instrumentation and Telecommunication Department, SAIL, Bokaro Steel Plant, inaugurated the function and delivered an insightful address on the theme. He emphasized the importance of gender equality in the digital space and the need to equip women and girls with access to ICT and digital skills for active participation in the digital economy. The technical session featured presentations by Shri Purbank Sharma and Shri Akshya Chauhan, Assistant Managers (C&A) and Shri Ravi Kant Ravi, AGM, Electronics and Telecommunication Department, SAIL, who shared their ideas focusing on gender equality in digital transformation. The event witnessed enthusiastic participation from many renowned IEI members and professionals from the region.

Coimbatore

Coimbatore Local Centre, IEI in collaboration with the Department of Electronics and Communication Engineering, PSG Institute of Technology and Applied Research (PSGiTech), celebrated World Telecommunication and Information Society Day on 17 May 2025 at Coimbatore. A technical lecture was delivered by Ms Pournimaa Venkatraman, Automotive Software Architect, Bosch Global Software Technologies, Coimbatore on the topic 'Invent, Include, Impact: Let's Build Today and Design Tomorrow'. The speaker explained the impact of emerging technologies such as 5G, IoT and AI in transforming industries and promoting inclusive innovation. She emphasized the need for equitable access to digital tools and encouraged engineers to adopt a forward-looking approach to design scalable and inclusive solutions.

Dhanbad

Dhanbad Local Centre, IEI, in association with the Department of Electronics Engineering, IIT (ISM), Dhanbad, celebrated World Telecommunication & Information Society Day 2025 on 17 May 2025 Dhanbad. The inaugural session was graced by eminent dignitaries including Prof R K Gangwar, HOD, Electronics Engineering, IIT ISM Dhanbad; Keynote speaker, Prof Govind Murmu, Assistant Professor, Department. of Electronics Engineering, IIT ISM Dhanbad; and several senior committee members. Prof (Dr) Biswajit Paul, Honorary Secretary of the Centre delivered a thoughtful introduction to the global importance of digital transformation. A compelling Keynote lecture by Prof Govind Murmu highlighted that a large sector still remain unconnected and emphasized the role of Digital India, Aadhaar and UPI in promoting inclusion.

Durgapur

Durgapur Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2025 at Durgapur. The event commenced with a short animation film screening on innovation, technology and cybercrime. Chief Guest, Mr Sanjay Kumar, General Manager, BSNL, Asansol BA, spoke on the transition from analog to digital and BSNL's role in enabling internet access in remote areas. Guest of Honour, Mr Rajan Raina, Assistant General Manager (Op), BSNL, Durgapur, underscored BSNL's efforts in bridging the urban-rural digital gap and promoting digital literacy among women. Guest Speaker, Mr Debjit Ghatak, Assistant General Manager, MSC/NIB, BSNL, delivered an insightful presentation on gender equality in digital information, referencing key Government of India initiatives like Pradhan mantra Gramin Digital Saksharta Abhiyan [PMGDISHA], National Digital Library of India [NDLI], BHASHINI, National Knowledge Network [NKN] etc.

Faridabad

Faridabad Local Centre, IEI celebrated World Telecommunication and Information Society Day on 17 May 2025 at Faridabad. Er Inderdeep Singh Oberoi, Chairman, Faridabad Local Centre, IEI emphasized the growing impact of digital technologies and the relevance of this year's theme. The Keynote address was delivered by Dr Shruti Mittal, Associate Professor, CSE and Director, University Computer Centre, who discussed the vital role of ICT in bridging the digital divide and promoting gender-inclusive development. She shared insights on AI, cyber security and digital transformation in academia, drawing from her vast experience in research and national initiatives.

Ghaziabad

Ghaziabad Local Centre, IEI celebrated World Telecommunication and Information Society Day on 20 May 2025 at Ghaziabad. Dr Satish Chandra Gupta, Chairman, Ghaziabad Local Centre, IEI emphasized the role of the internet in enabling faster, cost-effective communication. Guest of Honour, Prof (Dr) R K Yadav, Dean Academics, RKGIT, Ghaziabad, highlighted the increasing spread of internet usage in daily life and technical aspects of communication infrastructure, while acknowledging the digital access challenges in remote regions. Chief Guest, Sanchar Ratna Dr M K Seth, ITS ,Former CGM, ALTTC, BSNL-Ghaziabad addressed the key issues around the gender digital divide in India, shared ITU's policy targets and stressed the need for aligned national efforts to empower women digitally.

Gwalior

Gwalior Local Centre, IEI, in association with IETE Bhopal, celebrated World Telecommunication and Information Society Day on 17 May 2025 at Gwalior. Prof (Dr) Chandra Shekhar Malvi, Chairman, Gwalior Local Centre, IEI, highlighted the importance of inclusive digital access and encouraging enhancement of IEI membership. The Keynote speech was delivered by Dr Manoj Singh Parihar, Professor, ABV-

IIITM Gwalior, who emphasized the role of ICTs in sustainable development and gender equity, as guided by ITU's 2023 resolution. Dr P K Singhal, HOD (EC), MITS Gwalior and Past Chairman of the centre, stressed internet usage disparity and the ongoing challenges of digital inclusion for women. Er R K Khetan, Guest Professor, Vikrant University and Immediate Past Chairman of the centre focused on environmental impacts of high-frequency radiation.

Jammu

Jammu Local Centre, IEI celebrated World Telecommunication & Information Society Day on 17 May 2025 at Jammu. The event was graced by Sri Satish Sharma, Hon'ble Minister for IT, Youth Services & Sports, Transport,

Science & Technology, Food, Civil Supplies & Consumer Affairs, ARI & Training, Government of J&K UT as the Chief Guest and Mr Manish Jain, Director, Department of Telecommunications, Ministry of Communications, Government of India, Jammu, as Keynote Speaker. Er Anil Verma, Chairman, Jammu Local Centre, IEI emphasized digital literacy for women and advocating smartphones for Anganwadi workers to promote ICT awareness. Sri Sharma highlighted initiatives such as IT parks and free e-buses for women to bridge the digital divide in J&K. Mr Jain discussed the role of ITU and the Department of Telecom in fostering gender-inclusive digital growth.

Jodhpur

Jodhpur Local Centre, IEI celebrated World Telecommunication & Information Society Day on 17 May 2025 at Jodhpur. Keynote speaker, Er N Ram, PGM, ITS, BSNL, Jodhpur in his lecture shared valuable insights on how PSUs like BSNL are fostering gender inclusivity through digital outreach and how institutions acting as Gender Equality Operators are enabling marginalized communities, especially women, to access digital technologies.

Kanchepuram

Kanchepuram Local Centre, IEI, in association with the Department of Electronics and Communication Engineering, Jerusalem College of Engineering, Chennai, organized World Telecommunication and Information Society Day 2025 on 14 May 2025 at Kanchepuram. Dr S Ramesh, Chairman, Kanchepuram Local Centre, IEI and Principal, JCE, emphasized the relevance of this year's global theme. He highlighted the urgent need to ensure that women and girls are fully included in the digital era across all sectors. The Guest Speaker, Dr V Bala Naga Jyothi, Scientist-E, National Institute of Ocean Technology (NIOT), Ministry of Earth Sciences, Government of India, delivered an insightful address on inclusive technological advancement and the vital role of gender equity in sustainable digital growth. Dr Sheeja V Francis, Head, ECE Department, JCE also shared their thoughts during the session.

Kanpur

Kanpur Local Centre, IEI, in collaboration with the Institution of Electronics & Telecommunication Engineers (IETE), Kanpur Centre and IEEE, celebrated the World Telecommunication & Information Society Day on 19 May 2025 through online mode. Dr Sruti S Ragavan, Assistant Professor, Department of Computer Science and Engineering, IIT Kanpur, graced the event as the Chief Guest and Theme Speaker. Prof Narendra Kohli, Chairman, IETE Kanpur Centre, read out the message from the General Secretary of the International Telecommunication Union (ITU). Dr Ragavan emphasized the importance of eliminating the gender digital divide through inclusive policies, education and safe digital environments.

The Institution of Engineers (India)
IEI Engineering Education Excellence Award 2025
Request for Participation

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

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

(visit link: https://www.ieindia.org/webui/IEI-Activities.aspx#engineering-education-excellence-award) for the IEI Engineering Education Excellence Award 2025. The deadline for submitting of applications for the Award 2024 is **30 October 2025**. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

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

IEI Celebrates National Maritime Day 2025

Theme: Our Ocean, Our Obligation, Our Opportunity

05th April is celebrated every year in India as National Maritime Day to commemorate the maiden voyage of the first Indian owned commercial vessel SS Loyalty that set sail from Bombay (Mumbai) to London, on 05th April 1919. 'National Maritime Day commemorates our nation's entry into the international mercantile shipping community in 1919. A brief account of the Day, as celebrated at various State/Local Centres of The Institution of Engineers (India), are reported hereunder.

