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A CENTURY OF SERVICE TO THE NATION

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WFEO Executive Council Meetings & WFEO UNESCO Joint Meeting for Member States, Paris (France)

The World Federation of Engineering Organizations (WFEO) convened the Federation's Executive Council Meetings on October 26-28, 2022, in Paris (France), along with a joint event with the UNESCO Natural Sciences Sector. The Executive Council Meetings were attended by Mr. Ashok Kumar Basa, Past President, IEI, Executive Vice President, WFEO, Chair, Strategic Planning Committee and Member, Finance Committee and WFEO-UN Relations Committee (WURC); Mr Navinchandra B Vasoya, Past President, IEI, Member, Executive Council, WFEO and Governance Committee and President's Advisory Committee, WFEO and Mr S S Rathore, Past President, IEI, Chair, WFEO-CIC and Member, Nominations Committee, WFEO.

The Executive Council Meeting was preceded by the Meeting of the WFEO Standing Technical Committee on Information and Communication (WFEO-CIC) presently hosted by The Institution of Engineers (India). The Meeting was hosted on Zoom platform on 15 October 2022 at 17:30 – 19:00 h (IST). Mr S S Rathore, Chair, WFEO-CIC stated that the Committee will stick to the current Action Plan until the end of its term next year. Chair, WFEO-CIC in his presentation provided a brief overview about the annual activities of WFEO-CIC, its thrust areas (primarily SDG 9 and SDG 11) and its planned set of activities for 2022 and 2023. He also stated that CIC intends to publish an edited volume of the monograph titled 'Ethics in Artificial Intelligence: Bias, Fairness, and Beyond'. The edited volume is being published in collaboration



with Springer Nature which is a leading global publishing house of repute. This book introduces some of the latest developments in the area of ethical practices in Artificial Intelligence. Leading experts from the academia and industry have contributed together to bring forth some of the most intriguing issues around bias, discrimination, fairness and interpretability in the design of algorithmic AI systems.

As the Chair, WFEO-CIC, Mr S S Rathore attended All Committees' Chair Meeting on 26 October 2022 and also attended the Nominations Committee Meeting as a Member on 27 October 2022.

Mr Ashok Kumar Basa presided over the Strategic Planning Committee meeting held on October 26, 2022. Mr Basa discussed strategic objectives

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Thirty-seventh National Convention of Electronics and Telecommunication Engineers and National Seminar

The Impact of 5G: Creating New Value Across Industries and Society

Telangana State Centre, IEI organized the 37th National Convention of Electronics and Telecommunication Engineers during 18-19 November 2022 at Hyderabad under the aegis of Electronics and Telecommunication Engineering Division Board (ETDB) IEI. A National Seminar was also organized on the occasion on the theme **The Impact of 5G: Creating New Value across Industries and Society**. Dr B H V S Narayana Murthy, Director General (MSS), DRDO, Hyderabad graced the function as Chief Guest. Prof B S Murthy, Director, Indian Institute of Technology Hyderabad and Dr M Rama Manohara Babu, Distinguished Scientist and Director, Advanced Systems

Laboratory, Hyderabad graced the occasion as Guests of Honour. Mr Jayesh Ranjan, IAS, Principal Secretary, Information Technology, Electronics and Communication, Government of Telangana graced the occasion as Distinguished Guest. Prof (Dr) Girish Shrikisan Mundada, Chairman, ETDB, IEI presided over the function. The programme was started with the welcome address delivered by Mr B Brahma Reddy, Chairman, Telangana State Centre. Chief Guest of the session, Dr B H V S Narayana Murthy in his address highlighted, how the 5G service will achieve prominence in future. He said that 5G network will support a wide range of activities, which include healthcare, education, banking and finance, agriculture etc and added that in today's digital world, telecommunication industry has become the backbone of the organizations, governments, social structures and individuals. Distinguished Guest of the session, Mr Jayesh Ranjan, IAS spoke on IT development and growth in different industry sectors, progress of 5G implementation in India and the initiatives taken by the Government. Guest of Honour, Prof B S Murthy, in his address mentioned that 5G network will usher in a new era of digital solution in India. He stated that 5G technology will provide seamless coverage in remote areas across the country and

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The Impact of 5G: Creating New Value Across Industries and Society

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expected to play a major role towards achieving the economic goal of the country. He further focused on five major industries, namely healthcare, smart utilities, consumer and media, industrial manufacturing and financial services, which will be significantly benefitted from the 5G technology. The other Guest of Honour, Dr M Rama Manohara Babu, in his address explained the importance of 5G technology in Defence sector. On the occasion, Lt Gen Jagmohan Singh Sidana, Commandant, MCEME & Colonel Commandant, CORPS of EME, Secunderabad; Dr Niranjana Prasad, Sr Scientist 'G', Defence Electronics Research Laboratory (DLRL), Hyderabad and Dr Saptarshi Chaudhuri, Chief Architect, Radisys Corporation, Bangalore (in absentia) were felicitated as eminent engineering personalities for their immense contribution in the field of electronics and telecommunication engineering. The IEI Young Engineers Award for the year 2021-22 in Electronics & Telecommunication Engineering Division were presented to Dr Shashi Poddar, Senior Scientist, Department of Intelligent Machines & Communication Systems, CSIR - CSIO, Chandigarh (in absentia); Dr Abhishek Kumar Gupta, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology Kanpur and Mr Ashish Kumar Garg, Senior Manager, Tata Steel Limited, Jamshedpur. For the year 2022-23, the recipients of the Award are Dr Rajesh Saha, Assistant Professor, Department of Electronics & Communication Engineering, Malaviya National Institute of Technology, Jaipur (in absentia); Dr E B Priyanka, Assistant Professor, Department of Mechatronics Engineering, Kongu Engineering College, Tamil Nadu and Mr Anish Mahavir Bhargav, Technical Officer, Government Research Institute, CSIR-National Physical Laboratory, New Delhi. The Prof S K Mitra Memorial Lecture was delivered by Dr P J Narayanan, Director, The International Institute of Information Technology Hyderabad on the topic 'Infusing Three Dimensionality into Digital World'. In his lecture, Dr Narayanan outlined the progress made in the area of capturing 3D from the real world and the way forward. Dr G Prasad, Senior Scientist – SG, National Remote Sensing Centre, ISRO, Hyderabad delivered State-of-the-Art Lecture on the topic 'Future of Electronics and Telecommunication Engineering' and discussed at a length data acquisition system, high speed large capacity data storage. He explained the advances in computer infrastructure, advances in data storage and network elements and their applications, etc.

A Technical Proceedings was released on the occasion with the papers presented during the technical sessions. The function was well attended by the Council Members, Past Presidents, Past Vice-Presidents, Past Chairmen, Past Honorary Secretaries, Committee Members of IEI TSC, Corporate Members of IEI, about 180 students and 120 delegates. Dr G Venkata Subbaiah, Honorary Secretary, Telangana State Centre, IEI proposed the vote of thanks.

During the National Seminar, nine expert lectures were delivered as follows.

Brig (Dr) V D Abraham, SM, Former Vice Chancellor, Sri Venkateswara University, UP delivered his presentation on the topic 'Private 5G Network'; Dr L Nirmala Devi, Professor and Head, Department of Electronics & Communication Engineering, University College of Engineering, Osmania University on 'The Role of AI in 5G in Future'; Mr B Brahma Reddy, Chairman, Telangana State Centre & Council Member, IEI on '5G Game Changer for Fin Services Industry'; Prof G Radhakrishna on the topic '5G Super Technology'; Dr Alok Nath De, Member, ETDB & Council Member, IEI delivered lecture on '6G: Network and Service Requirements'; Dr Niranjana Prasad, Sr Scientist 'G', Defence Electronics Research Laboratory (DLRL), Hyderabad on 'Cognitive Electronic Warfare System's Requirement'; Brig Shivendra Kumar, Dean, Faculty of Electronics and Communication Engineering, MCEME, Hyderabad on the topic 'Integrating 5G into Future Communications'; Dr Suneetha R Kovvuri, Consultant Forensic Psychiatrist on '5G: Impact on Medical Field' and Dr K Seetha Ram Babu on 'Business Perspective in Digital Transformation'.

The technical sessions were chaired by Dr (Ms) Gunnu Padmavathi and Mr Santosh Kumar Surajmal Mutha, Members, ETDB, IEI. Brig Shivendra Kumar, Dean, Faculty of Electronics and Communication Engineering, Military College of Electronics & Mechanical Engineering (MCEME), Secunderabad delivered a Invited talk on the topic 'Integrating 5G into Future Communications'. Mr Anish Mahavir Bhargav, the Young Engineer Awardee presented a technical paper on the topic 'SNSPDC for Next Generation Optical Networks and Communication'. Dr Abhishek Kumar Gupta, the Young Engineer Awardee, presented a paper on the topic 'Beyond 5G: THz and Nano-networks'. Mr Pendli Pradeep, Sreenidhi College of Engineering and Science and Technology, Hyderabad presented a paper on the topic 'Design of a Two-port MIMO Antenna for 5G Applications'. Dr K V N S V P L Narasimham, Scientific Officer, BARC, National Centre Compositional Characterization Of Material (NCCCM), Hyderabad presented a paper on the 'Impact of 5G on Analytical Instrumentation'. A Panel Discussion was organized on the occasion on the topic 'Future of Electronics and Telecommunication Engineering'. The IEI Young Engineer Awardees, Chairman of the host Centre, Chairman, Technical Committee and other dignitaries were present in the session.

In the Valedictory Function, Dr T H Chowdary, Former Advisor, IT, erstwhile State of Andhra Pradesh was the Chief Guest and Smt S Kanimozhi, Deputy General Manager, Canara Bank, Hyderabad was the Guest of Honour. Dr Chowdary, in his address focused on the possibility to enhance the economic and social values through widespread deployment of 5G network. Dr (Ms) Gunnu Padmavathi, Member, ETDB, IEI was present in the function and addressed the audience.

