

Volume 30

Council Elects New President of IEI

Dr G Ranganath, FIE has been elected as the President of The Institution of Engineers (India) for the session 2023-24 during the 723rd Council Meeting of The Institution held on 24 September, 2023 at Guwahati.



Dr G Ranganath completed his Doctorate in the area of Material Science from Mangalore University, M.E. in Machine Design from Bangalore University, and a Bachelor's degree in Mechanical Engineering from Mysore University.

He started his career as a Vice Principal of Adhiyaman College of Engineering, Hosur in 1991, and after promotion, he has been serving as the Principal since 2008. He is having 36 years of academic experience.

Contd. on page 4

E20 Summit and International Conference **Towards Net Zero in the** Industrial Sector in G20



E20 Summit; 24 August 2023

The Institution of Engineers (India) hosted the E20 Summit on 24 August 2023 at the Engineering Staff College of India (ESCI) campus in Hyderabad. The Summit was attended by distinguished delegates from several G20 nations, including Indonesia, Oman, Mauritius, and Japan, along with representatives from India.

During the E20 Summit, several key developments and action points were unanimously agreed upon, including the initiation of the E20 Discussion Group by Indonesia, which has successfully

From the President's Desk.....

In an increasingly dynamic and unpredictable world, the concept of resilient urban economies has become paramount. These economies epitomize the adaptability of cities and metropolitan areas to not only weather economic shocks but also to recover and thrive while maintaining sustainable growth and development.



Such shocks and challenges encompass a wide spectrum, ranging from natural disasters and economic downturns to pandemics, technological disruptions, and other unforeseen events. Building resilient urban economies is essential for ensuring the well-being and prosperity of urban populations. Building resilient urban economies is an ongoing process that requires proactive planning, investment, and collaboration among various stakeholders. By implementing these strategies and fostering adaptability, cities can better withstand economic shocks and continue to flourish in an ever-changing world. These economies prioritize diversification across industries, foster innovation and technological readiness, support small and medium - sized business, invest in workforce development and robust infrastructure, implement risk management and sustainable practices, and engage their communities in decision- making process.

In 2023, we are celebrating World Habitat Day under the theme 'Resilient Urban Economies: Cities as Drivers of Growth and Recovery. This theme provides a unique opportunity to emphasize the critical role that cities play in economic development, especially in the face of global challenges. This theme underscores the importance of building urban environments that are both robust and sustainable. Cities are undeniably the engines of economic growth and recovery. Cities concentrate human capital, foster innovation, and offer a fertile ground for entrepreneurship. By investing in urban infrastructure, affordable housing, and quality education, cities may be empowered to drive economic growth and provide opportunities for their residents. Resilience in urban economies is crucial, particularly in times of crisis. The COVID-19 pandemic starkly illustrated the vulnerability of urban centres, but it also highlighted their adaptability and innovative capacity. Cities with diversified economies, strong social safety nets, and effective governance structures proved better equipped to weather the storm and bounce back swiftly. World Habitat Day 2023 is an occasion to stress the importance of resilience-building efforts in cities. Moreover, this theme

Contd. on page 3

Contd. on page 2

Towards Net Zero in the Industrial Sector in G20

Contd. from page 1

attracted participation from Australia, Canada, Japan, Indonesia, India, South Africa, South Korea, the United Kingdom, and the USA, with a commitment to expand its membership to include the remaining 11 G20 countries. It was also decided that Indonesia, India, and Brazil would collaborate as a TROIKA to lead efforts in securing formal recognition for E20 as an official engagement group. Members have pledged to hold regular monthly virtual meetings to implement established decisions and advance the E20 agenda. India's comprehensive Concept Note for the E20 engagement group was discussed and unanimously accepted during the meeting. Finally, it was decided that the proposal, as outlined in the Concept Note, will be formally submitted to SHERPA, G20 Secretariat, for their consideration regarding the E20's official recognition as an engagement group.

In light of these significant developments and the consensus reached during the E20 Summit, the E20 Concept Note was submitted to the G20 Secretariat as well as to the office of the Governor of Telangana with a request to support our endeavor to include "Engineering 20" as an official Engagement Group under G20.

International Conference on 'Towards Net Zero in the Industrial Sector in G20'; 25-26 August 2023

The two-day International Conference, held from August 25th to 26th, 2023, at ESCI Hyderabad, addressed pressing global challenges, including climate change, energy transition, water scarcity, food insecurity, urbanization, and digital transformation. These challenges necessitate global collaboration and innovative solutions to mitigate their adverse effects.

The primary objective of the Conference was to develop practical and sustainable solutions benefiting all stakeholders. It aimed to foster collaboration among government organizations, industries, academia, and other stakeholders to leverage their collective expertise and resources for the betterment of humanity.

The event was graced by the President, IEI, Vice President, IEI, Council Members and other dignitaries. Approximately 150 delegates from seven countries participated in the Conference, representing various organizations

across India, including Coal India Ltd., State Governments, national-level organizations, IITs, NITs, and Public Sector Units.

Key discussions during the Conference centered around strategies for reducing carbon emissions in the industrial sector, encompassing comprehensive approaches, low-carbon energy utilization, educational initiatives, public engagement, and global cooperation.

The inauguration ceremony, presided over by Dr Tamilisai Sounderarajan, the Hon'ble Governor of Telangana State, emphasized individual responsibility in achieving net-zero goals. Er Shivanand Roy, President of IEI, urged the Governor to recommend the integration of Conference outcomes into the G20 agenda.

The Conference featured six technical sessions covering topics such as sustainable urban development, low-carbon and net-zero buildings, corporate sector net-zero target setting, decarbonization in the transport sector, practices in the oil and gas sector, and achieving net-zero emissions in industry and building sectors. Eminent experts chaired these sessions, fostering interactive exchanges and insightful dialogues.

The second day focused on specific sectors like cement and iron and steel, information and communication technology, and included a panel discussion on industrial sector decarbonization.

The closing ceremony was honored by the presence of Shri M Jagdiwar, Retired IAS, and former Managing Director of HMWSS, as the Chief Guest, and Padma Shri Dr. Tripuraneni Hanuman Chowdary, as the Special Guest. Both distinguished guests lauded The Institution of Engineers (India) for addressing a timely and critical subject. Their remarks were filled with encouragement for future initiatives aimed at realizing net-zero goals for a cleaner and sustainable planet.

The event concluded with gratitude expressed to all participants, supporters, and sponsors, including, Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB), NCC Ltd, Visakha Pharmacity Limited, Kirby Piping Systems Ltd, Telangana Retired Engineers Association, Olectra Green Tech Ltd., Coal India, and The Singareni Collieries Company Limited.

All India Workshop under the aegis of Mechanical Engineering Division Board

Parametric Design using Fusion 360

Kanchepuram Local Centre, IEI organized an All India Workshop on the theme **Parametric Design using Fusion 360** in collaboration with the Department of Mechanical Engineering, Saveetha Engineering College (SEC) on 23-24 March 2023 under the aegis of Mechanical Engineering Division Board [MCDB], IEI, which was attended by professionals from all works of life.



The Chief Guest of the function, Mr Rajeev Shalia, Senior Vice President & Head - R&D Centre, Schwing Stetter India, Chennai, delivered a Keynote lecture on the topic 'Latest Trends in Mechanical Engineering – R&D'. Mr Vaisakh H N, Methods Engineer, Lucas TVS Limited, Chennai, delivered lercture on 'Gateway to Innovation 10X: Design Thinking'. Mr S Sridhar, Assistant Professor, AI&DS Department, Saveetha Engineering College, Chennai, spoke on Solid Modeling in Fusion 360.

A lecture on 'New Product Development in Automotive Components' was delivered by Mr K Praveen, Senior Quantity Engineer, Reutter Innovative Closure Technologies Private Limited, Chennai. Dr Venkateshwaran N, Professor, Mechanical Engineering Department, Rajalakshmi Engineering College, Chennai delivered lecture on the topic 'Design Innovation using Simulation Tools'. Dr Vignesh S, Assistant Professor, Al&DS Department, Saveetha Engineering College, Chennai articulated on Assembly and Export Module in Fusion 360. Dr S Sellakumar, Assistant Professor, Al&DS Department, Saveetha Engineering College, Chennai, delivered a pragmatic talk on 'Generative Design and Simulation Nodule in Fusion 360'. Dr V Muthukumar, Professor, Mechanical Engineering Department, Saveetha Engineering College, Chennai, delivered nation Nodule in Fusion 360'. Dr V Muthukumar, Professor, Mechanical Engineering Department, Saveetha Engineering College, Chennai, delivered lecture on 'Manufacturing Module in Fusion 360 and Case Studies'.

Dr N Balaji, Professor & Head, Mechanical Engineering Department, SEC was present on the occasion and shared his expertise with the participants. Dr R Senthilkumar, Vice-Principal, SEC, Dr N Duraipandian, Principal of Saveetha Engineering College, spoke on the occasion. Dr D Elango, Chairman, Kanchepuram Local Centre, IEI delivered the valedictory address. Dr V Muthukumar, Executive Committee Member of Kanchepuram Local Centre, IEI, Organizing Secretary, and Professor of Mechanical Engineering at Saveetha Engineering College, delivered the vote of thanks.

2

Sailing towards a Circular Economy: Imperatives and Opportunities in Public Words, Engineering, Hydropower and Maritime Sector

The marine sector transports more than 90% of the global trade. All industrial sectors, including mining, processing, electronics, communications, forestry & agriculture, fisheries, machinery & equipment, chemical, manufacturing and construction industries, play a vital role in the technical aspects of circular economy practices within the maritime sector. The circular economy is essential for minimizing waste, and increasing the revenue stream. Inventory management has always been a significant challenge for Industries. The costs of procurement, storage, maintenance, and inventory accounting significantly contribute to the overall expenses. The circular economy plays a crucial role in, sharing, renting, recycling, and reusing products. It is essential for addressing future resource scarcity and preventing environmental damage. The innovative use of materials is continually evolving to align with modern technological advancements at a reduced cost. The life cycle management of recovery, reuse, and recycling of residue materials at different life stages is required to be visualized at the design stage itself. The circular economy encompasses anticipating the product life cycle, sustainable use of natural resources, holistic planning, process design, architectural design, structural engineering, material development and product design. Industries need to focus on waste reduction and minimizing losses while capitalizing on opportunities for the production of by-products. Technology plays a crucial role in enhancing productivity. Harnessing Artificial Intelligence (AI), Virtual, Augmented and mixed reality will help in maximize the value of economic activities in the maritime sector. The circular economy is essential to minimize waste, and increase the revenue stream.



Himachal Pradesh State Centre, IEI organized an All India Seminar on the theme **Sailing towards a Circular Economy: Imperatives and Opportunities in public words, Engineering, Hydropower and Maritime Sector** in collaboration with the Institute of Marine Engineers (India); Institution of Innovation- Industrial Engineering Entrepreneurship, Mumbai; UNI Institute of Technology HP and HP University Model Senior Secondary School, Summer Hill in Shimla during 06-07 June 2023 under the aegis of Marine Engineering Division Board [MRDB], IEI. The event was attended by about 126 professionals, including dignitaries, engineers and students from various departments throughout the state and other parts of the country. The objective of the seminar was to raise awareness about the benefits of the circular economy and promote entrepreneurship in the fields of public works, engineering, hydro power and maritime sectors.

Shri Sanjay Kundu, IPS, Director General of Police, HP graced the occasion as the Chief Guest and articulated the importance of public works, engineering, hydro power, and maritime industries, which play a crucial role in shaping our nation's development and are intricately linked to the well-being of our society and the environment. He mentioned that by embracing the principles of a circular economy, we can unleash a multitude of opportunities for innovation, efficiency, and sustainable practices in these sectors. Prof Dr P L Sharma, Professor & Chairman, Department of Mathematics & Director, University Institute of Technology (UIT), Himachal Pradesh University ; Er Vijendra Kumar Jain, President, Institute of Marine Engineers (India), IMEI and Cdr Dr Bhaskar M Bhandarkar, Chairman, Marine Engineering Division Board, IEI were the Guests of Honour. In his address, Prof Dr P L Sharma enunciated that a circular economy aims to minimize waste, maximize resource utilization, and create a closed-loop system where resources are continually cycled back into the production process. Capt Sanjay Prashar, Founder and MD of VR Maritime Services, discussed rewarding career opportunities in Merchant Navy and motivated the engineering students to consider Maritime sector as career path. He emphasized the need to work together for sailing towards a circular economy which is the key for a sustainable and prosperous future. In his lecture, Er Sanjeev Mehra, MD, Kenmark Tech, Mumbai, encouraged the adoption of renewable energy sources, increased use of eco-friendly materials, and the implementation of efficient waste management systems. Er Arun Agarwal, Chairman, IMEI, Chandigarh stated that by adopting eco-friendly practices, we not only reduce our carbon footprint but also create a platform for economic growth and job creation. Cdr Bhandarkar, Chairman, Marine Engineering Division Board, IEI thanked the IEI, HP State Centre for organising this significant All India Seminar. He expressed that as the nation embarks on this journey towards a circular economy, one must acknowledge the challenges that lie ahead. Limited awareness, inadequate infrastructure, and policy gaps can hinder the transition. He further deliberated that this seminar provides us with an opportunity to address these challenges, exchange knowledge, and identify collaborative solutions that can drive us towards a sustainable and prosperous future. Dr Labh Singh Bhari, Chairman, Punjab & Chandigarh State Centre, IEI was present on the occasion and delivered a lecture on the topic 'Marine Collaboration for Sustainable Development'. Dr Raju B Mankar, Director, LIT Nagpur and Ex-Vice Chancellor, DBATU, Lonere delivered his presentation on the topic 'Enhancing the Solar Energy Harnessing Efficiency using Nanofluids'.

Earlier, Er Vishwa Mohan Joshi, Chairman, The Institution of Engineers (India), HP State Centre, IEI welcomed all the distinguished guests/ participants and expressed heartfelt gratitude to the Chief Guest for gracing the occasion and for serving as a guiding force for the entire industry. He explained that the seminar's theme is not only timely but also of utmost importance in today's rapidly changing world. He discussed the challenges posed by environmental degradation and resource scarcity. Er Jaswant Singh, Honorary Secretary, Himachal Pradesh State Centre, IEI proposed the vote of thanks.

During the technical session, technical papers were presented on various topics, including Employment and Entrepreneurship Opportunities in the Maritime Sector. Technological Advancement in Repairs and Retrofitting of Marine equipments, Promoting Circular Economy in Shipping Industry, Entrepreneurship Development : A innovative Case Study in Net Zero, etc.

During the valedictory function, Er Pankaj Dadwal, Chairman-BOG, National Skill Development Forum, IEI was the Chief Guest. Er Sanjeev Mehra, Dr Raju B Mankar, Cdr Dr Bhaskar M Bhandarkar, Er Vishwa Mohan Joshi and Er Jaswant Singh were present on the dais.