LOCAL CENTRES

Ghaziabad

Ghaziabad Local Centre, IEI celebrated National Maritime Day 2025 on 07 April 2025 at Ghaziabad. The event was graced by Chief Guest, Er Satyavir S Sharma, Former Chief Engineer, Merchant Navy and Principal, Maritime Training Institute, Noida. Wg Cdr B K Yadav, Executive Committee Member of the Centre was the Convener of the event. Dr S C Gupta, Chairman, Ghaziabad Local Centre, IEI emphasized the significance of maritime life in shaping the national economy. Er Sharma delivered an informative talk on the history of the Indian Navy, the evolution of maritime trade, government initiatives for modernization and environmental concerns.

Kochi

Kochi Local Centre, IEI observed National Maritime Day on 09 April 2025 at Kochi, to honor India's maritime heritage and emphasize the industry's critical role in national development. Er G Velayudhan Nair, Chairman, Kochi Local Centre, IEI highlighted the day's significance in a global and environmentally conscious context. Chief Guest of the session, Mr J Senthil Kumar, Principal Officer, Mercantile Marine Department, lauding his expertise in maritime safety and administration. Addressing the theme of the Day, Mr Senthil Kumar stressed sustainable ocean development, calling for stakeholder responsibility in tackling pollution, overfishing and climate change. He underlined the need for policy reforms, innovation and increased youth engagement in the maritime sector. His insights on India's growing maritime trade and strategic advancements were well received. The session witnessed enthusiastic participation from professionals and students alike.

Madurai

Madurai Local Centre, IEI observed National Maritime Day on 05 April 2025, at Madurai. Chief Guest, Er Balan Muthuramalingam, Marine Chief Engineer (FG), R L Institute of Nautical Sciences, Madurai, emphasized the ocean's crucial role in global trade, environmental stability and the economy, noting that over 80% of world trade is carried by sea. He highlighted India's growing maritime sector, focusing on port expansion, coastal shipping

and sustainable practices to reduce marine pollution. The talk underscored the shipping industry's responsibility in managing ocean resources and aligning with IMO goals. A vibrant discussion followed the lecture, with attendees actively engaging.

Palghat

Palghat Local Centre, IEI celebrated National Maritime Day on 10 April

2025, at Palakkad. Guest speaker, Captain Balagopal Sunil, Head, Department of Nautical Science, Coimbatore Marine College delivered the Keynote address on the theme and discussed the far reaching impacts of marine pollution on marine ecosystems, human health and the economy. He stressed the urgency of reducing plastic waste and adopting sustainable maritime practices to safeguard the oceans for future generations. The event underscored the importance of maritime awareness and responsibility in ensuring environmental sustainability and economic growth through ocean-based industries. The program successfully inspired dialogue on maritime sustainability and environmental stewardship.

Varanasi

Varanasi Local Centre, IEI organized National Maritime Day on 08 April 2025 at Varanasi. The Invited speaker, Capt Santosh K Pandey, Master Mariner delivered an insightful address on the topic 'Application of Electronics in Modern Marine Navigation', highlighting the significance of maritime activities in global trade, the role of Indian seafarers and sustainable practices in maritime operations. He explained the evolution of navigation tools, maritime safety and environmental protection. The event was a meaningful celebration promoting maritime awareness, sustainability and collaboration among professionals and academia.

Visakhapatnam

Visakhapatnam Local Centre, IEI organized a technical webinar on 05 April 2025 to observe National Maritime Day at Visakhapatnam. The session featured Dr H Nirjhar Das, Outstanding Scientist, NSTL, Defence Research and Development Organization as the Keynote speaker. Dr Das delivered an insightful lecture on Autonomous Under Water Vehicles.

IEI Celebrates
World Engineering Day for Sustainable Development 2025

Theme
Unleashing the Power of Engineers to Advance the Sustainable Development Goals

World Engineering Day for Sustainable Development was celebrated by the Centres of the Institution all over the country on March 04, 2025. Brief accounts of the celebration as received from various Centres are reported hereunder.

LOCAL CENTRES

Belagavi

Belagavi Local Centre, IEI celebrated World Engineering Day for Sustainable Development on 04 March 2025 at Belagavi. Shri N B Rajeev Rao, Managing Partner, KAVAATA Valves, Belagavi, graced the occasion as the Chief Guest and Keynote Speaker. In his address, Shri Rajeev Rao highlighted the critical role of engineering in driving growth while aligning with the United Nations Sustainable Development Goals (SDGs) for 2030. Shri Rao also elaborated on the significant initiatives undertaken by both the Central and State Governments in promoting industrial practices that support sustainability. The session witnessed active participation from corporate members, engineers and students, sparking meaningful discussions on sustainable engineering practices. The event concluded with a strong call to action for the engineering community to lead the path toward achieving the SDGs through innovation and responsibility.

Dharwad

Dharwad Local Centre, IEI celebrated World Engineering Day for Sustainable Development on 04 March 2025 at Dharwad. The event was graced by the Chief Guest, Dr Basavaraj S Anami, Registrar, KLE Technological University, Hubballi, who emphasized the vital role of engineers in addressing global sustainability challenges and urged institutions to embed SDGs into education to nurture responsible future leaders. Er Veerappa Hawaldar, Chairman, Dharwad Local Centre, IEI in his address, paid tribute to past and present engineers, advocating for responsible use of resources for a sustainable future. The event saw active participation from faculty, research scholars, engineers and professionals from government departments.

Erode

Erode Local Centre, IEI celebrated World Engineering Day for Sustainable Development on 04 March 2025 in association with Nandha College of Engineering, Erode, through online mode and a webinar was organized on the occasion. The event aimed to emphasize the critical role of engineering in achieving the Sustainable Development Goals. Prof (Dr) Kumaravelan Radhakrishnan, Chairman, Erode Local Centre, IEI highlighted the importance of sustainable engineering practices in shaping a better future. Panelist and resource person, Dr M Srinivasan, Professor & Dean, Department of Electronics and Communication Engineering, Nandha Engineering College, shared his insights on engineering innovations that support environmental sustainability and technological advancement. The session included discussions on emerging technologies, sustainable infrastructure and the responsibilities of future engineers. The webinar successfully underscored the significance of engineering in driving progress while ensuring environmental and societal balance.

Mangalore

Mangalore Local Centre, IEI celebrated World Engineering Day for Sustainable Development on 04 March 2025 at Mangalore. The Keynote address was delivered by Er Dr R G D'Souza, Dean, Faculty of Engineering & Technology, Yenepoya Deemed to be University, Mangalore, on the theme of the Day. The program drew participation from professionals, students and members of the engineering community, making it a meaningful occasion that underscored engineering's pivotal role in achieving the SDG.

Pune

Pune Local Centre, IEI celebrated World Engineering Day for Sustainable Development on 04 March 2025 in collaboration with AISSMS College of Engineering & Polytechnic and Marathi Vidyan Parishad, Pune Division at Pune. Dr Deepak Shikarpur, AI Expert and Digital Literacy Activist, graced the occasion as Chief Guest and delivered an inspiring address on the role of Artificial Intelligence and emerging technologies in advancing sustainability. Er Dhaval Jitkar, Managing Committee Member, AISSMS, Pune, served as Guest of Honour and emphasized engineering innovation's role in achieving the SDGs. The event was marked by insightful deliberations and enthusiastic participation from the engineering fraternity.

Silchar

Silchar Local Centre, IEI in collaboration with the Institution Innovation Council (IIC) of NIT Silchar, celebrated World Engineering Day for Sustainable Development on 08 March 2025 at NIT Silchar. The event witnessed enthusiastic participation from students, professors,

engineers from NIT Silchar, Assam University and practicing professionals from CPWD, PWD, CDAC, APDCL as well as private firms like Black Tiger Cement and Elegant TMT Steel. Prof. Dilip Kr Baidya, Director, NIT Silchar graced the function as the Chief Guest. Prof. Baidya emphasized IEI's pivotal role in promoting engineering solutions to address climate change. Eminent speakers included Shri K C Nayak, SE, CPWD; Mr Sourav Chakraborty, Co-founder of HealthFab; Dr Koena Mukherjee, Assistant Professor, E&I Dept, NIT Silchar and Dr Sumit Bhowmik, Associate Professor, Mechanical Engineering Department, NIT Silchar.

Sunabeda

Sunabeda Local Centre, IEI celebrated World Engineering Day for Sustainable Development on 04 March 2025 at Sunabeda. The event highlighted the essential role of engineers in addressing global challenges such as climate change, poverty and inequality. Keynote speaker, Er Anada Prasad Sahu, Chief Manager (Indigenization), HAL Sunabeda emphasized engineers' critical contributions to sustainable innovation. Er Pradeep Kumar Das, Senior Manager (Projects), HAL Sunabeda, elaborated the importance of engineering solutions like renewable energy, water purification and smart infrastructure in solving pressing global issues. Er Premananda Maity, Chairman, Sunabeda Local Centre, IEI and Chief Manager (Special Process Shop) and Er Sanjaya Kumar Bishoyi, Honorary Secretary, Sunabeda Local Centre, IEI and Chief Manager (Aero Engine Testing) also shared insightful views on the technical theme.

Varanasi

Varanasi Local Centre, IEI organized a webinar on the occasion of World Engineering Day on 04 March 2025 at Varanasi. Er Rahul Mourya, Honorary Secretary, Varanasi Local Centre, IEI, presented the theme of the day, highlighting the role of engineers in achieving sustainability goals. Speaker of the session, Prof Dnyaneshwar Mogale, delivered an insightful lecture emphasizing the engineering community's potential in addressing global challenges.