Recommendations emanated from two-day deliberation are as follows:

Private 5G networks can be dedicated to a specific enterprise or application by using the advantages of 5G (or LTE) system. Implementation of this type of networks may transform the entire industry leading to the granulation of the telecommunications market; For a given signal to noise ratio, Filter Bank Multi Carrier (FBMC) modulation technique has the best performance, in terms of peak to average power ratio (PAPR) among other systems, for 5G cellular communication systems; The orthogonal frequency division multiplexing (OFDM) is a powerful modulation technique for high data rate and for elimination of inter symbol interference (ISI) Channel Coding is an important part of the physical layer which plays the crucial role in latency and reliability; Integration of Artificial Intelligence (AI) with both the 5G network and the device will lead to more efficient wireless communications, longer battery life, and enhanced user experience; Adoption of 5G in the fintech industry would revolutionize the banking sector opportunities for both the banking organisations and customers; With technologies like cloud and edge computing, and IoT, 5G has become a super technology to play an integral role in Industry 4.0; Network and service requirements for 6G have been defined to enhance precision in network configuration, machine type communication, augmented intelligence, rich-media services and security & reliability of the network; 5G technology along with IoT enabled services is highly recommended for health applications. Rural economy can certainly be improved using 5G technology; Design of a highly isolated two-port MIMO applications antenna for 5G WI-FI-5 has been proposed; 5G technology suitability for applications in Space and Defence Textiles has been proposed for improving the protection against natural and battlefield threats, weight reduction and for making the textiles suitable for all climatic conditions; 5G technology can create an impact in medical field and improve the critical components of healthcare; With the advantages of 5G technology, it is possible to create a dynamic and highly competitive business environment; There will be tremendous impact of 5G technology on analytical instruments' design, development, deployment and remote maintenance, that leads to the advantages to the user community.

Smart Materials and their Applications in Aerospace Structures

The Punjab & Chandigarh State Centre, IEI organized the Thirty-fifth National Convention of Aerospace Engineers at Chandigarh in association with Aerospace Engineering Department, Punjab Engineering College (Deemed to be University) Chandigarh and The Aeronautical Society of India, Chandigarh Branch during November 25-26, 2022 under the aegis of Aerospace Engineering Division Board, IEI. A National Seminar was also organized on the occasion on the theme **Smart Materials and their Applications in Aerospace Structures**. Padma Shri Dr Satish Kumar, Chairman, Armament Research Board, DRDO graced the occasion as



Chief Guest. Air Marshal RKS Shera, PVSM, AVSM, VSM (Retd) graced the occasion as Guest of Honour. Dr P V Venkitakrishnan, Chairman, Aerospace Engineering Division Board (ASDB), IEI presided over the function. Chief Guest, Dr Satish Kumar deliberated at a length the properties of different smart materials for aerospace applications and further emphasized

the indigenous development of smart materials. Guest of Honour of the function, Air Marshal R K S Shera, elaborated the contribution of Air Marshal Harjinder Singh Mahl, who has designed, constructed and flew the Kanpur – I Aircraft while in service as AOC Maintenance Command of Air Force at Kanpur. He also emphasized on the inclusion of Defence aviation content in the engineering curriculum. The program started with welcome address delivered by Dr Labh Singh Bhari, Chairman, Punjab & Chandigarh State Centre (Session 2022-24). Prof (Dr) T K Jindal, Convener of the event briefed the audience about the theme. Prof (Dr) T S Kamal, Past Vice President, IEI was present on the occasion and addressed the audience. Chairman, ASDB in his address stressed on changing ecosystem by means of cooperation and collaboration for mass beneficitation. He further emphasized on exploration of ideas through out of the box thinking and recommended to have an integrated team work for achievement of objectives. On the occasion, Rear Admiral Deepak Bansal, PVSM, ACNS (Air Materiel), Indian Navy; Dr Tejinder Kumar Jindal, Professor and Head, Aerospace Engineering Department, Punjab Engineering College Chandigarh and Shri Yogesh Kumar, Renowned Technologist in the field of Aircraft Systems were felicitated as eminent engineering personalities. The Dr Vikram Sarabhai Memorial

Lecture was delivered by Dr P V Venkitakrishnan, Distinguished Scientist & Director(Retd), ISRO-HQ Bangalore and Chairman, ASDB, IEI on the topic 'Space 2.0 in India'. In his lecture, Dr Venkitakrishnan explained the vision of Dr Vikram Sarabhai regarding Indian space programme. For the year 2021-22. The IEI Young Engineers Award in the field of Aerospace Engineering

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WFEO Executive Council Meetings & WFEO UNESCO Joint Meeting for Member States, Paris (France)

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meant to provide strategic engineering guidance to global society for sustainable development during the Meeting (scheduled between 09.00 am and 10.30 am Paris time). Mr Basa detailed WFEO's satisfactory progress toward the strategic objectives outlined in the Strategic Plan 2019-2023, notwithstanding the restrictions triggered by the outbreak of Covid-19 pandemic. Mr Ashok Kumar Basa, as a Member, also attended the Finance Committee Meeting on October 26, 2022, and the WFEO-UN Relations Committee (WURC) Meeting on October 27, 2022. Mr Navinchandra B Vasoya attended Governance Committee and President's Advisory Committee Meetings on 26 October 2022 as a Member. Mr Basa, Mr Rathore and Mr Vasoya had played active role in their respective Committees.



WFEO-UNESCO Joint Meeting for Member States

The IEI delegation also attended the WFEO-UNESCO Natural Sciences Sector joint event, which consisted of an information meeting for UNESCO Member States delegates on October 27, 2022, from 2.00 pm to 6.30 pm (Paris Time). This joint event aimed to present the UNESCO-WFEO partnership and contributions to the SDGs through collaboration with Member States, particularly in the areas of engineering capacity building and education, as well as how it is relevant to a variety of regional and national contexts in terms of building more inclusive and responsible communities. The Sector for Natural Sciences and WFEO have demonstrated a good example of how sectors, Member States, and NGOs in official relations can collaborate to achieve common goals.



The Executive Council Meeting itself was held on 28 October 2022 which was attended by Mr. Ashok Kumar Basa, Mr Navinchandra B Vasoya and Mr S S Rathore. Mr Basa, as the Chair of the Strategic Planning Committee of WFEO, presented the strategic plans in the Executive Council on 28 October 2022 which were finalized in the physical meeting held on 26 October 2022. The Meeting concluded with a presentation on future events to be organized under the auspices of WFEO.

Advancement in Smart Cities by IoT & Artificial Intelligence

Kanchepuram Local Centre, IEI organized One Day Workshop on the theme **Advancement in Smart Cities by IoT & Artificial Intelligence**, in association with Sri Sairam Engineering College, Chennai on 01 June 2022 under the aegis of Civil Engineering Division Board [CVDB], IEI. The purpose of the Smart Cities Mission is to drive economic growth and improve the quality of life of people by enabling local area development and harnessing technology, especially that leads to smart outcomes. Being smart makes a city more able and agile to move from one level to the next, guided by principles of making most from limited resources, taking everyone along, quickly adapting to changes, being resilient in the face of stresses or shocks at each stage, and using technology mindfully at every step of the way to reach scale and speed.

Mr S Kannan, Chairman, Tamilnadu State Centre, IEI and Dr D Elango, Chairman, Kanchepuram Local Centre, IEI welcomed the speakers, dignitaries and participants. Mr Kannan delivered the inaugural address on the topic 'Smart City Technologies and Applications'. During the technical session, Dr S Indra Priyadarshini, Assistant Professor, Department of Computer Science & Engineering, VIT University, Chennai Campus delivered lecture on the topic 'Role of IOT in Smart Cities'; Dr S Bhagavathi Perumal, Professor & Head, Department of Civil Engineering, Sri Sairam Engineering College, Chennai delivered lecture on the topic 'Impact of IOT & AI in Smart Cities' and Dr Swagatha Sarkar, Professor & Head, Department of Artificial Intelligence & Data Science, Sri Sairam Engineering College, Chennai spoke on 'Artificial Intelligence in Smart Cities and Urban Mobility'.

Speakers covered different aspects of smart cities and stated that a smart city uses information and communication technology (ICT) to improve operational efficiency, share information with the public and provides



a better quality of government service and citizen welfare with confident and progressive city plans. The deliberation mentioned best smart cities across the globe and the speakers opined that management, government policies, and leadership would play a key role in smart city programs. The speakers stated the objective of Smart Cities Mission is to promote cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. Smart city is envisaged to have four pillars, Social Infrastructure, Physical Infrastructure, Institutional Infrastructure including Governance and Economic Infrastructure. The intelligent Smart city infrastructure utilize cognitive technologies, including AI and machine learning, to study the continuous interactions of the citizens and their surroundings. It is all about using technology and data purposefully to make better decisions and deliver a better quality of life. The core infrastructure elements in a Smart City would include: Adequate Water Supply; Assured Electricity Supply; Sanitation including Solid Waste Management; Efficient Urban Mobility and Public Transport; Affordable housing; Robust IT connectivity and digitization.

