

IEI NEWS

December 2024

IEI Excellence Award
2024

3

Quality,
Profitability and
Sustainability.....

8

Enhancing
Resilience: Flood
Management.....

10

Reports of World
Habitat Day 2024

14

Reports of World
Standards Day
2024

16

Reports of
Engineers' Day 2024

18

Reports of
Royal Charter
Day 2024

20

A CENTURY OF SERVICE TO THE NATION

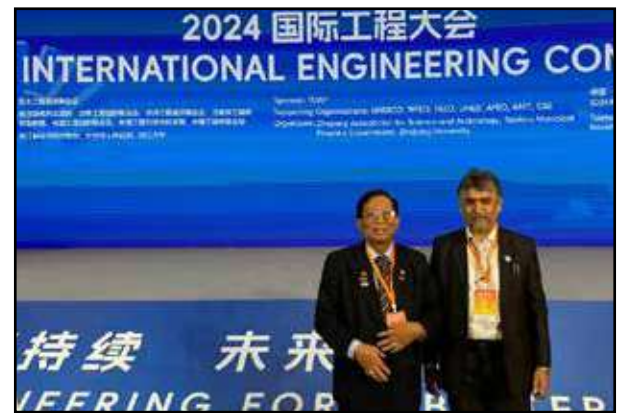
Volume 31

Number 9

Report on the 2024 International Engineering Congress

The 2024 International Engineering Congress (IEC), organized by the Federation of Engineering Institutions of Asia and the Pacific (FEIAP), was a landmark event in the global engineering landscape. Held from November 8 to 9, 2024, in Taizhou, China, the Congress brought together representatives from over 30 countries across Asia-Pacific, Africa, and Latin America, along with key international organizations such as UNESCO, the World Federation of Engineering Organizations (WFEO), and the Federation of African Engineering Organizations (FAEO). The event served as a platform for international cooperation and exchange in engineering education, emerging technologies, and professional mobility, underscoring the theme, Sustainable Engineering for a Better Future.

The inaugural function at the Taizhou White Swan Hotel set the tone for the Congress, with distinguished addresses by leaders such as Prof. Dr. Aung Kyaw Myat, President of FEIAP, and Prof. Dr. Shahbaz Khan, Director of UNESCO Regional Office for East Asia. The event also witnessed the signing of several landmark agreements, including the Africa, Americas, Asia & Pacific (A3P) Accord and a framework agreement to establish the Global South Engineering Education and Training Center in collaboration with Taizhou University. These initiatives reflected a commitment to fostering global collaboration and advancing engineering education across diverse regions.



The Congress featured a series of keynote presentations and technical discussions, focusing on the intersection of emerging technologies and sustainable development. One of the pivotal sessions was the roundtable on International

Contd. on page 2

Thirty-ninth National Convention of Civil Engineers and National Seminar

Exploring Emerging Trends in Civil Engineering

Kochi Local Centre, IEI organized the 39th National Convention of Civil Engineers at Kochi during 17-18 October 2024 under the aegis of the Civil Engineering Division Board [CVDB], IEI. A National Seminar was also concurrently organised along with the National Convention on the theme **Exploring Emerging Trends in Civil Engineering**, which highlighted the rapidly evolving landscape of the profession and its pivotal role in creating safer, more efficient, and sustainable infrastructure. The National Convention served as a platform for civil engineering professionals to explore cutting-edge trends and lead the way in developing a sustainable and future-ready built environment.



Shri Nitin Jairam Gadkari, Hon'ble Minister for Road Transport and Highways, Government of India, graced the inaugural function with his virtual presence as the Chief Guest and inaugurated the National Convention on 17 October 2024 morning. Speaking on the occasion, he emphasised the need for



research into new technologies, pre-casting and indigenisation to advance the construction sector and reduce cost. "The requirement of bitumen for road construction in India is 90 lakh tonnes per annum. However,

Contd. on page 2

Know-Your-Member (KYM)

Is your mobile number & e-mail are updated with us ? If not, then please forward your Know-Your-Member (KYM) form immediately for participating in IEI Election process.

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@ieiindia.org

The form is available on IEI Website or scan the code:

<https://shorturl.at/8Q5tF>

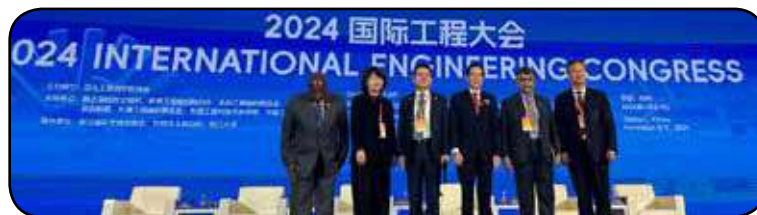


Report on the 2024 International Engineering Congress

Contd. from page 1

Cooperation for Emerging and Innovative Technologies: AI and Open Engineering for Future Engineers, where Dr. G. Ranganath, President, The Institution of Engineers (India) (IEI), represented India and shared valuable insights. Dr. Ranganath highlighted India's leadership in leveraging Artificial Intelligence (AI) for transformative applications in sectors such as healthcare, agriculture, smart cities, and mobility. He emphasized the ethical deployment of AI, supported by initiatives like the National Strategy for Artificial Intelligence and the AI for All program, which aim to ensure inclusive and responsible technological growth.

Dr. Ranganath also spoke about the significance of open engineering in enabling global collaboration. Drawing attention to India's robust startup ecosystem and its strides in AI research and education, he highlighted the role of organizations like IEI in fostering innovation through research grants, publications, and global partnerships. He referenced IEI's recent publication, *Ethics in Artificial Intelligence: Bias, Fairness and Beyond*, which underscores the importance of ethics in AI-driven innovation. Dr.



Ranganath's deliberation at the Congress underscored India's commitment to innovation and sustainable development, aligning perfectly with the Congress's vision of transcending organizational boundaries to build a better future for all.

The Congress concluded with a collective commitment to advancing sustainable engineering practices and harnessing the potential of emerging technologies for global good. It successfully reinforced the need for mutual cooperation among nations to address pressing challenges and create a more sustainable and inclusive future.

Exploring Emerging Trends in Civil Engineering

Contd. from page 1

our production capacity is only 40 lakh tonnes. This leads to import of bitumen and loss of foreign exchange. Adding plastic and rubber in the right proportion can enhance the quality of road tarring and reduce dependence on imported bitumen. Additionally, treated sewage water can be recycled for construction purposes. Civil engineers must adopt a futuristic vision," Shri Nitin Gadkari said. He observed that civil engineers are the Vishwa Karmas of our country and that our future lies in the conversion of knowledge to wealth.



Padma Vibhushan Dr E Sreedharan, Former Managing Director of Delhi Metro Rail Corporation graced the occasion as the Distinguished Guest. In his address, Dr Sreedharan stressed the need to introduce an Engineers Bill in the country to improve the quality and integrity of the engineering profession. Furthermore, he emphasized mandating accreditation for civil and structural engineers to enhance the quality and integrity of the profession. Dr Sreedharan justified the demand saying that the profession has lost its charm over the years, mainly on account of erosion of work culture and delay in completing projects. 'Punctuality and adherence to deadlines are cardinal to the profession', he said, referring to the 760 km Konkan Railway, built through mountainous terrain with 92 tunnels and nearly 2000 major and minor bridges. He added that though the country was making significant progress in infrastructure development, civil engineers were not heading technical positions in various government organisations, including the National Highways Authority of India, which often leads to inefficiencies and suboptimal project outcomes. He recommended appointing qualified civil engineers to leadership roles to ensure technical expertise drives infrastructure growth. He also underscored the need for imparting practical

training to civil engineering students during the undergraduate programme.

Prof (Dr) T G Sitharam, Chairman of All India Council for Technical Education [AICTE] was the Guest of Honour during the inaugural session. Speaking on the occasion, he emphasised the need for improving the gross enrolment ratio (GER) in the higher education sector in the country. He stated that the GER in higher education sector in a developed country should be more than 65%. He pointed out that the current GER in India is only 28.3%. He mentioned that the National Education Policy 2020 aims at improving the GER to 50% by 2030. Prof. Sitharam refuted the allegation that the number of sanctioned seats in the under graduate engineering programmes is



very much on the higher side compared to the demand. He stressed the need for introducing skilled courses in higher education programmes. He pointed out that our country faces unique challenges in the civil engineering profession like the growing population, boom in the infrastructure projects and intricacies in the society. He advocated the need for properly skilling the undergraduate students in the second and third grade engineering colleges in the country as these engineers will get involved in nation building in coming years. He cited the examples of ISRO and DRDO where most of the successful technical and scientific manpower are products of these colleges in urban and rural areas, not from top rung institutions like IITs.

Dr Anil Joseph, Chairman, Civil Engineering Division Board presided over the inaugural session. He advocated the need for developing strong linkage between the Institution of Engineers (India) and AICTE and Bureau of Indian Standards (BIS) for the betterment of engineering profession in the country.

Dr G Ranganath, the then President, IEI, also spoke on the occasion and advised the Corporate Members of IEI to update their contact details for the purpose of speedy communication. Er VB Singh, the then President Elect and presently President, IEI; Er G Velayudhan Nair, Chairman, Kochi Local

Contd. on page 7

IEI Industry Excellence Award & Engineering Education Excellence Award Ceremony 2024, 19 December 2024, Novotel Kolkata Hotel and Residences

The **IEI Excellence Award Ceremony 2024** was held on **19 December 2024**, at the prestigious **Novotel Kolkata - Hotel and Residences**. This grand event showcased the pinnacle of excellence in industry and engineering education, offering a coveted platform for businesses and academia to highlight their achievements and contributions.

Recognition through these awards underscores the importance of fostering competitiveness in industries, enhancing the academic reputation of institutions, and motivating excellence in performance. By participating in these accolades, organizations and institutions not only garner recognition



but also strengthen their brand identity and demonstrate a steadfast commitment to innovation.

The ceremony was graced by an esteemed panel of dignitaries. Er BRV Sushil Kumar, Vice Chairman & Managing Director of Telangana Mineral Development Corporation Limited, attended as the Chief Guest, while Er Tapan Misra, Chairman of Sisir Radar and Former Scientist at ISRO, was the Guest of Honor. Joining them on the dais were Er VB Singh, then President-Elect and now President of IEI, and Dr G Ranganath, the then President of IEI.

Dr Enti Ranga Reddy, Chairman of the IEI Excellence Award Committee (2023-24), and Dr Alok Nath De, Convener of the event, delivered insightful addresses to the audience, setting the tone for the day.

The event was meticulously organized into four award sessions, each paired with a panel discussion addressing crucial industry and academic topics:

1. Engineering Manufacturing and Processing (EMP) & Engineering Organization in Construction Industry (ECI)

- o Panel Discussion Topic: How Sustainability Paradigm is at the Core of Industries Future.

2. Engineering Services and Consultancy

- o Panel Discussion Topic: How Digital Transformation and Data Intelligence are Helping Industries' Growth.



3. Engineering Education Excellence Award

- o Panel Discussion Topic: How NEP 2020 is Making Impact Through Adoption and Industry Connect.

4. Recognition of Participants for Commendable Performance in Industry and Academia

- o Panel Discussion Topic: How Entrepreneurship is Embraced in Corporate, MSMEs, and Academia.

The event was supported by key partners and sponsors, including:

Indian Society for Technical Education (ISTE) as Knowledge Partner and Sponsors and Supporters are:

- o Telangana Mineral Development Corporation Limited
- o Gujarat Metro Rail Corporation Limited
- o Coal India Limited
- o NLC India Limited
- o SJVN Limited, Shimla, HP
- o HES Infra Private Limited, Hyderabad
- o RITES Limited
- o Bank of Baroda
- o State Bank of India

The event received an overwhelming **76 nominations** out of which 35 nominations were received from Industries and 19 nominations were selected for the awards in various categories. For **Engineering Education Excellence Awards**, 41 nominations were received out of which with 11 awards adjudged suitable for awards.

The **IEI Excellence Award Ceremony 2024** is a shining example of the collaboration between industry and academia, reinforcing their shared commitment to innovation and sustainability. The event celebrated top performers while fostering thought leadership on contemporary challenges and opportunities. It remains a beacon of excellence, inspiring industries and institutions to strive for even greater achievements in the future.