From the **President's Desk.....**

Contd. from page 1

invites us to focus on inclusivity. Resilient urban economies must ensure that the benefits of growth and recovery are accessible to all residents, regardless of their socio-economic background. Addressing issues such as affordable housing, job creation, and social services can contribute to more inclusive urban development, reducing inequalities and promoting social cohesion. In conclusion, World Habitat Day 2023 serves as a platform to recognize cities as vital contributors to global economic growth and recovery. By fostering resilient urban economies that prioritize inclusivity, sustainability, and innovation, we can build a better future for all, where cities are not only drivers of growth but also beacons of hope and prosperity for their diverse populations. This day serves as a poignant reminder of our shared responsibility to invest in the well-being of our cities, ensuring their continued prosperity and their capacity to catalyze positive change across the globe.

I earnestly urge all the State/Local Centres, Foras, and Overseas Chapters of our esteemed institution to join hands in observing World Habitat Day 2023 in a befitting manner. Let us come together to celebrate the resilience and strive to enhance their vibrancy, sustainability, and inclusivity. Together, we can forge a brighter future for our urban environments and their residents.

Role of Artificial Intelligence in Technological Advancements in Industry

Telangana State Centre, IEI organized an All India Seminar on the theme Role of Artificial Intelligence in Technological Advancements in Industry in Hyderabad during 06-07 January, 2023 under the aegis of Interdisciplinary Coordination Committee, IEI in association with Maturi Venkata Subba Rao



Engineering College, Nadergul, Hyderabad. The objective of the seminar was to explore the contribution of Artificial Intelligence (AI) to the technological advancement of the industry. Shri Burra Venkatesham, IAS, Principal

Secretary, Backward Classes Welfare Department, Government of Telangana graced the function as the Chief Guest and explained how various fields of AI are going to be prominent in the future. The Distinguished Guest on the occasion, Shri Surendra Tipparaju, Senior Director, Data & AI, Microsoft, Hyderabad, focussed the future use of AI in various industrial sectors and briefed the audience about the new emerging technologies in the IT field. The Guests of Honour, Shri Mahesh Bigala, Director, IIBIT Education Group, Australia briefed the gathering about the importance of AI in future world and Dr K P Srinivas Rao, Chairman, Matrusri Education Society, Hyderabad, described the problems faced by future generations due to the impact of AI in humans life in future. Er B Brahma Reddy, Chairman, IEI, Telangana State Centre delivered the welcome address to the esteemed audience and presided over the function. Shri KVRK Subrahmanyam, Convener of the event, provided an overview of the seminar's theme. Dr G Venkata Subbaiah, Honorary Secretary, Telangana State Centre, IEI proposed the vote of thanks.

During the technical sessions, invited lectures were presented on the

Contd. from page 5

Council Elects New President of IEI

Contd. from page 1

Dr G Ranganath's area of interest lies in Machine design and material science and he has more than 70 Research publications and 10 books on Engineering and Technology. He has guided 9 research scholars, all of whom have been awarded Ph.D.

Professional Organization

- Dr G Ranganath works enthusiastically for national professional organizations and he is a life member of various organizations such as Fellow of The Institution of Engineers (India), Indian Society for Technical Education, Computer Society of India, Hosur Industries Association, etc.
- Over seven years, he played a significant role in establishing the ISTE Best Chapter Award (2004-10) under his Chairmanship.
- He served as the National Vice-President of the Indian Society for Technical Education, New Delhi, from 2012 to 2014.
- He served as the Chairman of the Salem local center, IEI, for the sessions 2012-14.
- He played a key role in establishing Hosur Local Centre in the year 2015 and was the Founder Chairman -HLC-IE(I).
- He took a keen interest, mobilized funds, procured a vacant site within a short period, and started constructing IE(I)'s own building for Hosur Local Centre.
- He was the Chairman of Tamil Nadu State Centre, IEI for the sessions 2016-18.
- He is serving in IEI Council from 2016 till date. In IEI Council he served as the Chairman of CATE for the years 2019, 2022 & 2023.
- With his extensive association with IEI & ISTE, he, as a multifaceted personality, has exerted total dedication and successfully represented the interests of the two professional bodies.

Indian Engineering Congress

• He was the Chairman of the 32nd Indian Engineering Congress in 2017, the Honourable President of India, and a few Ministers from the State, and

a couple of VVIPs attended the engineering congress as Chief Guest and Guests respectively.

 He played a vital role in the accommodation committee in the 37th Indian Engineering Congress 2022.

State-Level Universities

- Dr G Ranganath, served as a Syndicate Member at Anna University, Chennai, Tamil Nadu.
- He served 6 years as a Senate Member, and as an elected Syndicate member, his Excellency Governor of Tamil Nadu was nominated as a Planning Board Member at Periyar University, Salem.

Institution-Adhiyamaan College of Engineering (Autonomous), Hosur

- He administered as Chairman of the Academic Council, Member of Governing Council, and Chairman of the Board of Studies, of the Department of Mechanical Engineering for the past two decades.
- As Principal, He leads more than 4500 students in the college, and more than 2000 students in the hostel as Chief warden.
- As a Leader, he facilitates good life for around 350 faculty members and 650 other employees in the institution for the past three decades without any disputes.
- He is responsible and accountable for nearly 30 to 35 crore of turnover per year in the institution.

A Glimpse of his Achievements

- Six times ISTE Best Chapter Chairman Award: 2012, 2009, 2008, 2006, 2005 and 2004.
- Nine Times Best ISTE Best Chapter Award under his chairmanship: 2004 to 2012.
- Best Vocation Service award for the year 2006 by JCI Club.

He has visited various countries including Canada, Japan, Argentina, the United States of America, Dubai, China, Qatar, Indonesia, and Sri Lanka to disseminate his knowledge treasure.

Recent Trends and Challenges in 3D Printing

Kanchepuram Local Centre, IEI, organized an All India Seminar on the theme Recent Trends and Challenges in 3D Printing in collaboration with the Department of Mechanical Engineering, Saveetha Engineering College (SEC), Chennai during 25-26 May 2023 under the aegis of Production Engineering Division Board [PRDB], IEI. The Seminar was attended by a number of dignitaries, engineers and students across the state and other parts of the country. The objective of the seminar was to provide an



overview the benefits of the recent trends and challenges in 3D Printing. Capt. Dr A Suresh Babu, Professor and Head, Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai graced the function as the Chief Guest and enlightened the audience regarding the progress in additive manufacturing. Dr V Vijaya Chamundeeswari, Dean, Saveetha Engineering College delivered the Special address. Dr N Balaji, Professor and Head, Mechanical Engineering Department, Saveetha Engineering College, Chennai and Dr N Duraipandian, Principal, Saveetha Engineering College were also present on the occasion and addressed the audience. Dr D Elango, Chairman, Kanchepuram Local Centre, IEI and Council Member, IEI, welcomed all and presided over the function.

During the technical sessions, eminent speakers shared their expertise with the participants. Dr Vimal Samsingh, Associate Professor, Mechanical

Engineering Department, SSN College of Engineering, Chennai, delivered a lecture on the topic 'Additive Manufacturing for Smart Wearables and Electronic Components'. Dr P Sevvel, Professor, Mechanical Engineering Department, S A Engineering College, Chennai presented on the topic 'Recent Trends and Research Scopes in SLM'. Dr S Praveen Kumar, Professor, Electronics and Communication Engineering Department, Saveetha Engineering College, Chennai delivered a lecture on the topic '3D Printing Technology for Biomedical Applications'. Dr P Sabarinathan, Assistant Professor, Department of Biochemistry, Centre of Molecular Medicine and Diagnostics (COMManD), Saveetha Dental College and Hospitals, Chennai spoke on 'Advances in Medical 3D Printing'. The lecture on 'Evolution of 3D Printing: Challenges and Opportunities for Industries' was delivered by Mr V Divakar, Machine Bulid technician and Trainer, Next Generation 3D Printers, Chennai. Mr S Senthil Kumar, CEO, Dream Shapes 3D Private limited, Chennai, discussed the scope of 3D Printing in Industrial Revolution 4.0. A lecture was delivered on 'Unveiling the Present Applications and Promising Future of 3D Printing' was delivered by Dr V Muthukumar, Professor, Mechanical Engineering Department, Saveetha Engineering College, Chennai.

At the end of the two-day fruitful technical deliberation, participants became aware of 3D printing principles, techniques, and technologies, advanced 3D printing techniques, their applications in medicine, aerospace, and manufacturing, real-world industry applications and the analysis of the case studies of 3D printing techniques etc. Participants are now able to identify current challenges and future directions in 3D printing process, problem-solving and critical thinking skills for addressing 3D printing challenges and interact with experts in the field. Participants were equipped with a comprehensive understanding of recent trends, challenges, and advancements in 3D printing technology which will contribute to the growth and advancement of the country. Dr V Muthukumar, Executive Committee Member, Kanchepuram Local Centre & Organizing Secretary of the event, proposed the vote of thanks.

Role of Artificial Intelligence in Technological Advancements in Industry

Contd. from page 4

following topics: Composite Product Development; Predictive maintenance in industry; CNN, RNN and its' Applications; Application of Neural Network to Short Term Load Forecasting in Power Systems; Complex Valued Neural Network based Load Flow Analysis; Integration of AI: Various Business Application Domains; Fault Detection and Diagnosis of Flight Vehicle using data Driven machine Learning Approaches; Noise Invarient Multivariate Time Series Classification for Aircraft Gas Turbine Engine Health Monitoring'; Combining AI with Physics for System Diagnostics and Few Thoughts on Role of AI Technologies in Industry.

Further, papers were presented on diversified topics, including; Collusion Detection System for Autonomous Cars using Al; Machine Learning Approach for Distributed Denial of Service Attack Detection in SDN; The Artificial Intelligence and Machine Learning Revolution Exploring Possibilities; Implementation of Artificial Intelligence Techniques in Smart Grid to Improve Power Quality; Recent Trends in Artificial Intelligence; Brain Computing Interface in Al and ML; Classification of Authentic and Fraudulent Reviews using Supervised Machine Learning'; Underwater Image Restoration and Enhancement based on a Fusion Algorithm with Colour Balance, Contrast Optimization and Histogram Stretching; Experimental Investigation on Health Monitoring of Break disc using Non-Destructive Testing and Artificial Intelligence; Experimental Analysis of machine Learning Classification Techniques for DOS Detection in Wireless Sensor Network; Al verses Human Thinking; Ensembling of SVM and Decision Tree for Prediction of Heart Diseases.

A Panel Discussion was organised on the occasion. Eminent speakers in the panel included; Dr L Nirmala Devi, Head, ECE Department, University College of Engineering, Osmania University, Hyderabad; Dr G Kanaka Durga, Principal, MVSR Engineering College, Hyderabad; Dr C V Gopala Krishna Rao, HoD, Electrical and Electronics Engineering Department, Dr A V Krishna Prasad, Associate Professor, IT Department, Dr Rajesh Kulkarni, Professor, Computer Science and Engineering Department, MVSR Engineering College, Dr J V Satyanarayana, Scientist G, Director, Embedded Al Systems.

During the Valedictory session, Er Navin Mittal, Commissioner, Collegiate & Technical Education, Government of Telangana, Hyderabad, graced the occasion as Chief Guest. Dr G Venkata Subbaiah, Honorary Secretary, Telangana State Centre, IEI, proposed vote of thanks.

The Seminar was attended by about 300 professionals including several dignitaries, engineers and students from all over the country.

Advancement in Spinning & Weaving Technology

South Gujarat Local Centre, IEI, in association with Paramount Looms Limited, Surat, organized a One Day Workshop on **Advancement in Spinning & Weaving Technology** on 17 June 2023 under the aegis of Textile Engineering Division Board [TXDB], IEI. Dr P P Raichurkar, Director, Man Made Textile Industries Research Association, (MANTRA), Surat, graced the function as the Chief Guest. Mr Sachin Kumar Arora, Executive Director, Textile Machinery Manufacturers Association (India) (TMMA) (I) graced the function as the Guest of Honour. The Keynote speakers of the



session included; Mr Saahil Multani, Director, Paramount, Mr G K Sahay, Regional Director, The Synthetic & Rayon Textiles Export Promotion Council (SRTEPC), Mr Bhavdeep Shah, Head of Energy Audit, MANTRA and Mr Dev Shah, Senior Scientific Officer, MANTRA. The programme started with the welcome address delivered by Dr Jignesh G Vaghasia, Chairman, South Gujarat Local Centre, IEI. In his address, he provided an overview on advancement in spinning and weaving technology as beneficial to the textile industry. The Chief Guest. Dr Raichurkar explained a wide spectrum of processes, involved in textile industry, starting from fibre manufacturing to final processing and garmenting stage. This involves many technologies that lead to the quality conversion of fibers into the ultra modern fashion or high-performance commodities, particularly in the case of technical textiles. The Guest of Honour, Mr Sachin Arora focused on major changes in textile industry during industrial revolution, which led to the introduction of machines into the manufacturing processes in textile industry. He emphasized that this breakthrough resulted in a reduction of workload for labourers and thereafter, significant developments occurred in various sectors of the textile industry including spinning, weaving, knitting and processing. The Keynote speaker,

Mr Saahil Multani, delivered a lecture on the topic 'Advancement in Spinning and Weaving Technology'. He elaborated at a length on the developments in spinning technology and their impact on production and quality of yarn. The speaker further addressed major challenges in the textile industry related to production, cost and quality. Mr Multani highlighted new technologies such as jet spinning and compact spinning, which yield higher production and improved quality, respectively. He provided technical details of jet spinning process, with a reduction in processing stages, thus lowering the production cost. The Kevnote speaker, Mr G K Sahay, focused on raising public awareness regarding global warming, climate change, greenhouse gas emissions carbon footprint, water conservation, etc and emphasized that technological advancement is the need of the hour. He mentioned that the technology developers are constantly innovating to produce and upgrade machinery technology to increase production, save time, simplify the process and bring about massive changes in production quantity, quality improvement and operating time. The Keynote speaker, Mr Bhavdeep Shah, while discussing the importance of Energy Audit, mentioned that it provides the scope for energy savings in different utilities and processes in the textile industries with significant cost effectiveness. He explained that the major operating cost in any industry involves energy (electrical & thermal), labour and materials, when cost of energy is rated at the top. He recommended cost-effective measures through efficient energy usage, estimation of implementation costs and payback periods. The other keynote speaker, Mr Dev Shah, discussed the latest innovative technology that makes a massive difference in production process and quality of deliverables. He focused on the innovation artificial intelligence and smarter machines, industries such garment and textile industry which gives numerous benefits and added that digital technology helps in cutting costs and increasing time efficiency. He mentioned the importance of sustainability for every industry, as consumers are more environmentally aware and interested in products that promote sustainability. Mr Dinesh Padmani, Paramount Looms Limited, emphasized the need to meet the expanding demands of thriving textile sector and stressed that designing, producing and distributing high-tech equipment is essential. Mr Padmani focussed on development of cuttingedge mechanical technologies, including bullet, waterjet, jacquard and rapier weaving, that would increase quality while reducing the need for human labour. At the end of the event, Dr Vaghasia proposed the vote of thanks.