IEI Technical Webinar under the aegis of Mechanical Engineering Division Board

Customization holds the Key to avoid Bumpy Transition to Net Zero

West Bengal State Centre, IEI organized Technical Webinar on the theme **Customization holds the Key to avoid Bumpy Transition to Net Zero** on 26 July 2022 under the aegis of Mechanical Engineering Division. Theme Speaker, Mr Partha Sarathi Bhattacharyya, Former Chairman, Coal India Limited in his address outlined that climate change menace is a reality,



Mr Partha Sarathi
Bhattacharyya

which leads to unprecedented floods, heat waves and stressed that GHG emission, unless controlled, would lead to irreversible damage to the planet. He stressed that countries like India is at the cross roads of energy security and control on global warming. He also mentioned that per capita energy consumption of this country is far too low than the global average. While a prescription to get a control on GHG emissions is required to phase out use of coal and accelerate renewables, solar all across the globe, India is not an exception. He mentioned that dependence on coal is a reality for this country if India aims to increase energy consumption by even a modest margin. The industry is working on the increase of efficiency of power plant equipment that will definitely reduce use of coal, he mentioned. Stress on exponential increase of renewable power would not be able to meet the energy demand of this country even if we consider a modest increase to 3000 units from present 1200 multiplied by 1.4 billion population, he stressed. In his presentation, he continued to put forward the argument of dependence on coal for India from all angles and stressed that any uneven transition would lead to bumps and cautioned that such bumps would affect the marginalized poor of this country. Mr Bhaskar Dutta, Business Consultant & Vice President (Retd), Thyssenkrupp Industries, and



Mr Bhaskar Dutta

Convenor, Mechanical Engineering Division, West Bengal State Centre, IEI briefed about the theme. In his address, Mr Dutta emphasized upon the need of formulating the energy transition policy based on dynamics of respective countries and economies, and mentioned for a country like India, formulation of the transition policy requires deep focus on the growing per capita energy consumption, in which coal based generation of energy would still play a vital role. He also introduced the theme



Mr Anirban Datta

speaker. Moderator of the event, Mr Anirban Datta, Chief Technology Officer, MESICIA Engineers and Joint Honorary Secretary, West Bengal State Centre, IEI, while summing up the deliberation, focused on two of the key take away points mentioned by the theme speaker, first of which is higher freight charge of Indian coal compared to other countries, and the next is the prevalent pricing policy of Coal India Limited, in which higher grade coal have lower price and lower grade coal have higher price, in terms of useful available energy. He also requested the theme Speaker to emphasize upon the policy for gasification of coal through gasifier route and using the gasifier output gas as fuel to industrial furnaces, e.g. producer gas in ferrous & non-ferrous sectors, and generation of brown hydrogen.

Earlier, Dr Nirmal Das, Chairman, West Bengal State Centre, IEI welcomed the theme speaker, dignitaries and the participants. Dr Enti Ranga Reddy, Chairman, Mechanical Engineering Division Board, IEI in his address stressed the need to ensure access to energy for all for improved quality of life and for economic development. It is therefore critically important to address climate change as part of the sustainable development agenda, he added. Moderator of the webinar, Mr Anirban Datta summed up the proceedings of deliberations at the end of the session. Prof (Dr) Raju Basak, Honorary Secretary, West Bengal State Centre, IEI proposed the vote of thanks.

Developing Aerospace Manufacturing Industry in UP

Uttar Pradesh State Centre, IEI organized One day Seminar on the theme **Developing Aerospace Manufacturing Industry in UP** on 11 September 2022 under the aegis of Aerospace Engineering Division Board (ASDB), IEI



at Lucknow. The Seminar aimed to provide a forum for the industry leaders to share their views and expertise for the smooth growth of the aerospace manufacturing industry in Uttar Pradesh. The Seminar was attended by the members of various organizations, industries, and institutions, connected and involved in aerospace activities. The Seminar was inaugurated by Shri Arvind Kumar, Industrial Development Commissioner and Additional Chief Secretary to the Government of Uttar Pradesh. In his address, he mentioned the UP Government policies and initiatives to attract the defense sector manufacturing industry and especially talked about the upcoming Brahmos missile manufacturing plant at Lucknow, the development of drones by IIT Kanpur, plans for MROs, DRDOs Defense Technology and Test Center at Lucknow, Adani Defense plant at Kanpur, and the creation of R&D ecosystem in UP. The Keynote address was delivered by Shri C Venugopal, General Manager (Design), HAL Lucknow. He talked about various present and future projects at HAL, obsolescence, and indigenization requirements during the life cycle of an aircraft. He also spoke about the systems and

accessories of the aircraft and the requirements for spares, materials, and consumables for maintenance, repair, and overhaul.

In the Technical session, Shri Sachin Agarwal, Managing Director, PTC Industries, Lucknow, talked about the high-tech casting and testing facilities available at PTC Industries. He added that they are supplying castings to leading aerospace organizations around the world, and are also supplying to the Foundry & Forge Division of HAL. Shri Ravi Prakash, Chief of Planning, HAL Lucknow, spoke about the range of accessories being produced, repaired, and overhauled at HAL Lucknow. He also discussed the range of parts required to be indigenized for these units and some success stories. Shri Anil Singh AGM (Planning) Transport Division – HAL Kanpur, briefed the guests about the current projects at HAL Kanpur, and the road map for indigenization.

Shri Krishna Kunal, Chief Manager (Indigenization) Accessories Division, HAL, Korwa, talked about the product range, success stories, and indigenization opportunities for Korwa range of products. Shri Vinod Kumar, Regional Director, RCMA, Lucknow, CEMILAC, DRDO talked about the DDPMAS, which is the guiding book for indigenization and certification of units, parts, and materials for use in aerospace industry. Shri Shahbaj Ulum, Scientist G (Retd), RCMA Lucknow, spoke about the supportive systems to speed up the indigenization process. A Panel Discussion with a question-answer session was also organized to facilitate interaction among various stakeholders. The Additional Chief Secretary to the Government of Uttar Pradesh was present in the Panel Discussion and answered several queries raised by the panelists as well as other guests. Earlier Er Masarrat Noor Khan, Chairman, UP State Centre, IEI welcomed the guests. On this occasion, Er V B Singh, Vice President, IEI, Er R K Trivedi, Past Chairman, UP State Centre, IEI and large numbers audience were present. In the end Dr Jaswant Singh, Honorary Secretary, UP State Centre, IEI proposed the vote of thanks.

All India Seminar under the aegis of Interdisciplinary Coordination Committee

Emerging Trends in Engineering and Technology & Annual Technical Paper Meet 2022

Pune Local Centre, IEI organized All India Seminar on the theme **Emerging Trends in Engineering and Technology** during 15-16 October, 2022 under the aegis of Interdisciplinary Coordination Committee (ICC), IEI. An **Annual Technical Paper Meet** was also organized, where the engineering professionals, research scholars and academicians presented their papers and a Technical Volume was also published on the occasion. At the



beginning, Prof D G Patil, Convenor & Prof Ajit Gedam, Co-convenor of the Seminar welcomed the dignitaries & audience and briefed about the theme of the Seminar and Annual Technical Paper Meet 2022. Dr Sanjay Bhaskar Zope, Chairman, Pune Local Centre, IEI welcomed the Chief Guest, Keynote Speaker and other dignitaries on and off the dais. Er Jaideep N. Malviya, MD, Malviya Solar Energy Consultancy and Board Director of International Solar Energy Society graced the function as Chief Guest. In his address, Er Malviya spoke about the emerging technologies in energy sector, particularly about solar energy and renewable energy and their importance

in global scenario & its relevance to Indian engineers & technocrats. Keynote Speaker of the event Er Prakash Medhekar, Chartered Engineer delivered address on the theme, 'Emerging Trends in Engineering & Technology'. In his lecture, he had covered application of artificial intelligence in Civil Engineering, particularly in concrete technology. The speaker mentioned that construction industry is the second largest industry in our country next to agricultural industry, which has grown fast and has taken a major role in building up national economy. Er Medhekar in his speech highlighted on Green Building construction to reduce or eliminate the negative impacts on climate and natural environment and mentioned that Green Building preserves the precious natural resources and has the ability to improve the quality of life.

During the technical sessions, papers were presented on diversified topics, namely; Understanding Smart Grids – Architecture, Control & Operation; AI ML Approach for Performance Optimization of Solar PV System; Computational Analysis of GWO, PSO and Fuzzy Optimization used for Controlling Water Level in Pharmaceutical Bulk Drug Industries; Studies on Preconcentration of Strategic Minerals containing Traces of Niobium and Tantalum; Finite Element Analysis of Exponential Functionally Graded Sandwich Plates; Parametric Study of Pre Engg. Building with Special Performance Enhancement of Concrete by Graphene as an Additive; Fatigue analysis of high speed Railway sleepers using ANSYS; Best Practice in Metro Rail Projects – Global Perspective; High Rise Building with Composite

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Recent Trends and Career Opportunities in Textile Designing



Coimbatore Local Centre, IEI organized One Day Seminar on the theme **Recent Trends and Career Opportunities in Textile Designing** on 08 October 2022 under the aegis of Textile Engineering Division Board (TXDB), IEI in Coimbatore. Chief Guest of the function, Mr P Chandrasekhar, Chief Merchandise Officer - Product Strategist, Switcher, Coimbatore, in his talk, mentioned about learning and updating the knowledge of textile and garment designing software. He delivered his presentation on the topic 'Career Opportunities in Designing' and emphasized that students should improve their confidence level, development ability and concentrate on improving

their skills. He also highlighted the job opportunities and competition in the textile and garment designing industry. Mr Kumaraguru Kasinathan, Assistant Professor, Department of Textile Design, NIFT, Chennai delivered lecture on 'Fashion Forecasting and Visual Merchandising' and spoke about the importance of fashion forecasting, trend forecasting businesses and consumer research. He also explained colour forecasting, sales forecasting and cultural indicators. He provided a demo about the fashion visual merchandising highlighting the product's features and its benefits. He further opined that various brands, designers and buyers play a major role in fashion visual merchandising. Mr T Pugazhenth, Assistant Professor, Department of Textile Design, NIFT, Chennai delivered lecture on the topic 'Dobby and Jacquard Design'. He spoke about the textile CAD and CAM and gave an overview of different textile CAD applications used in the industry. He demonstrated on creating simple check, stripe, Dobby Designs (Extra Warp and Extra Weft Techniques), Jacquard Designs (Damask and Double cloth) and Printed Design. Dr R Ramachandran, Professor, Department of Fashion Technology, PSG College of Technology, Coimbatore, spoke on 'Digital Designing' and highlighted the importance of digitalization in textile & fashion designing. He also explained the importance of digitalization in human anthropometry and provided a demo in 3-D virtual simulations. Dr J Krishnamoorthi, Honorary Secretary, Coimbatore Local Centre, IEI proposed the vote of thanks.