58th ENGINEERS' DAY

Theme: Deep Tech & Engineering Excellence: Driving India's Techade

September 15 is celebrated every year in the country since the year 1967 as "Engineers' Day" to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred "Bharat Ratna" on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on Economic Planning in India, Planned Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A theme of national importance is chosen every year by the Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the 58th Engineers' Day will be celebrated all over the country on the theme **"Deep Tech & Engineering Excellence: Driving India's Techade"**.

Bharat Ratna Sir M Visvesvaraya

On 15th September 2025, The Institution of Engineers (India) (IEI) celebrates Engineers' Day across all State and Local Centres, paying tribute to Sir M. Visvesvaraya, whose vision laid the foundation for engineering excellence in India. The theme, **"Deep Tech & Engineering Excellence: Driving India's Techade,"** underscores the crucial role of engineers in steering AI, Quantum Computing, Semiconductors, Robotics, and Advanced Materials toward national growth and global competitiveness.

As India enters its Techade, deep tech innovations are reshaping industries and redefining progress. Unlike conventional IT solutions, these technologies demand long-term R&D, scientific rigor, and advanced engineering expertise. Recognizing this, the Government of India introduced the National Deep Tech Start-up Policy (NDTSP) in 2024 to support startups and researchers working on transformative technologies. But fostering deep tech is not just about policies—it requires a robust ecosystem where research translates into industrial applications, and engineers play a defining role in this shift.

IEI, with its rich legacy of advancing engineering research and innovation, has long been a catalyst in this transformation. Through its R&D Grant-in-Aid Scheme, IEI has supported breakthrough ideas even at the undergraduate level, enabling young engineers to experiment, innovate, and create impactful solutions. This commitment to engineering-led progress has earned IEI recognition as a Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Government of India. By fostering research, bridging academia with industry, and nurturing talent, IEI has positioned itself as a key enabler of India's deep tech journey.

As we mark Engineers' Day 2025, it is evident that deep tech is no longer an emerging field—it is the present and the future. The challenge ahead is immense, but so is the opportunity. With vision, expertise, and unwavering commitment, engineers must innovate, lead, and build technologies that will drive India's transformation into a global powerhouse. And as always, IEI stands ready to support this mission, ensuring that India's engineering community continues to push the boundaries of possibility.

IEI Celebrates World Water Day

Theme - Glacier Preservation

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

STATE CENTRES

Himachal Pradesh

Himachal Pradesh State Centre, IEI in collaboration with Blood Donation Service Family, Rampur, observed World Water Day on 22 March 2025 with a dual focus on glacier preservation and community health at Dehradun. Highlighting the theme, Er Jaswant Singh, Chairman, Himachal Pradesh State Centre, IEI emphasized the alarming retreat of Himalayan glaciers due to global warming, which threatens regional water security, river ecosystems and infrastructure stability. In his address, he called for urgent conservation measures and underscored World Water Day as a reminder to protect vital water resources.

Manipur

Manipur State Centre, IEI celebrated World Water Day on 29 March 2025 at Imphal. Chief Guest, Er L Shamungou Singh, Principal, Government Polytechnic College, Imphal emphasized the significance of engineering in public service and encouraged continuous up skilling among engineers. Er L Swamikanta Singh, Chairman, Manipur State Centre, IEI in his speech, shared the Centre's vision, recent initiatives and commitment to societal contribution. The event also fostered informal interactions and camaraderie over refreshments, leaving a lasting impression of unity and professional commitment towards sustainable development and water resource awareness.

LOCAL CENTRES

Anpara

Anpara Local Centre, IEI, in collaboration with MEIL Anpara Energy Limited celebrated World Water Day on 22 March 2025 at the MEIL Anpara Plant Conference Hall. The event, coordinated by Santosh Kumar Dubey, Head of O&M, MEIL and Sujeet Kumar Singh, Assistant General Manager at Megha Engineering and Infrastructures Limited (MEIL), Anpara. The event aimed to raise awareness about the global water crisis and the urgent need to conserve rapidly depleting glacier resources. Chief Guest, Er Doodhnath Yadav, General Manager, Anpara Thermal Project (UPRVUNL), inaugurated the event, emphasizing the importance of clean water and global awareness. Santosh Kumar Dubey, Head of O&M, MEIL, discussed the scarcity of freshwater despite Earth's vast water coverage, urging proactive conservation. Keynote speaker, Mr Himanshu Verma, Environmental Head, MEIL, delivered an insightful lecture on glacier preservation, sharing real-world examples of conservation success. The event also featured interactive discussions with attendees including Mr Vivek Kumar Shrivastava, Deputy General Manager(C&I) at Megha Engineering and Infrastructures Limited (MEIL), Anpara, Mr. Kulesh Bhattacharya, Deputy General Manager (Operations) at Megha Engineering and Infrastructures Limited (MEIL), Anpara and Mr. Vikash Singh, Manager at Megha Engineering and Infrastructures Limited (MEIL), Anpara. The program concluded with a call for individual responsibility in water conservation, leaving participants inspired to support sustainable environmental practices.

Belagavi

Belagavi Local Centre, IEI celebrated World Water Day on 25 March 2025 at Belagavi, focusing on the theme of glacier preservation and its link to global water security. The event featured Dr Sandeep Mondal, Project Scientist, National Centre for Polar & Ocean Research (NCPOR), Goa, as the Keynote speaker, who delivered an insightful address on the critical role of glaciers in sustaining freshwater resources and regional climate stability, warning that rising global temperatures pose a significant threat to these natural reserves. The program was inaugurated by the Chief Guest, Er B R Rathod, Chief Engineer, KNNL Irrigation (North), Belagavi, who emphasized the need for water conservation in agriculture and infrastructure. Guest of Honor, Prof S F Patil, Principal, KLE Tech, Dr M S Sheshagiri Campus, stressed academic engagement in environmental awareness. The event served as an important platform for dialogue on sustainable practices and individual responsibility in combating climate change.

Dharwad

Dharwad Local Centre, IEI celebrated World Water Day on 25 March 2025 at Dharwad. Chief Guest, Er B Y Bhandiwaddar, Director, Water, Land And Management Institute (WALMI), Dharwad highlighted glaciers as crucial freshwater sources and indicators of climate change, urging measures such as emission reduction, glacier monitoring and international cooperation. Er Veerappa Hawaldar, Chairman, Dharwad Local Centre, IEI stressed the importance of glaciers in supporting agriculture, hydropower and global water supply, linking the event to SDG 6 – Clean Water and Sanitation.

Erode

Erode Local Centre, IEI in association with Velalar College of Engineering and Technology, celebrated World Water Day on 22 March 2025 by organizing a guest lecture at Erode. Dr D Sakthivel, Associate Professor, Department of Civil Engineering, Velalar College, and

an expert in environmental and water resource management delivered an engaging lecture on the theme of water conservation and sustainable usage. Dr Sakthivel emphasized the alarming decline in freshwater availability due to pollution and climate change, highlighting techniques like rainwater harvesting, efficient irrigation and reduction of water wastage. The interactive session saw enthusiastic participation from student members of the IEI Students' Chapter, who gained practical insights into responsible water management and its significance for agriculture, industry and daily life. Prof (Dr) Kumaravelan Radhakrishnan, Chairman, Erode Local Centre, IEI, underscored the importance of water stewardship. The event successfully inspired students to adopt sustainable water practices and reinforced the collective responsibility to conserve water resources for future generations.

Jamshedpur

Jamshedpur Local Centre, IEI organized a webinar on 22 March 2025 to mark World Water Day. Mr Parvesh Kumar Dhawan, Former Chief Scientist & Head Engineering, CSIR National Metallurgical Laboratory, Jamshedpur presented the significance of World Water Day, highlighting glaciers as vital freshwater reservoirs and emphasizing the urgent need to protect them from the impacts of climate change. Panellist, Er Joyraj Debnath, Assistant Manager, TSL, discussed sustainable glacier management, underscoring the role of technological innovation, policy initiatives and community involvement. The session stressed that glaciers, which provide nearly 70% of the world's freshwater, are rapidly retreating due to global warming, affecting ecosystems, agriculture and water security. Attended by number of participants, including engineers and professionals from various organizations, the event served as a call to action for climate responsibility and environmental conservation.

Kanchepuram

Kanchepuram Local Centre, IEI in association with St Joseph's Institute of Technology, Chennai, observed World Water Day and organized an Expert Talk on 22 March 2025 at Kanchepuram. The event featured a compelling Keynote by Dr Dhana Lakshmi M, Project Scientist II, National Centre for Coastal Research (NCCR), Ministry of Earth Sciences, Government of India. Her talk, titled 'Blue AI: Revolutionizing Ocean Research and Conservation with Machine Learning', explored cutting-edge applications of AI in marine sustainability. The event also showcased student innovations through an idea presentation competition on 'Pioneering Solutions for Glacier Preservation', with winning teams recognized for their outstanding contributions. The session concluded with an interactive discussion emphasizing the critical role of technology in water conservation and environmental sustainability. Attended by the Corporate Members and students, the program fostered rich knowledge exchange and inspired future-ready solutions for protecting vital water resources.