For IEI Industry Excellence Award, under the category, Engineering Manufacturing and Processing, the Awardees are;

- Hindustan Aeronautics Limited, Bangalore
- Steel Authority of India Limited, Salem
- Kirloskar Brothers Limited, Pune
- ONGC Tripura Power Company Limited, Tripura
- Carborundum Universal Limited, Ernakulam

- Yogi Ji Digi, Faridabad
- Avantel Limited, Hyderabad
- High Energy Batteries (India) Limited, Pudukkottai, TN
- SOGAFI ADM Suspensions Private Limited, Pune
- Global Engineers Limited, New Delhi

Under the category Engineering Organizations in Construction Industry,

- Afcons Infrastructure Limited, Mumbai

Under the category Engineering Services and Consultancy,

- MECON Limited, Ranchi
- WAPCOS Limited, Haryana
- Consulting Engineers Group Jaipur
- Electrical Research and Development Association, Vadodara
- Safran Data Systems India Private Limited, Bangalore
- Idam Infrastructure Advisory Private Limited, Mumbai
- Development Environergy Services Limited, Noida
- Avant Garde Systems Controls Private Limited, Chennai

For Engineering Education Excellence Award, under the category Engineering Colleges and Institutions, the Awardees are;

- SRM Institute of Science and Technology, Tamilnadu
- Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, TN
- Sona College of Technology, Salem
- SNJB's Late Sau Kantabai Bhavarlalji Jain College Of Engineering, Chandwad
- Swami Keshavanand Institute of Technology, Management and Gramothan, Jaipur

Under the category, Polytechnic Colleges/Institutions

- Thiagarajar Polytechnic College, Salem
- Padmshri Dr V B Kolte College of Engineering, Malkapur
- Sanjivani K B P Polytechnic, Kopargaon

Under the category Women Engineering Colleges/Institutions

- School of Engineering and Technology, Mody University of Science & Technology, Lakshmangarh, Rajasthan
- Shri Vishnu Engineering College for Women, Bhimavaram, AP
- G Narayanamma Institute of Technology & Science, Hyderabad, Telangana

Further, industries and academic institutions were recognised for their commendable performance in industry and academia. Industries recognised for commendable performance are;

- Shriram Rayons, Kota
- Marvelous Machinist Private Limited, MH
- Acoustics India Private Limited, Tiruchirappalli, TN
- Pumpsence Fluid Engineering Private Limited, Kolkata
- NICCO Engineering Services Limited, Kolkata
- ITL Industries Limited, Indore, MP
- Tata Consulting Engineers Limited
- Visakha Pharma City Limited, Visakhapatnam, Andhra Pradesh
- Intercontinental Consultants and Technocrats Private Limited, Varanasi, Uttar Pradesh

- Engineers India Limited, New Delhi
- Geomarine Dynamics India Private Limited, Visakhapatnam, Andhra Pradesh
- QCROS, Noida
- Suresh Babu & Partners, Mumbai
- Ruky Projects Private Limited
- Tandon Consultants Private Limited
- Epicons Consultants Private Limited

Educational Institutions recognized for commendable performance are

- Sagi Rama Krishnam Raju Engineering College, China Amiram, Bhimavaram, AP
- Hindusthan College of Engineering And Technology, Coimbatore
- K Ramakrishnan College of Engineering, Trichy
- Jerusalem College of Engineering, Chennai
- Kasegaon Education Society's Rajarambapu Institute of Technology, Rajaramnagar
- BGS Institute of Technology, Karnataka
- KLS Vishwanathrao Deshpande Institute of Technology, Hallyal, Karnataka
- Chaitanya Bharathi Institute of Technology, Hyderabad
- Annasaheb Dange College of Engineering & Technology, Ashta, MH
- Dadi Institute of Engineering & Technology, Anakapalle, Visakhapatnam, Andhra Pradesh
- Ramco Institute of Technology, Rajapalayam, Tamil Nadu
- Rajalakshmi Engineering College, Sriperumbudur, Chennai
- B V Raju Institute of Technology, Narsapur, Telangana
- M.I.ET Engineering College, Trichy
- Vishwakarma Institute of Technology, Pune
- Anjuman College of Engineering and Technology, Nagpur
- Thiagarajar College of Engineering, Madurai
- Siddaganga Institute of Technology, Tumakuru
- Sri Ramakrishna Engineering College, Coimbatore
- Saranathan College of Engineering, Panjappur, Tamil Nadu
- K K Wagh Institute of Engineering, Education and Research, Nashik
- R M K Engineering College, Tiruvallur
- Lakireddy Bali Reddy College of Engineering, Mylavaram, Andhra Pradesh
- Jodhpur Institute of Engineering and Technology
- K K Wagh Polytechnic, Nashik
- Periyar Centenary Polytechnic College, Vallam Thanjavur
- METS Institute of Technology-Polytechnic, Nashik
- Government Polytechnic, Visakhapatnam
- BVRIT Hyderabad College of Engineering for Women
- LBS Institute of Technology for Women, Thiruvananthapuram

The interactive session was concluded with B2B Meetings and industry-academia interaction.

Presentation of IEI Industry Excellence Awards 2024



1. Hindustan Aeronautics Limited, Bangalore; 2. Steel Authority of India Limited, Salem; 3. Kirloskar Brothers Limited, Pune; 4. ONGC Tripura Power Company Limited, Tripura; 5. Carborundum Universal Limited, Ernakulam; 6. Yogi JiDigi, Faridabad; 7. Avantel Limited, Hyderabad; 8. High Energy Batteries (India) Limited, Pudukkottai, TN; 9. SOGAFI ADM Suspensions Private Limited, Pune; 10. Afcons Infrastructure Limited, Mumbai; 11. MECON Limited, Ranchi; 12. WAPCOS Limited, Haryana; 13. Consulting Engineers Group Jaipur; 14. Electrical Research and Development Association, Vadodara; 15. Safran Data Systems India Private Limited, Bangalore



16. Idam Infrastructure Advisory Private Limited, Mumbai; 17. Development Environenergy Services Limited, Noida; 18. Avant Garde Systems Controls Private Limited, Chennai

Presentation of IEI Engineering Education Excellence Awards 2024



1. SRM Institute of Science and Technology, Tamilnadu; 2. Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, Avadi, TN; 3. Sona College of Technology, Salem; 4. SNJB's Late Sau Kantabai Bhavarlalji Jain College Of Engineering, Chandwad; 5. Swami Keshavanand Institute of Technology, Management and Gramothan, Jaipur; 6. Thiagarajar Polytechnic College, Salem; 7. Padmshri Dr V B Kolte College of Engineering, Malkapur; 8. Sanjivani K B P Polytechnic, Kopergaon; 9. School of Engineering and Technology, Mody University of Science & Technology, Lakshmangarh, Rajasthan; 10. Shri Vishnu Engineering College for Women, Bhimavaram, AP; 11. G Narayanamma Institute of Technology & Science, Hyderabad, Telangana

Exploring Emerging Trends in Civil Engineering

Contd. from page 2

Centre, IEI; Er K S Babu, Convener of the National Convention; Er Abdu E A, Organising Secretary and Er T C Prasanth, Honorary Secretary, Kochi Local Centre also spoke on the occasion.

On the occasion, Prof (Dr) T G Sitharam, Chairman, AICTE; Shri Sanjay Pant, Deputy Director General[Standardization-II], BIS HQ, New Delhi; Prof (Dr) Babu T Jose, Former Dean, Faculty of Engineering, Cochin University of Science and Technology [CUSAT]; and Dr M P Ramnavas, Director [Projects],



Kochi Metro Rail Limited were felicitated as Eminent Engineering Personalities in recognition of their eminence and contribution to the profession of Civil



Prof (Dr) T G Sitharam

Engineering. The IEI Young Engineers Awards 2024 in Civil Engineering Division were presented to; Dr (Ms) Akansha Tyagi, Assistant Professor, Civil Engineering Department, IIT Roorkee; Dr (Ms) A Thirumalaiselvi, Senior Scientist, CSIR-



Shri Sanjay Pant

Structural Engineering Research Centre, Chennai and Dr Harsh Shah, Founder and CEO, Agrocast Analytics Private Limited, Gandhinagar in recognition of their contributions in the field of Civil Engineering.



Prof (Dr) Babu T Jose

Special Recognition of Doyens of Civil Engineering from Kerala was awarded to; Er V Suresh, Vice Chairman, National Building Code of India; Er E Kurian Mathew, Former Chief Engineer, Kerala



Dr M P Ramnavas

PWD; Er K G Chandrasekharan, Former Member (Technical), KSEB.

The Young Entrepreneur Award in the Building Sector was presented to; Er Sahil Azeed, Executive Director, Skyline Builders.

Inaugural Session was followed by the Prof Jai Krishna Memorial Lecture, which was delivered by Prof Deepankar Choudhury, Prof T Kant Chair Professor, Department of Civil Engineering, IIT Bombay on the topic, 'Emerging Techniques for the Design of Foundation Systems under Earthquake Conditions for India's Longest Sea Bridge, ATAL Setu-MTHL, and the Application of CPRF in Nuclear Power Plants (NPP)'. The State of Art Lecture was delivered by Prof (Dr) T G Sitharam, on the topic "Engineering for Sustainable Development during AmritKaal: A Vision for Bharat—Embracing Emerging Technologies".



Prof Deepankar Choudhury

Er P Surya Prakash, Council Member, IEI delivered Invited Lecture on the topic 'Trends in Design and Construction'. Er M Shyamaprasad Reddy, Council Member, IEI on the topic 'Groundwater Recharging as a Sustainable and Economical Option in Water Resources Development'. Dr Glory Joseph, Professor, Department of Civil Engineering, School of Engineering, CUSAT on the topic 'Reinforced Concrete Beams

strengthened with CFRP'. Er Varghese A Johns, Vice President (Technical), Geostructurals Private Limited, Kochi on the topic 'Prefabrication and Modular Construction: Shaping the Future of Civil Engineering'. Dr Elson John, Professor and Head, Department of Civil Engineering, M A College of Engineering, Kothamangalam on the topic 'The Ultra-High Performance Concrete (UHPC) Revolution: Stronger, Sleeker, and Smarter'.



Dr Harsh Shah

The Young Engineer Awardees, Dr Harsh Shah, Dr A Thirumalaiselvi, and Dr (Ms) Akanksha Tyagi delivered lectures on the topics 'Water Availability in the Indian Subcontinent: Past Changes and Future Outlook', 'Acoustic Emission-Based Health Monitoring of Structures in Corrosive Environments—An ML-Augmented Approach' and 'Modeling and Design of Large Underground Openings in Soft Soils' respectively.



Dr A Thirumalaiselvi

A total of 56 technical papers, selected from 112 abstracts and 75 full papers, were peer-reviewed and presented during the National Seminar. These papers aligned with the Convention's theme and covered a wide range of topics including Machine Learning in construction, Resilient Future Construction, Modular Construction, High-performance Concrete, Green Building materials, carbon footprint reduction, water reuse, and sustainable land-use efficiency etc.



Dr (Ms) Akanksha Tyagi

During the technical sessions, papers were presented on the topics namely; Modeling and Design of Improvement of Large Underground Openings in Soft Soils', Acoustic Emission based Health Monitoring; Exploring Barriers to implementing a Circular Economy for Construction and Demolition Waste; Numerical Modeling of Seawater Intrusion in Coastal Areas of Kochi; Study on the Elastomeric Behavior of Ternary Blended High-Strength Self Compacted Concrete; Comprehensive Water Audit; Assessment of Concrete Performance using Recycled Coarse Aggregates from Demolition and Construction Waste; Multinomial Logistic Regression of Time and Cost Overruns in Construction of Irrigation Projects; Strength Characteristics of Mortar containing Incinerated Biomedical Waste Ash.

The best paper awards were presented to Sri Numair Manhas and Salil Bansal from IIT Delhi, Er Sabarath Jagandas from CBIT Hyderabad and Er Ashok of CSIR – CECRI, Karaikudi.

A Technical Exhibition was organized alongside the National Convention, providing civil engineering industries an opportunity to showcase their latest innovations. A project work exhibition by students was also a part of the event, providing a platform for young innovators to demonstrate their ideas.