One Day Seminar under the aegis of Mechanical Engineering Division Board

Mechanical Engineering – Life of Industry

Udaipur Local Centre, IEI, organized One Day Seminar on the theme **Mechanical Engineering – Life of Industry** on 27 May 2023 under the aegis of Mechanical Engineering Division Board, IEI. Er Purushottam Paliwal, Honorary Secretary, Udaipur Local Centre, IEI, welcomed the Chief Guest of the function, Prof B L Ahuja, Honorary Director, Institute



of Engineering and Technology, MLSU, Udaipur and the Guest Speakers, Er P S Solanki, Former Chief Manager (Maintenance), Hindustan Zinc Limited, Zawar Mines, Udaipur; Dr B L Salvi, Associate Professor & Head, Department of Mechanical Engineering, College of Technology and Engineering, MPUAT, Udaipur; Prof Naveen Kumar Agarwal, Professor &

Head, Department of Mechanical Engineering, Sir Padampat Singhania University, Udaipur; Er Prem Kumar Sharma, Former Scientific Officer - G, Nuclear Power Corporation of India Limited and Er Dheraj Soni, Assistant Professor & Head, Department of Mechanical Engineering, S S College of Engineering, Udaipur. Prof Ahuja congratulated Udaipur Local Centre, IEI, for selecting such a relevant topic for the Seminar and opined that everyone realize that without machinery, we cannot survive. He emphasized that an industry can thrive when there is maximum productivity and minimum expenditure. Er Solanki, in his address, discussed the development in the field of mechanical engineering and its impact on organizational productivity and efficiency. Dr B L Salvi delivered a lecture on the topic 'Eco-friendly Materials & Reverse Engineering' and emphasized that the key inputs for production of any system are machines or components. He further added that every civilization started with materials and their advancements. He stressed that eco-friendly materials can help in developing of a sustainable society, aiming to the fulfil customer's requirements and being environment friendly. He also highlighted the input resources for the development of new technologies like silicon chips, smart materials, bio-sensing materials, etc and expressed his views on Reverse Engineering and 3D printing.

contd. on page 12



Precision and Smart Technologies in Textiles

West Bengal State Centre, IEI in association with ICAR-National Institute of Research on Natural Fibre Engineering & Technology (NINFET), Kolkata, organized a One Day Seminar on **Precision and Smart Technologies in Textiles** on 24 July 2023 under the aegis of Textile Engineering Division Board [TXDB], IEI. Dr S Sreenivasan, Former Director, ICAR-CIRCOT, Mumbai, graced the occasion as Chief Guest and Prof Amlan Chakravorti, Director, A K Choudhury School of Information Technology, Kolkata, graced the occasion as the Guest of Honour. The event was also attended by Dr Nirmal Das, Chairman, West Bengal State Centre, IEI, Prof (Dr) Sadhan Chandra Ray, Chairman, TXDB, IEI, Dr D B Shakyawar, Director, NINFET



& Chairman, Textile Engineering Division, West Bengal State Centre, IEI and Dr Raju Basak, Honorary Secretary, West Bengal State Centre, IEI. Dr Nirmal Das delivered the welcome address and welcomed the dignitaries and participants. Prof Roy highlighted the past and future activities of Textile Engineering Division Board, IEI and thanked IEI for collaborating with NINFET. Dr S Sengupta, Organizing Secretary, explained the theme of the Seminar and need for such technologies in the advancement of textiles. The Chief Guest, Dr Sreenivasan, emphasized the promotion of advanced technologies and computation for the conservation of resources such as raw materials, water, chemical energy, etc, by minimizing wastage and losses, reducing pollution and spill into the environment, saving labour deployment and improving and productivity, product quality, etc. Dr Raju Basak, Honorary Secretary, West Bengal State Centre, IEI, proposed the vote of thanks.

There were three technical sessions, during which thirteen papers were presented. Guest of Honour, Prof Chakravorti delivered his presentation on 'Precision and Smart Technologies in Textiles'. In his lecture, he stressed the amalgamation of digital technology with textile and fibre engineering to create new opportunities in product development with higher precision. He further added that technology has benefitted from the application of intelligent technology in the areas such as digital fabric printing, computer aided design, data analytics, IoT, etc. Dr Abhinandan De, Associate Professor, IIEST Shibpur presented his paper on 'Leveraging the benefits of Soft Computing to drive Innovation, Sustainability and Competitiveness in the Textile Industry'. According to Dr De, many realworld problems demand practical and efficient solutions which are much more feasible than conventional computing, as these problems are highly complex, ill-defined and difficult. Real world problems mostly involve imprecision and uncertainty, making them extremely challenging to be handled by conventional computing, as he opined. He further mentioned fabric and yarn property prediction, intelligent monitoring, data analysis, and control in textiles. Prof (Dr) Sadhan Chandra Ray delivered lecture on the topic 'Competitiveness in the Textile Industry'. He explained the merits of electronic devices over mechanical ones and various application of advanced technologies in Textiles process, technology, design, etc. He further highlighted the solution of real time problem with an example of formation of 1X1 Rib Loop formation in Dial and Cylinder machine. Dr Kousik Bal, Development and Planning Officer, Calcutta University reviewed the development of textile-based sensors in making e-textile applications and mentioned research and developments in the fields of material science and technology, wearable electronics, wearable sensors, etc. Dr Nagesh Kumar T, ICAR-NINFET delivered lecture on 'Hybrid Machine Learning and Sensor based approach for Assessment of Quality of Jute Fibre and explained the hybrid machine learning and sensor based approach for evaluation of jute fibre quality. Here, three parameters like root content, defects and fineness are measured using Machine Learning, whereas the colour & bundle strength of fibre are measured using sensor based approach, he added. Dr L Ammyappan, ICAR-NINFET, delivered lecture on 'Optimisation of Polyaniline Coating on Jute Fabric for the Development of Smart Textiles' and narrated the process of polyaniline coating on jute fabric for the development of conductive textiles. Dr Anirban Datta of GCETT Serampore delivered on 'Feasible and Cost Effective Applications of CAD in Sustainable Apparel Product Development: A Detailed Case Study' and discussed on the feasible and cost-effective applications of CAD in sustainable Apparel product development. Dr Manik Bhowmick, ICAR-NINFET delivered lecture on 'Digital Measurement of Drape of a Fabric' and defined a rotary sensor based digital instrument to evaluate the drape of fabric, which is faster, accurate and hygienic. Ms Manisha Jagadale, ICAR-NINFET delivered lecture on 'Potential of Natural Bast Fibres to Develop Electrochemical Energy Storage Devices: A Review'. She revealed a method to use natural bast fibres to develop eco-friendly carbon electrode for electrochemical energy storage devices. She also covered the prospect on the circular economy, power management interface, recycling, and biodegradability. Dr Sanchita Biswas Murmu, ICAR-NINFET delivered presentation on 'Smart Jute Bag Capable of Delaying Ripening of Climacteric Vegetables' and explained the development of smart jute bag by resin finishing which is capable of delaying ripening of climacteric vegetables. Dr Sujoi Das, ICAR-NINFET delivered lecture on 'Smart Irrigation for Natural Fibre Mulching Field using IoT', and illustrated the Smart Irrigation system for Natural Fibre Mulching Field using IoT. The system monitors the real-time moisture content of soil and accordingly schedule the water pump for irrigation purpose, he mentioned. Ms Ankata Jana, GCETT, Serampore, delivered lecture on 'Transformation of Apparel Design in Advance Way - from One Sequence to Another Sequence' and described the transformable of apparel design. In an advanced way, from one sequence to another sequence, the office outfit has been created in such a way that it can be completely changed into a party-attending dress, by just adjusting the shoulder and armhole portion with a fabric attachment. Mr Nilimesh Mridha, ICAR-NINFET delivered lecture on 'Prospects of Natural Fibre Wastes in Soilless Smart Crop Production System'.

The valedictory session was chaired by Dr Nabab Ali, Former Deputy Director General (Engg), ICAR. Recommendations emanated from the technical deliberation are as follows.

Smart textile product specifications and properties depend on target market and potential use which should be identified through market research to understand current trends, consumer demands, and potential competitors in the smart textile industry; To develop smart textiles, an interdisciplinary team of experts in textile engineering, material science, electronics and domain specific professionals is required; High-quality, durable, and flexible materials are to be selected that can accommodate the integration of electronic/computer components without compromising comfort and aesthetics; More innovation and development to seamlessly integrate electronics and sensors into the fabric is the need of the hour. This could include conductive threads, flexible circuits, and other emerging technologies; Natural fibre-based engineered technical textiles, such as packaging materials may be developed for commodities by adding smart attributes sensors, gadgets, AI, ANN, etc.; Smart packaging needs to be developed to improve grain storage while reducing the pre-germination through collaboration among scientists from different disciplines and institutes. The implementation of strict quality control measures throughout the manufacturing process be prioritized to maintain consistency and

contd. on page 12

IEI Celebrates World Environment Day 2023

Theme : Solutions to Plastic Pollution

World Environment Day was celebrated by the Centres of the Institution all over the country on 5 June, 2023. Brief accounts of the celebration as received from various Centres are reported hereunder.

STATE CENTRES

Bihar



Bihar State Centre, IEI, observed World Environment Day 2023 on 02 July 2023 in Patna. Er Bhupendra Nath Singh, Chairman, Bihar State Centre, IEI, welcomed the Guest of Honour and Keynote Speaker of the

session, Mr Anupam, CIPET, Ministry of Chemicals & Fertilizers, Government of India, all Corporate Members, Scientists and other professionals present on this occasion. Mr Anupam emphasized on making environment friendly plastics that are degradable, minimize plastic use by reducing packaging, eliminating single use plastics, improving waste management and disposal. He informed that plastic container reacts above certain temperature and they should be kept at a specific temperature and used before the expiry date. Er Dilip Kumar Jha, Honorary Secretary, Bihar State Centre, IEI, proposed the vote of thanks at the end of the event.

Delhi

Delhi State Centre, IEI, observed World Environment Day 2023 on 05 June 2023 through online mode. Chief Guest, Mr Sulekh Chand, Scientist 'F', Standardisation Testing and Quality Certification (STQC) Directorate, Ministry of Electronics & IT, New Delhi informed that 430 million tonnes of plastics is produced every year through worldwide, half of it is used only once and 10% is recycled. He mentioned that approximately 19-23 million tonnes of plastics ends up in lakes, rivers, seas annually and emphasized the presence of micro-plastics in our daily food, drinks and air we breathe. He also expressed his concern about burning of single use plastic which is harmful for human health, biodiversity and pollutes the ecosystem from mountain tops to the ocean. He stressed the involvement of science and prompt action from the Governments, companies, stakeholders, to address this crisis and underscores the importance of the day in mobilizing transformative action from every corner of the world. Guest of Honour Er Pradeep Chaturvedi, Former Council Member, IEI, in his address stated that World Environmental Day raises awareness, mobilises action and promotes environmental sustainability. He mentioned through campaigns, events World Environment Day inspires individuals and communities to make changes, fostering a sense of urgency and addressing environmental challenges for a sustainable future. Earlier, Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI, delivered the welcome address. He spoke about the presence of microplastic in our daily food, drinks and the air we breathe. He explained the adverse effects of various plastic products that contain harmful additives, which may pose a threat to human health. Er Rajesh Sharma, Honorary Secretary, Delhi State Centre, IEI, proposed the vote of thanks at the end of the event.

Jharkhand

8

Jharkhand State Centre, IEI, in association with MECON Limited, Ranchi observed World Environment Day 2023 during 04-05 June 2023 at Ranchi.



Various activities were organized on the occasion for spreading awareness to protect and preserve the environment and also to avoid plastic use. On 4 June, 2023 a prabhat pheri

were organized to encourage people for saving trees and environment, fancy dress and painting competition related to environment was organised for the children. On 5 June, 2023 tree plantation program, Pledge ceremony followed by technical talk on the theme of the day were organised, where senior officials of Environmental Engineering Department, MECON and Er Mohammad Iguebal Alam, Chairman, Jharkhahad State Centre, IEI, discussed about the harmful effects of plastic and how to protect environment. Earlier, Er Alam welcomed the dignitaries, participants, parents, students and speakers to the technical talk and informed that World Environment Day is celebrated by Jharkhand State Centre, IEI, every year to spread awareness for environmental protection and healthy living of all species including the mankind. He also presented the biography of Late Shri A P Roy. Ms Rupali Mani, General Manager and Dr B Santosh Ramesh, Deputy Manager of Environmental Engineering Section, MECON Limited, delivered Shri A P Roy Memorial Lecture. On this occasion, Speaker, Ms Rupali Mani discussed the key points on the topic such as greenhouse gases caused by plastic production and incineration, different types of plastic, plastic recycle codes & recycling options, effects of plastic pollution on different species, utilization of plastic waste into furniture, bricks, etc and concluded several ideas for living with less plastic in our daily life. Speaking o the occasion, Dr B Santosh discussed about causes of plastic pollution, various greenhouse gases and hazardous compounds emitted, health and environmental consequences of various types of plastic burning, floating plastic trash particle in Pacific Ocean, research in plastic in various countries etc. Dr Manoj Kumar, Honorary Secretary, Jharkhand State Centre, IEI, proposed the vote of thanks at the end of the event.

Madhya Pradesh

Madhya Pradesh State Centre, IEI, observed World Environment Day 2023 on 05 June 2023 through online mode. Dr Mukesh Kumar Mishra, Honorary Secretary, Madhya Pradesh State Centre, IEI, delivered the opening remarks. Er Rajesh Bisaria, Chairman, Madhya Pradesh State Centre, IEI, welcomed the Guest Speaker, Dr Pushpendra Singh Bundela, Regional Officer, M P Pollution Control Board, Rewa, and the participants. Dr Bundela explained the theme of World Environment Day and highlighted the laws made by Government of India and Government of Madhya Pradesh to prevent plastic pollution. He shared various steps taken by Madhya Pradesh in this regard and emphasized that plastic pollution can only be stopped by creating awareness among the people. Dr Mukesh Kumar Mishra proposed the vote of thanks at the end of the event.

Maharashtra

Maharashtra State Centre, IEI, observed World Environment Day 2023 on 09 June 2023 at Mumbai. Er Vijay Chandrakant Kamble, Honorary Secretary, Maharashtra State Centre, IEI, delivered the welcome address. Prof Rajendra



Kumar V Saraf, Convenor, Environmental Engineering Division, Maharashtra State Centre, IEI, spoke on the theme. Speaker of the event was Dr Nitin Goyal, Principal Scientist & Head, CSIR, NEERI, Mumbai Zonal

Centre. In the event, the pressing issue of plastic pollution took center stage, shedding light on its global ramifications. Plastic pollution, a substantial environmental challenge, is known to profoundly affect ecosystems, human health, and presents significant hurdles to sustainable development. The deliberations at the event underscored the critical necessity for effective solutions to minimize plastic waste. Experts stressed the importance of instigating behavioral changes and raising awareness among the public. Encouraging the adoption of alternatives to single-use plastics emerged as a pivotal step towards mitigating this global menace. Furthermore, the discussions delved into the latest trends in plastic waste management technologies. The role of a circular economy in curtailing plastic pollution was a focal point, highlighting the potential of recycling and upcycling in managing plastic waste. Mr Sanjay Raghunath Bagul, Honorary Secretary of Navi Mumbai Local Centre, IEI, extended a vote of thanks at the conclusion of this significant event.