Mangalore

Mangalore Local Centre, IEI celebrated World Water Day on 25 March 2025 with a technical talk on the theme 'Frozen Water: Protecting Our Glaciers for a Sustainable Future', delivered by Dr Anish Kumar Warrier, Professor of Geology, Department of Civil Engineering, Manipal Institute of Technology, Manipal. Dr Warrier emphasized that glaciers, vital as climate archives and freshwater sources, are under severe threat due to human-induced warming. He highlighted preservation techniques such as artificial coverings, artificial snow production, ice stupa technology, glacial reforestation, reducing black carbon pollution, water diversion methods and the need for global participation in glacier protection strategies. The program underscored the urgent need for integrated and innovative approaches to safeguard glaciers for future water security and environmental stability.

Navi Mumbai

Navi Mumbai Local Centre, IEI celebrated World Water Day on 29 March 2025 at Belapur. The event featured Ideathon2k25, where nine shortlisted teams presented innovative solutions to societal challenges, followed by a technical session on water conservation. Dr Nilaj N Deshmukh, Chairman of the Centre stressed on the significance of World Water Day and the role of platforms like Ideathon in addressing real-world problems. Esteemed dignitaries including Dr Mohan B Dagaonkar, Former Council Member, IEI, Er K K Varkhedkar and Er K M Godbole, Past Chairman of the centre graced the occasion. Dr Dagaonkar delivered an impactful talk on the importance of water conservation in daily life, while Er Varkhedkar summarized the Ideathon's objectives and outcomes.

Palghat

Palghat Local Centre, IEI observed World Water Day on 22 March 2025 at Palakkad, Keynote speaker, Dr Subhasis Mitra, Assistant Professor, Civil Engineering Department, IIT Palakkad. In his insightful presentation elaborated the alarming effects of rising global temperatures and climate change on glaciers, highlighting the resulting threats of sea-level rise, loss of biodiversity and increased natural disasters. He emphasized the importance of reducing greenhouse gas emissions, promoting renewable energy and leveraging advanced technologies like satellite monitoring and climate modeling to safeguard glacial ecosystems. The session underlined the role of glacier preservation in sustaining freshwater supplies and protecting vulnerable communities.

Silchar

Silchar Local Centre, IEI celebrated World Water Day on 22 March 2025 at Silchar. Chief Guest of the event was Dr Dinesh Panneerselvam, Assistant Professor, Department of Civil Engineering, NIT Silchar and Guest of Honour was Dr Ratna Jyoti Dutta Chowdhury, Additional Chief Engineer, PHE Department, Assam, Er Dibakar Bhattacharjee, Chairman of the Centre stressed Northeast India's rich water resources and the urgent need for glacier conservation amidst climate change. He stressed on increasing forest cover, sustainable development and sustainable tourism. Guest of Honour, Dr Chowdhury delivered presentation on 'Sustainable Drinking Water Supply in Rural India – The Jal Jeevan Mission Approach & Barak Valley Perspective', detailing significant improvements in water access across Barak Valley. Dr Panneerselvam highlighted the alarming glacial retreat in the Himalayas, urging reduced emissions and exploring renewable energy and innovative solutions like CO_2 injection in glacial ice.

Sunabeda

Sunabeda Local Centre, IEI observed World Water Day on 22 March 2025 at Sunabeda. Theme speaker, Er Tikeswar Pradhan, Senior Manager (Aggregate Overhauling Shop), HAL Sunabeda, highlighted the vital role glaciers play in sustaining global water resources and the threats posed by their rapid melting. Er Sharmistha Das, Manager (Planning), HAL Sunabeda, emphasized the need for a multi-pronged approach to glacier conservation through emission reduction, adoption of sustainable energy and policy implementation. She also underlined the importance of satellite monitoring and climate models in predicting glacier changes. Er Premananda Maity, Chairman of the centre and Chief Manager (Special Process Shop) and Er Sanjaya Kumar Bishoyi, Honorary Secretary of the centre and Chief Manager (Aero Engine Testing) also shared their insights on the topic. Er Ramakrushna Khanduala, Senior Manager (Tooling), in his concluding remarks, acknowledged the contribution of speakers and participants to promoting awareness on glacier preservation and climate resilience.

Thanjavur

Thanjavur Local Centre, IEI commemorated World Water Day 2025 with a thought-provoking webinar on 22 March 2025 focusing on the topic 'Critical Role of Glaciers in Sustaining Water Resources'. Guest speaker, Mr Keerthivasan D, Assistant Professor , Department of Civil Engineering and Director-in-Charge, Centre for Energy and Environment, Periyar Maniammai Institute of Science & Technology in his Keynote, underscored glaciers as vital freshwater sources and warned of severe impacts from their rapid retreat, such as disrupted river flows, glacial lake outburst floods and ecosystem collapse. He highlighted satellite-based monitoring, glacial melt modeling and international cooperation as key strategies for glacier conservation. The session included active participation from students, professionals and academics, concluded with an engaging Q&A reaffirming IEI's dedication to sustainable water resource management.

Varanasi

Varanasi Local Centre, IEI in collaboration with the Department of Agricultural Engineering, Institute of Agricultural Sciences (IAS), BHU, celebrated World Water Day on 22 March 2025 at Varanasi. The event was inaugurated by the Chief Guest, Prof S K Singh, Director, IAS BHU, who stressed the urgent need for efficient irrigation and conservation agriculture to reduce water consumption in the agricultural sector. Prof V K Chandola, Convenor, highlighted the importance of water, while Prof B N Rai, Chairman, Varanasi Centre, IEI outlined IEI's activities and urged water-saving practices at the domestic level. Prof R M Singh, Chairman, ISAE Varanasi Chapter, shared insights into ISAE's work. Dr Ajanta Goswami, Associate Professor, Department of Earth Sciences, IIT Roorkee delivered the Keynote on 'Glacier Preservation', explaining the significance of Indian glaciers in sustaining water resources and their rapid decline due to climate change. Prof S N Upadhyay, Former Director, IIT BHU, discussed the hydrologic cycle and its impact on life.

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

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For detailed eligibility criteria and application procedures, please contact:

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

News-in-Brief

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

STATE CENTRES

Assam

Organized a popular talk on 'New Trend of Teacher Education in the Context of NEP 2020' on 03 May 2025 at Guwahati. The session featured Dr Dibyajyoti Mahanta, Chairperson, Eastern Region Committee, National Council for Teacher Education (NCTE), as the invited speaker. Dr Mahanta emphasized the changing global knowledge landscape and the increasing need for a skilled multidisciplinary workforce.

Karnataka

Organized a webinar on the occasion of National Safety Day on 19 March 2025, on the topic 'Security Challenges Faced by India'. Speaker of the event was Er Narayanaswamy K N, Former Assistant Commissioner of Police, Bengaluru, who highlighted India's dual security concerns—external and internal threats and emphasized the critical role of engineering innovations in enhancing law enforcement capabilities. The webinar was inaugurated by Er M Nagaraj, Chairman, Karnataka State Centre, IEI who underscored the growing synergy between engineering and law enforcement. Dr V Jayaram, Committee Member and Convener, introduced the speaker and the session theme. The presentation included case studies showing the effectiveness of smart technologies like traffic systems and body-worn cameras in improving surveillance, transparency and accountability. Er Narayanaswamy also stressed the importance of cybersecurity infrastructure in safeguarding sensitive law enforcement data.

Organized a virtual event on World Heritage Day on 24 April 2025, on the topic 'Heritage under Threat From Disaster & Conflicts'. Er M Nagaraj, Chairman, Karnataka State Centre, IEI, in his address, highlighted the importance of preserving cultural heritage. The Keynote address was delivered by Sri Dharmendra Kumar Arenahalli, a Civil Engineer and renowned historian known for narrating Karnataka's rich heritage. In his compelling presentation, he revisited the legacy of the Vijayanagara Empire and its great rulers like Krishnadevaraya, sharing gripping historical narratives, including the immense treasure of Rama Raya and the devastating destruction of Hampi. The event provided deep insight into South Indian history and cultural threats.

Tamilnadu

Organized an insightful guest lecture on 'Applications of Operations Research in Transportation and Logistics Engineering' on 25 February 2025 through virtual mode. The guest speaker, Er Vijoe Maria Michael Raj, Manager, Operations Research, FedEx Freight, Memphis, delivered a comprehensive presentation illustrating the role of operations research (OR) in optimizing processes such as network design, container loading, vehicle routing and worker scheduling. He emphasized its wide applications across logistics, healthcare, finance and manufacturing sectors, highlighting the use of mathematical models and programming languages like Java and Python. He mentioned that for some optimization problems, Operations Research would be a better solution than AI.

Telangana

Organized the 35th Er Koka Krishna Mohan Rao Endowment Lecture on 23 January 2025 through online mode. Dr B Janardhan Reddy, IAS (Retd), Secretary and CEO of Sarvejana Foundation, Hyderabad, delivered the Keynote address on the topic "Road Safety – Technology vs Attitude'. The lecture highlighted the critical interplay between technological advancements and behavioral changes in promoting road safety. Council Members, IEI; Executive Members and other corporate members actively participated in the event, which concluded with engaging discussions and appreciations for the insights shared.