A panel discussion on the future of civil engineering was moderated by Dr Anil Joseph, Chairman of the Civil Engineering Division Board. The panelists included: Er V Suresh, Vice Chairman, National Building Code of India (NBC); Er Rajesh Bisaria, Immediate Past Chairman, Madhya Pradesh State Centre and Er Rakesh Kumar Rathore, Council Member, IEI. During the discussion, Er V Suresh projected that by 2030, there will be a significant demand for competent civil engineers. He also emphasised the need for regulating the civil engineering profession by adopting the Engineers Bill. Er Rakesh Kumar Rathore emphasized the importance of sustainable construction and the role of civil engineers in promoting it. Er Rajesh Bisaria shared an optimistic outlook on the future of civil engineering, stressing the need for green construction. The panel also highlighted the importance

Contd. on page 9

Quality, Profitability and Sustainability in Textiles

Indore Local Centre of the Institution organized the 37th National Convention of Textile Engineers during 28-29 September 2024 at Indore under the aegis of Textile Engineering Division Board [TXDB], IEI. A National Conference on the theme **Quality, Profitability and Sustainability in Textiles** was organized concurrently with the National Convention. The objective of the National Convention was to bring together textile industry leaders, academicians and researchers in a common platform to contribute for the betterment of the textile fraternity. Er Shankar Lalwani, Member of Parliament, Indore Lok Sabha, graced the inaugural function as the Chief Guest. Dr Upinder Dhar, Vice Chancellor, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore was present on the dais as the Guest of Honour. Prof (Dr) Ms G Thilagavathi, Chairperson, Textile Engineering Division Board [Session 2023-24] presided over the inaugural function.

sustainable practices spanning the entire textile value chain, from fiber production to garment manufacturing.

During the first technical session, Prof (Dr) Apurba Das delivered a Keynote address on the topic 'Emergence of Sustainable Development in Textile and Fashion: Advancing Sustainable Practices for Global Environment'. In his lecture, Prof Das highlighted significant advancements toward a more sustainable future in textile fashion. He emphasized the rise of circular fashion, which promotes waste reduction, recycling, and upcycling at every stage of a product's lifecycle. Dr S Basak, ICAR-National Institute of Natural Fibres Engineering & Technology, Kolkata, delivered lecture on the topic 'Natural fibre based Biodegradable Engineered Leather' and explained the natural fibre based leather alternatives emerged in the research domain and slowly penetrating commercial market. Researchers have adopted different

scientific ways for mimicking natural leather by using natural fibres, he added. Dr P K Gupta, Shri Vaishnav Vidyapeeth Vishwavidyalaya delivered presentation on 'Okra—An Underutilized Bast Fiber for Technical Textiles' and explained the process of making sustainable fabric made by Okra fiber. Dr R Saminathan, Kumaraguru College of Technology, Coimbatore, delivered lecture on the topic 'Bamboo and Banana-Stem Fibre Reinforced Composites for Sound and Thermal Insulation' and reported the investigation on the sound absorption and thermal insulation properties of composites from these fibres. Acoustic and thermal insulation is important in the automotive and construction sectors to improve energy efficiency and occupant comfort. Ms Afreeen

Begum, The Bombay Textile Research Association, Mumbai spoke on 'Natural Dyeing of Khadi Fabric-A Sustainable Approach' and explained the use of natural dyes for khadi fabric as an environmentally friendly approach. Eco-friendly Natural Dyeing of Khadi fabric using Rare Earths Metal Salts as Mordants is related to natural dyeing of khadi fabrics using nonconventional mordant salt; This nonconventional mordant is a rare earth salt namely Cerium Nitrate, Yttrium Chloride and Lanthanum Chloride, he mentioned. Mr Miles Trivedi, Assistant Director, MSME Indore also briefed about the different Government schemes & policies for the establishment of sustainable industry.

Mayor of the Indore city, Shri Pushpmitra Bhargav also graced the occasion during the technical sessions and encouraged the participants.

The second technical session started with the Keynote Lecture, delivered by Dr Nilesh Kanoongo, MD, Uttar Techno consultants Private Limited, Mumbai on the theme 'Sustainable Practices in Textile Industry'. In his address, Dr Kanoongo shed light on the key elements of sustainability along with the key areas and pillars of sustainability. He also briefed about the zero discharge process. Er Mukesh Matta, Vice President, Pratibha Syntex Limited delivered lecture on the topic 'Sustainability in Textile' and explained the linkage between quality, profitability & sustainability. He also briefed about the sustainable processes and key initiatives taken by Pratibha Syntex Limited. Ms Priyam Patel and Dr Aadhar Mandot from M S University, Baroda explained the innovative method of manufacturing a fire-retardant mattress cover on a simple circular knitting machine using modacrylic ring spun yarn and glass fibre filament yarn in an interlock structure. The speakers explained that the developed fabric for mattress cover is tested for limited flame spread - surface ignition, limited flame spread - edge ignition and abrasion resistance and compared with the conventional fire-retardant mattress cover fabric. Cost analysis was also carried out to reach the most economical flame-retardant fabric for mattress cover. Dr Sasmita Panda, Associate Professor, NIFT Hyderabad explained the design created by the Lepcha tribes of Sikkim. She highlighted the traditional nature-based practices of the Lepcha community alongside their



The event was started with the welcome address delivered by Er Dinesh Kumar Shukla, Chairman, Indore Local Centre. Er Rajendra Prasad Gautam, Immediate Past Chairman of Indore Local Centre briefed about the theme. Prof Thilagavathi, in her address explained the present scenario of the textile industry. A Souvenir was released on the occasion. On the occasion, Prof



Prof Apurba Das

Apurba Das, Professor in the Department of Textile and Fibre Engineering; and Institute Chair Professor, IIT Delhi; Dr Prabhakar Bhat, Founder Director, PurthviTechTex Solutions, Pune and Er Birendranath Bandhopadhyay, President, Kusumgar Private Limited were



Dr Prabhakar Bhat

felicitated as Eminent Engineering Personalities for their eminence and contribution in the field of textile engineering.



Er Birendranath Bandhopadhyay

Guest of Honour, Dr Upinder Dhar in his address, deliberated on the significance of using biodegradable textile and highlighted the significance of the recycling process. He highlighted the importance of sustainability for the survival of the textile industry.

Chief Guest, Er Shankar Lalwani briefed about the initiatives taken by the Government of India for the development of textile industries. Er Ramesh Singh Chouhan, Honorary Secretary of Indore Local Centre proposed the vote of thanks at the end of the inaugural session.

Dr Vikas Baburao Thakare, Scientist D, Defense Research & Development Establishment, Gwalior delivered the S N Bhaduri Memorial Lecture on the topic 'NBC Protective Technical Textiles in Defense: Advances and Future Directions'. In his lecture, Dr Thakare explained that future of advanced technical textile and polymer-based NBC protective clothing is poised for remarkable advancements, fuelled by innovations in materials science, technology, and design. Dr Prabhakar Bhat delivered the State of Art Lecture on the topic 'Sustainability: Responsibility & Opportunity' shedding light on

Contd. on page 9

Quality, Profitability and Sustainability in Textiles

Contd. from page 8

cultural artefacts such as Lepcha Handloom, including – Carpet weaving, Blanket weaving and Lepcha handicraft, including – Thangka painting, Wood carving, wooden mask making, Bamboo and cane craft. Er Ajay Shankar Joshi and Dr Tanveer Malik from SVITT, SVVV, delivered lecture on the topic 'Study the Effects of Different Mordants and Different Mordanting Methods on Silk Fabric Dyed with Henna Natural Dye'. They explained that the dye was extracted from the henna powder and dyed the silk fabric using alum, ferrous sulphate, stannous chloride mordant applying pre-mordanting, simultaneous mordanting and post-mordanting method and then evaluating the color strength. The study revealed that ferrous sulphate was the best mordant among all the three mordant.

In the third technical session, the Keynote Speaker was Mr Prabhat Parashar, Head, QC, Raymond Lifestyle Limited, Vapi. He delivered the Keynote Lecture on the topic 'Sustainable Textile Industry' and shared his industrial experiences along with the sustainable practices used for the making woolen fabric & garment. Mr Sanjay Bambhaniya and Dr Aadhar Mandot, M.S University Baroda delivered lecture on 'Architectural Fabrics :Exploring Materials Application & Overcoming Challenges'. The speakers explained the commercially available architectural fabrics, their performance characteristics, and the challenges they face in terms of cost, environmental impact, and durability. The need for sustainable, bio-based polymers is emphasized as a future direction for architectural fabric development, alongside advancements in coating technologies that could enhance both performance and eco-friendliness, the speakers added. Ms Poonam Purohit from M.S University of Baroda discussed the relationship between thermal transmission parameters of single and multilayer textile structures, composed of different materials. The paper highlighted that a three-layered fabric was designed to provide thermal comfort to the wearer, in which the innermost layer consists of superfine merino wool, followed by layers of polyester-cotton and cotton layers; The prepared layered fabric was tested for its properties related to thermo physiological comfort such as thermal resistance, thermal insulation, air permeability, vertical wicking etc. Dr Yogita Agrawal and Er Ajay Shankar Joshi from Shri Vaishnav Vidyapeeth Vishwavidyalaya delivered lecture on 'The Challenges and Practices related

to Sustainability in the Indian Apparel and Textile industries: A Review' and enlighten the issues that the Indian garment sector is currently confronting, starting from the cultivation of raw materials. Furthermore, this effort involves categorizing these difficulties into different aspects of sustainability, including environmental, social, and economic. Ms Rati Ranade, SDPS College, Indore delivered lecture on 'Agender Clothing in the Indian Cultural Context: A Fusion of Tradition and Modernity' and explained the key factors influencing the adaptation of agender clothing in India, including the interplay between global fashion trends and local cultural sensibilities. She briefed about agender clothing, while promoting inclusivity and fluidity, often intersects with and modifies traditional attire rather than entirely displacing it. This amalgamation creates a unique fashion narrative that balances modernity with cultural heritage. In the Valedictory session, Mr S Pal, Director Vardhaman MP Location was the Chief Guest and Er Saourabh Jain M D Prem Textiles Private Limited was the Guest of Honor. Er Ajay Shankar Joshi summed up the proceedings of deliberation. Er Dinesh Shukla presided over and delivered the welcome address.

In last decade, the demand for sustainable textile and eco-friendly material has increased significantly from consumer as well as various groups. So it is recommended to the Industries to work towards Sustainability goals. Following are the significant recommendation emanating from the industries; Effective waste management system be implemented, so that reuse and recycle of waste be done in a better manner; It is also recommended to use the natural and gradients in the processing of the which includes Haldi, Mehndi and other moderates to keep the environment safe and clean. It is recommended to use the natural and recycled fibers like okra, jute, organic cotton, Hemp, Bamboo, Recycled polyester and eco friendly dyes; Industry must adopt sustainable production system where the natural resources are required as minimum as possible. Industry should minimize the use of electricity and other resources wherever possible. Focus on the use of the renewal resources renewal energy; Industries should implement EMS, QMS CMS etc. Industry should implement the process assessment system Higg Index tools, Life cycle assessment, cradle to cradle; Focus should be given to different certification like GOATS, ZDHC and it Green Logistics should be adopted.

Exploring Emerging Trends in Civil Engineering

Contd. from page 7

of geotechnical engineering and the need to incorporate climate change considerations in future projects. The panel shared insights into the evolving role of civil engineers in a rapidly changing world, discussing actionable outcomes based on the presentations and insights from the Convention.

During the valedictory session, Shri Hibi Eden, Member of the Parliament, graced the occasion as the Chief Guest and Er V Suresh as the Guest of Honour. In his address, he stressed the need for professionalism in all development projects, warning that the lack of it often leads to project failures. On this occasion, Er VB Singh, submitted a memorandum to ShriHibi Eden, advocating the passing of an Engineer's Bill in the country and seeking his full support in this regard.

Dr Anil Joseph, Chairman, CVDB delivered the valedictory address. Er KS Babu, Convener of the National Convention presented the summary report and recommendations. Er G Velayudhan Nair, Chairman, Kochi Local Centre, IEI presided over and welcomed the gathering and Er T C Prasanth, Honorary Secretary, Kochi Local Centre proposed the vote of thanks.

The outcomes of the National Convention, derived from the presentations and panel discussions, underscored the need for the civil engineering industry to continuously adapt to technological advancements, new materials, and

processes. These adaptations are necessary to remain aligned with global trends and to support sustainable growth in the industry. The following recommendations are made based on the deliberations during the National Seminar.

Necessary measures be initiated by the Central government to get the Engineers' Act passed in both houses of Parliament at the earliest. Adequate representation of the Institution of Engineers (India), the largest professional body of engineers in the country, must be ensured in the proposed Indian Council of Engineers (ICE), the regulating authority to enact the Engineers' Act; ICE may authorize IEI to recognize the Professional Engineers and International Professional Engineers; Industrialized design, production and construction using precast concrete products should be promoted to achieve fast construction time, high profitability, and excellent quality; Sustainable and green construction methods should be given more importance to decrease the industry's impact on the environment; Real time project management softwares may be adopted by the construction industry to increase efficiency and save time; It is recommended that geotechnical engineering be given due weightage in the UG curriculum of civil engineering; Implementing groundwater recharge can be an effective method for sustainable groundwater management.