Odisha

On 05 June 2023, the Odisha State Centre of The Institution of Engineers (India) observed the World Environment Day in a virtual setting. The event was graced by Mr Suresh Chandra Maharana, Engineer-in-Chief (Electricity) cum Principal Chief Electrical Inspector from the Government of Odisha, Bhubaneswar, who joined as the Chief Guest. Mr Subrata Panigrahi, the Chief Operating Officer of the Institute of Quality & Environment Management Services, Bhubaneswar, took on the role of the Chief Speaker. Dr Bhagyadhar Bhoi, Chairman of the Odisha State Centre, IEI, led the proceedings and extended a warm welcome to the esteemed guests and participants. Er Manoja Kumara Dash, a Committee Member of ENED at the Odisha State Centre, IEI, delivered insights on the event's theme. The vote of thanks at the conclusion of the event was proposed by Er. Rabindra Nath Dalai, Honorary Secretary of the Odisha State Centre, IEI.

Punjab & Chandigarh

Punjab & Chandigarh State Centre, IEI, in collaboration with the Department of Life Sciences at BAM Khalsa College, Garhshankar, Punjab, marked World Environment Day 2023 on 05 June 2023 through an online event. Dr Labh Singh Bhari, Chairman of Punjab & Chandigarh State Centre, IEI, extended a warm welcome to the guests and participants. The event featured esteemed figures, including Chief Guest Dr Rajni Lamba, CEO of The Rural Environmental Enterprises Development Society (The REEDS), and Guest of Honour Dr Manbeer Kaur, Head of the Department of Life Sciences at BAM Khalsa College, Garhshankar, Hoshiarpur, Punjab. Mr A Kumar, Keynote Speaker and Faculty cum Trainer of Computer Science with NVS, Ministry of Education (MoE), Government of India, shed light on strategies to combat plastic pollution. He emphasized the significance of safeguarding waterways to minimize plastic waste. Er. Swinder Singh, Honorary Secretary of Punjab & Chandigarh State Centre, IEI, conveyed a vote of thanks to all the esteemed guests and participants.

Tamilnadu



Tamilnadu State Centre, IEI, commemorated World Environment Day 2023 on 17 June 2023 in Chennai. The event featured Chief Guest Mr Ranjan Varshney, Deputy General Manager of New Initiatives at NTPC,

who brought attention to the pressing issue of plastic pollution. Mr. Varshney stressed that many plastics fail to biodegrade, leading to their accumulation in the oceans, posing severe threats to aquatic life, human health, and marine ecosystems. He emphasized that plastic, composed of toxic pollutants, results in environmental harm through air, water, and land pollution, and he proposed solutions like recycling and cleaning up plastic waste. The Guest of Honour, Mr Kaushik Palicha, Managing Director of Ram Charan Co Private Limited in Chennai, also highlighted the plastic pollution issue. He categorized plastics into primary, like cigarette butts and bottle caps, and secondary, which result from the degradation of primary plastics. Mr Palicha elucidated the various forms of plastic pollution, including waste accumulation, marine litter, plastic fragments, and non-biodegradable fishing nets, all of which negatively impact wildlife. He emphasized the role of household waste in contributing to ocean pollution, especially during natural disasters like floods. Er S Kannan, Chairman of Tamilnadu State Centre, IEI, discussed the harmful effects of human activities on the environment, such as overpopulation, waste disposal, climate change, and pollution. He shed light on environmental protection programs at individual. organizational, and government levels aimed at achieving a harmonious balance between humanity and the environment. As part of the event, a tree plantation program was conducted in the presence of dignitaries. Er K N Sivaraju, Honorary Secretary of Tamilnadu State Centre, IEI, expressed gratitude in the closing remarks.

Telangana



Telangana State Centre, IEI, commemorated World Environment Day 2023 in Hyderabad on 05 June 2023. Dr P G Sastry, Director at Ramky Infrastructure Limited, Hyderabad, delivered a lecture focusing on the

event's theme. The event also saw the presence of esteemed Guests of Honour: Dr M Satyanarayana, Executive Director of HMWSSB and President of IWWA, and Lion Kamal Kishore Agarwal, PMJF, District Governor (Dist 3208). Mr Dinesh Raj Bandela, Senior Manager at Recykal, also shared insights on the theme. Er B Brahma Reddy, Chairman of Telangana State Centre, IEI, welcomed the distinguished audience and presided over the function. In his address, he emphasized the importance of reducing plastic usage to combat pollution. The event concluded with a vote of thanks by Dr G Venkata Subbaiah, Honorary Secretary of Telangana State Centre, IEI.

LOCAL CENTRES





Amravati Local Centre, IEI, in collaboration with IWWA, Amravati Centre, and the All India Renewable Energy Association, observed the World Environment Day 2023 on 05 June 2023, in Amravati. The day

commenced with a plastic garbage collection drive at Vidarbha Dhnyan Vidhnyan Sanstha (VMV), Amravati, aimed at making the campus plasticfree. Professor Nikhil Bobde from PRMIT&R, Badnera, delivered an insightful guest lecture, shedding light on the detrimental effects of singleuse plastics. He advised the community on the responsible use of plastics to prevent soil, water, and air pollution. Er Amit Arokar, Managing Director of ECE India Energies Private Limited, Amravati, gave a comprehensive lecture on 'The Impact of Solar Power Systems on the Environment.' He elaborated on various government schemes that promote the utilization of solar power systems and their long-term benefits. Er Aniruddha Alegaokar, Executive Engineer at MSEDCL, Amravati, discussed the solar policies of both the Central Government of India and the Government of Maharashtra. He covered topics such as captive power, rooftop solar solutions, schemes for domestic and commercial consumers, and the Kusum Yojana for farmers. Guests of Honor included Er Shrikrushna Kulkarni, Chief Engineer at MSEDCL, Amravati, and Er Prashant Bhamare, Chief Engineer at MJP, Amravati, and Chairman of IWWA. The program was presided over by Er Ganesh Uttamrao Barabde, Chairman of Amravati Local Centre, IEI. Er Harish Vinaykrao Mohod, Honorary Secretary of Amravati Local Centre, IEI, extended the vote of thanks.

Ananthapuram

Ananthapuram Local Centre, IEI, observed the World Environment Day



2023 on 05 June 2023, in Ananthapuram. The distinguished Chief Guest for the event, Prof G Ranga Janardhana, Hon'ble Vice Chancellor of JNT University, Ananthapuram, addressed the critical issue of plastic pollution. He underscored the pressing

need for recycling solutions, emphasizing that plastic waste, being non-biodegradable, poses a long-term environmental challenge. Prof. Janardhana also elucidated various methods for reprocessing discarded plastics, including pyrolysis, thermal degradation, and the innovative Swachh Bharat recycling machine. This recycling machine, a first of its kind in India, efficiently recovers and disposes of plastic bottles, contributing to effective plastic waste management. Prior to the Chief Guest's address, Dr M Rama Krishna Reddy, Honorary Secretary of Ananthapuram Local Centre, IEI, extended a warm welcome to the esteemed guests and attendees. Dr G Sudhakar Reddy, a Local Committee Member of Ananthapuram Local Centre, IEI, conveyed the vote of thanks at the conclusion of the event.

Anpara

On 05 June 2023, Anpara Local Centre, IEI, celebrated World Environment



Day in Anpara. The event featured Er R C Shrivastava, CGM of Anpara Thermal Project, as the Chief Guest and Er D N Yadav, GM ATPS, Anpara, as the Guest of Honour. The speakers included Mr. Ramjanam Yadav, DGM, NCL, Er Amit Kumar, AE, Anpara, and Mr

Abhinav Pal, Manager, NCL. Er Shrivastava addressed the issue of global plastic pollution and emphasized the need for creating awareness about eco-friendly alternatives to plastic in daily life. Er Prashant Kumar, Honorary Secretary of Anpara Local Centre, IEI, welcomed the audience, delivered a keynote address on the event's theme, and proposed a vote of thanks. He encouraged participants to reduce plastic usage and actively engage in IEI's activities.

Durgapur



Durgapur Local Centre, IEI, observed the World Environment Day 2023 on 05 June 2023 with an insightful seminar. Er Manas Majumder, Honorary Secretary of Durgapur Local Centre, IEI, initiated the

event with opening remarks. Er Safikul Islam, Chairman of Durgapur Local

Centre, IEI, extended a warm welcome to the dignitaries and elaborated on the theme, focusing on collective action to combat plastic pollution. He emphasized the importance of sharing transformative changes achieved through unified efforts against plastic pollution. Guest of Honour, Dr Kalyan Kr Mistry, Principal Scientist at CSIR-CMERI, addressed solutions to plastic pollution and its relation to energy literacy and environmental sustainability. He highlighted ongoing research on recycling plastic waste using methods like thermal plasma pyrolysis, plastic banks, and biotechnological bacteriology. Dr Mistry discussed environmental challenges such as forest fires, global warming, greenhouse effects, and pollution affecting aquatic life. Keynote Speaker and Guest of Honour, Prof (Dr) Sudit Sekhar Mukhopadhyay from the Department of Biotechnology, NIT Durgapur, emphasized the hazards of plastic materials like water bottles and carry bags, which accumulate and contaminate the environment. He advocated for the adoption of biopolymers and plastic-eating bacteria to facilitate easy degradation and safeguard the planet. Er Manas Majumder extended his gratitude with a vote of thanks to conclude the event.

Kalpakkam

Kalpakkam Local Centre, IEI, virtually observed World Environment Day 2023 on 12 June 2023. Dr V Preethi, Professor and Head of Civil Engineering at Hindustan Institute of Technology and Science (HITS) in Padur, Chennai, emphasized the detrimental effects of plastic pollution. She discussed the impact of plastic waste from the automobile industry and its consequences on the ecosystem and climate. Dr Preethi also highlighted innovative plastic waste management techniques, such as using recycled plastic for road construction in Himachal Pradesh. She encouraged the audience to reject single-use plastics and reduce their consumption of plastic bottles.

Jabalpur

Jabalpur Local Centre, IEI, celebrated World Environment Day 2023 on 07 June 2023 in Jabalpur. The event featured Dr S P Gautam. Former Vice



Chancellor of Rani Durgavati Vishwavidyalaya, Jabalpur, and Former Chairman of the Central Pollution Control Board, New Delhi, as the Chief Guest. The Guest of

Honour was Mr Alok Jain, Regional Officer of the Madhya Pradesh Pollution Control Board, Jabalpur. The Keynote address came from Prof. R K Bhatia of the Civil Engineering Department at Jabalpur Engineering College. Er Prakash Chandra Dubey, Chairman of Jabalpur Local Centre, IEI, extended a warm welcome. Dr S P Gautam emphasized environmental protection and tree planting. Mr Alok Jain advocated for the complete elimination of singleuse plastics. Prof R K Bhatia delivered the Keynote address. Er Rakesh Kumar Rathore, Council Member of IEI, discussed IEI's activities, and Er Sanjay Kumar Mehta, Honorary Secretary, proposed the concluding vote of thanks.

Jamshedpur

Jamshedpur Local Centre, IEI, observed World Environment Day 2023 on



05 June 2023 with a tree plantation drive. The event commenced with a warm welcome by Er Anurag Saxena, Immediate Past Chairman of Jamshedpur Local Centre, IEI, and Chief of Electrical Maintenance at Tata Steel, Jamshedpur. The

guest speaker, Mr Gaurav Anand, Director of Swachhatapukare, Jamshedpur, delivered a session on 'Beat Plastic Pollution: A Call to Action on World Environment Day.' He stressed the importance of exploring sustainable alternatives to single-use plastics, enhancing waste management systems, and crafting effective policies and regulations. Er Shanti Das Bhattacharjee,

Honorary Secretary of Jamshedpur Local Centre, IEI, extended the vote of thanks at the event's conclusion.

Kharagpur

Kharagpur Local Centre, IEI, celebrated World Environment Day 2023 on 6 July 2023, focusing on 'Beat Plastic Pollution – Understand the Effects of



Single-Use Plastic Products on the Environment.' Dr Damodar Maity, Chairman of Kharagpur Local Centre, IEI, introduced Prof Brajesh Kumar Dubey, from the Department of Civil Engineering at IIT Kharagpur,

as the keynote speaker. Prof Dubey elaborated on the phase-out of plastics and their alternatives. Dr Prasanta Kumar Prusty, Honorary Secretary of Kharagpur Local Centre, IEI, conveyed the vote of thanks.

Meerut

Meerut Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023, through virtual mode. Er Mohan Lal Jain, Chairman of Meerut Local Centre, IEI, commenced the event with a welcome address. The session included insights from Dr Abhijit Maiti, Associate Professor, Department of Polymer & Process Engineering, IIT Roorkee, on recycling, down-recycling, and landfilling of plastic waste, as well as Dr Kirtiraj K Gaikwad, Assistant Professor, Department of Paper Technology, IIT Roorkee, who discussed India's plastic waste management policies. Er Raj Pal Agarwal, Honorary Secretary of Meerut Local Centre, IEI, extended the vote of thanks.

Neyveli



Neyveli Local Centre, IEI, in association with Engineers & Scientist Association, commemorated World Environment Day 2023 on 24 June 2023. Chief Guest and Speaker, Er K. Mohan Reddy, Director (P&P) at

NLC India Limited, delved into the theme of 'Net Zero Carbon.' Er M Senthil Kumar, Honorary Secretary of Neyveli Local Centre, IEI, welcomed the participants.

Pune

Pune Local Centre, IEI, held a week-long commemoration of World Environment Week 2023 from 01-07 June 2023. This event was conducted in collaboration with several notable organizations, including Pimpri Chinchwad Science Park, Indian Plumbing Association, Water Resources Department, Pune, Supporting The Environment Avenue Rotary International District 3131, Maha Metro Rail Corporation Limited, Pune, Jeevit Nadi – Living River Foundation, Marathi Vidnyan Parishad Pune Vibhag, Sinhgad College of Engineering, Department of Civil Engineering, Rotary Club of Pune Shaniwarwada, and Rotary Club of Pune Royal. The event featured Mrs Shyamala Desai, President of the National Society for Clean Cities, as the Chief Guest. Notable keynote speakers included Mrs Sonali Mutha,



Jivit Nadi Adhikari, who emphasized the importance of a plastic-free riverbank. Mr Rohan Jain, Head of SPS and Senior Manager of Piping at Geberit Plumbing Technology India Private Limited, provided insights into the relative advantages and disadvantages of using

plastic and metal plumbing pipes. Keynote Speaker Mr Nitin Gore, Owner

of Gore Plastic & Carbouys and President of the Environment Club of India, shared valuable insights into the advancement of plastic technology and highlighted ongoing efforts to reduce plastic pollution, promote plastic reuse, and the government's initiatives to create an eco-friendly environment. Mr Daniel, Manager at Pune Metro, shed light on the energy-efficient metro rail system and its application of green energy resources. Mr Anand Chordia, Owner of Eco Factory Foundation Suhana Farms Yavat, Pune, underscored the challenges arising from rapid urbanization and population growth, emphasizing the pressing need for an efficient waste management system for waste segregation, recycling, and proper disposal. Dr Sanjay Bhaskar Zope, Chairman of Pune Local Centre, IEI, delivered the welcome address, and Mr Rajendrakumar V Saraf extended the vote of thanks on behalf of Pune Local Centre, marking the culmination of this informative and inspirational event.