Celebrated National Survey Day on 10 April 2025 through virtual mode on the theme 'Surveying Technology in DeepTech Era'. Prof Muralikrishna Iyyanki, Former Raja Ramanna DRDO Distinguished Fellow, Government of India, graced the occasion as the Chief Guest. Dr S Subba Rao, Former Surveyor General, Survey of India, delivered the Keynote lecture on 'Contemporary Trends in Surveying', highlighting advancements and evolving practices in the field.

Observed National Earth Day on 12 April 2025 through online mode, focusing on the importance of environmental education and awareness. Smt Medha Naniwadekar, Architect, Professor and Founder of Fenko MaTt Network, delivered the Keynote lecture on the topic 'Relevance of Environmental Training and Education', highlighting the crucial role of environmental literacy in sustainable development and community resilience. The event was well-received and emphasized the urgency of integrating environmental education into all levels of society.

Organized the 4th Er G Prabhakar Endowment Lecture on 28 April 2025 through virtual platform. The Keynote address was delivered by Er K S S Chandra Sekhar, Former Chief Engineer, Irrigation & CAD Department, Government of Telangana, on the topic 'Overview of Irrigation Development in Telangana and Focus on Minor Irrigation Schemes'. He elaborated on the evolution and significance of irrigation infrastructure in the state, with a special emphasis on the role of minor irrigation in rural agricultural sustainability.

Celebrated National Technology Day 2025 on 11 May 2025 through online platform. Dr P C Jain, Outstanding Scientist/Scientist 'H' and Director, Flight Structures, DRDL, Hyderabad, delivered the Keynote lecture on 'Future Societal Challenges and Power of Technological Innovations', emphasizing the transformative role of emerging technologies in addressing future global issues.

Organized the Er S Balakrishna Reddy 1st Endowment Lecture on 19 May 2025 through online mode. Er Vasant Pandarkar, Project Director, National Highways Authority of India, Ministry of Road Transport & Highways, Government of India, delivered the Keynote lecture on the topic 'Smart Mobility – Change in Paradigm of Modern Age Transport Sector', offering valuable insights into evolving trends in transportation infrastructure.

Uttar Pradesh

Organized a technical lecture on 'Driverless Metro Train Operation' on 31 May 2025 at Lucknow. Mr Mashahoor Alam, Former Principal Chief Signal & Telecom Engineer, South Central Railway, graced the occasion as Chief Guest and delivered an insightful address on the advancements in metro systems, highlighting the operational deployment of Driverless Metro Trains in Bengaluru and Delhi under Grade of Automation-4 (GoA-4), which operates without onboard drivers through a Centralised Operation Control Centre. He also traced the historical development of metro systems in India since 1984, with the Kolkata Metro as the pioneer and Delhi Metro emerging as the largest network.

Organised a technical talk on 'Understanding Rocket Propulsion' on 13 June 2025 at Lucknow. Er Vinod Saxena, Former Additional General Manager, HAL, Lucknow Division, served as the Keynote speaker, delivering an insightful lecture on the principles and complexities of rocket propulsion. He elaborated on Newton's Third Law as the foundation of rocket movement, the distinctions between solid and liquid propellants and the significance of rocket staging. The event commenced with a welcome address by Prof (Dr) Bharat Raj Singh, Council Member, IEI.

Uttarakhand

Organized a field visit to Bhimgoda Barrage, Haridwar on 26 February 2025 at VIP Ghat, Haridwar. The event was graced by the esteemed presence of Er Narendra Singh, Past President, IEI. Er N K Yadav, Chairman, Uttarakhand State Centre, IEI emphasized the historical and engineering significance of the Ganga Canal and its critical role in irrigation and water management. Participants undertook a guided visit to the Bhimgoda Barrage, the headworks of the Upper Ganga Canal, gaining valuable insights into water diversion systems, canal regulation techniques, silt management practices and barrage's crucial role in flood control, irrigation and municipal water supply.

organized a Seminar on 'Hydro Mechanical equipment used in Hydroelectric and Small Hydro Power Projects under the Training of Trainers (ToT) Program of the Ministry of New and Renewable Energy (MNRE) on 21 March 2025 at HRED, IIT Roorkee. The session focused on the operation and maintenance of key hydro mechanical systems, emphasizing the importance of preventive maintenance and early diagnostics to minimize equipment downtime. The interactive discussions and expert-led presentations helped bridge existing knowledge gaps in Small Hydro Power (SHP) equipment management. Participants appreciated the practical relevance and real-world applications of the topics covered. The program successfully highlighted the necessity of continuous capacity building for engineers to ensure the long-term efficiency, safety and sustainability of hydro mechanical infrastructure. The event concluded with a strong consensus on the pivotal role such training programs play in advancing technical proficiency and operational excellence within the renewable energy sector.

LOCAL CENTRES

Amravati

Organized a 'Career Guidance and Counselling' program on 29 April 2025 at Amravati, aimed at guiding students regarding opportunities in Engineering and Architecture. Keynote speaker, Architect Satish Deshmukh, shared his personal journey and emphasized the importance of proper guidance in choosing architecture as a rewarding career. Architect Sanjay Deshmukh, Principal, P R Patil College of Architecture, expressed gratitude to Amravati Local Centre, IEI and underscored the need to inform students about educational paths and future prospects. Prof. Piyush Joshi, Director, Fullor Academy, discussed the scope of the architecture field under the New Education Policy (NEP), highlighting its relevance in design, planning, heritage conservation and urban development.

Coimbatore

In collaboration with the Department of Textile Technology, Kumaraguru College of Technology, Coimbatore organized a technical webinar on the topic 'The Future of Fashion: Impact of Artificial Intelligence on Design and Production' on 22 April 2025. The Keynote panel included Dr Senthil Kumar Venkatalu, Head - PG Program, Department of Fashion Technology, NIFT New Delhi, who discussed AI's impact on product design and sustainable production. Mr Kumaraguru Kasinathan, Assistant Professor, NIFT Chennai, elaborated on AI's role in personalized shopping and market-driven design. Mr Puneet Dudeja, Director - Business Development, WGSN South Asia, spoke on AI-driven marketing and customer engagement strategies. The interactive Q&A session was conducted by Dr Bhaarathi Dhurai, Department of Textile Technology and Dr V Nithyaprakash, Department of Fashion Technology, Kumaraguru College of Technology, Coimbatore, where participants discussed real-world AI applications in fashion.

Gorakhpur

Organized a technical webinar on 'SPT-Based Liquefaction Potential Assessment: Some Case Studies from Sites in India' on 24 May. Keynote speaker, Er Dinesh Kumar Malviya from the Academy of Scientific & Innovative Research, Ghaziabad outlined the significance of liquefaction assessment in geotechnical engineering. Er Malviya delivered an engaging and detailed presentation supported by informative slides, explaining four SPT-based methods—Seed and Idriss (S–I), Tokimatsu and Yoshimi (T–Y), Japan Road Association (JRA) and Chinese Code for Seismic Design of Buildings (CSDB)—used for liquefaction evaluation.

Indore

Organised India's first Architecture, Build & Design Expo 'ACE REFLECT INDORE 2025', held during 09 to 11 May 2025 at Brilliant Convention Centre, Indore. The event witnessed the presence of several eminent personalities including Mr Arjun Jain, Chairman, BAI Indore Centre; Mr Arvind Gupta, President, IRWA; Er Hitesh Thakur, President, Association of Indore Realty Experts. Prof (Dr) Shilpa Tripathi, Chairperson, CATE, IEI also graced the occasion. The expo aimed to foster collaboration between engineers and professionals from architecture, interiors and construction industries, while showcasing innovations in design and technology. It served as a dynamic knowledge-sharing platform bridging global standards with local expertise, promoting sustainable development and integrated urban infrastructure. The event also facilitated B2B interactions and solution sourcing, reinforcing Indore's position as a hub of innovation and design thinking. The expo attracted participation from IEI members, architects, engineers, designers, planners, building material manufacturers and technology innovators.

Kanpur

Organized a technical lecture on 'An Efficient, Flexible and Foldable Electrochromic Display Screen' on 28 May 2025 through online mode. Dr Amarish Dubey, Assistant Professor, Department of Electrical and Electronics Engineering, Rajiv Gandhi Institute of Petroleum Technology, Amethi was the Guest Speaker. In his insightful talk, Dr Dubey presented a novel, textile-based electrochromic (EC) display utilizing a simplified three-layer structure with PEDOT:PSS as the core conductive and electrochromic material.

Munirabad

In collaboration with the Department of Economics, Vijayanagara Sri Krishnadevaraya University (VSKU), Ballari, organized a special invited lecture on 'Credit Rating Game and Industrial Investment Decisions' on 13 May 2025 at Ballari. Prof Ramakanth Patra, from Cardiff School of Management, London, UK, delivered the Keynote lecture and elaborated on the use of game theory in understanding credit ratings and their impact on industrial investment decisions, highlighting strategic interactions among stakeholders in the financial ecosystem. The event was attended by students, faculty and research scholars from various departments, fostering interdisciplinary engagement on financial and economic themes.