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Division was presented to Dr (Ms) Divya Agrawal, Principal Scientist, CSIR-Central Scientific Instruments Organisation, Chandigarh and Dr Sreehari V M, Associate Professor, Department of Aerospace Engineering, School of Mechanical Engineering, SASTRA Deemed to be University, Thanjavur, Tamil Nadu. For the year 2022-23, the Award was presented to Dr Mathavaraj S, Scientist, Flight Dynamics Group, U R Rao Satellite Center, Vimanapura, Bengaluru, Karnataka. The soft copy of the Souvenir was released on the dais. Mr Swinder Singh, Honorary Secretary, Punjab & Chandigarh State Centre (Session 2022-24) proposed the vote of thanks.

Dr N Sivasubramanian, Member, ASDB delivered State of Art Lecture on the topic 'Special Materials in Aerospace Systems' and discussed on latest development of smart materials. Special invitee of the function, Mr Harsha, Lead Engineer from Boeing India explained latest techniques in additive manufacturing, where full system integrated with sensors can be built. The Keynote address was delivered by Mr Jitendra Singh, Flight Test Engineer. A Panel Discussion was organized on the occasion on the topic 'Future of Aerospace Engineering', in the august presence of Chairman, ASDB, eminent engineers and speakers. Prof (Dr) T S Kamal, Past Vice President, IEI delivered a lecture in memory of Dr Satish Dhawan. Rear Admiral Deepak Bansal delivered lecture in the memory of Air Marshal Harjinder Singh.

During technical sessions, papers were presented on diversified topics, which include; Configuring Kinetic Energy Penetrators for Optimal Penetration after Precision Hit; Usage of Drones As a Resilience Tool Using Deep Learning; Conceptual Sizing of a Solar Powered Martian Airship; Stress-Strain Response of Kevlar Fabric Reinforced Rubberized Textile Composite under Uniaxial Tensile Mode; Technology Readiness: An Indian Snapshot of Advanced Composites and the Frontiers for Development in Strategic Applications; Numerical Simulation of High Performance Textile

Composite Laminates to Validate and Predict the Tensile Performance; Validation of Conceptual Design Tools for Military Fighter Aircraft; Effect of Cylindrical Protrusion on Supersonic Launch Vehicles; A Review Study on Proposed Methods for Space Debris Removal; Static and Dynamic Analysis using NURBS-based Isogeometric Approach of Composite Plates under Hygrothermal environment; Modeling of Super Elastic Shape Memory Alloy Wire Using Hammerstein Winer System Identification Approach; Evaluation of Surface Topography of Additively Manufactured Carbon Fiber Composites; Synchronization Control for Spacecraft Formation Flight; Validation and Sensitivity analysis of a Rotary Wing UAV for Martian Exploration; Design of Ground Handling System for Tethered Aerostats; Kinetics of Swelling of a Spherical Gel; Thermally Induced Natural Vibration of FG-porous Plates Reinforced with Graphene Nanoplatelets; Modeling of Magneto Caloric effect in Magnetic Shape Memory Alloys; Nugget Zone Characterization of Friction Stir Welded A7075/ZrB₂ In Situ Composites; Linear Thermal Bending Analysis of Functionally Graded Square Plate under Different Boundary Conditions and Geometric Effects etc.

The recommendations emanated from the technical session are as follows.

Industry Academia interaction should be more intense in the field of materials engineering; Avionics Systems should take a significant place in the academic curriculum; There should be blending of the institute, industry and user for proper technology and product development; The emphasis should be given to the product development as compared to the publications; The students and researchers should be motivated to take of cutting edge material research; The academic institutions must have industry centers on their campus.

The event was well attended by the personnel from industry, R&D, academia and other stakeholders.

Emerging Trends in Engineering and Technology & Annual Technical Paper Meet 2022

Contd. from page 5

Columns; Estimation of hydrodynamic pressures on submersible bridges using Computational Fluid Dynamics; Design of Foot Over Bridge using Cold formed Light Gauge Section by Staad Pro and comparison with Hot Rolled Steel Section; Optimal Reservoir Water Release Policy for the Seasonal Water Yield Reservoir; Mechanical Stabilization of Marline Clag; Use of Green Technology & Sustainable Development in Engineering and Technology; Restructuring of Development Plan Preparation & Implementation Process with Quality Function Deployment (QFD) Approach; Arduino Based Gas Leakage Detector; Spy Satellites: Study of Electromagnetic Spectrum, Radars, SAR Algorithm, Signals Intelligence; A Deeper Study into the Main Components of Internet of Things, how Blockchain Technology can solve the Inherent Issues, and Proposals to Improve adoption of IoT Technology; Detection of Drowning by Video Based and Sensor Based Rescue Systems; Preserving Privacy & Maintaining Security for Shared Data Over Public Cloud; Smart Poultry Management System Based on Internet of Things

Using Artificial Intelligence and Image Processing; A Hybrid Optimization Approach for Pulmonary Nodules Segmentation and Classification using Deep CNN; Solid Oxide Fuel Cells in Power Generation & its Applications in High Altitude Area : An Overview; Application of IoT in The Automotive Industry for Quality Improvement; Fabrication Process And Matlab Simulation For Nanostructured Thin Film Solid Oxide Fuel Cell- A Review; A Review of hybrid Electrical vehicle for Energy optimization Techniques with the Study of BLDC Motor Frequency and RMS Current Relationship for Predicting the Real –time Demanded Torque and Speed etc.

Chief Guest In Valedictory Function was Dr Ashok More, Expert in Civil Engineering Field. In his Valedictory address, Dr More summed up various issues and their remedies, particularly in the field of civil engineering. He further addressed about the environmental aspects, particularly the pollution issues etc. Prof (Dr) Girish Shrikisan Mundada, Council Member, IEI chaired over the function. Mr Vipin Vasantlal Munot, Honorary Secretary, Pune Local Centre proposed the vote of thanks.



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 January 2023

Sl. No.	Name of the Course	Scheduled Dates
1.	Mechanical Testing of materials	02 – 04 Jan
2.	Pollution prevention plan and management of Environment towards Industries	03 – 05 Jan
3.	Vibrations, Balancing, Alignment and Condition Monitoring of Rotating Machinery	03 – 05 Jan
4.	Web Application Penetration Testing and Web Security	04 – 06 Jan
5.	Power Distribution Reforms - Issues of Open Access - Power Exchange	04 – 06 Jan
6.	NBA – SAR Filling preparedness for Assessment	04 – 06 Jan
7.	National Action Plan on Climate Change – Gol Missions	09 – 11 Jan
8.	Insurance and Risk Management in Power Utilities	09 – 11 Jan
9.	Satellite based property mapping in Urban Local Bodies	09 – 11 Jan
10.	Network & Security Administration	09 – 13 Jan
11.	Hazardous Waste Management & Prevention	16 – 17 Jan
12.	Value Engineering for Manufacturing Areas	16 – 18 Jan
13.	Implementation of IoT in Transmission & Distribution	17 – 19 Jan
14.	Planning, Design, Construction and O&M of Lift Irrigation Schemes	17 – 20 Jan
15.	DevOps Tools and Practices for Software Development	17 – 20 Jan
16.	Advanced Intelligent Transportation System applications for Highways	18 – 20 Jan
17.	Root cause analysis and defect prevention methods and techniques in automobile, aerospace and naval applications	18 – 20 Jan
18.	Design and Optimization of Mineral Conveying Systems & Mineral Handling Plants	18 – 20 Jan
19.	ISO 9001 : 2015 QMS – Effective Implementation & Internal Auditor Training	18 – 20 Jan
20.	Plastic waste management	23 Jan
21.	Circular economy - Conservation of natural resources in construction and O&M	23 – 25 Jan
22.	CERC Regulations Including Tariff Regulations	23 – 25 Jan
23.	Power Trading, Power Exchanges & Merchant Power Plants	31 Jan – 03 Feb

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@esci.org / URL : <https://esci.org>

IEI Celebrates World Standards Day



Theme

A Shared Vision for a Better World

The World Standards Day was celebrated by the Institution on October 14, 2022. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Delhi



Delhi State Centre, IEI observed World Standards Day 2022 on 14 October 2022 at New Delhi. Chief Guest of the event was Mr N K Kansara, Former Deputy Director General, Bureau of Indian Standards. Mr Pradeep Chaturvedi, the then Chairman, Emerging

Technology Task Force, IEI was the Guest of Honour on the occasion. The program was started with the welcome speech delivered by Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI. Mr Kansara spoke on the Sustainable Development Goals (SDGs), which project the social imbalances, develop a sustainable economy and slow rate of climate change. Mr Pradeep Chaturvedi, stated that Standards in conformity assessment activities are inextricably linked to all facets of business. He opined that standardization and assessment activities lead to lower costs by reducing redundancy, minimizing errors and reducing time to market. Mr Rajesh, Honorary Secretary, Delhi State Centre, IEI proposed the vote of thanks.

Karnataka

Karnataka State Centre, IEI observed World Standards Day 2022 on 14 October 2022 through virtual mode. Speaker of the event, Dr Amarnath C B, Co Chair, Digitalization of Construction Project Management and Bureau of Indian Standards discussed about the challenges faced by Indian construction industry, which include cumbersome project management processes, quality control issues etc. Earlier, Dr Enti Ranga Reddy, Honorary Secretary, Karnataka State Centre, IEI welcomed the speaker, guests, and other dignitaries. At the end, Dr Govindaraju T V, Committee Member, Karnataka State Centre, IEI proposed the vote of thanks.