Saurashtra

Saurashtra Local Centre, IEI, in association with Government Engineering



College, Rajkot, observed World Environment Day 2023 on 05 June 2023. Prof (Dr) Sarang Sadashiv Rao Pande, Chairman of Saurashtra Local Centre, IEI, opened the event and introduced Dr Pravin Narayan Bhalerao, an

Assistant Professor from Marwadi University. The session discussed conventional plastic waste management, reducing plastic usage, and case studies on recycling. Prof Asha M Joshi, HoD of the Civil Engineering Department at Government Engineering College, Rajkot, also shared insights.

South Gujarat

South Gujarat Local Centre, IEI, in collaboration with UltraTech Cement, celebrated World Environment Day 2023 on 24 June 2023, in Surat.



The event featured a tree plantation program. Dr Jignesh G Vaghasia, Chairman of South Gujarat Local Centre, IEI, welcomed the participants, and Prof Ketan D Panchal, Honorary

Secretary, South Gujarat Local Centre, IEI, elaborated on the importance of World Environment Day and extended the vote of thanks.

Tumakuru

Tumakuru Local Centre, IEI, marked World Environment Day 2023 on 12 June 2023, at CIT Gubbi. The event was inaugurated by the Chief Guest, Mr D R Kumaraswamy, Former Chief Environmental Officer, Bangalore, and Director of Prakruthi Institute of Environmental Studies. Prof (Dr) Sridhar



K N, Chairman of Tumakuru Local Centre, IEI, and Chief Advisor (Research) at CIT Gubbi, welcomed the attendees. Mr. Kumaraswamy delivered the keynote address,

emphasizing the significance of the environment, environmental pollution, climate change, sustainable lifestyles, environmental regulations, per capita water usage, and lifestyle changes to protect the environment. The event aimed to enhance knowledge and awareness of these vital environmental aspects.

Tuticorin

Tuticorin Local Centre, IEI, commemorated World Environment Day 2023 on 20 June 2023, with the theme 'Control of Plastic Pollution.' The event was presided over by Er I Maria Michael Raj, Past Chairman of Tuticorin Local Centre, IEI, who welcomed the participants. In his address, he emphasized the importance of maintaining Earth's delicate ecological balance to ensure



its habitability discussed and the implications of plastics modern in life. He drew attention to nonbiodegradable plastic items like bags, bottles, trays, and their

contribution to pollution issues. The Keynote Speaker, Mr Aruselvam, an expert in Environmental Management, discussed the versatility of plastics in domestic and industrial applications. Dr T Sivageerthi, Honorary Secretary of Tuticorin Local Centre, IEI, delivered the vote of thanks at the conclusion of the event.

Vadodara

Vadodara Local Centre, IEI, in collaboration with Parul University, Street Chetna Gujarat, Society of Power Engineers (I), Vadodara Chapter, and Rotary Club of Baroda, Sayajinagari, observed World Environment Day 2023 on 05 June 2023, in Vadodara. Mr Sanjay Harane, Director of Harane



System, emphasized the significant harm caused by plastic pollution to marine ecosystems and human health. He stressed the importance of recyclable products, as well as the need to distinguish between recvclable and

non-recyclable plastics to protect the environment. Er Ambikesh Natvarlal Padhya, Chairman of Vadodara Local Centre, IEI, delivered the welcome address, and Er Keyurkant Manibhai Thakkar, Honorary Secretary of Vadodara Local Centre, IEI, proposed the vote of thanks.

Visakhapatnam

Visakhapatnam Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023, in Visakhapatnam. The Guest Speaker, Prof Eda Udaya Bhaskara Reddi, a retired professor of Environmental Sciences who previously served as the HoD & Chairman of the Board of Studies and Senate Member at Andhra University, addressed the audience on 'Solutions to Plastic Pollution - Beat Plastic Pollution with Green Bioplastics.' The event was chaired by Er Venkata Satya G Pakki, Chairman of Visakhapatnam Local Centre, IEI. Prof (Dr) K Venkatasubbaiah, Vice Chancellor of JNTU, Gurjada, Vizianagaram, and Council Member, IEI, suggested using mud cups instead of plastic cups and avoiding plastic pollution in various institutions. Er Rapeti Nageswara Rao, Honorary Secretary of Visakhapatnam Local Centre, IEI, extended a warm welcome, while Mr D Bhujanga Rao, Committee Member of Visakhapatnam Local Centre, IEI, proposed the vote of thanks at the event's conclusion.

Mechanical Engineering – Life of Industry

contd. from page 6

Prof Naveen Kumar Agarwal delivered a lecture on 'Logistics and Supply Chain' highlighting information technology, logistics and the supply chain. He focused on logistics cost in India, the thrust, and the new initiatives of Government of India and stressed that the Indian logistics sector has brighter future prospects. He explained that logistics refer to a system that involves transportation of goods, information and resources from a place of origin to a destination according to customer's needs. Er Prem Kumar Sharma delivered a presentation on 'Condition Monitoring' and explained the condition monitoring is an active process for checking, diagnosing, monitoring and tracking critical changes in the parameters of machines such as vibration, noise and temperature. He further added that condition monitoring is essential for every plant and industry improving profitability and efficiency, including accepted standard maintenance operations. Er Dheeraj Soni delivered a lecture on 'Micromechanical' and explained in detail about Conventional and Non-Conventional Machining, Micromachining, Electrochemical Machining (ECM) and its applications, Electrical Discharge Machining (EDM), etc. He also explained that the ECM involves process material removal during electrolysis process while EDM is a type of noncontract electro-thermal NTM process. In the Valedictory Session, Er Chandra Prakash Jain, Chairman, Udaipur Local Centre, IEI, stated that the outcome of the Seminar would enrich the knowledge of the participants. Er Paliwal proposed the vote of thanks at the end of the event.

Precision and Smart Technologies in Textiles

contd. from page 7

reliability in the performance of precision textiles. The exploration of energyefficient power sources, such as energy harvesting technologies, should be emphasized; Compliance with related safety standards and regulations is necessary; Washability and ease of maintenance are significant concerns that need to be addressed; The environmental impact should be considered throughout the product lifecycle, from material sourcing to disposal, with a focus on using eco-friendly materials and manufacturing processes; An effective marketing strategy should be formulated to raise awareness about smart textiles and suitable distribution channels should also be identified to reach the target audience; A robust supply chain should be ensured to provide high-quality materials and maintain consistent production and delivery schedules; Considering that the field of smart textiles is continuously evolving, staying up-to-date with the latest technological advancements and consumer trends is essential for successful development and market penetration.



IEI Celebrates World Telecommunication and Information Society Day

2023

Theme: Empower the Least Developed Countries through Information and Communication Technologies

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on 17 May 2023. Brief accounts of celebrations as received from various Centres are given hereunder.

STATE CENTRES

Delhi



Delhi State Centre, IEI, celebrated World Telecommunication and Information Society Day on 17 May 2023, in New Delhi. The Chief Guest, Prof S R N Reddy from the Department of Computer Science &

Engineering at Indira Gandhi Delhi Technical University of Women, illuminated the transformative impact of telecommunication and information technology on our daily lives. He emphasized the indispensability of electronics in this digital age, highlighting its ubiquitous presence. Guest of Honour, Prof (Dr) M Gangadharappa, from Netaji Subhash University of Technology, underscored the role of telecommunication and information technology in connecting people across geographical boundaries, facilitating global connectivity. Dr Santosh Kumar Singh, Chairman of Delhi State Centre, IEI, delivered the welcome address. He emphasized the importance of nurturing digital skills, local digital content development, and the application of information and communication technologies for socio-economic development, particularly in less developed countries. He stressed the international community's crucial role in providing technical assistance, capacity building, and funding to support ICT development in these nations. Er Raiesh Sharma, Honorary Secretary of Delhi State Centre, IEI, proposed the vote of thanks to conclude the event.

Madhya Pradesh

Madhya Pradesh State Centre, IEI, celebrated World Telecommunication and Information Society Day on 17 May 2023, via virtual platform. The Guest Speaker, Er Pawan Kumar Jain, ITS, Principal General Manager (EB) at Bharat Sanchar Nigam Limited, MP Telecom Circle, provided insights into the event's theme and underscored the need for technology to reduce dependency. He stressed the importance of enhancing accessibility, inclusivity, and bridging the digital divide. He also emphasized the significance of building the capacity of public institutions to engage with transformative technologies like artificial intelligence, ensuring human rights protection, and promoting technology for the betterment of humanity, solidarity, and progress. Er Rajesh Bisaria, Chairman of Madhya Pradesh State Centre, IEI, extended a warm welcome to all participants. Dr Mukesh Kumar Mishra, Honorary Secretary of Madhya Pradesh State Centre, IEI, expressed gratitude and proposed the vote of thanks at the conclusion of the event.

Maharashtra

Maharashtra State Centre, IEI, in collaboration with Nashik Local Centre, IEI, and Shri Hiralal Hastimal (Jain Brothers, Jalgaon) Polytechnic, celebrated World Telecommunication and Information Society Day on 17 May 2023, virtually. The event featured a webinar focusing on 'No G to 5G, Milestone in Telecom Evolution.' Er Mahendra Ratanlal Kothari, Vice President of IEI

and Chairman of Maharashtra State Centre, IEI, extended a warm welcome to the participants. Dr V A Wankhede, Convenor of the Electronics and Telecommunication Engineering Division at Maharashtra State Centre, IEI, introduced the session's speaker, Dr (Mrs) Shweta N Shah, an Assistant Professor in the Department of Electronics Engineering at SVNIT Surat. The expert talk delved into information sharing, efforts to bridge the digital divide, enhancing communication networks, and explored the future of telecommunications. Er Vipul Ramesh Mehta, Honorary Secretary of IEI, Nashik Local Centre, IEI, expressed gratitude and delivered the vote of thanks.

Meghalaya

Meghalaya State Centre, IEI, in collaboration with BSNL, NE Circle,



commemorated World Telecommunication and Information Society Day on 17 May 2023, in Shillong. Shri R S Ram, General Manager at BSNL, addressed the complex challenges

of connectivity that have evolved over the past decade, emphasizing the need for meaningful connectivity. He stressed the importance of providing a safe, satisfying, enriching, productive, and affordable online experience and highlighted the urgency of bridging the digital divide between Least Developed Countries (LDCs) and the rest of the world. Er Ezekiel Lyngdoh, Chairman of Meghalaya State Centre, IEI, presided over the event and elaborated on the event's theme. Er Mcfurrsen Mawlieh, Honorary Secretary of Meghalaya State Centre, IEI, also addressed the audience, while Er J B Poon, Former Chairman of Meghalaya State Centre, IEI, proposed the vote of thanks at the conclusion of the event.

Mizoram

Mizoram State Centre, IEI, in collaboration with the National Institute of Technology Mizoram, marked World Telecommunication and Information Society Day on 03 June 2023, through online platform. The session featured Dr Anumoy Ghosh, an Assistant Professor in the Department of Electronics and Communication Engineering at NIT Mizoram, as the speaker, while Dr Shushanta Bordoloi, an Assistant Professor in the Department of ECE. NIT Mizoram, coordinated the event. The discussion highlighted the transformative capabilities of communication tools, including the internet, mobile networks, and other digital technologies, in driving socio-economic development, bridging the digital divide, and ensuring equal access to communication infrastructure, regardless of geographical location. The power of Information and Communication Technologies (ICT) to enhance information sharing, from human-to-human, human-to-machine, and machine-to-machine communication, was emphasized. The latest technological trends in the current year, such as 5G, artificial intelligence (AI), and digital transformation in least developed countries through Partner2 Connection, were explored, emphasizing the power of technology and the commitment to leave no one behind. The occasion served as a reminder that technology, when harnessed correctly, can significantly reduce disparities and create a brighter future for all. The event called for the strengthening of public policies related to ICT, changes to basic education curricula to promote ICT, and the promotion of digital public goods like open data and content. Dr (Ms) Chaitali Koley, Honorary Secretary of Mizoram State Centre, IEI, attended the webinar.

Odisha

Odisha State Centre, IEI, commemorated World Telecommunication and Information Society Day on 17 May 2023, in virtual mode. Dr. Bhagyadhar Bhoi, Chairman of Odisha State Centre, IEI, presided over the function and welcomed dignitaries and delegates. Er Asit Kumar Satpathy and Er Debesh Patra, Committee Members of Odisha State Centre, IEI, explained the event's theme. Dr (Mrs) Ashima Rout, Head of Department and Associate Professor in the Department of Electronics & Telecommunication Engineering at Indira Gandhi Institute of Technology, Sarang, graced the occasion as Chief Guest. Dr. Satyajit Rath, Senior Principal Scientist and Head of the Computer Networking & e-Management Department at CSIR-IMMT, Bhubaneswar, was the Chief Speaker. Er Rabnindra Nath Dalai, Honorary Secretary of Odisha State Centre, IEI, proposed the vote of thanks at the end of the webinar.

Tamilnadu

Tamilnadu State Centre, IEI, observed World Telecommunication and



Information Society Day on 20 May 2023, in Tamilnadu. The event was inaugurated with a welcome address by Er S Kannan, Chairman of Tamilnadu State Centre, IEI. The Chief Guest for the

function was Er T Senthil Kumar, Assistant General Manager (Operations) of BSNL. Tamilnadu Circle and the Guest of Honour was Er R Adi Govind. Public Relations Officer and Business Development Officer of Tamilnadu Circle, BSNL. Er T Senthil Kumar highlighted the importance of the day in raising awareness about internet usage and information and communication technologies (ICTs) while emphasizing the need to bridge the digital divide. He also discussed the efforts of the International Telecommunication Union (ITU) and its Partner 2 Digital Coalition, which encourages the public and private sectors to pledge for universal connectivity and digital transformation in developing countries. Er Govind elaborated on the challenges faced by the least developed countries in building communication infrastructure and stressed the importance of tailored digital strategies. He also highlighted potential solutions for bridging the digital gap, promoting digital skills, fostering e-commerce, leveraging ICTs for healthcare and education, and fostering international cooperation and partnerships. Er K N Sivaraju, Honorary Secretary of Tamilnadu State Centre, IEI, proposed the vote of thanks at the conclusion of the event.