In collaboration with The Department of Mechanical Engineering, Rao Bahadur Y Mahabaleswarappa Engineering College (RYMEC), Ballari, V V Sangha and Internal Quality Assurance Cell (IQAC) organized a three-day Student Development Program (SDP) on 'Research Methodology' during 24 to 26 May 2025. Prof (Dr) Kammara Kishore Kumar, BMS College of Engineering, Bangalore discussed on 'Significance of Literature Survey in Research and the Current Trends in Literature'. Prof (Dr) Veerabhadrappa Algur, RYMEC, Ballari spoke on 'Design of Experiments using Taguchi Optimization Technique' and 'Mastering the Art of Writing a Research Article'.

Silchar

Organized a Lecture Meeting on 'Scientific Waste Management for Sustainable Development' on 15 May 2025 in collaboration with the Regional Office of the Pollution Control Board, Assam (PCBA), commemorating the Golden Jubilee of PCBA. Chief Guest, Dr Arup Kumar Misra, Chairman, PCBA, delivered an insightful presentation on 'Scientific Waste Management for Sustainable Development' emphasizing circular economy and innovative waste-to-wealth practices across Assam. Guest of Honour, Shri Gokul Bhuiyan, Member Secretary, PCBA, elaborated on types of solid waste and legal obligations of waste producers. He explained, how Pollution Control Board is functioning in terms of regulation related to solid waste management.

Sunabeda

Organized a special lecture on 'The Internet of Military things' on 24 May 2025 at Sunabeda. Er Manas Ranjan Subudhi, Chief Manager (Overhaul), HAL, Sunabeda was the Chief Speaker of the occasion. Er Sanjaya Kumar Bishoyi, Honorary Sceretary, Sunabeda Local Centre, IEI emphasized the importance of the theme and touched points of key components of the internet of military things like advance sensors and actuators, real time communication networks, data processing, analytics and some of the salient aero space applications of IoMT. The program ended with the concluding remarks by Er Manoj Kumar Pattnaik, Manager (Tooling), HAL, Sunabeda,

Tiruchirapalli

In association with the Computer Society of India (CSI), Tiruchirappalli Chapter, organized an online technical lecture on 27 May 2025. Speaker of the session, Dr P K Viswanathan, Distinguished Professor (Analytics), former Director and Area Chair (AIMLAB), Great Lakes Institute of Management (2013–2021) and former Professor, IFMR (2001–2013), Chennai. Dr Viswanathan delivered an insightful lecture highlighting the critical developments and applications in analytics and its impact on contemporary decision-making frameworks. The event drew participation from 57 attendees, who appreciated the depth and relevance of the lecture in the context of current technological trends and analytics-driven insights.

In association with the Computer Society of India (CSI), Tiruchirappalli Chapter, organized an online technical lecture on 03 June 2025 via Zoom App. Keynote speaker, Ms G Kasthuri, Manager, Digital Transformation Group (Web Development/ERP), Bharat Heavy Electricals Ltd, Tiruchirappalli. Ms. Kasthuri delivered an engaging lecture focusing on the advancements and implementation of digital transformation strategies, particularly in web development and ERP systems, emphasizing their role in enhancing operational efficiency and innovation in large industrial enterprises. The session witnessed active participation and valuable interactions among the 66 attendees. The event provided a meaningful platform for knowledge sharing on emerging digital technologies relevant to the engineering and industrial sectors.

Tirunelveli

Yirunelveli Local Centre of The Institution of Engineers (India) organized a technical seminar on the topic 'AI-powered Data Analytics and its Application' on 06 May 2025 at Tirunelveli. Mr M Somasundar, Vice President, Pyropferus Technologies, Chennai, graced the occasion as the Chief Guest and Keynote speaker. He delivered an insightful lecture on how AI-powered data analytics is revolutionizing various industries by enabling real-time data processing, improving operational efficiency and driving informed decision-making. His session also highlighted practical use cases of AI in business intelligence and predictive analytics. The seminar was well-organized and provided a valuable platform for participants to explore the intersection of artificial intelligence and data analytics, reflecting IEI's continued efforts in promoting emerging technologies and professional knowledge exchange.

Udaipur

In collaboration with Vigyan Samiti, Udaipur, Mining Engineers' Association of India, Rajasthan Chapter and Jain Engineers Society, Udaipur celebrated National Technology Day on 11 May 2025 at Udaipur. Dr Ranjit Choudhary, Former General Manager, RSMM Ltd, graced the occasion as the Chief Guest. Dr Mahip Bhatnagar, Chairman, Science Committee, emphasized the significance of National Technology Day while highlighting ongoing science popularization projects. Er Purushottam Paliwal, Chairman, Udaipur Local Centre, IEI discussed the evolving roles of engineers in fields such as AI, cyber security, Industry 4.0 and climate change.

FORA

National Skill Development Forum

Organized a two-day training program on 'Cost Estimate and the Tendering Process' during 21-22 February 2025. The program was inaugurated by Sh Anil Joshi, IFS, Member Secretary, HPPCB, who graced the occasion as the Chief Guest. Er Lalit Thakur from Himachal Pradesh Pollution Control Board also addressed the inaugural session. The training was conducted by Sh P K Jain, Faculty Member, who expressed gratitude to NSDF for organizing such a relevant initiative. The program covered key aspects such as cost estimation methodologies, principles of procurement and contract laws, procurement cycles, bid documents, various methods of procurement including EOI and direct contracting and the functioning of Government e-Marketplace (GeM).

The Institution of Engineers (India)

IEI Industry Excellence Award 2025

Request for Participation

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

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

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

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 July 2025

Sl. No.	Name of the Course	Scheduled Dates
1.	O&M of Sewerage network System and treatment plants	02 - 04 July 2025
2.	Certification on Microsoft Power BI Data Analyst	07 - 09 July 2025
3.	Cost reduction by Energy Auditing, Management & Design of Solar Energy Systems	07 - 10 July 2025
4.	Smart Mining with Digital Technologies - Application of Internet of Things (IoT), Smart Sensors and Artificial Intelligence, Robotics, Remote Operations, Men-Tracking	07 - 11 July 2025
5.	Safety Management in Construction and Civil Structures	07 - 11 July 2025
6.	Design & Optimization of UAV's for Industrial Applications (Defense, Mining & Construction)	07 - 11 July 2025
7.	NDT Level II Certification in Dye Penetrant Inspection (DPI) and Magnetic Particle Inspection (MPI) (in Accordance with ASNT Document No. SNT-TC-1A 2011)	08 - 10 July 2025
8.	Assessment of Irrigation Demand and Irrigation Scheduling using Latest Software Applications	09 - 11 July 2025
9.	Capacity Building Programme for Technical Personnel of Defense, Government and PSU's	14 - 17 July 2025
10.	Smart Grid & Smart Metering Technologies & Applications	14 - 17 July 2025
11.	Carbon Markets post COP28 - Renewable Energy Transition	14 – 18 July 2025
12.	MS Azure Cloud Administration	15 - 17 July 2025
13.	Occupational Safety & Health Challenges in Coal & Iron Ore Mining	16 - 18 July 2025
14.	Best Practices in O&M of Industrial Valves & Actuators for Heavy Industries & Power Plants	16 - 18 July 2025
15.	Calibration in Engineering Industry	16 - 18 July2025
16.	Advanced Intelligent Transportation System Applications for Highways	21 - 23 July 2025
17.	Developing Cost-Effective Humanoid Robots	21 - 24 July 2025
18.	Web Development using MERN Stack	21 - 24 July 2025
19.	Operation, Maintenance and Performance Monitoring of Centrifugal Pumps, Blowers and Compressors (including Reciprocating and Screw Compressors)	21 - 25 July 2025
20.	ISO 9001:2015 QMS - Lead Auditor Training (CQI - IRCA - UK Certified)	21 - 25 July 2025
21.	Networking and use of sensors for on farm Irrigation Water Management	22 - 25 July 2025
22.	Faecal Sludge and Septage Management	23 - 25 July 2025
23.	Training on Risk Management for Engineers, Scientists and Managers.	23 - 25 July 2025
24.	Gas Insulated Substations - Design features, Construction, Testing, Operation and Maintenance	23 - 25 July 2025
25.	Energy Security – Exploration & Mining of Critical Minerals & Elements	28 - 30 July 2025
26.	Leadership Styles and Teambuilding Skills for Organizational Development.	29 - 31 July 2025
27.	Conflict Management, Decision Making and Problem-Solving Skills	30 -31 July 2025

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

IEI DIARY

Agricultural Engineering Division

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]

One Day Seminar on **"Unlocking Opportunities Govt. Grants and Funding Schemes for Agricultural Research and Education"**
Salem, August 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 [Ph: 0427-2332544, E-mail: salemlc@ieindia.org, Website: www.ieislc.com]

One Day Seminar on **"Reuse of Treated Waste for Agriculture"**
Pune, August 30, 2025
The Honorary Secretary, IEI, Pune Local Centre, 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]