Tripura

Tripura State Centre, IEI observed World Standards Day 2022 on 14 October 2022 at Agartala. Special Speakers of the event, Mr Sabyasachi Dhar, Director, Bureau of Indian Standards, Guwahati delivered lecture online and Mr Susanta Dutta, Former Deputy Secretary, Public Works Department, Tripura delivered lecture in person. Er C Debnath, President (Elect), IEI presided over the programme. Dr Subhadeep Bhattacharjee, Honorary Secretary, Tripura State Centre, IEI delivered the welcome address.



Uttar Pradesh

Uttar Pradesh State Centre, IEI observed World Standard Day 2022 on 14 October 2022 at Lucknow. Chief Guest of the event, Mr Mohammad Rizwan, Joint Director, Indian Standards Institute discussed briefed about the history

of World Standards Day and added that the aim of the Day is to raise public awareness regarding the need for global standardization of products. Earlier, Mr Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI delivered the welcome address. Mr V B Singh, Vice President, IEI was present on the occasion. Mr R K Trivedi, Immediate Past Chairman, UP State Centre was the convener of the session. At the end, Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI proposed the vote of thanks.



LOCAL CENTRES

Belagavi

Belagavi Local Centre, IEI observed World Standards Day 2022 on 15 October 2022 at Belagavi. Speaker of the event, Mr Vasant Pattar, Founder & CEO, Yashaswini Consultants,



Belagavi explained the importance of standards and its development to the august gathering. He explained ISO and other practices as the benchmarks to indicate the quality of the product and

services including TQM, TPM, Kaizen, Lean Six Sigma etc. He opined that the standards make the every one's life simple and productive. At the end, Dr Devendrappa Kenchakkanavar Veeranna, Honorary Secretary, Belagavi Local Centre, IEI proposed the vote of thanks.

Coimbatore

Coimbatore Local Centre, IEI observed World Standards Day 2022 in association with Department of Metallurgical Engineering, PSG College of Technology, Coimbatore and The Indian Institute of Metals (IIM), Coimbatore Chapter on 27 October 2022 at Coimbatore. On



the occasion, Dr K Asok Kumar, Former Additional General Manager, Welding Research Institute (WRI), Bharat Heavy Electrical Limited (BHEL), Tiruchirappalli delivered lecture on the topic 'Standards for Welding and Quality Engineering' and explained about the importance of standards in real life and discussed the role of standards in various engineering industries across the world. Earlier, Dr J Krishnamoorthi, Honorary Secretary, Coimbatore Local Centre, IEI welcomed the gatherings.

Dharwad

Dharwad Local Centre, IEI observed World Standards Day 2022 on 14 October 2022 at Dharwad. Chief Guest of the event, Mr Mukesh Choudhary,



Senior Manager, Customer QA and QMS, Tata Hitachi, Dharwad discussed on the first observation of World Standards Day, International Organization for Standardization (ISO) and

more than 22700 published standards for business. He explained further on environmental management system, quality management principles, process approach etc. Earlier, Mr Vijaykumar Hanamantappa Totiger, Chairman, Dharwad

Local Centre, IEI welcomed all. At the end, Mr Sidlingappa Sangappa Kerur, Honorary Secretary, Dharwad Local Centre, IEI proposed the vote of thanks.

Ghaziabad

Ghaziabad Local Centre, IEI observed World Standards Day 2022 on 14 October 2022 at Ghaziabad. Chief Guest and Keynote Speaker of the event, Dr Arindam Basu, Director General, NITRA, Chairman, Textile Division, BIS, New Delhi and Chairman, Technical Committee for Textile Industry, BEE broadly explained the BIS Act 2016, which came into existence in December 1986. He explained the standards for covering goods and systems under the standardization regime and added that under the Act, BIS has been identified as the National Standards Body of India and regulated under the Ministry of Consumer Affairs, Food & Public Distribution and Government of India. Mr R R Tanwar, Council Member, IEI requested the corporate members to boost up the membership drive by organizing more workshops, seminars, etc. Earlier, Mr M K Agarwal, Past Chairman, Ghaziabad Local Centre, IEI briefed on the theme. At the end, Mr Ashok Kumar, Honorary Secretary, Ghaziabad Local Centre, IEI proposed the vote of thanks.



is getting more digital, International Standards can simplify the things. Speaker of the event, Prof B P Suneja, Former Professor, Rajasthan Technical University, Kota delivered lecture on the theme and discussed about the importance of standards. Earlier, Mr Devendra Kumar Bhargava, Chairman, Kota Local Centre, IEI welcomed the members and the guests. At the end, Mr Shyam Lal Gupta, Honorary Secretary, Kota Local Centre, IEI proposed the vote of thanks.

Madurai

Madurai Local Centre, IEI observed World Standards Day 2022 and Dr A P J Abdul Kalam's Birthday on 15 October 2022 at Madurai. Chief Guest of the event, Mr V Ramesh, Scientist-D (Joint Director), Bureau of Indian Standards, Madurai Branch Office delivered lecture on the topic 'Overview, Roles and Responsibilities of BIS and Hall Marking Gold'. Dr R Raja Govindasamy, Former Principal, Thiagarajar College, Madurai and Former Director, Manner Thirumalai Naicker College, Madurai delivered lecture on 'A P J Abdul Kalam Architecture'. Earlier, Dr N Sivasubramanian, Chairman, Madurai Local Centre delivered the welcome address. At the end, Prof (Dr) P Udhaya Kumar, Honorary Secretary, Madurai Local Centre, IEI proposed the vote of thanks.



Gorakhpur

Gorakhpur Local Centre, IEI observed World Standards Day 2022 in association with MMM University of Technology, Gorakhpur on 14 October 2022 at Gorakhpur. Hon'ble Vice Chancellor, MMM University of Technology, Gorakhpur explained the importance of international standard organization and deliberated on International quality code. Dr Rakesh Kumar, Professor, Computer Science and Engineering, MMM University of Technology, Gorakhpur delivered lecture on 'Edge Computing: An Emerging Paradigm for Internet of Things Applications'. Mr Rizwan Ahamad, Joint Director/Scientist D, Bureau of Indian Standards, Lucknow branch discussed about the weight and measure technologies in domestic life. Dr Govind Pandey, Professor and Dean, Planning and Infrastructure, MMM University of Technology, Gorakhpur discussed on NBC. Mr M W Beg, Past Chairman, Gorakhpur Local Centre, IEI explained API, PESO, OISD, TPM standards. Earlier, Mr Dharendra Chaturvedi, Chairman, Gorakhpur Local Centre, IEI welcomed all. Mr Ved Prakash Gupta, Honorary Secretary, Gorakhpur Local Centre, IEI introduced the speakers and at the end, proposed the vote of thanks.



Meerut

Meerut Local Centre, IEI observed World Standards Day 2022 on 15 October 2022 in online mode. A webinar was organized on this occasion. Keynote Speaker of the event, Mr Ajay Maurya, Scientist C and Deputy Director, Bureau of Indian Standards, Chandigarh discussed the activities of BIS regarding standardization, conformity, assessment, training, consumer protection, etc. He mentioned that the leading international standards setting bodies like ISO, IEC and ITO formulating standards for the best practices, and stressed on wide acceptability of the standards. Earlier, Mr Mohan Lal Jain, Chairman, Meerut Local Centre, IEI delivered the welcome address. At the end, Mr Raj Pal Agarwal, Honorary Secretary, Meerut Local Centre, IEI proposed the vote of thanks.

Pune

Pune Local Centre, IEI observed World Standards Day 2022 in association with National Skill Development Forum, IEI on 14 October 2022 online. Dr Sanjay Bhaskar Zope, Chairman, Pune Local Centre, IEI; Mr Pankaj Dadwal, Chairman, BoG-NSDF and Mr Vishwa Mohan Joshi, Director, NSDF welcomed the virtual audience. Guest Speaker of the event, Mr Arunkumar Saravanan, Director and Head, Civil Engineering Department, BIS mentioned that the level of urbanization throw the challenges in terms of high demand on energy transport building including housing, roads, water supply and sanitation, health care, education including ecological footprint. At the end, Mr Vipin Vasantlal Munot, Honorary Secretary, Pune Local Centre, IEI proposed the vote of thanks.

Sunabeda

Sunabeda Local Centre, IEI observed World Standards Day 2022 on 14 October 2022 at Sunabeda. Chief Speaker of the event, Mr Arabinda Swamy, Chairman, Sunabeda Local Centre, IEI discussed briefly about the needs of various standards and how it is inevitable for the fast growing world. Mr Babrubahan Sahu, Honorary Secretary, Sunabeda Local Centre, IEI discussed about the history and the evolution of various standards in the world.



Trichur

Trichur Local Centre, IEI observed World Standards Day 2022 in association with Kochi Local Centre, IEI on 14 October 2022 online. Speaker of the event, Ms Madhurima Madhav, Joint Director/Scientist-D (Civil Engineering), Bureau of Indian Standards (BIS), New Delhi stressed to educate consumers, policymakers and business owners about the value of standardization. She highlighted the importance of standards in all aspects of engineering industry, awareness of the value of standardization in the interconnected world, required for resolving technical issues. Earlier, Prof Sunil Kumar C P, Chairman, Trichur Local Centre, IEI delivered the welcome speech and briefed about the significance of the Day.