Recent Developments in Additive Manufacturing Process

Tiruchirappalli Local Centre, IEI, organized an All India Workshop on **Recent Developments in Additive Manufacturing Process** on 24-25 May, 2024, under the aegis of Mechanical Engineering Division Board [MCDB], IEI at Tiruchirappalli. Number of participants from various institutions attended the Workshop, which featured lectures and hands-on training by distinguished speakers from reputable institutions and industries.



Prof (Dr) S Ravimaran, Chairman, Tiruchirappalli Local Centre, IEI and Head, Department of Artificial Intelligence and Data Science, Saranathan College of Engineering, Trichy, delivered the welcome address. He highlighted the importance of the Workshop and outlined the activities of IEI, emphasizing the role of the Institution in advancing engineering knowledge and practices. The Workshop was inaugurated by Dr N Siva Shanmugam, Professor, Department of Mechanical Engineering, National Institute of Technology Tiruchirappalli. During his inaugural speech, Prof Shanmugam provided an overview of Additive Manufacturing and its current developments, setting the tone for the Workshop's technical sessions. Dr D Srinivasan, Principal, K Ramakrishnan College of Engineering (Autonomous), delivered the presidential address, welcoming the participants and emphasizing

the significance of hosting such Workshops in fostering innovation and knowledge exchange in the field of additive manufacturing.

Prof Shanmugam also delivered a lecture on the topic 'Introduction to Additive Manufacturing'. The session provided an in-depth exploration of the fundamentals of Additive Manufacturing, its applications and its potential in revolutionizing production processes. Dr G Mahesh, Associate Professor, Department of Mechanical Engineering, Saranathan College of Engineering, delivered a lecture on 'Role of Optimization Techniques in Additive Manufacturing Process'. Following the lecture, Dr Mahesh provided hands-on training in the operation of 3D printing machines. This practical session allowed participants to gain real-world experience with additive manufacturing technology.

Dr M Ravichandran, Professor, Department of Mechanical Engineering, K Ramakrishnan College of Engineering (Autonomous), Tiruchirappalli delivered a lecture on the topic 'Laser-Based AM Processes'. Dr V Dhinakaran, Head, Research and Development at GESCO Healthcare Private Limited, Chennai. He delivered a talk on "Laser-Based AM and its Applications in Biomedical Industries". Dr V Anandakrishnan, Professor, Department of Production Engineering, NIT Tiruchirappalli, gave an insightful lecture on 'Challenges in Metal Additive Manufacturing Processes'. He outlined the technical challenges and future opportunities in the development of metal additive manufacturing technologies. In addition to the invited lectures, technical papers related to additive manufacturing were presented throughout the Workshop. These papers contributed to the participants' understanding of the latest research and innovations in the field.

The Workshop concluded with a valedictory address by Dr V Anandakrishnan, who reiterated the importance of continued research and development in additive manufacturing. The event concluded with concluding remarks delivered by Dr M Ravichandran, recognizing the efforts of the organizing committee, the speakers and the participants for making the Workshop a grand success.

All India Seminar under the aegis of Civil Engineering Division Board

Enhancing Resilience: Flood Management and Mitigation Strategies in India

Tamilnadu State Centre, IEI, in collaboration with the Department of Civil Engineering, Thiagarajar Polytechnic College, Salem, organized an All India Seminar on **Enhancing Resilience: Flood Management and Mitigation Strategies in India** during 23-24 February, 2024, under the aegis of Civil Engineering Division Board [CVDB], IEI at Salem to address the critical challenges posed by floods and explore strategies to enhance resilience and mitigation efforts across India.

Er R Alagesan, Director, Central Water Commission, Ministry of Jal Shakti, Godavari River Management Board, Andhra Pradesh inaugurated the Seminar and addressed on Flood Management and Mitigation Strategies in India - Building Resilience. In his speech, he elaborated on various flood management and mitigation strategies and discussed the importance of building resilience in India's water management systems. His address highlighted the need for innovative approaches to mitigate the growing risk of floods due to climate change and unplanned urbanization. Sri C Valliappa, Chairman, Sona Institutions, appreciated the effort of the participants for presenting papers and encouraged students to focus on the efficient and effective use of

water resources. He also emphasized the role of educational institutions in advancing flood management solutions.

The Seminar began with the welcome address, delivered by Dr V Karthikeyan, Chairman, Tamilnadu State Centre, IEI. In his address, he emphasized the necessity of developing flood management policies that align with national



and global initiatives on disaster risk reduction and sustainable development. Er S Loganathan, Convener and Committee Member of Tamil Nadu State Centre, presented the thematic address, focusing on the importance of coordinated efforts for flood risk reduction. Dr S R R Senthilkumar, Principal, Sona College of Technology, Dr D Elango, Co-Convener and Committee

Member, Tamilnadu State Centre, IEI and Er S Natarajan, Committee Member, Tamilnadu State Centre, IEI, addressed the audience, commending the efforts of the participants and encouraging further research in flood management. Dr A Ranganathan, Assistant Executive Engineer, WRD/ Special Project Division, Dr Vignesh, Assistant Professor, VIT and Dr G L Sathyamoorthy, Professor, Kumaraguru College of Technology, delivered

Contd. on page 11

Enhancing Resilience: Flood Management and Mitigation Strategies in India

Contd. from page 10

expert lectures on various aspects of flood management and resilience building.

Several technical papers on various topics were presented during the seminar namely; Flood Mitigation Measures; Overview of Flood Management in India; Technological Interventions for Flood Forecasting and Early Warning Systems; Infrastructure Development and Engineering Solutions; Climate Change Adaption and Future Challenges; Climate Change and Impact on Flood Vulnerability; Importance of War Room in Flood Management; Policy Framework and Governance in Flood Management; Community Engagement and Resilience Building; and International Collaboration and Best Practices.

The session chairs, including Dr R Lavanya, Lecturer, Civil Engineering, Thiagarajar Polytechnic College, Dr G L Sathyamoorthy, Professor, Civil Engineering, Kumaraguru College of Technology, Dr D Elango, Committee Member, Tamilnadu State Centre, IEI, Dr R Malathy, HoD, Civil Engineering, Sona College of Technology, Dr M N A Gulsan Taj, Professor, Civil Engineering, Sona College of Technology and Dr V Kanian Poonkundran, Committee

Member, Salem Local Centre, IEI and Dr K Vidhya, HoD, Civil Engineering, Mahendra Engineering College evaluated the paper presentations. Additionally, a poster presentation was organised on the topic 'Lessons Learnt from Past Floods in India and Advanced Solutions'.

In the valedictory session Dr M N A Gulsan Taj, Professor, Civil Engineering, Sona College of Technology, addressed the audience and Er S. Loganathan, Convener of the Seminar, presented the summary report. He emphasized the need for holistic approaches integrating scientific knowledge, technology, community participation and policy reforms to enhance flood resilience. The session concluded with a presidential address by Dr V Karthikeyan, who acknowledged the efforts of the organizing team and participants. Er S Natarajan, Committee Member, Tamilnadu State Centre, IEI, proposed the vote of thanks.

The seminar provided a platform for interdisciplinary learning, fostering collaboration, and contributing to the growing body of knowledge on flood management and mitigation strategies in India.

All India Seminar under the aegis of Electronics & Telecommunication Engineering Division Board

Intelligent Systems, IoT and Wireless Communication for the Society

Rourkela Local Centre, IEI, in association with Department of Electronics & Communication Engineering, National Institute of Technology Rourkela, organized an All India Seminar on the theme **Intelligent Systems, IoT and Wireless Communication for the Society** during 16-17 February, 2024, under the aegis of Electronics & Telecommunication Engineering Division Board [ETDB], IEI at Rourkela. The event focused on emerging technologies such as IoT and wireless communication, exploring their applications for societal benefit. It attracted a diverse audience, including professionals, students, and experts, fostering meaningful discussions and paving the way for innovative solutions.

The Chief Guest for the Seminar, Prof Ganapati Panda, Former Deputy Director, IIT Bhubaneswar, delivered an insightful Keynote address. He emphasized the importance of understanding the distinct contributions of AI and human creativity, highlighting the potential for collaboration between the two to achieve greater advancements in various fields. His address set the tone for the Seminar by underlining the importance of AI, IoT and wireless communication in shaping future societal solutions. The Guest of Honour, Prof Chandan Kumar Sahoo, Dean (Faculty Welfare), NIT Rourkela, extended his support to the Seminar's organizers and participants. He expressed optimism about the potential outcomes of the Seminar and its contributions to the field of electronics and communication. Earlier, Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI, delivered the welcome address. He spoke about the rapid growth of IoT across industries and how it promotes AI adoption, leading to enhanced intelligence in computing and communications. Prof Santanu Kumar Behera, Convener of the Seminar, introduced the Seminar's theme and discussed its relevance in the modern technological landscape. Prof Poonam Singh, HoD, Department of Electronics & Communication Engineering, NIT Rourkela also spoke on the occasion and shared her perspective on the advancements in IoT and wireless communication. Dr Ajit Kumar Behra, Honorary Secretary, Rourkela Local Centre, IEI proposed the vote of thanks at the end of inaugural session.

Prof Nemai Karmakar from Monash University, Clayton, Victoria, Australia, delivered a Keynote speech on the occasion. Papers presented during the technical sessions covered a broad range of topics related to intelligent systems, IoT and wireless communication namely ; Strategic Retail Decision-

Making: A Hybrid Apriori-FP Growth Algorithm for Efficient Association Rule Discovery; Quality Assessment of Software Projects using Machine Learning; Optimizing Crop Recommendations in Indian Agriculture Using Machine Learning Techniques; An overview on Acoustic Emission Testing (AET); A Dual-Layer Microwave Absorber using Resistive Ink for C and X Band Applications; Metasurface-Based Crossed Dipole Antenna with Curved Ends; Performance Analysis of Multi-User NOMA in Downlink Communication System using SISO-OFDM; Optimization of Resource Scheduling in the

Coexistence of eMBB and uRLLC for 5G Networks: A Comprehensive Performance Evaluation; A Comparative Analysis of Pilot Decontamination Schemes in Massive MIMO System; Air Quality Prediction Model Using Novel Red Deer Algorithm Optimized Gated Recurrent Neural Network (RDA-GRNN); Performance Analysis of

Chromatic Dispersion in Optical Networks Using Deep Learning Approaches; Machine Learning based Channel Estimation for Free Space Optical (FSO) Communication; Face Image Retrieval using GLCM and Texture Feature Fusion; A Compact YOLOv5-GhostNet-based Weapon Detection System for Smart City Applications; Insulator Condition Monitoring using Swin Transformer Classifier enhanced with Image Augmentation and Swin Super-resolution Technique; Audio Signal Processing based Fetal Health Monitoring; Enhancing Human Activity Recognition with Language Analysis and BERT; Inverted 'G' Shaped Resonator for Low Frequency Sensor Applications and Bit-density Calculation; Design and Development of Real- Time Capacitive Sensor Readout Circuit for Small Gap Measurement; A Block Chain-based Self-Sovereign Identity Management Framework for Internet of Things; Advanced Gas Leak Prevention with Smart Sensor Network; Design and Development of Power-Efficient SAR ADC with Dual Path Switching and Triple Tail Comparator for Biomedical Signal Processing; and Modelling of Solar Cell to achieve Maximum Power Point using a Boost Converter.

The Seminar concluded with a valedictory address by Er Santosh Kumar Polaki, who thanked the participants and organizing team for their efforts. Dr Ajit Kumar Behera, delivered the vote of thanks, acknowledging the contributions of speakers, attendees and sponsors. The Seminar was successful in creating a vibrant platform for discussions on the latest developments in IoT and wireless communication technologies and their applications in society.



Nano Materials for Buildings

Gwalior Local Centre, IEI, organized a One Day Seminar on the theme **Nano Materials for Buildings** on 04 August, 2024 under the aegis of Architectural Engineering Division Board [ARDB] at Gwalior. The seminar brought together experts, academics and practitioners to discuss innovative applications of nanotechnology in the construction industry.

The seminar commenced with a welcome address delivered by Er Radha Kishan Khetan, Chairman, Gwalior Local Centre, IEI [Session 2022-24]. He introduced the theme, highlighting the role of nanoparticles such as titanium dioxide, silica, copper, clay, aluminum oxide and carbon nanotubes in revolutionizing the construction sector.