Telangana

Telangana State Centre, IEI, celebrated World Telecommunication and Information Society Day on 17 May 2023, in Hyderabad. The event was



graced by the presence of Dr Sanjay Kumar Jha, Chairman and Managing Director of Mishra Dhatu Nigam Limited (MIDHANI), who served as the Chief Guest. Dr Mahammad Dada, Co-Founder and R&D

Director at AcenAAr Technologies Private Limited, delivered Keynote lecture on the day's theme. Er. B Brahma Reddy, Chairman of Telangana State Centre, IEI, presided over the function and extended a warm welcome to all attendees. Er K Subbi Reddy, Committee Member of Telangana State Centre, IEI, and Convener of the event, introduced the Chief Guest, while Dr G Venkata Subbaiah, Honorary Secretary of Telangana State Centre, IEI, introduced the Keynote Speaker. Dr G Venkata Subbaiah proposed the vote of thanks at the conclusion of the event.

Uttar Pradesh



Uttar Pradesh State Centre, IEI, commemorated World Telecommunication and Information Society Day on 17 May 2023, in Lucknow. The event featured Mr. Sunil Parihar, Former Chief General Manager at Bharat Sanchar Nigam, who served as the Chief

Guest. Mr Parihar highlighted the transformative impact of Information & Communication Technology (ICT) on communication, learning, and business. He emphasized that this technology empowers nations to achieve the Sustainable Development Goals and enhance their economies. He also drew attention to underdeveloped countries, which, due to weak institutional structures, continue to lag behind in adopting this technology. Er V B Singh, Council Member of IEI, Former Vice President of IEI, and Convener of the program, welcomed the guests and discussed the significance of observing the day. Dr Jaswant Singh, Honorary Secretary of Uttar Pradesh State Centre, IEI, proposed the vote of thanks at the conclusion of the event.

LOCAL CENTRES

Amravati

Amravati Local Centre, IEI, observed World Telecommunication and



Information Society Day on 17 May 2023, in Amravati. The occasion included a Guest Lecture on the topic 'Evolution of Smart Telecommunication from NoG to 5G.' Er Ajay Wanjari, Sub-Divisional Engineer

at BSNL, Amravati, served as the Guest of Honour, shedding light on the advantages and disadvantages of telecommunication evolution. He urged the responsible use of technology in the telecommunication sector. Er Akshay S Utane, Assistant Professor at the Electronics and Communication Engineering Department of Prof Ram Meghe Institute of Technology and Research, Badnera, was the Keynote Speaker. He delved into the chronological development of telecommunication, emphasizing its evolution from the 1970s to the present and the types of technologies in use today. Er Ganesh Uttamrao Barabade, Chairman of Amravati Local Centre, IEI, delivered the welcome address, and Er Harish Vinaykrao Mohod, Honorary Secretary, Amravati Local Centre, IEI, proposed the vote of thanks.

Ananthapuram

Anantapuram Local Centre, IEI, commemorated World Telecommunication and Information Society Day on 17 May 2023, through online mode. Chief Guest, Er M Sudhakar Babu, Deputy Director at All India Radio, Anantapur, focusing on the adoption of radar technology in vehicles. Keynote Speaker, Mr C Murali Mohan, Sub-Divisional Engineer at BSNL, Cellone, Ananthapuram, elaborated on the significance of information and communication technologies in our daily lives. Dr Rama Krishna Reddy, Honorary Secretary of Anathapuram Local Centre, IEI, delivered the welcome address. Prof (Dr) Ms Chigarapalle Shobha Bindu, Chairman of Ananthapuram Local Centre, IEI, proposed the vote of thanks at the end of the event.

Anpara

Anpara Local Centre, IEI, observed World Telecommunication and Information Society Day on 17 May 2023, in Anpara. The event witnessed the presence of Mr D N Yadav, Chief Engineer of Anpara 'A' Project, as Chief Guest, and Mr Ramjanam Yadav, DGM at NCL, as the Guest of Honour. Mr





D N Yadav explained how ICT acts as a catalyst for the development of Least Developed Countries (LDCs) and supports the attainment of sustainable development goals in the context of India. Er Prashant

Kumar, Honorary Secretary of Anpara Local Centre, IEI, welcomed the gathering and invited participants to engage in discussions on the theme of the day. At the event's conclusion, he proposed a vote of thanks to the honorable guests and other dignitaries present.

Belagavi

Belagavi Local Centre, IEI, observed World Telecommunication and Information Society Day on 17 May 2023, in Belagavi. Er R T Jangal,



in Belagavi. Er R T Jangal, Chairman of Belagavi Local Centre, IEI, presided over the event and extending a warm welcome to all attendees. Keynote Speaker, Dr Suresh Akolli, Professor & Head of Electronics & Communication Engineering

at S G Balekundri Institute of Technology, Belagavi, discussed the transformative impact of technological developments in the field of telecom and information systems. He emphasized how the world has become smaller due to these technological advancements, while many countries remain underprivileged in terms of technological developments due to lower gross income ratios. Dr Devendrappa Kenchakkanavar Veeranna, Honorary Secretary of Belagavi Local Centre, IEI, proposed the vote of thanks at the end of the event.

Dharwad

Dharwad Local Centre, IEI, commemorated World Telecommunication and Information Society Day on 23 May 2023, in Dharwad. The Chief Guest, Prof Sunilkumar T from the Department of Computer Science at



BITS Pilani, illuminated the transformative power of information and communication technologies in promoting sustainable development. He emphasized how these technologies can enhance

the socio-economic conditions of the least developed countries, improve their education systems, provide skill development opportunities, foster economic growth, and reduce poverty. Prof Sunilkumar highlighted the role of ICT tools in granting access to quality education, even to economically disadvantaged individuals, breaking barriers such as geographical limitations and resource constraints. Prof Kotresh Marali, Assistant Professor at the Electronics & Communication Department of S D M College of Engineering & Technology, Dharwad, introduced the Chief Guest. Dr Ramesh L Chakrasali, Immediate Past Chairman of the Dharwad Local Centre, IEI, presided over the event. Er Sidlingappa Sangappa Kerur, Honorary Secretary of the Dharwad Local Centre, IEI, emphasized the day's significance and shared a message from the Secretary of the International Telecommunication Union. Er Kerur extended a vote of thanks at the event's conclusion.

Kanyakumari

Kanyakumari Local Centre, IEI, in collaboration with Stella Mary's College of Engineering & Technology, Azhikkal, Kanyakumari District, observed World Telecommunication and Information Society Day on 17 May 2023, in Nagercoil. Er T Vijayan, DGM at BSNL, Nagercoil, graced the event as the Guest of Honour. He discussed the purpose of the day, which is to raise awareness



of the opportunities that the use of the internet and ICTs can bring to societies and economies while addressing ways to bridge the digital divide. Er Vijayan also provided insights into the

elements of 3G, 4G, and 5G networks, emphasizing how telecommunication has been globally recognized as a powerful tool for development and poverty reduction. He highlighted the introduction of optical fiber in the telecom industry for faster development. Dr S Arumuga Perumal, Chairman of Kanyakumari Local Centre, IEI, delivered the welcome address, and Er S Natarajan, Honorary Secretary, Kanyakumari Local Centre, IEI, discussed the theme.

Madurai

Madurai Local Centre, IEI, observed World Telecommunication and Information Society Day on 17 May 2023, in Madurai. Dr N Sivasubramanian, Chairman of Madurai Local Centre, IEI, welcomed the attendees. Prof (Dr)



P Udhaya Kumar, Honorary Secretary of Madurai Local Centre, IEI, introduced the Chief Guest of the function, Er S Senthil Kumar, Deputy General Manager at BSNL, Virudhunagar. Er Senthil

Kumar focused on the theme of the event, encouraging businesses and individuals to connect globally and undergo digital transformation. He explained the evolution of communication and the possibilities of using the internet and other information to bridge the digital divide, based on fundamental human rights. Prof (Dr) P Udhaya Kumar proposed a vote of thanks at the end of the event.

Munirabad

Munirabad Local Centre, IEI, celebrated World Telecommunication and Information Society Day on 17 May 2023, in Munirabad, focusing on the theme 'Empowering the Least Developed Countries through Information



and Communication Technologies.' Prof (Dr) Kuppagal Veeresh, Chairman of Munirabad Local Centre, IEI, inaugurated the event, providing insights into the theme. Dr P Sharath Kumar, Assistant Professor,

Department of Mineral Processing, VSK University, Nandihalli, the resource person for the day, explained the history of Telecommunication Day and underscored the importance of telecommunications and information technology. Mr K Nanjappa, Honorary Secretary of Munirabad Local Centre, IEI, extended a vote of thanks at the event's conclusion.

Visakhapatnam

Visakhapatnam Local Centre, IEI, observed World Telecommunication and Information Society Day on 17 May 2023, through online mode. A webinar was organized with the theme 'Wireless & Mobile Communications 5G and Beyond.' Dr M Lakshminarayana, Scientist-H (Retd) from DLRL/ DRDO & Former Associate Director of DLRL, Director R&D at Unistring Tech Solutions, Hyderabad, served as the Guest Speaker. Er Venkata Satya G Pakki, Chairman of Visakhapatnam Local Centre, IEI, presided over the session. Er Rapeti Nageswara Rao, Honorary Secretary of Visakhapatnam Local Centre, IEI, extended a warm welcome to the audience. Dr Ch Sanbasiva Rao, Committee Member of Visakhapatnam Local Centre, IEI, introduced the Guest Speaker, and Mr D Bhujanga Rao, Committee Member, Visakhapatnam Local Centre, IEI, proposed a vote of thanks at the end of the event.

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.
- 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: The PE Cell, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020 For any query and assistance, please send email to: pe@ieindia.org



The Institution of Angineers (India) IEI Industry Excellence Award 2023 for Start-up Initiatives Request for Participation

The engineering sector is experiencing remarkable growth with Government and private funding, presenting immense commercial potential on a global scale. Technology and innovation are the driving forces behind a vibrant MSME ecosystem, with start-ups acting as a perennial source of inspiration. We cordially invite start-up organizations in Engineering, Consultancy Services, Construction, Healthcare, Utility Services, IT & Telecommunication,

and related domains to apply for the prestigious IEI Industry Excellence Award 2023. To be eligible, applicant organizations must be duly registered with DPIIT, IN-SPACe, ISRO, Ministry of MSMEs, Government of India, and relevant State Industrial Development Corporations.

The IEI Industry Excellence Award 2023 aims to recognize and celebrate innovative start-ups that demonstrate exceptional promise and positive impact on society. By participating in this prestigious award, you not only stand a chance to gain industry recognition but also open doors to new opportunities, partnerships, and potential investors.

To participate, submit your applications using the specified format available at https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award. The application deadline is **31**st **October 2023**.

Send two hard copies and one soft copy (Pen drive/CD) to:

The Director [Technical]

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

We eagerly await your participation in this celebration of ingenuity and entrepreneurship.

Know-Your- Member (KYM)

The Institution of Engineers (India) is updating the database of all its Corporate Members along with their achievements for which a Know-Your-Member (KYM) form has been introduced.

Every Corporate Member is requested to kindly fill up the form and forward it along with the self-attested coy of photo ID proof to the address given below:-

The Director (Membership)

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

The form is available in IEI Website:

https://www.ieindia.org/WebUI/ajax/Downloads/WebUI_PDF/HIGHLIGHTS_DOCUMENT-3332.pdf



Engineering Staff College of India

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

Continuing Professional Development Programmes (CPDPs) for the Month of October 2023

SI. No.	Name of the Course	Scheduled Dates		
1.	Attaining & encountering the challenges in water supply & sewerage system	03 - 06 Oct 23		
2.	Information Security Management System (ISMS - ISO 27001) Lead Implementer			
3.	Industrial Piping Practice and Maintenance - Problems, Quality Control Measures			
4.	Rooftop Solar PV Grid - Design, Erection, Commissioning & Maintenance			
5.	Electrical Safety& Energy Audit in Mining Projects			
6.	Flood analysis using HEC-RAS Software	04 - 06 Oct 23		
7.	Enhancing structural durability with advanced waterproofing solutions	09 - 14 Oct 23		
8.	Machine Learning & Artificial Intelligence	09 - 13 Oct 23		
9.	Effective Utilization of MS office Applications (Online)	09 - 13 Oct 23		
10.	Inter-personal Relations and Assertive Skills	09 - 11 Oct 23		
11.	Hands-on training in ANSYS for simulating Structural, fluid and FSI problems	10 - 12 Oct 23		
12.	Gas Insulated Substations - Design features, Construction, Testing, Operation and Maintenance	10 - 13 Oct 23		
13.	Contract Management & E-procurement- GEM at Trivandrum	14 – 16 Oct 23		
14.	Climate change and its impact on public health	16 - 18 Oct 23		
15.	Vibrations, Balancing, Alignment and Condition Monitoring of Rotating Equipment (Theory and Practical Orientation with Technical Visit)	16 - 19 Oct 23		
16.	Power Trading, Power Exchanges & Merchant Power Plants (Online)	16 - 19 Oct 23		
17.	Smart Irrigation Technology for Better Water Use Efficiency	16 - 18 Oct 23		
18.	Critical Minerals & Elements: Exploration, Mining & Sustainability	17 - 19 Oct 23		
19.	Smart City Solution and Environmental Aspects	18 - 20 Oct 23		
20.	Quality Control and Engineering Inspection	18 - 20 Oct 23		
21.	Sustainability Auditing of Urban Lakes Restoration and Management.	25 - 27 Oct 23		
22.	Fracture and Failure analysis of Gas Turbine Engines, Naval and Aerospace Materials	25 - 27 Oct 23		
23.	Best Practices in O&M of Industrial Valves & Actuators for Heavy Industries & Power Plants	25 - 27 Oct 23		
24.	Training on Business Communication & Presentation Skills at Goa	25 – 27 Oct 23		

For detail information please contact:

Engineering Staff College of India

Old Bombay Road, Gachibowli, Hyderabad – 500 032 Landline : 040-66304100 & Mobile: +91 7337319038 / Email : mis@escihyd.org / URL : https://escihyd.org

News-in-Brief

The following are the brief account of Technical Activities organised by various Centres

LOCAL CENTRES

Indore

Workshop in Indore Explores Sustainable Traction Options for Indian Railways

Indore Local Centre, IEI, in collaboration with Oriental University, Indore, organized a workshop on 'Evaluating the Choice of Traction Option for Sustainable Indian Railways' on 15 March 2023. The event featured Professor (Dr) Rakesh Saxena, Director of Shri G S Institute of Technology and Science, Indore, as the Chief Guest and Keynote Speaker. Er Deepak Shah, Immediate Past Honorary Secretary of Indore Local Centre, IEI, graced the occasion as the Honorable Guest. Distinguished attendees included the Vice Chancellor, Prof (Dr) Sunil K Somani, Pro-Vice Chancellor, Prof (Dr) Dhruva Ghai, the Dean Academics, Prof (Dr) Garima Ghai, and other members of Oriental University, Indore. The primary focus of the workshop was to assess the policy decisions made by Indian Railways regarding efficient transportation, particularly in terms of traction options. The workshop concluded that until India transitions away from coaldominated power production, the country will face electricity shortages, resulting in increased carbon emissions from electric locomotives. Thus, a balanced approach involving a mix of tractions is necessary to ensure environmental effectiveness, sustainability, and equality.