Kochi

Kochi Local Centre, IEI observed World Standards Day 2022 on 14 October 2022 through online mode. A webinar was organized along with Trichur and Palghat Local Centres on this occasion. Mr Salahudheen P A, Chairman, Kochi Local Centre, IEI delivered the welcome address; Prof Sunil Kumar C P, Chairman, Trichur Local Centre, IEI introduced the subject topic and Mr Madhana Mohan K, Chairman, Palghat Local Centre, IEI spoke on the occasion. Speaker of the event, Dr G Madhu, Convenor, Technical Activities, Kochi Local Centre and Professor CUSAT explained the theme of the Day and spoke on the topic of the webinar 'Sustainability in Building and Built environment'. The speaker emphasized the needs of standards in technological advancement in general, explained the role of BIS in the development of standards and elaborated the NBC 2016 for safety of the building as well as safety of the construction. At the end, Mr Babu K S, Honorary Secretary, Kochi Local Centre, IEI proposed the vote of thanks.

Kota

Kota Local Centre, IEI observed World Standards Day 2022 on 14 October 2022 at Kota. Chief Guest of the event, Mr M C Sharma Former Superintending Engineer, Water Resources Department, Government of Rajasthan stated that when world



IEI Celebrates World Habitat Day

Theme

Mind the Gap. Leave No One and Place Behind

The World Habitat Day was celebrated by the Institution on October 3, 2022. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Delhi



Delhi State Centre, IEI observed World Habitat Day 2022 on 03 October 2022 at New Delhi. Chief Guest of the event, Mr Sanjay Pant, Deputy Director General (Standardization), Bureau of Indian Standards discussed about the growing inequalities, vulnerabilities, that have been exacerbated by the triple C crises, namely COVID 19, climate and conflict. He stressed that cities and local governments play the vital role in responding to crises and planning for resilient and green future and urged that implementation of sustainable development goals is much important than ever. Earlier, Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI delivered the welcome address and discussed the importance of the day and stressed on collective responsibility for the habitat of future generations. Mr Rajesh, Honorary Secretary, Delhi State Centre, IEI proposed the vote of thanks.

Tripura

Tripura State Centre, IEI observed World Habitat Day 2022 on 28 September 2022 at Agartala. Special Speakers of the event, Mr Kapil Baran Bhowmik, Assistant General Manager (Projects), HUDCO, Guwahati delivered lecture online and Mr Mihir Kanti Gop, Chief Planner, Tripura Urban Planning and Development Authority, Agartala delivered a presentation. Er C Debnath, President (Elect), IEI presided over the programme. Dr Subhadeep Bhattacharjee, Honorary Secretary, Tripura State Centre, IEI delivered the welcome address.



Uttar Pradesh

Uttar Pradesh State Centre, IEI observed World Habitat Day 2022 on 03 October 2022 at Lucknow. Chief Guest of the event, Dr (Mrs) Vandana Sehgal, Dean, Faculty of Architecture, Dr A P J Abdul Kalam Technical University (AKTU), Lucknow discussed on the problem of inequalities and vulnerabilities in the world and said that the local governments plays an important role towards resilient and green future. Mr V B Singh, Vice President, IEI addressed the gathering and explained briefly about the



importance of World Habitat Day. Earlier, Mr Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI welcomed the guests and dignitaries. At the end, Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI proposed the vote of thanks.

LOCAL CENTRES

Bareilly

Bareilly Local Centre, IEI observed World Habitat Day 2022 on 03 October 2022 at Bareilly. Mr Mahendra Kumar Agarwal, Honorary Secretary, Bareilly Local Centre, IEI delivered the welcome address. Mr Sudhir Kumar Gupta, Chairman, Bareilly Local Centre, IEI spoke on the theme. Speakers of the event were Mr H C Gupta, VC Tata Chemicals Babrala Plant, UP; Mr Raj Goel, Director, The Novarch Architects & Planners, Senior Structural Engineer, Delhi and Bareilly; and Mr Navneet Agarwal, Director, M/s Rohilakhand Automobile Private Limited & KIA Motors car Dealer. At the end, Mr Mahendra Kumar Agarwal, Honorary Secretary, Bareilly Local Centre, IEI proposed the vote of thanks.



Dharwad

Dharwad Local Centre, IEI observed World Habitat Day 2022 on 07 October 2022 at Dharwad. Chief Guest of the event was Mr M Nagaraj, Former Executive Engineer, KPWD, and Council Member, IEI. Mr Suresh Hebilkar, a noted environmentalist stated that due to setting up of new industries and allied activities, the aquatic life forms in the lakes and other water bodies are damaged. He called upon to take part in restoring the environment and also save every drop of water which is precious. Earlier, Mr Vijaykumar Hanamantappa Totiger, Chairman, Dharwad Local Centre, IEI presided over the function and delivered presidential address. At the end, Dr K N Patil, on behalf of Dharwad Local Centre, IEI proposed the vote of thanks.



Ghaziabad

Ghaziabad Local Centre, IEI observed World Habitat Day 2022 on 03 October 2022 at Ghaziabad. Chief Guest of the event, Mr Sabha Kant Shukla, Former Director (Tech), THDC India Ltd (GOIU) explained that human beings are using land surface, water bodies and



air space for habitation and increased human population leads to shortage of natural resources, imbalance of harmonic living of humans as well as the entire eco system. Special Invitee and Guest Speaker of the event was Dr Arindam Basu, Director General, NITRA. Guest of Honour and Keynote speaker of the event, Mr Rakesh Khare, Former Executive Director, THDC India Ltd (GOIU) spoke on first observation of the Day and explained the problems of growing inequality and challenges among the human beings. Mr R R Tanwar, Council Member, IEI requested the Corporate Members to take initiatives for membership drive. At the end, Mr Ashok Kumar, Honorary Secretary, Ghaziabad Local Centre, IEI proposed the vote of thanks.

Indore

Indore Local Centre, IEI observed World Habitat Day 2022 on 27 November 2022 at Indore. Guest Speaker, Mr Ashish Singhal, a Professional Speaker on Soft Skills and Concrete Technologies Consultant discussed the importance of habitation and how the countries are facing challenge of migrations. Earlier, Mr Rajendra Prasad Gautam, Chairman, Indore Local Centre, IEI welcomed the dignitaries, speakers and briefed about the theme. At the end, Mr Deepak S Shah, on behalf of Indore Local Centre, IEI proposed the vote of thanks.



Kanyakumari

Kanyakumari Local Centre, IEI observed World Habitat Day 2022 in association with St Xavier's Catholic College of Engineering, Nagercoil on 10 October 2022 at Nagercoil. Chief Guest of the function, Mr Anand Mohan, IAS, Commissioner, Nagercoil Corporation, said that the basic nature of urbanisation is competition for resources and expressed his concern about the future space crunch for livelihood. Earlier, Dr S Arumuga Perumal, Chairman, Kanyakumari Local Centre, IEI delivered the welcome address and explained about the theme for growing inequalities and vulnerabilities during Covid-19. At the end, Mr S Natarajan, Honorary Secretary, Kanyakumari Local Centre, IEI proposed the vote of thanks.



Palghat

Palghat Local Centre, IEI observed World Habitat Day 2022 on 07 October 2022 at Palakkad. Guest Speaker of the event, Dr Praseeda KI, Assistant Professor, Department of Civil Engineering, NSS College of Engineering, Palakkad in his address stated that the people in cities are facing inequality and challenges in the society. Earlier, Mr Madhana Mohan K, Chairman, Palghat Local Centre, IEI welcomed all and mentioned that by the year 2050 the habitat problem is likely to increase both in urban and rural areas and focus on population by minding the existing gap and no one will be left behind either in urban area or rural area for promoting housing accommodation for all. At the end, Prof (Dr) C Pradip, Honorary Secretary, Palghat Local Centre, IEI proposed the vote of thanks.



Pune

Pune Local Centre, IEI observed World Habitat Day 2022 in association with Maharashtra State Centre, IEI on 07 October 2022 through online mode.

The program started with the welcome address delivered by Dr Sanjay Bhaskar Zope, Chairman, Pune Local Centre, IEI. Chief Guest of the event, Ms Rajalakshmi Iyer, Principal Designer, Deeproots Design spoke about the need for adequate, affordable and comfortable housing for all. Mr Vijay Chandrakant Kamble, Honorary Secretary, Maharashtra State Centre, IEI proposed the vote of thanks.

Saurashtra


Saurashtra Local Centre, IEI observed World Habitat Day 2022 in association with Shri Labhubhai Trivedi Institute of Engineering and Technology, Rajkot on 03 October 2022 at Rajkot. An expert talk cum Seminar was organized on this occasion. Speaker of the event, Dr Dharmesh Sur, Associate Professor, Chemical Engineering Department, Marwadi University, Rajkot spoke on the theme, highlighted the purpose to observe the Day, global housing crises, and focus areas that we need to address. Earlier, Mr Deepak V Suchde, on behalf of Saurashtra Local Centre, IEI, Rajkot delivered welcome address and introduced the speaker. At the end, Mr B V Harsoda, Honorary Secretary, Saurashtra Local Centre, IEI proposed the vote of thanks.



Sunabeda

Sunabeda Local Centre, IEI observed World Habitat Day 2022 on 03 October 2022 at Sunabeda. Chief Speaker of the event, Mr Sunil Kumar Biswal, Past Honorary Secretary, Sunabeda Local Centre, IEI discussed about the climate and habitat change and the needs of the people. Mr Babrubahan Sahu, Honorary Secretary, Sunabeda Local Centre, IEI emphasized the importance of the Day and highlighted on the theme.







The Institution of Engineers (India)

A Century of Service to the Nation

Celebrates

World Engineering Day for Sustainable Development

March 4, 2023

Theme:

Engineering Innovation for a more Resilient World

IEI Celebrates

55th Engineers' Day

Smart Engineering for a Better World

The 55th Engineers' Day was celebrated by the Institution all over the country on September 15, 2022 to commemorate the 162nd birth anniversary of legendary Engineer-Statesman Bharat Ratna Sir M Visvesvaraya. Brief accounts of the celebration as received from various Centres are reported hereunder.