The Keynote speaker of the event, Er Prabhat Bhargava, CEO, Bhargava Ateliers Private Limited, explained the approaches for producing nanomaterials, emphasizing the advantages of the top-down approach. He addressed the challenges in identifying and assessing nano-enabled products under current market legislation. Dr P K Singhal, Professor, MITS, Gwalior and Past Chairman, Gwalior Local Centre, IEI elaborated on commercially available nano-enabled products like nano-coated glass and self-cleaning windows. He stressed the importance of detailed information for effectively managing risks associated with nanotechnology. Prof C S Malvi, presently Chairman, Gwalior Local Centre, IEI delivered an engaging lecture on the classification of nanomaterials, categorizing them by dimension and composition. PE V K Shukla, Organizing Secretary, Gwalior Local Centre, IEI

addressed the future potential of nanomaterials in construction. He highlighted innovations like nano-silica, which enhances the durability of cementitious materials.

Er Nitin Kulkarni, Proprietor, N K & Associates, Gwalior discussed the dimensional and compositional classifications of nanomaterials and their implications for construction.



Dr (Ms) Chhavi Saxena, presently Honorary Secretary, Gwalior Local Centre, IEI and Director, GEC Overseas, Gwalior, explained how nanomaterials behave differently at the nanoscale, offering exciting prospects for construction applications. Er Shyam Garg, Consultant, K Design & Developer, focused on the physical and chemical properties of nanomaterials, including their use in self-cleaning windows and health monitoring systems. Er Anshuman

Khetan, PhD Scholar at MITS, highlighted the applications of nanoporous silica aerogels and TiO_2 nanoparticles in thermal insulation and anti-fouling coatings. Er Ranvir Singh, former Additional Chief Engineer, MPEB, Gwalior explained the role of nanotechnology in enhancing the fire resistance of materials like steel and cementitious coatings.

The seminar concluded with a formal Vote of Thanks by Dr (Ms) Chhavi Saxena. The participants gained valuable insights into cutting-edge research and practical applications, paving the way for innovative and sustainable construction practices.

Industry and Foundry 4.0

West Bengal State Centre, IEI, organized a One Day Seminar on the theme **Industry and Foundry 4.0** on 05 August, 2024 under the aegis of Metallurgical and Materials Engineering Division Board [MMDB] at Kolkata in hybrid mode. The event commemorated the 101st Birth Anniversary of Late Haridas Nandy, a prominent figure in the establishment of the MME division at IEI. The Seminar witnessed the participation of researchers, academicians and industry professionals from across the country.

The Seminar began with a welcome address by Prof (Dr) Raju Basak, Chairman, West Bengal State Centre, IEI. He extended a warm welcome to the attendees and highlighted the contemporary relevance of the seminar theme as a tribute



to Late H Nandy. Dr N P Sinha, Director, Alans Global Services, Foundry Park, Howrah graced the function as the Chief Guest. Dr Sinha praised the legacy of Late H Nandy and discussed the paradigm shift in foundry operations brought about by digital transformation. He emphasized the potential of state-of-the-art software solutions to modernize foundry processes and attract young talent. Prof (Dr) N R Bandyopadhyay, Former Professor and Head, School of Materials Science and Engineering, IIST Shibpur elaborated on the evolution of metallurgy and its alignment with Industry 4.0. He spoke about the transformative impact of automation, artificial intelligence and robotics on manufacturing, with a focus on casting as a foundational industry.

The first technical session commenced with the Commemorative Lecture delivered by Prof (Dr) N R Bandyopadhyay, on the topic 'Emergence of Concepts: Industry & Foundry 4.0: Reflection and Introspection'. He highlighted the need for Foundry Resource Planning (FRP) solutions and the integration of multidisciplinary engineering sciences to meet modern industrial challenges.

Dr Ajay Kumar, Assistant Professor, Department of Mechanical engineering IIT Tirupati, delivered Invited Lecture on the topic 'The Role of Digitization in Foundry Industry and Opportunities' and discussed the impact of Industry 4.0 and 3D printing on metal casting.

During the second technical session, Dr V S Saravana, Associate VP, Indo Shell Cast Private Limited., Coimbatore delivered invited lecture on the topic 'Transforming Foundry Operations through IoT Enabled Resource Management'. He emphasized the transition from traditional foundry practices to IoT-enabled smart manufacturing. Dr Debasis De Sarkar, Chairperson of the Technical Sessions & CEO, Indian Copper Development Centre, Kolkata summed up the proceedings of deliberations. He further deliberated on the topic 'Sustainability of Non-Ferrous Metal Casting Units –Some Important Issues'.

The valedictory session was chaired by Prof (Dr) N R Bandyopadhyay. He summarized the technical proceedings and acknowledged the contributions of speakers and participants. Er Anirban Datta, Honorary Secretary, West Bengal State Centre, IEI, presented the technical report and thanked all stakeholders.

The seminar was a resounding success, attended by approximately 150 delegates in physical and online modes. The discussions provided a comprehensive insight into the advancements in Industry and Foundry 4.0, bridging traditional metallurgy with modern technological innovations. The event not only honored the legacy of Late Haridas Nandy but also set a benchmark for academic and professional discourse in the field.

Waste to Energy Technology

Tamilnadu State Centre, IEI, in collaboration with Thiagarajar Polytechnic College, Salem, organized a One Day Seminar on the theme **Waste to Energy Technology** on 05 July, 2024 under the aegis of Environmental Engineering Division Board [ENDB] at Salem. The Seminar aimed to highlight sustainable energy solutions and promote innovative approaches in waste-to-energy technologies. Dr V Karthikeyan, Chairman, Tamilnadu State Centre, IEI and Principal, Thiagarajar Polytechnic College, Salem delivered the welcome address. He introduced the objectives of the seminar,



emphasizing the need to address environmental challenges caused by waste and to explore technologies for sustainable energy production. Er K. Mariappan, National MSME Council Member, Government of India and Co-Chairman, ASSOCHAM Development Council of Tamilnadu, inaugurated the seminar. In his Keynote speech, he stressed the transformative potential of renewable energy in addressing global energy demands, the importance of recycling in waste management, and opportunities for MSMEs in clean energy technologies.

Er S Balagurunathan, Director, NIRT, Renewable Energy, Salem delivered a Invited Talk on the topic 'Green Energy - A Way Forward' He discussed how the adoption of green energy technologies serves as a key indicator of a nation's sustainable development progress. He further emphasized the

urgency of addressing climate change, highlighting its far-reaching impacts on global ecosystems and human societies. He explained on the various greenhouse gases, their sources, and their contributions to global warming. Er P Kumar, Head, Environment at JSW Steel Private Limited, spoke on the topic 'Waste to Energy Technology' and covered sustainable development goals, waste management hierarchies and various energy conversion processes like anaerobic digestion and gasification. Further, during the technical sessions, papers were presented on the topics Importance of Waste Management to Environmental Sanitation; Evaluating the Problems of Solid Waste Management on the Global Stage and Importance of Recycling to Waste Management.

Earlier, Er N Senthilkumar, Convener and Committee Member, Tamilnadu State Centre, IEI delivered the thematic address and emphasized the importance of a low-carbon economy. Dr G Maheswaran, Committee Member, Salem Local Centre, IEI shared insights on reframing 'waste' as 'unused resources' and integrating traditional practices into modern energy applications. Dr K Thangaraj, Chairman, Salem Local Centre, IEI discussed the potential of solar energy in sustainable development. Er D Gokul, Honorary Secretary, Tamilnadu State Centre, IEI delivered the vote of thanks and shared his perception of the Seminar's success and impact. He also highlighted various features of renewable energy resources, emphasizing the importance of sustainable technology and Advancements in waste-to-energy technology.

A compiled Proceedings was released on the occasion with 117 research papers, which is a valuable resource for future reference and research in waste-to-energy technology, representing the wealth of knowledge and innovation in the field.

The seminar was a successful convergence of ideas and innovations in waste-to-energy technology, providing participants with valuable knowledge and inspiration for future advancements in sustainable energy.

Artificial Intelligence

Agra Local Centre, IEI, in association with Department of Computer Science & Engineering, Eshan College of Engineering, Mathura, Uttar Pradesh, organized a One Day Workshop on the theme **Artificial Intelligence** on 03 April, 2024 under the aegis of Computer Engineering Division Board [CPDB], IEI at Mathura. The event was attended by a large audience of corporate and non-corporate members, faculty and students. At the beginning, Er Rajneesh Kumar Yadav, Honorary Secretary, Agra Local Centre, IEI [Session 2022-2024] welcomed the participants and delivered an introductory speech highlighting the society's contributions to academia and societal progress.



Prof (Dr) Pankaj Sharma, Director, Eshan College of Engineering, briefed the audience about the importance of automation in agriculture and the

integration of Artificial Intelligence, IoT and Machine Learning in addressing food security challenges. The Keynote address was delivered by Prof (Dr) D K Chaturvedi from Dayalbagh Educational Institute, Agra. He elaborated on the fundamentals of Artificial Intelligence and its potential applications in agriculture. His insights into interdisciplinary research and AI's role in agricultural innovation were well-received.

During the technical session, a live demonstration on Drone technology for agricultural applications was presented by Dr Ravindra Bhardwaj from Dayalbagh Educational Institute. In his presentation, the speaker showcased AI's practical implementations in monitoring and automating agricultural activities. While the event primarily featured invited speeches, it also provided a platform for discussions on the application of AI in interdisciplinary areas.

Prof (Dr) Pankaj Sharma in his address mentioned that Agriculture Automation is the emerging subject in India and abroad at present. Automation practices using IoT, AI, Machine Learning and Remote Sensing can play a vital role in fulfilling the requirements. During the valedictory session, feedbacks were received from the participants. Er Vyom Kulshreshtha, Head, Computer Science and Engineering Department, Eshan College of Engineering delivered the concluding remarks.

The Workshop provided a robust platform to explore AI's transformative potential in agriculture, fostered knowledge exchange, and inspired future research.

IEI Celebrates World Habitat Day 2024

Theme : Engaging Youth to Create a Better Urban Future

The World Habitat Day was celebrated by the Institution on October 7, 2024. Brief accounts of celebration as received from various Centres are reported hereunder

STATE CENTRES

Jammu & Kashmir

Jammu & Kashmir State Centre, IEI, in collaboration with key urban stakeholders, observed World Habitat Day 2024 on 07 October 2024 at Srinagar and a panel discussion was organised on the occasion. Chief Guest, Dr Owais Ahmad, IAS, Commissioner, Srinagar Municipal Corporation and CEO, Srinagar Smart City Limited, highlighted the role of youth in driving innovation within the Smart City projects in Srinagar. Guest of Honour of the event was Mrs Dilafroze Qazi, Vice Chairperson, SSM College of Engineering.



Engineering, spoke about youth engagement in shaping sustainable cities. Er Vyom Kulshreshtha, Organizing Secretary, highlighted the significance of youth contributions and proposed the vote of thanks.

Bareilly



Bareilly Local Centre, IEI, observed World Habitat Day 2024 on 07 October 2024 at Bareilly. Er Subhash Mehra, Past Chairman of Bareilly Local Centre delivered his views on the theme. Er Raj Goel, Chairman, Bareilly

Local Centre, IEI [Session 2022-24] emphasized the importance of involving youth in urban planning to foster sustainable, inclusive cities. Er B S Bajwa, and Er Subhash Mehra spoke on the theme.

Dhanbad

Dhanbad Local Centre, IEI, in collaboration with the EIACP Centre (RP), Department of Environmental Science & Engineering, IIT ISM Dhanbad, observed World Habitat Day on 07 October 2024 at Dhanbad. Prof (Dr) Dheeraj Kumar, Chairman, Dhanbad Local Centre and Deputy Director, IIT ISM Dhanbad, presided over and delivered the welcome address. Theme

speaker of the session was Prof Suresh Pandian, Associate Professor, Department of Environmental Science & Engineering, IIT ISM Dhanbad. Prof (Dr) Biswajit Paul, Honorary Secretary, Dhanbad Local Centre, IEI and Professor, Department of Environmental Science & Engineering, IIT ISM Dhanbad, expressed gratitude to all participants for their contributions to the discussion on shaping a better urban future.