Kalaburagi

Kalaburagi Celebrates National Safety Day 2023

Kalaburagi Local Centre, IEI, observed National Safety Day 2023 on 04 March 2023, with a lecture delivered by Dr. Jahier Abbas Shaikh, Associate Professor from Pune. Dr Shaikh's presentation focused on "Establishing and Maintaining a Preventive Safety and Health Culture."

Kanpur

Kanpur Hosts Online Lecture on Sports Textiles as a Technical Textile Aspect

Kanpur Local Centre, IEI, organized an online lecture on 25 February 2023, exploring the world of 'Sports Textiles: An Aspect of Technical Textiles.' Dr. Smita Bait, former Director of the Woollen Research Association in Mumbai, served as the Guest Speaker. Her informative presentation delved into the classification of technical textiles, including Agrotech (Agriculture Textiles), Buildtech (Construction Textiles), Indtech (Industrial Textiles), Meditech (Medical Textiles), Mobitech (Automotive Textiles), and Spartech (Sports Textiles). Dr. Bait highlighted the vast market potential in sportswear, sports equipment, and sports accessories within the domain of sports textiles. Additionally, she discussed the applications of manmade fibers in sports textiles, utilizing both non-woven and woven methods.

Kolar

Guest Lecture at Kolar Highlighting Aircraft Design and Development in Aerospace Domain

Kolar hosted a Guest Lecture on 'Product Design and Development in an Aerospace Domain' on 28 October 2022. The event featured Dr Madeva Nagaral, Manager at Hindustan Aeronautics Limited, Bangalore, as the Keynote Speaker. Dr Nagaral emphasized the critical role of aircraft in defense sectors and detailed the complex process of designing and developing aircraft. His presentation covered essential topics such as the significance of the centroid of gravity in aerospace and automotive sectors, safety landing procedures in aerospace, the use of various alloys and their compositions, and the importance of design. Furthermore, Dr Nagaral delved into the interior design and aesthetic aspects of commercial and fighter aircraft.

Kollam

Kollam Explores the Future of Global Power Grid

On 11 March 2023, Kollam Local Centre, IEI organized a webinar on 'Global Power Grid.' The Keynote Speaker, Er Sanalkumar K, former Chief Engineer at Kerala State Electricity Board Limited and an Executive Committee Member of Kollam Local Centre, IEI, delivered an insightful lecture on the topic. Er Sanalkumar discussed the concept of a global grid and the evolution of national grids from smaller state-level grids. He highlighted the growing importance of a global grid due to the increasing availability of cost-effective and abundant solar power. This power must be transmitted to regions with no daylight, and he also discussed India's participation in the International Solar Alliance (ISA) forum.

Madurai

National Science Day Celebrated in Madurai with a Focus on Sustainability

Madurai celebrated National Science Day on 28 February 2023, with a theme centered around 'Wealth from Waste – A New Pathway for a Sustainable Environment.' Dr M Kottaisamy, Professor, and Head of the Department of Chemistry at Thiagarajar College of Engineering, Madurai, served as the Chief Guest. During his presentation, Dr Kottaisamy highlighted the importance of judiciously using depleting resources and discussed recycling and the reuse of waste materials. He also touched on the applications of nano-cellulose in industries and silicon-based solar cells as non-conventional energy sources.

Meerut

Meerut Explores the World of Maintenance Practices

Meerut organized a Lecture Meeting on 'Maintenance Practices' on 19 February 2023. Dr M K Sharma, a former Professor and Head of the Department of Mechanical Engineering at IIT ISM, Dhanbad, served as the Speaker. Dr Sharma's presentation covered various aspects of maintenance, including unplanned maintenance like emergency or breakdown maintenance and planned maintenance, consisting of routine or scheduled maintenance, corrective maintenance, unit change-out maintenance, design-out maintenance, contract maintenance, total productive maintenance, preventive maintenance, and predictive maintenance. Dr Sharma also discussed other planned maintenance system options, including Reliability Centered Maintenance, Computer Managed Maintenance, Shutdown Maintenance, Running Maintenance, Opportunistic Maintenance, and Quality Maintenance.

Ranipet

Ranipet Marks Silver Jubilee Celebration with Notable Guests

Ranipet celebrated its Silver Jubilee on 16 October 2022, with a grand event. Dr V Narayanan, Director of LPSC, ISRO, graced the occasion as the Chief Guest, while Er Rajeev Singh, Executive Director of BHEL Ranipet, and Dr T M Gunaraja, Past President of IEI, were the Guests of Honor. Dr Narayanan



presented an inspiring journey of ISRO, from its early days working on bicycle rockets to its remarkable achievements, including the development of cryogenic engines, GSLV Mach-III rockets, and groundbreaking missions like Chandrayaan and Mangalyaan. The Chief Guest also delved into the advancements in LOX methane technology, the Gaganyaan mission, and the exciting prospects of space tourism. The event saw the launch of the Ranipet Local Centre website and the release of an e-souvenir.

Lecture Sheds Light on Offshore Engineering in Ranipet

Ranipet hosted a lecture program on 'Overview of Offshore Engineering' on 18 February 2023. The session featured Mr G Thulasiram, Deputy Manager (Electrical) at Petrofac Oil & Gas, Chennai, as the speaker. Mr Thulasiram provided an in-depth introduction to various aspects of offshore engineering, covering topics such as platform and jacket construction, installation methods including lifts and float-overs, and decommissioning procedures for offshore systems and subsea systems. He also discussed geotechnical studies, bathymetric surveys, and various methods employed to counteract turbulent waves during installation, including the use of pile foundations. The lecture emphasized safety measures, including the cyclic deployment of employees between offshore and onshore locations and the use of bubble curtains to minimize disturbances to aquatic life and vehicular traffic.

Rourkela

Data Protection Day Commemorated in Rourkela

Rourkela commemorated Data Protection Day on 28 January 2023, with a hybrid event. The speaker for the occasion was Dr Ratnakar Dash, Assistant Professor in the Department of Computer Science and Engineering at the National Institute of Technology, Rourkela. Dr Dash delivered a presentation on 'Data Protection using Image Analysis,' where he discussed various measures to safeguard sensitive information from unauthorized access. His insights encompassed encryption, access controls, backup strategies, disaster recovery plans, and regular security assessments. Dr Dash also explored the applications of image analysis, including traditional steganography and coverless steganography.

World Sustainable Energy Day Celebrated in Rourkela

On 27 February 2023, Rourkela celebrated World Sustainable Energy Day with a hybrid event. Er Hara Prasad Pattnaik, General Manager, (Contact Cell) Town, Steel Authority of India Limited, Rourkela Steel Plant, served as the speaker for the event. He presented on the topic of 'Energy Transition – Energy Security,' highlighting the importance of energy transitions driven by multiple goals, including modernizing and diversifying the economy, improving energy security, enhancing air quality, and mitigating climate change. Er Pattnaik emphasized the need to transition to zero carbon by adopting bio or synthetic fuels in industry, efficiently using materials, increasing recycling and reuse, and reducing emissions. He also noted opportunities in plastics and metals, advocating for a safer and more sustainable energy system that reduces exposure to fuel price volatility and cuts energy bills.

Rourkela Explores Catalysis and Materials for Energy and Environment Applications

On 12 April 2023, Rourkela conducted a Technical Paper Meeting on 'Thinking Catalysis/Materials: Step by Step for Energy and Environment Applications.' Dr Suverna Trivedi, Assistant Professor in the Department of Chemical Engineering at the National Institute of Technology, Rourkela, served as the speaker. Dr Trivedi highlighted the broad impact of chemical catalysis on various aspects of our lives. She explained how catalysis influences the rates of chemical bond formation and breakage, ultimately impacting the quality of life. Dr Trivedi discussed the design of catalysis for applications such as vehicle emission control and solar cells, underlining the importance of simulation and experimental skills in material selection for specific applications.

Thanjavur

Thanjavur Seminar Explores Drones in Agriculture and Surveying

On 30 August 2022, Thanjavur hosted an enlightening seminar on 'Drone and Its Application in the Field of Agriculture and Surveying.' The distinguished speaker for the event was Mr R Bharat Prabhu, COO of Vimanna Labs Private Limited, Bengaluru. The seminar delved into the fundamental functions of drones and their wide-ranging applications in agriculture, drone mapping, and more.

Tiruchirappalli

Tiruchirappalli Organizes Webinars on Electric Vehicle Systems, Edge Computing, and More

Tiruchirappalli organized a series of webinars in collaboration with various esteemed organizations, including the Computer Society of India, Safety Quality Forum – IEI, New Delhi, and others, focusing on diverse topics:

On 07 February 2023, the webinar 'Electric Vehicle Systems – An Insight' featured Mr S V Sreeraj, Director of EmCog Solutions, Mogappair, Chennai, as the speaker. The session covered topics such as electric vehicle technology, electric mobility, types of electric vehicles, motor driving strategies, and learning opportunities.

The webinar 'Edge Computing: Fundamentals and Its Integration with Other Technologies' took place on 14 February 2023, with Dr Y Mohamadi Begum, Professor, Department of Computer Science & Engineering, School of Engineering, Presidency University, Bangalore, as the speaker. The discussion revolved around cloud computing, edge computing, its functioning, integration with other technologies, and business intelligence.

On 21 February 2023, Dr Titus S, Professor at the Department of Electrical and Electronics Engineering, K Ramakrishnan College of Engineering (Autonomous), Tiruchirappalli, presented a webinar on the 'Basics of Solar Photovoltaic System Design.'

'A Revisit to Product Design and Manufacturing in the Foreground of 3D Printing Technology' was the topic of the webinar held on 28 February 2023. Dr M Kannan, Professor-in-Charge at the Innovation and Product Development Centre, Francis Xavier Engineering College, Tirunelveli, served as the speaker. The webinar delved into the world of 3D printing, its mechanics, types of metal 3D printing technologies, SLS capabilities, and the distribution of 3D printing technology in part production.

Tumakuru

Tumakuru Explores Entrepreneurship and Construction Management

In Tumakuru, the Institution's Innovation Council (Ministry of HRD Initiative) of Channabasaveshwara Institute of Technology, Gubbi, arranged an expert talk on 'Entrepreneurial Journey' on 21 February 2023. The event featured Mr Pradeep Soundararajan, CEO of Moolya Software Testing Private Limited, Bangalore, as the resource person.

Additionally, a guest lecture on 'Construction Management' was conducted on the same day at CIT, Gubbi. The resource person, Mr Ashok Kumar S G, Founder & CEO of Construction Management Training Institute, Bangalore, provided valuable insights into construction management, including infrastructural development, IoT applications in the civil industry, and the use of software in civil engineering.



38th INDIAN ENGINEERING CONGRESS

Jabalpur, December 27-29, 2023

Theme: Reimagining Tomorrow: Shaping the Future through Disruptive and Interdisciplinary Technologies

Organized by

The Institution of Engineers (India)

Hosted by: Jabalpur Local Centre

Venue: Hotel Royal Orbit, Jabalpur

Empanelment as Advocate/ Attorneys & Chartered Accountant for 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 **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 practising Chartered Engineers, which is valid for **five years**.

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

The hard copy of application should reach to:-

The 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.



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

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

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

(visit link: https://www.ieindia.org/webui/IEI-Activities.aspx#engineering-education-excellence-award) for the IEI Engineering Education Excellence Award 2023. The deadline for submitting of applications for the Award 2023 is **31**st October 2023. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

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



WORLD STANDARDS DAY 2023

Theme:

SHARED VISION FOR A BETTER WORLD: INCORPORATING SDG 3

Every year, on October 14th, we celebrate World Standards Day, a day that signifies the collaborative efforts of the world's leading International Standards Organizations: IEC, ISO, and ITU.

In 2023, the theme for World Standards Day is "SHARED VISION FOR A BETTER WORLD: INCORPORATING SDG 3." This theme reflects our shared desire for a fairer, more sustainable world, with a strong focus on the health and well-being of all. It harmonizes perfectly with the Sustainable Development Goals (SDGs), a global initiative promoting peace, prosperity, and the welfare of both people and the planet. These SDGs are not just aspirations; they are urgent calls to action, requiring the collective commitment of nations and individuals.

International Standards offer practical solutions that can unite us all in achieving these goals. By embracing and implementing these standards, we actively contribute to making the world a better place.

SDG 3, which focuses on ensuring healthy lives and promoting well-being for all, plays a pivotal role in our shared vision. It addresses health disparities and well-being inequalities, serving as a cornerstone for creating a fairer, more sustainable world.

The Institution of Engineers (India) (IEI) joins the global community in observing World Standards Day on October 14th each year at all its State/Local Centres, Fora, and Overseas Chapters. This observance emphasizes the importance of international standards in our daily lives and their critical role in achieving the 2030 Agenda, fostering a fairer and more sustainable world.

As the world's leading developers of international standards, IEC, ISO, and ITU, along with IEI, call upon the global community to unite in this noble endeavor. Together, we have the collective power to shape a world where the well-being and good health of every individual are not distant ideals but tangible realities. Our commitment extends not only to the present but also to the well-being of generations to come.

Let us stand united, bound by a shared vision and a common purpose, and work tirelessly towards a world that is not only better and fairer but also sustainable, where the health and well-being of every individual are cherished and safeguarded.



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.

Every year, the Institution invites applications 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
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory
2. UG (BE/BTech/ AMIE/Equivalent)	'Student Member' (SMIE)	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank
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
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank

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:

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

Kindly go through the guidelines (visit link https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative) before filling up the application.