STATE CENTRES

Andhra Pradesh



Andhra Pradesh State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Andhra Loyola Institute of Engineering and Technology. Prof (Dr) Venkata Sriram, Honorary Secretary, Andhra Pradesh State Centre, IEI encouraged the students to

improve their skills towards real time projects in the competitive world. Chief Guest of the event, Mr B Sambhi Reddy, Chief Engineer, Efftronics Systems Private Limited delivered lecture on the latest technologies in IT industry and stressed on algorithm design skills in the industry.

Assam

Assam State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Guwahati. Mr Nripendra Nath Patwari, Chairman, Assam State Centre, IEI chaired over the function and Mr Pulak Sarmah, Honorary Secretary, Assam State Centre, IEI delivered the welcome address. Chief Guest of the event was Dr D N Buragohan, Emeritus Professor and Former Director, Indian Institute of Technology Guwahati. Mr Kamal Bhuyan, Chief General Manager, Power Grid Corporation spoke on the theme of the day and covered various technical issues related to smart engineering. Prof (Dr) S K Kakoty, Immediate Past Chairman, Assam State Centre, IEI presented the life sketch of Sir M Visvesvaraya. At the end, Mr Pulak Sarmah proposed the vote of thanks.



Bihar

Bihar State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Patna. Chief Guest of the event, Mr Anand Kishor, IAS, Principal Secretary, Urban Development and Housing Department, Patna said that smart engineering can bring better tomorrow by making providing to road and rail infrastructure and newer technologies to combat air pollution and climate change. Guest of Honour of the event, Prof (Dr) T N Singh, Director, Indian Institute of Technology, Patna opined



that smart engineering has provision for data analytics by using man-machine interface to meet the challenges of environmental crisis, healthcare issues for providing better living condition for the human beings. Earlier, Mr Bhupendra Nath Singh, Chairman, Bihar State Centre, IEI welcomed the

participants. At the end, Mr Dilip Kumar Jha, Honorary Secretary, Bihar State Centre, IEI proposed the vote of thanks.

Delhi

Delhi State Centre, IEI observed 55th Engineers' Day 2022 on 15 September 2022 at New Delhi. Chief Guest of the event, Shri Shekhar Dutt, IAS (Retd), Former Governor, Chhattisgarh in his address said that the engineers have



to face several challenges like air pollution, waste management, traffic congestions, effective healthcare, housing for all, etc and these will require to determine sustainable and inclusive solutions to provide affordable housing,

healthcare, drinking water especially to the urban areas. The Keynote address was delivered by Mr Pradeep Chaturvedi, Former Chairman, Emerging Technology Task Force, IEI. Earlier, Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI welcomed all the members, participants. At the end, Mr Rajesh, Honorary Secretary, Delhi State Centre, IEI proposed the vote of thanks.

Goa

Goa State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Goa. Chief Guest of the event, Prof (Dr) Gopal Mugeraya, Director, NIT Goa stated about the engineers ability to solve the real life problems and spoke about smart engineering, smart structural engineering, library without walls, etc. Earlier, Mr Gajanan Harihar Karkare, Chairman, Goa State Centre, IEI delivered the welcome address. At the end, Mr Austin Socorro Rodrigues, Honorary Secretary, Goa State Centre, IEI proposed the vote of thanks.



Haryana

Haryana State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Ambala in association with Maharishi Markandeshwar. (Deemed to be University), Mullana, Ambala. Chief Guest of the event was Dr Satbir Singh Kadian, Engineer-in-Chief and CEO, Irrigation and Water Resources Department, Government of Haryana. Mr K C Sethi, Former Vice President, IEI presented the life sketch of Bharat Ratna Sir M Visvesvaraya, a man of extra ordinary intelligence and high principles and



discipline. Prof (Dr) Baldev Setia, Director, Punjab Engineering College, Chandigarh delivered the Keynote address and discussed the smart engineering concept for betterment of life. Earlier, Dr (Ms) Vrinda Krishanlal Gupta, Chairperson, Haryana State Centre, IEI welcomed all.

Kerala

Kerala State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Thiruvananthapuram. Prof (Dr) M Jayaraju, Chairman, Kerala State Centre, IEI welcomed the gathering. Dr M C Dathan, Scientific Advisor to



Chief Minister of Kerala, (Indian Space Scientist and Former Director, VSSC) garlanded the portrait of Sir M Visvesvaraya and inaugurated the program. Chief Guest of the event, Prof (Dr) K P Sudheer, Ex

Officio Principal Secretary, S&T Department and Executive Vice President, Kerala State Council for Science, Technology and Environment (KSCSTE) delivered special address. At the end, Mr Roy Mathew, Honorary Secretary, Kerala State Centre, IEI proposed the vote of thanks.

Meghalaya

Meghalaya State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Shillong. Mr Ezekiel Lyngdoh, Chairman, Meghalaya State Centre, IEI delivered the welcome address and chaired the session. Mr K Marbaniang, Past Chairman, Meghalaya State Centre, IEI presented the life sketch of Sir M Visvesvaraya. Chief Guest of the event was Mr J B Poon, Past Chairman, Meghalaya State Centre, IEI. Mr Mcfurrson Mawlieh, Honorary Secretary, Meghalaya State Centre proposed the vote of thanks.

Mizoram

Mizoram State Centre, IEI observed 55th Engineers' Day on 15 September 2022 in online mode. Speaker of the event, Dr Avilash Sahoo, Faculty, National Institute of Technology Meghalaya delivered lecture on underwater vehicle and emphasized on multidisciplinary research work for smart engineering. Mr Pankaj Tyagi, Deputy Manager, Hero MotoCorp Private Limited stressed on collaborative work between industry and academia regarding smart engineering. Earlier, Mr K Lalsawmvela, Chairman, Mizoram State Centre, IEI welcomed all and recalled the contributions in the field of modern engineering in India by Bharat Ratna Sir M Visvesvaraya. At the end, Dr (Ms) Chaitali Koley, Honorary Secretary, Mizoram Local Centre, IEI proposed the vote of thanks.

Puducherry

Puducherry State Centre, IEI observed 55th Engineers' Day on 26 September 2022 at Puducherry. Prof (Dr) B Radjaram, Chairman, Puducherry Local Centre, IEI welcomed the gathering and explained the activities and achievements of Puducherry Local Centre, IEI. Hon'ble Chief Minister of Puducherry, Thiru NRangaswamy graced the function as Chief Guest. Hon'ble Minister of PWD, Puducherry, Thiru K Lakshmi Narayanan was present in the function as Guest of Honour. Dr T Arun, IAS, Secretary (Public Works),



Government of Puducherry in his felicitation address expressed the importance of engineering fraternity in determining the social indicators through basic infrastructural facilities for the well being of the society.

Mr K Lashmi Narayanan, mentioned about the contribution of engineers for industrial revolution, planning and restructuring of modern India for our nations growth. Honourable Chief Minister of Puducherry described the roles of engineers

for development of national economy. At the end, Mr S Thirougnaname, Honorary Secretary, Puducherry Local Centre, IEI delivered vote of thanks.

Tamilnadu

Tamilnadu State Centre, IEI observed 55th Engineers' Day on 18 September 2022 at Chennai. Chief Guest of the event, Mr Jagmeet Makkar, FICS, Chairman, Institute of Chartered Shipbrokers, Hong Kong Branch and IME (I) Chair, Indian Maritime University in his deliberation, mentioned smart technology as dynamic, which changes the face of opportunities and challenges locally and globally and opined that in the better world, engineers are able to create and apply new knowledge. Guest of Honour of the event, Dr R Venkatesan, Council Member, IEI and Former Scientist G and Programme Director, Ocean Observations Systems, National Institute of Ocean Technology, Chennai discussed on blue economy



and mentioned that Indian coastal areas experienced several erosion and blue economy encompasses many aspects on onshore infrastructure like sea ports, maritime routes connected with domestic and international trade and offshore energy resources, emerging marine technologies and latest development in science. Earlier, Mr S Kannan, Chairman, Tamilnadu State Centre, IEI welcomed the delegates. At the end, Mr K N Sivaraju, Honorary Secretary, Tamilnadu State Centre, IEI proposed the vote of thanks.

Telangana

Telangana State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Hyderabad. Chief Guest of the event, Mr Navin Mittal, IAS, Commissioner of Technical and Collegiate Education, Government of Telangana mentioned Sir M Visvesvaraya as a great engineer, economist, architect and the role model of engineering fraternity. Prof Dr Sriram Venkatesh, Principal, University College of Engineering, Osmania University, Hyderabad spoke on the contributions and achievements of Sir M Visvesvaraya. Dr M V S S Giridhar, Professor & Head, Centre for Water Resources, Institute



of Science and Technology, JNTUH; Dr I Satyanarayana Raju, Council Member, IEI; Dr M Venkata Rama Rao, Professor, Department of Civil Engineering, Vasavi College of Engineering, Hyderabad; Dr Mohammed

Hussain, Professor, Department of Civil Engineering, GRIET, Hyderabad; Dr K Anitha Sheela, Professor, ECE, JNTUH College of Engineering, Hyderabad presented their papers on the theme of the Day. Earlier, Mr B Brahma Reddy, Chairman, Telangana State Centre, IEI welcomed the gathering and chaired the function.