Indore



Indore Local Centre, IEI, observed World Habitat Day 2024 on 07 October 2024 at SGSITS, Indore. Dr Sandeep M Narulkar, Director, SGSITS, Indore was the Guest of Honour. Speakers of the event were Dr Dilip Wagela, Former

Chief Scientist, MP Pollution Control Board and Prof S L Garg, Founder Director, World Researchers Associates.

Puducherry

Puducherry State Centre, IEI, in association with the Department of Architectural Engineering, Women's Engineering College [WEC], Puducherry organized the World Habitat Day 2024 on 07 October 2024 at Palakkad. Chief Guest, Mr S Sudalai, Assistant Professor, Centre of Pollution Control and Environmental Engineering, School of Engineering & Technology, Puducherry spoke on the event's theme.



Tamilnadu

Tamilnadu State Centre, IEI, observed World Habitat Day 2024 on 07 October 2024 through online mode. Chief Guest of the event was Ar Akbar Bashu, Design Head, Bangalore Studio, IMK Architects. Ar Bashu discussed the importance of youth engagement in urban planning to create inclusive and sustainable cities.

Uttar Pradesh

Uttar Pradesh State Centre, IEI, observed World Habitat Day 2024 at Lucknow on 07 October 2024. Chief Guest of the event, Prof Subodh Shankar, a renowned architect and town planner stressed the need for youth participation in addressing urban challenges like climate change. Er VB Singh, the then President Elect and presently President, IEI also graced the occasion.



LOCAL CENTRES

Agra

Agra Local Centre, IEI, observed World Habitat Day 2024 on 08 October 2024 at Mathura. Prof (Dr) Pankaj Sharma, Director, Eshan College of

Jammu



Jammu Local Centre, IEI observed World Habitat Day 2024 on 07 October 2024 at Jammu. Dr Devansh Yadav, IAS, Municipal Commissioner and CEO of Jammu Smart City Limited was the Chief Guest. Four

technical papers were presented during the technical session.

Jodhpur



Jodhpur Local Centre, IEI, organized the World Habitat Day 2024 on 07 October 2024 at Jodhpur. Keynote Speaker of the event was Dr Abhishek Arya, Professor, JIET, Jodhpur.

Kanpur



Kanpur Local Centre, IEI, observed World Habitat Day 2024, in collaboration with Uttar Pradesh Textile Technology Institute, celebrated World Habitat Day on 15 October 2024 at Kanpur. Keynote speaker,

Dr Rajat Kumar Khare, Proprietor, Suyash Consultants, Kanpur delivered lecture on the theme emphasizing youth involvement in urban planning.

Kattankulathur

Kattankulathur Local Centre, IEI, observed World Habitat Day on 07 October 2024 through online platform, in association with Department of Aerospace Engineering, SRM Institute of Science & Technology, Kattankulathur. Theme Speaker of the session was Dr J Raja Meenakshi, Assistant Professor, Department of Social Science and Technology, VIT, Vellore.

Ludhiana

Ludhiana Local Centre, IEI, observed World Habitat Day 2024 on 07 October 2024 in association with the Students Chapter of The Institution of Engineers [India] and the Indian Institute of Architects. Ar Akanksha Sharma,



HOD, GNDEC School of Architecture spoke on the theme. Ar Pritpal Singh Ahluwalia, Chairman, IIA, Punjab discussed on sustainable buildings, while Ar Kanav Khosla, Chairman, Ludhiana Architects

Association emphasized the role of architects in making greener buildings.

North Bengal

North Bengal Local Centre, IEI observed World Habitat Day 2024 on 07 October 2024 through virtual mode. Ms Shrayasi Datta, Honorary Secretary, North Bengal Local Centre, IEI emphasized the importance of involving youth in urban decision making. Dr G.K. Panda, Past Chairman, North Bengal Local Centre, IEI highlighted the role of youth in driving sustainable and equitable development. Prof (Dr) Amitava Ray, Chairman, North Bengal Local Centre, IEI shared his insights on the theme.

Neyveli



Neyveli Local Centre, IEI, observed the World Habitat Day 2024 on 07 October 2024 through virtual mode. Er A Eraniyan, Honorary Secretary, Neyveli Local Centre, and Er M Palani, Past

Honorary Secretary of the host Centre welcomed all the Guests, Speaker and participants, providing an overview of the program. Er M S Rajan, Chief General Manager/Contracts, NLC India Limited, and Er M Sathish Kumar, Executive Engineer/SMD/Mine I /NLCIL delivered lecture on the theme.

Palghat



Palghat Local Centre, IEI, observed World Habitat Day 2024 on 07 October 2024 at Palakkad. Er J Aurthur Xavier, District Environmental Engineer, Kerala State Pollution Control Board was the

Keynote speaker. Er Xavier in his address emphasized preserving natural resources and the role of youth in urban development.

Upgradation of Membership

- ❖ Existing Associate Members are requested to upgrade their Membership to the grade of MIE and FIE as per the eligibility criteria
- ❖ Existing Members are requested to upgrade their Membership to the grade of Fellow as per the eligibility criteria

For details, please contact

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

✉ dd.membership@ieindia.org

Chartered Engineer Certification

The Members who have not availed the Chartered Engineer Certificate [CEng(I)], are requested to apply through online:
<https://www.ieindia.org/WebUI/iei-Memb.aspx#chartered-engineering>

IEI Celebrates World Standards Day 2024

Theme : Shared Vision for a better world: Incorporating SDG 3

The World Standards Day was celebrated by the Institution on October 14, 2023. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Manipur



Manipur State Centre, IEI, observed World Standards Day 2024 on 14 October 2024 at Imphal. The Theme Speaker, Dr Khelchandra Thongam, Associate Professor, NIT Manipur, deliberated at a length the

importance of AI-powered innovations including green infrastructure, smart cities and healthcare advancement.

Punjab & Chandigarh



Punjab & Chandigarh State Centre, IEI, observed World Standards Day 2024 on 14 October 2024 at Chandigarh. Chief Guest, Prof (Dr) Bhola Ram Gurjar, Director, NITTR Chandigarh, and Guest of Honour Prof (Dr) T

S Kamal, addressed the gathering. Keynote Speaker, Dr A S Balgir, IOFS (Retd), Additional General Manager, Indian Ordnance Factories, emphasized AI-powered innovations and international standards.

Uttar Pradesh



Uttar Pradesh State Centre, IEI, observed World Standards Day 2024 on 14 October 2024 at Lucknow. Mr Sudheer Bishnoi, Senior Director and Head, Bureau of Indian Standards, highlighted standards' role

in ensuring safety, quality and global trade simplification. Prof Neelam Srivastava, Program Coordinator, emphasized the day's significance and the contributions of standard-making bodies. Er VB Singh, presently President, IEI was present on the dais.

LOCAL CENTRES

Allahabad



Allahabad Local Centre, IEI, observed World Standards Day 2024 on 14 October 2024 at Prayagraj. Keynote speaker, Er Kanhaiya Singh, Executive Member, Allahabad Local Centre, IEI, spoke on the theme.

Bareilly



Bareilly Local Centre, IEI, observed World Standards Day on 14 September 2024 at Bareilly. Er D N Yadav, General Manager, Vadilal Industry, Bareilly and Er B S Bajwa shared their insights on the importance of infrastructure and innovation for economic growth.

Faridabad



Faridabad Local Centre, IEI observed World Standards Day on 13 October 2024 at Faridabad, focusing on the topic 'Shared Vision for a Better World: Spotlight on SDG 9: Industry, Innovation, and Infrastructure in the Age

of AI'. Expert Speaker, Mr Kannan Govindraj, Scientist D / Joint Director, BIS Faridabad, explained the role of AI in transforming industries.

Gwalior



Gwalior Local Centre, IEI, in collaboration with the IETE Bhopal Center, observed World Standards Day on 14 October 2024 at MITS, Gwalior. Prof (Dr) C S Malvi, MITS Gwalior discussed farming machinery standards. Col A S Bais (Retd) addressed military standards and Er Rajendra Singh, Chief

Engineer, MP Electricity Board, explained electricity standards.

Jodhpur



Jodhpur Local Centre, IEI, observed World Standards Day on 14 October 2024 at Jodhpur. Keynote speaker, Mr Murli Dhar Sharma, Vice Principal, Government College of Nursing, Jodhpur, emphasized the role of Sustainable Development Goals (SDG 3) in promoting health, addressing climate

change and fostering a sustainable economy.

Kanyakumari



Kanyakumari Local Centre, IEI, observed World Standards Day on 14 October 2024 at Kanyakumari. Chief Guest of the session was Dr Jothi Swaroopan, Professor, RMK College. Dr Swaroopan's address, emphasized the significance of standards in fostering innovation and global cooperation.

Kochi

Kochi Local Centre, IEI, observed World Standards Day on 14 October 2024 through online platform. Prof (Dr) G Madhu, Council Member, IEI, introduced the Keynote Speaker, Cdr (Dr) Jayakrishnan N Nair (Retd), Indian Navy. Cdr Nair in his address highlighted, how AI can be a powerful enabler for smart infrastructure and sustainable industrial practices.

Madurai



Madurai Local Centre, IEI, observed World Standards Day on 14 October 2024 at Madurai. Chief Guest, Lt Col Alok Devrani, Superintending Engineer, AIIMS Madurai, in his address focussed on AI's role in achieving industry,

innovation, and infrastructure.

North Bengal

North Bengal Local Centre, IEI, observed World Standards Day 2024 on 14 October 2024 via an online discussion. Ms Shrayasi Datta, Honorary Secretary, introduced the theme and explained AI's impact on productivity and sustainability in manufacturing. Er Chinmoy Ghosh, Past Honorary Secretary, discussed SDG 9's focus on sustainable agriculture and equitable access to technology.

Salem

Salem Local Centre, IEI, observed World Standards Day 2024 on 14 October 2024 via online mode. Chief Guest of the session, Er S Natarajan, Former Management Representative, SAIL-Salem Steel Plant, delivered the Keynote address on the theme and explained AI's transformative impact on various sectors and the need for robust standards.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI, in association with Indian Institute of Welding Tiruchirappalli branch, Computer Society of India, Tiruchirappalli Chapter, Safety Quality Forum - IEI /New Delhi, Indian welding Society Southern zone, Indian Institute of Metals Tiruchirappalli Chapter, Indian Institution of Industrial Engineering Tiruchirappalli, Indian Institution of Plant Engineers Trichy chapter, Kumari Arivial Peravai Kanyakumari and Indian Society for Non-destructive Testing Trichy chapter observed World Standards Day 2024 on 15 October 2024 through online mode. Chief Guest of the session was Er D Senthil Kumar, DGM, DTG, Bharat Heavy Electricals Ltd, Tiruchirappalli.



Vallabh Vidyanagar

Vallabh Vidyanagar Local Centre, IEI, observed World Standards Day 2024 on 14 October 2024 at Vallabh Vidyanagar. Dr Sheshang D

Degadwala, Professor and Head, Computer Engineering Department, Sigma University, Vadodara, discussed how AI drives sustainable growth and innovation. Er Shri Subhash Ghelani, Chairman, Gujarat State Centre and Council Member, IEI, emphasized the importance of standards in ensuring ethical and efficient AI integration.

Visakhapatnam

Visakhapatnam Local Centre, IEI, observed World Standards Day on 13 October 2024 at Visakhapatnam. Keynote Speaker, Dr Bijay Kumar Sahu, Senior Regional Manager & Head (Outreach Office), Associate Editor – Invention Intelligence, NRDC, Ministry of Science & Technology, Government of India explained AI's role in industry and innovation, significance of recycling of plastic waste, marine oil spill bioremediation technology etc.

Elevate your status as a Certified Professional Engineer (PE) and International Professional Engineer (IntPE)

Professional Engineers (PE) Certification by IEI

ELIGIBILITY REQUIREMENT

To attain the Professional Engineers (PE) certification through the Institution of Engineers (IEI), you must meet the following eligibility criteria:

1. Hold a BE/BTech or equivalent degree recognized by a Statutory Authority or the Government of India.
2. Have accumulated five years or more of professional experience.
3. Be a member of a recognized professional engineering institution or association.
4. Maintain a satisfactory level of Continued Professional Development (CPD).

For more information and details, please visit the following link :

https://www.ieindia.org/webui/IEI_PE_Certification.aspx

International Professional Engineers (IntPE) Certification by IEI

ELIGIBILITY REQUIREMENT

To be eligible for IntPE Certification by IEI, candidates must meet the following criteria:

1. Hold a BE/BTech or equivalent degree recognized by the Statutory Authority or the Government of India.
2. Possess seven years or more of professional experience.
3. Have a minimum of two years of professional experience in a significant engineering activity.
4. Be a member of a recognized professional engineering institution or association.
5. Maintain a satisfactory level of Continued Professional Development (CPD).