IEI DIARY

Architecture Engineering Division

Thirty-eighth National Convention of Architectural Engineers on "Decarbonizing Cities-Harmonizing Buildings, Mobility and Infrastructure" Indore, November 19-20, 2023

The Honorary Secretary, IEI, Indore Local Centre, SGSITS Campus, 23, Sir M Visvesvaraya Marg (Park Road), Indore 452003 [E -mail: indorelc@ieindia.org]

Agricultural Engineering Division

One Day Seminar on "Sustainable Developments in Quality Control of Construction Sector" Chennai, October 12, 2023

The Honorary Secretary, IEI, Tamilnadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [2]: 044-25360614 /9962950333, E-mail : tnsc@ ieindia.org, Website : www.ieitnsc.org]

All India Seminar on "Processing and Value Addition in Agriculture for Increasing Farmers Income-An Engineering Perspective"

Thiruvananthapuram, October 25-26, 2023 The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opp to Kanakakunnu Palace, Thiruvananthapuram (2011): 0471-2322991/2982102, Fax: 0471-232992, Email: keralasc@ieindia.org, Website: https://ieitvm.org/)

Civil Engineering Division

Thirty-eighth National Convention of Civil Engineers on "Water Management for Sustainability using Emerging Technologies"

Belagavi, October 08-09, 2023

The Honorary Secretary, IEI, Belagavi Local Centre, Er S G Balekundry Marg, Shivabasava Nagar, Belagavi 590010 [2]: 0831-2470258, Mobile: 9141384358, E-mail : belagavilc@ieindia.org, Website: www.ieilcbelagavi.org]

One Day Seminar on "Latest Trends In Transportation Engineering and Town Planning"

Coimbatore, October 13, 2023

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [22: 0422-2580733, E-mail: coimbatorelc@ieindia.org, Website: www.ieicoimbatore.org]

One Day Seminar on **"Smart Material In Civil Engineering"**

Bhopal, October 16, 2023

The Honorary Secretary, IEI, Madhya Pradesh State Centre, Visvesvaraya Marg (Kasturba Hospital Road), PO: Habibganj, Bhopal 462024 [22: 0755-2474572 / 2502987, E-mail:mpsc@ ieindia.org, Website : www. mpsciei.org]

All India Seminar on "Advancement in Irrigation, Drinking Water Supply, Factory use and Sanitation Projects using Pressurized System"

Jabalpur, November 25-26, 2023

The Honorary Secretary, IEI, Jabalpur Local Centre, Vishvesvaraya Marg, South Civil Lines, In front of Old RTO Office, Jabalpur 482001 [20: 0761-2678929, E-mail: jabalpurlc@ieindia.org]

Computer Engineering Division

One Day Workshop on "Soft Computing and Machine Learning" Durgapur, October 05, 2023 The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205, [26: 0343-2564770, E-mail: durgapurlc@ieindia.org; Website: www.ieidurgapurlc.org]

Thirty-sixth National Convention of Computer Engineers on **"Blockchain Technology for Artificial Intelligence** of Things (AloT)"

Salem, October 16-17, 2023

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Road, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [22:0427-2332544, E-mail: salemlc@ieindia.org, Website: www.ieislc.com]

All India Seminar on "Integration of Cloud Computing and Internet of Things (IoT)"

Kanchepuram, October 18-19, 2023 The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology – ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [Email: kanchepuramIc@ieindia.org]

All India Seminar on "Machine Learning and Internet of Things IoT"

Bareilly, October 18-19, 2023

The Honorary Secretary, IEI, Bareilly Local Centre, 44, Camphor Estate Colony, Near Champhor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, Email: bareillylc@ ieindia.org]

All India Seminar on "Deep Learning in the Medical Field Opportunities and Challenges for Advancement" Coimbatore, November 02-04, 2023

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [2: 0422-2580733, E-mail: coimbatorelc@ ieindia.org, Website: www.ieicoimbatore.org]

International Conference on "Sustainable Governance and Economic Development through IT Enabled Industry 5.0"

Kolkata, November 23-24, 2023 The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [22:033-22238914, Fax: 033-22233140, E-mail:wbsc@ieindia.org]

All India Seminar on "Security Issues In Cloud Computing with Artificial Intelligence Intervention : Challenges & Opportunities"

Ranchi, December 09-10, 2023 The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [2010]: 0651-3510412, E-mail: jharkhandsc@ ieindia.org; Website: ieijscjharkhand. org]

All India Workshop on "High Performance Computing in Health Care and Big Data Analytics" Kattankulathur, February 05-06, 2024

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [2020]

All India Workshop on "Advanced Code Wizardry Uncovering Secrets for Designing and Architecting Impactful Applications"

Kattankulathur, March 04-05, 2024

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [22: 044-2745 2270]

Electrical Engineering Division

All India Seminar on "Operation and Control of Solar PV Electric Conversion Systems"

Tiruchirappalli, October 03-07, 2023

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirappalli 620014 [2: 0431-2554285 /2574022, E-mail: tiruchirapallilc@ ieindia.org]

One Day Seminar on "Electrical and Hybrid Vehicles" Agra, October 11, 2023

The Honorary Secretary, IEI, Agra Local Centre, IEI, Room No-G3, Faculty of Engineering & Technology, Agra College, Agra 282002 [22: 812689221, Email: agralc@ieindia.org]

One Day Seminar on "Transforming The Electrical Technology with Al"

Chennai, October 12, 2023

The Honorary Secretary, IEI, Tamilnadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [26: 044-25360614 /9962950333, E-mail : tnsc@ieindia.org, Website : www.ieitnsc.org]

Thirty-eighth National Convention of Electrical Engineers on "Systemic Electric vehicle Adoption in India including EV Charging - Implementation Roadmap, Regulatory Framework, Infrastructure Development, Technical Challenges & Case Studies" Shimla, November 24-25, 2023

The Honorary Secretary, IEI, Himachal Pradesh State Centre, Engineers Bhawan, Nigam Vihar, Shimla 171002 [26: 0177-2623736, E-mail: hpsc@ieindia. org, Website: hpiei.org]

International Conference on "Green Hydrogen and Clean Energy"

Nagpur, February 10-11, 2024

The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010, [28: 0712-2525617, E-mail : nagpurlc@ieindia.org]

Thirty-ninth National Convention of Electrical Engineers on "Green Hydrogen, Electric Vehicle and Energy Storage System"

Chennai, May 24-25, 2024

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [26: 044-25360614 /9962950333, E-mail : tnsc@ieindia.org, Website : www.ieitnsc.org]

Electronics and Telecom. Engg. Division

All India Workshop on "Recent Advancements in Organic and Nanoelectronics Raone2023" Kattankulathur, October 05-10, 2023

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [22: 044-2745 2270]

22

All India Seminar on **"Smart Applications of LabView** in Electronics Engineering,"

Madurai, October 26-27, 2023

The Honorary Secretary, IEI, Madurai Local Centre, T M lambulingam Bhavan, Vivekanandha Nagar (100 Feet Road), Surveyor Colony K. Pudur, Madurai 625 007 [28: 0452-2561783 / 0452-4373067, Email: madurailc@ ieindia.org, Website: http://ieimadurailc.org]

Thirty-eighth National Convention of Electronics & Telecommunication Engineers on "Hyper Connectivity Applications of Next Generation Communications" Kochi, October 27-28, 2023

The Honorary Secretary, IEI, Kochi Local Centre, IEI Bhavan, Government Homeo Hospital Road, Pullepady, PO: Kaloor, Kochi 682017 [20: 0484-2403838 /2403993, E-mail : kochilc@ieindia.org; Website : www. ieikochi.org]

One Day Workshop on "Prototype Process Design and Development"

Tiruvallur, October 31, 2023

The Honorary Secretary, IEI, Tiruvallur Local Centre, Dr MGR Educational and Res. Inst Univ, Periyar E VR High Road (Nh4 Highways), Madueavoyal Chennai 600095 [Email: tiruvallurlc@ieindia.org, Website: https://ieitvlc. org]

One Day Workshop on "**Robotics Artificial Intelligence** Enable Cyber Crimes and Animation Development" Agra, November 09, 2023

The Honorary Secretary, IEI, Agra Local Centre, IEI, Room No-G3, Faculty of Engineering & Technology, Agra College, Agra 282002 [26: 812689221, Email: agralc@ieindia.org]

All India Workshop on "Internet of Things and Al a Multidisciplinary Approach"

Bhimavaram, November 16-17, 2023

The Honorary Secretary, IEI, Bhimavaram Local Centre, First Floor, General Emenities Building, SRKR, Engineering College, PO Chinnaamiram, Dist, West Godavari, Bhimavaram 534204 [22: 08816-233522, E-mail: bhimavaramlc@ieindia.org

One Day Workshop on "5G Volte"

Agra, November 18, 2023

The Honorary Secretary, IEI, Agra Local Centre, IEI, Room No-G3, Faculty of Engineering & Technology, Agra College, Agra 282002 [28: 812689221, Email: agralc@ieindia.org]

All India Three Days Workshop on "Competitive Programming and System Design"

Kattankulathur, February 7-9, 2024

The Honorary Secretary, IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [22: 044-2745 2270]

Environmental Engineering Division

All India Seminar on "Cost-Effective and Emerging Effluent Treatment Technologies"

Durgapur, October 07-08, 2023 The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205, [28: 0343-2564770, E-mail: durgapurlc@ieindia.org; Website: www.ieidurgapurlc.org]

Thirty-seventh National Convention of Environmental Engineering on "Eco-friendly & Sustainable Approaches for Landslide and Land Subsidence Management in Hilly Regions"

Shimla, September 15-16, 2023 The Honorary Secretary, IEI, Himachal Pradesh State Centre, Engineers Bhawan, Nigam Vihar, Shimla 171002 [26: 0177-2623736, E-mail: hpsc@ieindia. org, Website: hpiei.org]

All India Seminar on "Advanced Instrumentation for Assessment of Soil Health Indicators, Pollution and Greenhouse gas Emission from Soil" Coimbatore, November 16-17, 2023

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore, Tamilnadu 641004 [28: 0422-2580733, E-mail: coimbatorelc@ ieindia.org, Website: www.ieicoimbatore.org]

Mechanical Engineering Division

All India Seminar on "Interfacing Mechanical Engineering with Artificial Intelligence and Machine Learning"

Coimbatore, October 10-11, 2023

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

All India Seminar on "Non Conventional Energy Resources for Power Plant Design: Advanced Green Energy Resources"

Bareilly, October 12-13 2023

The Honorary Secretary, IEI, Bareilly Local Centre, 44, Camphor Estate Colony, Near Champhor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, Email: bareillyIc@ ieindia.org]

All India Seminar on "Driving Hydrogen Fuel Cells into the Mainstream and Its Application" Hosur, November 09-10, 2023

The Honorary Secretary, IEI, Hosur Local Centre, Adhiyamaan College of Engineering, Hosur 635109 (Email: hosurlc@ieindia.org, website: http://ieihlc.org/

All India Seminar on "Solar Energy"

Bareilly, November 29-30, 2023

The Honorary Secretary, IEI, Bareilly Local Centre, 44, Camphor Estate Colony, Near Champhor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, Email: bareillyIc@ ieindia.org]

All India Seminar on **"Emerging Trends of Digital Manufacturing using 3D Printing and Flexible Manufacturing System"** Ranchi, January 27-28, 2024

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [27: 0651-3510412, E-mail: jharkhandsc@ ieindia.org; Website: ieijscjharkhand. org]

Metallurgical & Materials Engineering Division

All India Seminar on **"Advanced Material Synthesis -**Characterization and Application"

Puducherry, 06-07 Oct, 2023 The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701/9443748471, Email: puducherrysc@

ieindia.org, Website:www.ieipsc.org]

All India Workshop on "Advance Alloys Charecterization and Application"

Kanchepuram, October 12-13, 2023 The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology – ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [Email: kanchepuramlc@ieindia.org] All India Seminar on "New Generation Composite Materials"

Kanchepuram, October 19-20, 2023

The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology – ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [Email: kanchepuramlc@ieindia.org]

Thirty-sixth National Convention of Metallurgical & Materials Engineers on "Green Composites, the Newgeneration Sustainable Composite Materials: Specific Features and Applications"

Kolkata, November 17-18, 2023

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [2: 033-22238914, Fax: 033-22233140, E-mail: wbsc@ieindia.org]

Production Engineering Division

One Day Workshop on "Laser-based Processing: Advancements and Applications in Modern Manufacturing"

Ranchi, October 08, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO: Doranda, Ranchi 834002 [22: 0651-3510412, E-mail: jharkhandsc@ ieindia.org; Website: ieijscjharkhand. org]

Thirty-eighth National Convention of Production Engineers on "Green and Bio-inspired Manufacturing – The Way Forward"

Bareilly, June 28-29, 2024

The Honorary Secretary, IEI, Bareilly Local Centre, 44, Camphor Estate Colony, Near Champhor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, Email: bareillyIc@ ieindia.org]

Interdisciplinary Coordination Committee

All India Seminar on **"Technology Inclusion for** Innovation and Productivity Enhancement" Jamshedpur, October 03-04, 2023

The Honorary Secretary, IEI, Jamshedpur Local Centre, Subarnarekha Link, Sakchi, Jamshedpur 831 001 [2: 0657-2234316, Fax: 0657-2230159]

All India Seminar on **"Green Technologies for** Sustainable Development"

Pune, November 04-05, 2023

The Honorary Secretary, IEI, Pune Local Centre, 1332 Shivajinagar, Jangli Maharaj Road, Pune 411 005 (202-25533376/25520239/25530150, Email: punelc@ieindia.org, website: http://ieipune.org/

One Day Seminar on "Innovation Conclave"

Durgapur, November 05, 2023

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205, [28: 0343-2564770, E-mail: durgapurlc@ieindia.org; Website: www.ieidurgapurlc.org]

All India Seminar on "Innovation and Technology Inclusion Program in Manufacturing and Asset Management for Steel Industry"

Jamshedpur, November 27-28, 2023

The Honorary Secretary, IEI, Jamshedpur Local Centre, Subarnarekha Link, Sakchi, Jamshedpur 831 001(20:0657-2234316, Fax: 0657-2230159, Email: jamshedpurlc@ieindia.org)



The Institution of Engineers (India) IEI Industry Excellence Award 2023 Request for Participation

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

Applications in specified format (visit link: https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award) are invited from prospective applicants for IEI Industry Excellence Award 2023. The last date of receipt of application for the Award 2023 is **31**st October 2023. Interested applicants are requested to send their applications (Two hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

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



The Institution of Engineers (India) IEI Industry Excellence Award 2023 for Overseas Organisation

Request for Participation

Discover IEI:

Welcome to The Institution of Engineers (India) or IEI – your gateway to engineering excellence and worldwide collaborations. With strong ties to esteemed international bodies, IEI stands as a beacon of innovation on the global stage. For more details, visit www.ieindia.org.

Introducing the IEI Industry Excellence Award:

To recognize industries' crucial role in shaping society and the economy, IEI instituted these awards in 2008. They honor remarkable innovation, excellence in engineering operations, and unwavering commitment to high standards.

Join Us in Celebrating Excellence:

We take immense pride in the global industrial achievements – productivity, quality, safety, and performance assurance that have earned industries a significant place worldwide. At IEI, we firmly believe that industry leaders like you hold the key to shaping a brighter future on a global scale.

Why Participate?

Elevate Your Status: Gain national and international acclaim for your exceptional achievements.

Lead the Charge: Set new excellence standards and inspire industries worldwide.

Unlock Opportunities: Forge invaluable connections with like-minded global leaders.

Champion the Profession: Participate and uphold engineering's prestige and integrity.

How to Participate: Visit https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award and apply easily. Be part of a global celebration of engineering brilliance!

Join the Prestigious Ranks: Don't miss the chance to shine on the world stage. Unleash your organization's potential and celebrate engineering excellence with us.



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 : Moi Cong, ON MS Syali, VSM (Retd), Secretary & Director Congrel President : Er Shivanand Roy

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

Special Contributors: Mr S Chakraverty, Dr K Sen Mr D Nath, Mr A Deb, Mr A Das, Ms H Roy, Mr S Bagchi

-3352 Editor : Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General

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