All India Workshop on **"Agrishield Harnessing IoT Machine Learning and AI for Smart Crop Protection And Climate Resilience"**
Tiruchirappalli, September 02–03, 2025
Tiruchirappalli, The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

All India Seminar on **"The Role of Advanced Machinery in Postharvest Management from Farm to Market Efficiency"**
Coimbatore, November 06–07, 2025
The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

Aerospace Engineering Division

All India Workshop on **"Advancement of Drone Technology Transforming Industries in 2025"** Hosur, July 15-16, 2025
The Honorary Secretary, IEI, Hosur Local Centre, 1/73, IEI HLC Building , Sri Venkateswara Colony, Kumudepalli, Hosur, Tamilnadu -635109 [Email: hosurlc@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]

Thirty-eight National Convention of Aerospace Engineers on **"Advancing AI and Additive Manufacturing in Aerospace Industries"**
Salem, November 06-07, 2025
The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [Ph: 0427-2332544, E-mail: salemlc@ieindia.org, Website: www.ieislc.com]

Architecture Engineering Division

One Day Workshop on **"Ancient Architecture is a Prelusion to Modern Architecture"**
Neyveli, August 09, 2025
The Honorary Secreatary, IEI, Neyveli Local Centre, Block 17, Neyveli 607801, Dist - Cuddalore, Tamil Nadu [☎: 04142-210510, E-mail: neyvelilc@ieindia.org, Website:www.ieineyveli.org]

One Day Seminar on "Low Carbon Building Materials for Sustainable Built Environment"
Coimbatore, August 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]

All India Seminar on **"Road To 2070: Engineering India's Transition To Net-Zero"**
Gorakhpur, September 26-27, 2025
The Honorary Secretary, IEI, Gorakhpur Local Centre, Administrative Block, Institute of Technology & Management, AL-1, Sector 7, GIDA, Gorakhpur 273209 [Mobile: 8707269768, Email: gorakhpurlc@ieindia.org, Website : www.ieigorakhpur.org

Fortieth National Convention of Architectural Engineers on **"Towards Sustainable Cities -Strategies and Technologies"**
Kochi, October 09-10, 2025
The Honorary Secretary, IEI, Kochi Local Centre, IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kaloor, Kochi 682017 [☎: 0484-2403838 / 2403993, E-mail: kochilc@ieindia.org; Website: www.ieikochi.org]

Chemical Engineering Division

One Day Seminar on **"Energy Materials and AI Enabled Sustainability Solutions"**
Salem, July 26, 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: salemlc@ieindia.org, Website: www.ieislc.com]

All India Workshop on **"Hydrogen Economy- Opportunities & Challenges"**
Kochi, August 01-02, 2025
The Honorary Secretary, IEI, Kochi Local Centre, IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kaloor, Kochi 682017 [☎: 0484-2403838 / 2403993, E-mail: kochilc@ieindia.org; Website: www.ieikochi.org]

All India Seminar on **"Circular Economy in Chemical Engineering Innovations for A Sustainable Future"**
Puducherry, August 05-06, 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 **"Sustainability on Process During Chemical Operations"**
Thiruvananthapuram, September 19-20, 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 **"Innovations in Biotechnology: Shaping the Future of Health and Sustainability"**
Hosur, September 24-25, 2025
The Honorary Secretary, IEI, Hosur Local Centre, 1/73, IEI HLC Building , Sri Venkateswara Colony, Kumudepalli, Hosur, Tamilnadu -635109 [Email: hosurlc@ieindia.org]

Fortieth National Convention of Chemical Engineers on **"Green Energy Technology and AI Enabled Sustainable Chemical Process"**
Visakhapatnam, October 11-12, 2025
The Honorary Secretary, IEI, Visakhapatnam Local Centre, 43-18-22, "Visvesvaraya Bhavan", Venkatarajunagar, Railway Station Road, Visakhapatnam [☎: 0891-2947460, E-mail: visakhapatnamlc@ieindia.org;ieivisakha@gmail.com, Website: www.ieivisakha.org]

Civil Engineering Division

One Day Seminar on **"Cutting Edge Technologies In Infrastructure Projects"**
Puducherry, July 22, 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 **"Artificial Methods for Retrofitting and Rehabilitation of Buildings"**
Chennai, 24-25 July 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; tnsc@ieindia.org, Website: www.ieitnsc.org]

One Day Workshop on **"Seismic Safety Assessment of Structures"**
Pune, July 25, 2025
The Honorary Secretary, IEI, Pune Local Centre, 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]

All India Workshop on **"Emerging Applications of Artificial Intelligence in Civil Engineering Systems"**
Indore, July 28, 2025
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E -mail:indorelc@ieindia.org]

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]

One Day Seminar on **"Advances in Microstructural Analysis of Durable and Sustainable Concrete"**
Kattankulathur, July 30, 2025
The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Techology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [☎: 044-2745 2270]

One Day Seminar on **"Emerging Trends in Civil Engineering"**
Hosur, July 31, 2025
The Honorary Secretary, IEI, Hosur Local Centre, 1/73, IEI HLC Building , Sri Venkateswara colony, Kumudepalli, Hosur, Tamilnadu -635109 [Email: hosurlc@ieindia.org]

All India Workshop on **"Unlocking Aerial Intelligence Drone Applications in Civil Engineering"**
Tiruchirappalli, August 12-13, 2025
Tiruchirappalli, The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

All India Workshop on **"Building A Greener Tomorrow Advances in Sustainable Construction"**
Kochi, August 22-23 2025
The Honorary Secretary, IEI, Kochi Local Centre IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kaloor, Kochi 682017 [☎: 0484-2403838 / 2403993, E-mail: kochilc@ieindia.org; Website: www.ieikochi.org]

One Day Seminar on **"Utilization of Polythene Waste in High Way Construction"**
Bareilly, August 23, 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 **"Modern Civil Engineers Practices for Sustainable Infrastructure Development MSID 2025"**
Lucknow, August 24-25, 2025
The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [☎: 0522-3512499, E-mail: upsc@ieindia.org, Website: www.ieiup.org.in]

One Day Seminar on **"Green Building Technologies Towards A Sustainable Built Environment"**
Indore, September 17, 2025
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E -mail:indorelc@ ieindia.org]

All India Seminar on **"Intelligent Drones in Industry 7.0 AI and IoT Driving the Future of Engineering"**
Salem, September 22-23, 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: salemlc@ieindia.org, Website: www.ieislc.com]

All India Seminar on **"Sustainable Retrofitting and Rehabilitation for Future Ready Infrastructure"** Bareilly, September 26-27, 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 Workshop on **"Ultrahigh Performance Concrete UHPC for Advanced Structural Applications"**
Kattankulathur, September 30, 2025
The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Techology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203, [☎: 044-2745 2270]

All India Seminar on **"Forensic in Civil Engineering"**
Nagpur, October 10-11, 2025
The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010 [☎: 0712-2525617, E-mail: nagpurlc@ieindia.org, Website: ieinagpur.net]

One Day Seminar on **"Urban Flood Management Strategies For Resilient Cities"**
Coimbatore, October 11, 2025
The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [☎: 0422-2580733,E-mail: coimbatorelc@ieindia.org; ieicoimbatore@gmail.com, Website: www.ieicoimbatore.org]

Computer Engineering Division

One Day Seminar on **"Prompt Engineering for Large Language Models PLLM"**
Tiruchirapalli, August 01, 2025
The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

All India Seminar on **"Cognitive Systems Computer Vision"**
Bareilly, August 01-02, 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 Workshop on **"Natural Language Processing NLP and its Applications in Generative AI"**
Indore, August 4-8, 2025
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E -mail:indorelc@ 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: salemlc@ieindia.org, Website: www.ieislc.com]

All India Seminar on **"AI in Warfare and its Positive Impact on Society"**
Chandigarh, August 8-9, 2025
The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Plot No.1-A, Engineers Bhawan, Madhya Marg, Sector 19-A, Chandigarh 160019, ☎: 0172-2775418, E-mail: pcsc@ieindia.org; ieichd@yahoo.com, Website: www.ieichd.org]

One Day Seminar on **"Advanced Web Development Emerging Technologies and Best Practices"**
Puducherry, August 12, 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 **"AI Powered Innovations Shaping the Future of Healthcare"**
Coimbatore, August 21-22, 2025
The Honorary Secretary, IEI, Coimbatore Local Centr e, 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 **"AI and Machine Learning in Quantum Computing Bridging the Future of Intelligent Systems"**
Kattankulathur, September 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]

International Conference on "**International Conference in Business Intelligence and Data Analytics**"
Jaipur, October 04-05, 2025
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, [☎: (0141) 2706327, E - m a i l :rajasthansc@ ieindia.org]

Thirty-eight National Convention of Computer Engineers on **"Quantum Computing for Nextgen Digital Transformation Bridging Innovation with Intelligence"**
Salem, October 27-28, 2025
The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC, Bhawan, Opp to Salem New Bus Stand, Salem 636004 [Ph: 0427-2332544, E-mail: salemlc@ieindia.org, Website: www.ieislc.com]

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

All India Workshop on **"Potential Applications of Artificial Intelligence and Machine Learning in Electrical Engineering"**
Tiruchirappalli, July 11-12, 2025
The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