For more information and details, please visit the following link :

https://www.ieindia.org/webui/IEI_IntPE_Certification.aspx

The eligible candidate can submit application in the prescribed format to:
Deputy Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020
For any query and assistance please send email to: pe@ieindia.org

IEI Celebrates

57th Engineers' Day 2024

Theme : Driving Sustainability with Engineering Solutions Embracing the Latest AI Driven Technologies

The 57th Engineers' Day was celebrated by the Institution all over the country on September 15, 2024 to commemorate the 163rd birth anniversary of legendary Engineer-Statesman Bharat Ratna Sir M Visvesvaraya. Brief accounts of the celebration as received from various Centres are highlighted hereunder.

STATE CENTRES

Andaman & Nicobar



Andaman & Nicobar State Centre observed 57th Engineers Day on 15 September 2024 at Port Blair. Prof. Manoranjan Parida, Director, CSIR-CRRI was the Chief Guest. Shri D

Bhaskar Rao, DDG Telcom was the Guest of Honour. Prof. Chetan Singh Solanki, Founder, Energy Swaraj Foundation was the Keynote Speaker.

Assam

Assam State Centre, IEI, celebrated the 57th Engineers' Day on 15 September



2024 at Guwahati, Er Mahesh Barkataki, Chairman, Assam State Centre, presided over the function and Er Monojit Mishra, Honorary Secretary, Assam State Centre delivered the welcome address. Er Pulak Sarmah,

Past Honorary Secretary, Assam State Centre, outlined the life sketch of Sir M Visvesvaraya.

Gujarat

Gujarat State Centre, IEI, in association with Indian Engineering and Infrastructure Group



(IEIGSC) and the Gujarat Institute of Civil Engineers and Architects (GICEA) jointly celebrated the 57th Engineers' Day on 15 September 2024 at Ahmedabad. Shri Deepak Patel, President, GICEA,

introduced the theme while Keynote speaker Dr Priyanka Sharma, Director, FRIPL Bangalore, and Mr Vivek Ogra, Partner, TC, EY delivered presentation and case studies on the theme. The Chief Guest, Dr Rajul Ben Gujar, Vice Chancellor, GTU, emphasized the importance of AI in education and urged young engineers to embrace new technologies to stay competitive. Honoured guests, including Shri H P Jamdar, Past President, IEI and Shri N K Patel, President, IPPI Delhi, also shared their views on the evolving engineering landscape.

Jharkhand

Jharkhand State Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Ranchi. Chief Guest of the event was Prof (Dr) Indranil



Manna, Vice Chancellor, BIT Mesra and Guest of Honour was Er Neeraj Kumar, Executive Director (Technical), MECON Limited, Ranchi. Prof Manna introduced the august

audience about the recent developments in the field of AI. He also explained about the development of grid around the world for renewable energy sources.

Mizoram



Mizoram State Centre, IEI, celebrated the 57th Engineers' Day in collaboration with the National Institute of Technology Mizoram on 17 September at Aizawl.

The Keynote Speaker of the event was Shri Gyanaranjan Samal, General Manager (Engineering) and Zonal Head, NBCC India Limited. He explained how AI is revolutionizing our journey towards sustainability.

Puducherry



Puducherry State Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Puducherry. Dr G. Ranganath, Immediate Past President, IEI, delivered

a speech on the significance of the Engineers' Day theme, while Dr M Dhinadhayalan, Chief Engineer, PWD, discussed the various developmental schemes underway in Puducherry and their importance to the region.

Rajasthan



Rajasthan State Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Jaipur. Chief Guest and Keynote Speaker of the event, Er V Saravana Kumar, IAS lauded the contributions

of engineers to India's growth and urged young engineers to embrace innovation, sustainability and ethics in their work. Guest of Honour of the event was Er Tara Chand Gupta, Chief Engineer, PWD, Rajasthan Medical Education Society, Jaipur. Shri Rahul Singh, Director, Poornima Group College of Engineering and Er Anshu Sahgal, Director, Technical Education, Rajasthan also shared their insights on the theme. Dr Vibhakar Pathak,

HoD, IT & IQAC, Coordinator, Arya college of Engineering and Information Technology, Jaipur delivered a Keynote speech on the theme.

Tamilnadu



Tamilnadu State Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Chennai. Chief Guests of the event were Dr G Ranganath, the then President, IEI and Sri

Chocko Valliappa, CEO, Vee Technologies Private Limited. Dr G Ranganath spoke on the achievements of Sir M Visvesvaraya. Theme speaker, Shri Chocko Valliappa, spoke on confluence of technologies, importance of quantum computers etc.

Telangana



Telangana State Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Hyderabad. Theme speaker, Dr S Nagabhushana Rao, Past Vice President IEI &

Past Chairman, Andhra Pradesh State Centre, delivered an insightful address on the life and achievements of Sir M Visvesvaraya. A seminar, chaired by Dr A Srinivasula Reddy, Professor & Principal, CMR Engineering College, Hyderabad, featured three technical papers. The main function was graced by Capt N Uttam Kumar Reddy, Hon'ble Minister for Irrigation & CAD and Food & Civil Services, Government of Telangana and Shri Komatireddy Venkat Reddy, Hon'ble Minister for R&B and Cinematography, Government of Telangana as the Special Guests.

LOCAL CENTRES

Aligarh

Aligarh Local Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Aligarh. Chief Guest of the event was Er Mushtaq Ahmad, Former Engineer-in-Chief of the Irrigation & Water Resources Department, UP and Guest of Honor was Er Shiv Kumar Mittal, Director,



Shiva Auto, Aligarh.

Anpara



Anpara Local Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Anpara. The event was graced by Er Santosh Kumar Dubey, Project Head, MIEL, as the Guest of Honor. Er Vivek Shrivastava, C&I

Head, MIEL, was also present on the occasion.

Aurangabad



Aurangabad Local Centre, IEI, celebrated the 57th Engineers' Day on 20 September 2024 at Aurangabad. Shri G Shrikanth, IAS, Municipal Commissioner

& Administrator, Chhatrapati Sambhajnagar, was the Chief Guest and Hon'ble Ankusrao Kadam, Chancellor of MGM University, Chhatrapati Sambhajnagar, served as the Guest of Honor. Dr Sunil Gorantiwar, Former Director of Research and Head, Agriculture Engineering, Mahatma Phule Krishi Vidyapeeth, Ahmednagar was the Keynote speaker.

Belagavi

Belagavi Local Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Belagavi. Invited Speaker of the session, Dr Suhas



Gajanan Sapate, Principal, Dr Bapuji Salunkhe Institute of Engineering and Technology, Kolhapur

deliberated on how AI can be used for achieving the goals set up under SDGs. The event served as a valuable platform for knowledge sharing and collaboration among professionals dedicated to advancing sustainable practices through innovative technological solutions.

Bhilai



Bhilai Local Centre observed 57th Engineers day at Bhilai on 15 September 2024. Shri Bipin Kumar Giri, Executive Director [Mines], SAIL, Bhilai Steel Plant. Shri Yogesh Shastri, Chief

General Manager, Bar and Rod Mill, SAIL, Bhilai Steel Plant was the Guest of Honour. Guest Speaker of the event was Dr Souradyuti Paul, Associate Professor and HoD, Computer Science and Engineering, IIT Bhilai.

Faridabad



Faridabad Local Centre, IEI, celebrated the 57th Engineers' Day during 14 and 15 September, 2024, with a series of technical activities in hybrid mode. The technical session was started on 14 September 2024 through virtual mode.

Eminent speakers of the session were Er Sushil Bajaj, Consulting Design Engineer & Construction Management; Dr Neetu Gupta, Assistant Professor, J C Bose University of Science and Technology, (YMCA); Dr Pratima Mehta, Professor, MRIIRS, Faridabad; Dr Ashish Grover, Associate Professor, MRIIRS, Faridabad; Ms Karthika Krishnakumar, Research Assistant, Electronics and Communication Engineering Department, MRIIRS, Faridabad; Dr Pardeep Kumar, PVC & Dean SET, MRIIRS, Faridabad; Dr Sonam Khera, J C Bose University of Science and Technology, (YMCA); Er Dev Kumar Jaiswal, General manager, Schneider; Dr Sudeshna Chakraborty, Professor, Galgotia's Ust, Noida; and Er Vijay Kardam, Director, VJK CAD Hub, On 15 September 2024, the valedictory session was inaugurated by Chief Guest ,Shri Sanjay Kumar Singh, Director, Projects, NHPC Ltd, and Patron-In-Chief Prof (Dr) Sushil Kumar Tomar, Vice Chancellor, J C Bose University.

Ghaziabad



Ghaziabad Local Centre, IEI, celebrated the 57th Engineers' Day, in association with Raj Kumar Goel Institute of Technology (RKGIT) Ghaziabad on 17

Contd. on page 21

IEI Celebrates

Royal Charter Day

The Institution of Engineers (India) was incorporated by Royal Charter on September 9, 1935 by King and Emperor George V at the Court at Buckingham Palace, London and remains the only professional body in India to be accorded this Honour. This endowed the Corporate Members of the Institution with the right to use the title 'Chartered Engineer' after their names, implying that they are qualified engineers deemed worthy to hold a Charter. The 'Royal Charter Day' was celebrated by IEI all over the country on September 9, 2024. Brief accounts of celebration, as received from various Centres, are reported hereunder.

STATE CENTRES

Andaman & Nicobar



Andaman and Nicobar State Centre observed Royal Charter Day on 27 September 2024 at Port Blair. Their Keynote Address was delivered by Er Bandi Sreenihar, IDSE, Garrison Engineers, Minnibay, Vijaya

Puram. His address provided valuable insight into the engineering profession and its impact on society, emphasizing the importance of innovation and collaboration in engineering practices.

Goa



Goa State Centre, IEI, celebrated Royal Charter Day 2024 on 10 Sept 2024 at Panaji. Er Anwar Isaac Khan, Chairman, Goa State Centre, IEI commemorated the Royal Charter granted in 1935 and celebrated

IEI-GSC's 50-year journey. Er Khan highlighted IEI-GSC's contributions to engineering excellence and sustainable practices. The event concluded with a vote of thanks by Er Siddhant Shravan Dubhashi, Honorary Secretary, Goa State Centre.

Uttarakhand

Uttarakhand State Centre, IEI, in collaboration with Shree Cement Private



Limited, celebrated Royal Charter Day on 09 Sept 2024 at Dehradun, which witnessed the participation of 184 engineers and engineering students from various institutes. Shri Narendra Pal Singh,

Managing Director, BRIDCUL, graced the occasion as the Chief Guest. Shri Vijay Kumar Sharma from Shree Cement Limited and Er D K Sharma, Chief Engineer, Ministry of Road, Transport & Highways, Uttarakhand were the Guests of Honour.

LOCAL CENTRES

Anantapuram

Anantapuram Local Centre, IEI, celebrated Royal Charter Day 2024 on 09 Sept 2024 via online mode. The Keynote speaker, Prof C Sashidhar, Civil Engineering Department, JNTUA College of Engineering, Anantapuram, spoke on infrastructure development in rural and urban India, irrigation and engineering education in India.

Bareilly



Bareilly Local Centre, IEI, celebrated Royal Charter Day 2024 on 09 Sept 2024 at Bareilly. The celebration began with the lighting of the lamp and a welcome address by Er Raj Goel, Chairman, Bareilly Local Centre [Session 2022-24]. Distinguished engineers and dignitaries highlighted the Institution's contributions to the engineering profession. A technical session on sustainable engineering emphasized innovation and responsibility in addressing challenges like climate change. Er P K Madhwar, Honorary Secretary, Bareilly Local Centre, IEI [Session 2022-24] delivered the vote of thanks.

Jamshedpur

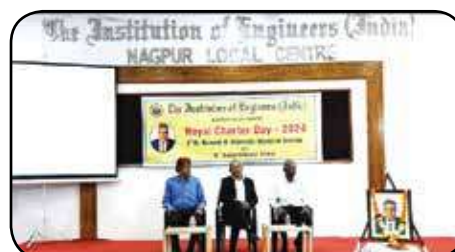
Jamshedpur Local Centre, IEI, celebrated Royal Charter Day 2024 on 09 Sept 2024 through online platform. A webinar was organised on the topic "Sustainable Development in Industrial Engineering- A Case Study of 'C' Blast Furnace Gimbal Charging". Speaker of the session was Er T Thirumurugan, Principal Technologist, Tata Steel Limited. The webinar discussed improvements in furnace operation using Root Cause Failure Analysis.

Jodhpur



Jodhpur Local Centre, IEI, celebrated Royal Charter Day 2024 on 09 Sept 2024 at Jodhpur. A seminar was organised on the topic 'Engineers are Dream Builders'. Speaker of the event, Dr Amit Kumar Rathi, Assistant Professor, Department of Civil and Infrastructure Engineering, Indian Institute of Technology Jodhpur emphasized the vital role of engineers in nation-building, particularly in infrastructure, economic development, and socio-economic progress.

Nagpur



Crisis of Nagpur'.

Nagpur Local Centre, IEI, celebrated Royal Charter Day on 09 Sept 2024 at Nagpur. Chief Guest, Dr Sandeep Shirkhedkar, Director, ImaGIS Engineering Solutions Private Limited delivered a presentation on 'Managing Flood and Water

Palghat



Palghat Local Centre, IEI, celebrated Royal Charter Day 2024 on 09 Sept 2024 at Palakkad. Dr V Balakrishna Panicker, Former Principal, NSS College of Engineering, was the Guest Speaker.

Pune



Pune Local Centre, IEI, celebrated Royal Charter Day 2024 on 11 Sept 2024 at Pune. Guest Speaker, Prof (Dr) Girish Shrikisan Mundada, Chairman, CATE [Session 2023-24] and Council Member, IEI delivered an insightful presentation on Royal Charter, PE Certification and the Engineers Bill.

IEI Celebrates

57th Engineers' Day 2024

Contd. from page 19

September 2024 in the RKGIT Auditorium. The event was graced by Dr H B Srivastava, Professor of Practice, IIT Delhi and former distinguished Scientist & DG, DRDO, as the Chief Guest and Er Ruben Sagar, Deputy Chief Engineer, NCRTC, as the Guest of Honor.

Jammu



Jammu Local Centre, IEI, celebrated the 57th Engineers' Day on 15 September 2024 at Jammu. The event was graced by the Chief Guest, Er Sandeep Gupta, IRSE, Chief

Administrative Officer, Northern Railway USBRL Project, J&K and Guest of Honour, Er Bimal Kumar Tickoo, Former Secretary (Technical) cum Development Commissioner (Works), PWD(R&B) J&K Government.

Kochi



Kochi Local Centre, IEI, celebrated the 57th Engineers' Day on 8 September 2024. Er A C K Nair, Kerala Electricity Ombudsman graced the event as the Chief Guest

and delivered the Keynote address, that focused on the integration of AI technologies in the aviation industry, such as air traffic management, airport operations, pricing strategies and development of sustainable aviation fuel.

Navi Mumbai



Navi Mumbai Local Centre, IEI, in collaboration with Fr C Rodrigues Institute of Technology (FCRIT), Vashi, jointly celebrated the 57th Engineers' Day on 18 September 2024 at Belapur. Chief Guest, Er R K Jha, Former Chief Transportation

& Communication Planner (CTCP), CIDCO, Navi Mumbai and Former Executive Director, MSRDC Maharashtra, shared his key contributions to Navi Mumbai's structural development.

Neyveli

Neyveli Local Centre, IEI, celebrated the 57th Engineers' Day on 9 October 2024 at Neyveli. The welcome address was delivered by Er M



Venkatachalam, Chairman, Neyveli Local Centre and Director Power, NLCIL. Er Prasanna Kumar Motupalli, Chairman & Managing Director (CMD), NLC India Limited (NLCIL), graced

the function as the Chief Guest. Notable dignitaries were present on the occasion, namely; Dr Suresh Chandra Suman, Director, Mines and Director P&P Additional Charge, Dr Prasanna Kumar Acharya, Director, Finance, NLCIL and Thiru Appakannu Govindarajan, Chief Vigilance Officer, NLCIL

Tiruchirappalli



Tiruchirappalli Local Centre, IEI celebrated the 57th Engineers' Day on 26th September 2024 at Tiruchirappalli. Dr R Mathrubootham, Member

of the Governing Council, Saranathan College of Engineering, served as the Chief Guest, emphasizing the critical role of engineers in various environmental aspects.

Vallabh Vidyanagar



Vallabh Vidyanagar Local Centre, IEI celebrated the 57th Engineers' Day on 23 September 2024 at Vallabh Vidyanagar. Dr Vishal N Singh, Principal, A D Patel

Institute of Technology, CVM University was the Chief Guest and Keynote speaker. The event was coordinated by the Executive Committee Members of the Vallabh Vidyanagar Local Centre and it successfully brought together experts and participants to discuss the pivotal role of AI in engineering for a sustainable future.

Warangal



Warangal Local Centre, IEI, celebrated the 57th Engineers' Day at Christu Jyothi Institute of Technology & Science (CJITS), Jangaon, Telangana, on 20 September 2024. Prof C S R

K Prasad, Professor (HAG), Department of Civil Engineering, NIT Warangal was the Chief Guest and delivered an Expert Lecture on the theme.

IEI DIARY



Aerospace Engineering Division

Thirty-seventh National Convention of Aerospace Engineers on **"Advances in Innovation in Aerospace Engineers"**

Ranchi, January 18-19, 2024

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]

Architectural Engineering Division

All India Seminar on **"Trends In Advanced Building Construction And Innovative Building Materials"**

Rourkela, March 01-02, 2025

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

Chemical Engineering Division

One Day Workshop on **"Innovative Small Scale Startup on Petroleum Processing and Petro Chemicals"**

Bhubaneswar, January 25, 2024

The Honorary Secretary, IEI, Odisha State Centre, Engineers Bhawan, Institution of Engineers Square, Sachivalaya Marg, Unit-4, Bhubaneswar 751001, [☎: 0674-2390291, E-mail: odishasc@ieindia.org, Website: www.ieiorissa.org]

Civil Engineering Division

One Day Workshop on **"Utilisation of Construction Demolition and Industrial Waste in Construction Industry"**

Neyveli, February 15, 2025

The Honorary Secretary, IEI, Neyveli Local Centre, Block 17, Neyveli 607801, Dist Cuddalore, Tamilnadu [☎: 04142-210510; E-mail: neyvelilc @ieindia.org, Website: www.ieineyveli.org]

Computer Engineering Division

All India Seminar on **"Innovations and Research in Artificial Intelligence & Machine Learning"**

Ranchi, January 11-12, 2024

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]

Two Day International Conference in **"Application of AI & Machine Learning ICAML2025"**

Chandigarh, February 22-23, 2024

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, Website: www.ieichd.org]

Electrical Engineering Division

One Day Seminar on **"Harnessing Solar Energy for Sustainable Marine Development Aligning with SDG 14"**

Chennai, January 24, 2025

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai

600005 [☎: 044-25360614 /9962950333, E-mail: tnsc@ieindia.org, Website : www.ieitnsc.org]

All India Workshop on **"Artificial Intelligence and Machine Learning Applications in Electrical Engineering"**

Tuticorin, February 07, 2025

The Honorary Secretary, IEI, Tuticorin Local Centre, Plot No.13&14, Daniel Nagar, Korampallam, Tuticorin 628101 [Mobile: 9443471599, Email: tuticorinlc@ieindia.org]

Environmental Engineering Division

All India Seminar on **"The Global and Local Dimensions of Climate Change Mitigation and Adaptation in Practice"**

Coimbatore, January 23-24, 2025

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641 004 [☎: 0422- 2580733; Email: coimbatorelc@ieindia.org; Website: https://www.ieicoimbatore.org]

All India Seminar on **"EEHVACR"**

Ranchi, February 08-09, 2025

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]

Mechanical Engineering Division

All India Seminar on **"AI Driven Digital Twins in Mechanical and Thermal Engineering Systems"**

Hyderabad, Jan 31-Feb 01, 2025

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

All India Workshop on **"Opportunities and Challenges in AI and ML for Manufacturing"**, Bhimavaram, March 10-11, 2025

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

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]

Forty-second National Convention of Mechanical Engineers on **"AI and ML: Bridging Innovation & Shaping Tomorrow's Industries"**

Belapur, September 17-18, 2027

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]

Metallurgical & Materials Engineering Division

One Day Seminar on **"Metallurgical Waste in Current Scenario"**

Rourkela, January 18, 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 **"Smart Materials and AI The Winning Combination for Future"**

Hosur, January 30-31, 2025

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

One Day Seminar on **"Innovations in Material Science Exploring New Generation Composites Smart Materials and E-Waste Recycling"**

Durgapur, February 15, 2024

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

Mining Engineering Division

One Day Seminar on **"Slop Stability of Particulate Dump Yard and Industrial Focus of Interest"**

Rourkela, January 11, 2025

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

Production Engineering Division

All India Seminar on **"Digital Manufacturing"**

Chennai, February 21-22, 2025

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

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

Madurai, May 23-24, 2025

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

Textile Engineering Division

All India Seminar on **"Innovative Techniques in Dyeing, Printing and Finishing in Garment Technology"**

Thiruvananthapuram, January 21-22, 2025

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



IEI - Springer Journal



ISSN Print: 2250-2122
ISSN Online: 2250-2130

SCOPUS Indexed

Series D

CiteScore 2023
2.0

Google Scholar h5 Index 2022
19



ISSN Print: 2250-2149
ISSN Online: 2250-2157

SCOPUS Indexed

Series A

CiteScore 2023

2.2

Google Scholar h5 Index 2022

22



ISSN Print: 2250-2106
ISSN Online: 2250-2114

SCOPUS Indexed

Series B

CiteScore 2023

3.1

Google Scholar h5 Index 2022

24



ISSN Print: 2250-0545
ISSN Online: 2250-0553

SCOPUS Indexed

Series C

CiteScore 2023

2.4

Google Scholar h5 Index 2022

24



ISSN Print: 2250-2483
ISSN Online: 2250-2491

SCOPUS Indexed

Series E

CiteScore 2023

2.0

Google Scholar h5 Index 2022

11

Free e-access of Journal
papers for all Corporate
Members of IEI log-in from
www.ieindia.org

UGC-CARE
(India) listed



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 2024-2025 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(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 ₹20,000/- 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 or valid NIRF Rank	Not exceeding ₹50,000/- for a single project
3. PG (ME/MTech/Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank	Not exceeding ₹1,00,000/- for a single project
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank	Not exceeding ₹1,50,000/- for a single project

The soft copy of the duly filled-up applications (in editable format), as per the pro-forma available in our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same should reach the following address:

Deputy Director (Technical)

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

Applications received in format other than that available on our website will not be accepted. Application should be forwarded through the Guide, Head of the Department or Head of the Institution. Please note that preference will be given to project proposals received from Institutions who are members of The Institution of Engineers (India) and with NBA / NAAC Accreditation or valid NIRF Rank. Kindly go through the guidelines (visit link <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) carefully before filling up the application.

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

Corporate Air Ticketing for IEI Members

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

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

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 in 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.

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

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

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

Certificate of Practice for Practicing Chartered Engineers

The Corporate Members of the Institution having **Chartered Engineer Certificate in the current grade of Membership with five years of experience** as an Engineer in the relevant field can apply for **Practicing Chartered Engineers Certification**. The Institution will issue **Practicing Registration No.** for practicing Chartered Engineers, which is valid for **five years**.

The application fee for empanelment is, Rs.5900/- (GST included), which may be paid through Demand Draft/ Multi-city Cheque in favour of "The Institution of Engineers (India)" payable at Kolkata.

The hard copy of application form duly filled in alongwith supporting documents should reach to:-

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

Please visit : <https://www.ieindia.org/webui/IEI-RegistrationForPPCE.aspx> for more details.

Superannuation from IEI



Mr Amar Nath Singh, an employee of the Dhanbad Local Centre of the Institution superannuated from the services of IEI on 31 December 2024. He joined the Institution on 20 September 2017 and rendered his services to the Institution over a period of 7 years.

IEI wishes Amar Nath Singh and his family a happy and healthy life in the future.

I.E.I NEWS

ISSN 0971-3352

Owner : The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020
 Printer : Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General
 Publisher : Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General
 Published from : 8 Gokhale Road, Kolkata 700 020
 Printed from : M/s Florence Offset Process Pvt. Ltd.
 6A S N Banerjee Road, Kolkata 700013
 Editor : Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General

President : Er VB Singh

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

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

The Institution of Engineers (India) as a body accepts no responsibility for the statements made by individuals. Reprints of any portion of the publication may be made provided reference thereto is quoted.

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