One Day Seminar on **"Big Data Analytics for Smart Grids Challenges and Opportunities"**
Vijayawada, July 18, 2025
The Honorary Secretary, IEI, Andhra Pradesh State Centre, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

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]

One Day Seminar on **"Opportunities and Challenges of Electrical Vehicles EV in Bharat"**
Jaipur, July 26, 2025
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, [☎: (0141) 2706327, E-mail:rajasthansc@ ieindia.org]

One Day Seminar on "Emerging Trends in Electrical Technology for Sustainable Development"
Prayagraj, August 01, 2025
The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004, [☎: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org]

One Day Workshop on **"Artificial Intelligence Driven Advances in Electrical Engineering Strategies and Practical Perspectives"**
Tiruchirappalli, August 04, 2025
The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

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

Amravati, August 04-05, 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]

One Day Workshop on **"Redefining Electrical Systems and Installations"**
Indore, August 20, 2025
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E-mail:indorelc@ieindia.org]

One Day Seminar on **"Electric Vehicles Steering Towards A Greener Future"**
Puducherry, August 21, 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 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; tnsc@ieindia.org, Website: www.ieitnsc.org]

All India Workshop on **"Signal Intelligence Winter School on Image and Signal Processing"**
Kattankulathur, September 09-10, 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]

One Day Workshop on **"Essentials of Electric Vehicle Hardware Design"**
Coimbatore, September 12, 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 Cities and Digital Transformation"**
Kanpur, September 27, 2025
The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTU Campus, Nawabganj, Kanpur 208002 [Mobile: 9140018277, E-mail: kanpurlc@ieindia.org, Website: www.ieikanpur.org]

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]

All India Seminar on **"Innovation And Sustainability in the Power Sector and Electricity Market"**
Chandigarh, November 07-08, 2025
The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Plot No.1-A, Engineers Bhawan, Madhya Marg, Sector 19-A, Chandigarh 160019 [☎: 0172-2775418, E-mail: pcsc@ieindia.org; ieichd@yahoo.com, Website: www.ieichd.org]

Electronics & Telecomm. Engineering Division

All India Seminar on **"Quantum Machine Learning For Next Generation Wireless"**
Prayagraj, August 16, 2025
The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004, [☎: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org]

All India Seminar on **"Design and Optimization Aspects of Smart Annenna Systems for 6G"**
Bhimavaram, August 21-22, 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]

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]

Environmental Engineering Division

One Day Workshop on **"Climate Change and Sustainable Environment"**
Madurai, July 26, 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 **"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: salemlc@ieindia.org, Website: www.ieislc.com]

All India Workshop on **"Sustainable development and environmental Challenges Integrating Education for a Greener Future"**
Indore, August 06-07, 2025
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E-mail:indorelc@ieindia.org]

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; tnsc@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, 1/73, IEI HLC Building , Sri Venkateswara colony, Kumudepalli, Hosur, Tamilnadu -635109 [Email: hosurlc@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

All India Seminar on **"Energy Efficiency in Heating Ventilations and Air Conditioning"**
Ranchi, February 8-9, 2026
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [☎: 0651-3510412, E-mail: jharkhandsc@ieindia.org; Website: ieijscjharkhand.org]

Marine Engineering Division

Thirty-seventh National Convention of Marine Engineers on **"Environment Protection and Port Safety"**
Vijayawada, September 03-04, 2025
The Honorary Secretary, IEI, Andhra Pradesh State Centre, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

Mechanical Engineering Division

All India Seminar on **"Innovative Role of Artificial Intelligence in Solar Power Generation and Optimization"**
Kota, July 15-16, 2025
The Honorary Secretary, IEI, Kota Local Centre, Engineers Bhawan, Near BSNL Office, Jhalawar, Road, Kota 324005, Rajasthan [☎: 0744-2428250, E-mail: kotalc@ieindia.org]

All India Seminar on **"Role of AI & ML for Sustainable Development – Vikshit Bharat by 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]

All India Seminar on **"Industrial Hydraulics and Automation"**
Madurai, August 13-14, 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 Workshop on **"Innovations in Sustainable Energy Storage and Fuel Cell Technologies"**
Tiruchirappalli, August 21-22, 2025
The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.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]

One Day Seminar on **"Data Driven Lean Leveraging Smart Manufacturing For Continuous Improvement"**
Coimbatore, August 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 **"Shaping the Future: Innovations in 3D and 4D Printing Technologies"**
Prayagraj, August 30-31, 2025
The Honorary Secretary, IEI, Prayagraj Local Centre,

'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004 [☎: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org, website: www.ieiallahabad.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 Workshop on **"Recent Trends and Technology in Refrigeration Air Conditioning"**
Indore, September 09, 2025
The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E -mail:indorelc@ieindia.org]

All India Seminar on **"A Comprehensive Insights into Vibrationbased Condition Monitoring Theory Techniques Applications"**
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]

International Conference on **"Advancements in Aerospace, Mechanical and Materials Engineering"**
Vijayawada, 01-02 February, 2026
The Honorary Secretary, IEI, Andhra Pradesh State Centre, Dr K L Rao Bhavan, #29-33-14, Near Civil Courts, Gopal Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866 – 2576822, Email: apsc@ieindia.org, Website: www.ieiapsc.org]

Forty-first National Convention of Mechanical Engineers on **"Emerging Domains in Robotics and AI"**
Thiruvananthapuram, September 23-24, 2026
The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 605033 [☎: 0471-2322991, 8078027563; E-mail: keralasc@ieindia.org; Website: www.ieitvm.org]

Metallurgical & Materials Engineering Division

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, Roukela 769008, Odisha [☎: 0661-2472709, E-mail: rourkelalc@ieindia.org]

All India Seminar on **"Metallurgy in Industry Essential Concepts and Uses"**
Jaipur, August 30-31, 2025
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, [☎: (0141) 2706327, E - m a i l :rajasthansc@ ieindia.org]

Mining Engineering Division

Thirty-fifth National Convention of Mining Engineers on **"Mining And Environment Quo Vadis 2070"**
Dhanbad, November 07-08, 2025
The Honorary Secretary, IEI, Dhanbad Local Centre, Signature Corals Apartment, Flat No.B/4, First Floor, Block – A, Kusum Vihar, Phase-I, PO: BCCL Township, Koyla Nagar, Dhanbad 826005,Jharkhand, Mobile: 9934896322/8789853083, E-mail: dhanbadlc@ieindia.org; Website: www.iedhanbad.org

Production Engineering Division

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]

One Day Seminar on **"Innovations and Best Practices in Production Management"**
Kanchepuram, 24 July, 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]

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]

All India Seminar on **"Lasers in Modern Manufacturing Applications"**
Prayagraj, August 09-10, 2025
The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004 [☎: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org, website: www.ieiallahabad.org]

Textile Engineering Division

All India Seminar on **"CAD Based Design and Development of Value Added Textile and Apparel Products"**
Coimbatore, July 16-17, 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]

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]

One Day Seminar on **"Indian Textile Industry in New Tariff Era"**
Kanpur, October 29, 2025
The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTU Campus, Nawabganj, Kanpur 208002 [Mobile: 9140018277, E-mail: kanpurlc@ieindia.org, Website: www.ieikanpur.org]

Interdisciplinary Coordination Committee

All India seminar on **"Sustainable Technologies and Green Initiative"**
Durgapur, 17-18 July, 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 **"Sustainable Technology Solutions For Rural India Towards Viksit Bharat"**
Prayagraj, July 26, 2025
The Honorary Secretary, IEI, Prayagraj Local Centre, 'Engineers Bhawan', MNNIT Campus, Teliarganj, Prayagraj 211004 [☎: 0532-2545539/2271149, E-mail: allahabadlc@ieindia.org, website: www.ieiallahabad.org]

One Day Seminar on **"Decarbonisation Challenges And Research Opportunities In Energyintensive Industries"**
Coimbatore, August 02, 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 **"Green India Mission"**
Tiruchirappalli, August 07-08, 2025
The Honorary Secretary, IEI, Tiruchippalli Local Centre, BHEL Main Office Road, Opposite to 79 Building, Kailasapuram Post, Tiruchirappalli 620014, Tamil Nadu [E-mail: tiruchirapallilc@ieindia.org]

All India Seminar on **"Transforming Role of Artificial Intelligence For Sustainable Development"**
Puducherry, August 07-08, 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 Seminar on **"Green Energy and Sustainable Development"**
Puducherry, 11 August 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 **"Biotechnology: Harnessing Life Sciences for A Better Tomorrow"**
Thiruvananthapuram, August 12, 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]

National Languages Promotional Committee

One Day Seminar on **"Role of Engineers and Traffic enforcing authorities towards mitigation of Road Accident Disasters"**
Hyderabad, August 14, 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 Seminar on **"Total Quality Management for Field Civil Engineers"**
Puducherry, October 04-05 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]

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The Institution of Engineers (India)

Notification for

R&D Grant-in-Aid

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

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

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership	Quantum of Grant (INR)
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory	Not exceeding ₹15,000/- for a single project
2. UG (BE/BTech/AMIE/ Equivalent)	SMIE	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation	Not exceeding ₹50,000/- for a single project
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