Tripura

Tripura State Centre, IEI observed 55th Engineers' Day in association with National Institute of Technology Agartala; Tripura Institute of Technology Narasingharh; Technology College of Engineering, Agartala; Women's Polytechnic Institute, Hapania; TTAADC Polytechnic Institute, Khumulwng.; Gomati District Polytechnic Institute, Udaipur; Dhalai District Polytechnic Institute, Ambassa; North District Polytechnic Institute, Bagbassa; State Engineers Association, Tripura (SEAT); Association of Service Engineers of Tripura (ASSET); Bharatiya Prodyogikibidh Sangha; Indian Buildings Congress, Tripura Centre; Institute of Public Health Engineers (India), Agartala Regional Centre on 15 September 2022 at Agartala. During the inaugural session, Bharat Ratna Sir M Visvesvaraya's statue was unveiled by the Chief Guest of the function, Prof (Dr) Manik Saha, Hon'ble Chief Minister, Tripura. Guest of

Honour of the event was Mr J K Sinha, IAS, Chief Secretary, Government of Tripura and Special Guest of the event was Mr Gitte Kirankumar Dinkarrao, IAS, Secretary, Public Works Department, Government of Tripura. Keynote address was delivered by Prof Suman Chakraborty, Professor, Mechanical Engineering Department and Dean, Research and Development (R&D), IIT Kharagpur and Special Speaker of the event was Dr Suman Deb, Assistant Professor, Computer Science and Engineering Department, NIT Agartala.



Mr Rajib Debbarma, Chief Engineer, Public Works Department (R&B and Buildings), Government of Tripura delivered welcome address. On this occasion, a rally was organized, where Chief Guest of the event was Mr Sushanta Chowdhury,

Honourable Minister for Youth Affairs and Sports Department, Tripura. Mr Rajib Paul, Deputy Secretary – II, Public Works Department, Government of Tripura delivered lecture on the occasion. A blood donation camp was also organized. Chief Guest of the event was Mr Dipak Majumder, Honourable Mayor, Agartala Municipal Corporation and Special Guest of the event was Prof (Dr) Sekhar Datta, Principal, Tripura Institute of Technology, Narsingarh. Mr Sankar Saha, Joint Secretary, Public Works Department, Government of Tripura, Mr M S Roy, Committee Member of IEI, Tripura State and retired Chief Engineer (Civil), ONGC Ltd delivered address on the occasion. Er C Debnath, President (Elect), IEI, presided over. Dr Subhadeep Bhattacharjee, Honorary Secretary, Tripura State Centre, IEI narrated the life sketch of Bharat Ratna Sir M Visvesvaraya and proposed the vote of thanks.

Uttarakhand

Uttarakhand State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Dehradun. Chief Guest of the event was Mr Subodh Unyal, Honourable Minister of Technical Education and Forests, Government of Uttarakhand. Speaker of the event, Dr Priyadarshan Patra, Vice Chancellor, DIT Dehradun delivered lecture on the theme. Mr Atul Dev, DRDO delivered lecture on the life of Sir M Visvesvaraya. Guests of Honour of the event, Mr Narendra Singh, Past President, IEI; Mr Sandeep Singhal, MD, UJVNL; Mr Dinesh Chandra, Engineer-in-Chief, Uttarakhand Irrigation Department; Ms Neelima Garg, GM, Uttarakhand Jal Sansthan; Dr H N Nagaraja, Director General, Graphic Era University expressed their views. Earlier, Mr Dharm Chandra, Chairman, Uttarakhand State Centre, IEI welcomed the Chief Guest, Guest of Honours, speakers and other dignitaries. At the end, Mr Satish Chandra Chauhan, Honorary Secretary, Uttarakhand State Centre, IEI proposed the vote of thanks.



Uttar Pradesh

Uttar Pradesh State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Lucknow. Chief Guest of the event, Dr P K Mishra, Eminent Educationist and Vice Chancellor, Abdul Kalam Technical University,



Lucknow in his address stated that engineers play an important role in nation building. Mr V B Singh, Vice President, IEI emphasized on the communication skills, problem solving ability of the engineers

and the capability to accept the challenges for the latest developments in future. He further advised the engineers to adopt latest technologies for sustainable development in affordable cost affecting the environment. Earlier, Mr Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI welcomed the guests and dignitaries, mentioned the role of engineers in our life and outlined the life sketch of Sir M Visvesvaraya and his contributions in nation building. The function was attended by Mr R K Trivedi, Immediate Past Chairman, UPSC and other dignitaries. At the end, Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI proposed the vote of thanks.

West Bengal

West Bengal State Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Kolkata. Chief Guest of the event, Mr Tapan Misra, Founder, SISIR Radar, Former Director, Space Applications Centre (ISRO), and Former Advisor to Chairman ISRO delivered a lecture on radar, antenna, space application materials and the functions of GSLV, PSLV etc. Special Guest of the event, Mr Sanjoy Kumar Das, Joint Secretary, IT & Electronics, Government of West Bengal discussed on smart engineering. Mr Sandip Kumar Deb, Vice President, IEI reminded the engineers and technologists all over the country regarding their social commitment towards furtherance of the fraternity by organizing wide range of programmes on engineering talks and allied areas. Prof (Dr) Netai Chandra Dey, Council Member, IEI presented a life sketch of Bharat Ratna Sir M Visvesvaraya. Earlier, Dr Nirmal Das, Chairman, West Bengal State Centre, IEI welcomed the participants and spoke on the importance of the Day. At the end, Dr Raju Basak, Honorary Secretary, West Bengal State Centre, IEI proposed the vote of thanks.



LOCAL CENTRES

Aligarh

Aligarh Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Aligarh. Chief Guest of the event, Prof Altamush Siddiqui, Dean, Faculty of Engineering and Technology, Aligarh Muslim University delivered lecture on the theme. Guest of Honour of the event, Mr Javaid Said, Director, Nikjay Private Limited, Aligarh delivered lecture on this occasion. Dr Arshad Husain, Associate Professor, Boys Polytechnic, AMU, Aligarh spoke on the life and contribution of Sir M Visvesvaraya. Prof S H Mohsin, Director General, Shivdhan Singh Institute of Technology and Management (SSITM), Aligarh spoke on the theme. Earlier, Mr Suresh Chandra Gupta, Chairman, Aligarh Local Centre, IEI welcomed all.



Angul

Angul Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Angul. Chief Guest of the event, Mr Ambika Prasad Panda, Executive Director, S & P Complex, NALCO addressed the audience, inaugurated the exhibition stalls and released a souvenir. Guest of Honours of the event, Mr Manoj Mishra, Plant Head, GMR



Kamalanga Energy Ltd, Dhenkanal; Commodore G Prakash, Vice President, NAVA Limited and Mr Y Pattnaik, ED, JNVLR spoke on the occasion. Chief Speaker of the event, Prof Gopal Krishna Nayak, XIM University, Bhubaneswar, presented various aspects of digital transformation. Guest Speaker, Dr Sandip Kumar Mishra, Senior Scientist, Institute of Life Sciences, Bhubaneswar explained nuances of bio technology. Earlier, Mr Sangram Keshari Samantaray, Chairman, Angul Local Centre, IEI welcomed the guests and the dignitaries. Mr Siba Ram Panda, Honorary Secretary, Angul Local Centre, IEI presented a brief report of the activities of Angul Local Centre, IEI. The program was attended by engineers, academicians, students and other stakeholders.

Belagavi

Belagavi Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Belagavi. Chief Guest of the event, District Collector, Mr Nitesh Patil stated that the role of engineers is crucial for the comprehensive development of the country.



Keynote speaker of the event, Mr Anand Kulkarni, Head, Persistent Solutions, Belagavi delivered lecture on the theme. The function was chaired by Mr R T Jangal, Chairman, Belagavi Local Centre, IEI. At the end, Dr Devendrappa Kenchakkanavar Veeranna, Honorary Secretary, Belagavi Local Centre, IEI proposed the vote of thanks.

Coimbatore

Coimbatore Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Coimbatore. Prof (Dr) S Shanmugam, Chairman, Coimbatore



Local Centre, IEI welcomed the Chief Guest of the event, Mr G Ranganathan, Director, Rover Industries, Coimbatore and other dignitaries. In his address, Mr Ranganathan stated about the developments in the key sectors like rail and

road connectivity, drinking water, agriculture, health care, nutrition and housing affordability. At the end, Dr J Krishnamoorthi, Honorary Secretary, Coimbatore Local Centre, IEI proposed the vote of thanks.

Indore

Indore Local Centre, IEI observed 55th Engineers' Day on 18 September 2022 at Indore. Chief Guest of the event was Mr Pushyamitra Bhargav, Mayor, Indore. In the second session a technical programme was organized. Chief Guest of this session was Mr A K Pandey, Additional Commissioner (GST, Central Taxes and Custom) and the Special Guest was Mr Punit Dubey, Chief Engineer (Indore Region) MPPKVVL, Indore. Theme Speaker of the event, Mr Mudit Thakkar, CEO, Youngvator conducted a session on smart engineering and explained the importance and use of latest technologies like AI, ML, IoT etc. Earlier, Mr Rajendra Prasad Gautam, Chairman, Indore Local Centre, IEI welcomed the participants and discussed about the theme. At the end, Mr Dharmendra Singh Parihar, Honorary Secretary, Indore Local Centre, IEI proposed the vote of thanks.



Jabalpur

Jabalpur Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Jabalpur. Chief Guest of the event was Lt Gen Rakesh Kapoor, VSM, Commandant CMM, Jabalpur stressed on the existing service infrastructure to meet the challenges like air pollution, waste management, traffic congestion, effective health care, etc. Guest of Honour of the event, Dr Pravin Kondekar, Director, Pandit Dwarka Prasad Misra, Indian



Institute of Information Technology, Design and Manufacturing, Jabalpur shared his thoughts. Keynote Speaker of the event, Dr Rakesh Kumar Gupta, IRS, Principal Chief Electrical Engineer, West Central Railways, Jabalpur stressed that in critical areas like road and railway connectivity, drinking water, agriculture, health and nutrition, affordable housing and better services can only be rendered through incorporation of smart technologies to achieve sustainable development goals in a phased manner. Earlier, Mr Prakash Chandra Dubey, Chairman, Jabalpur Local Centre, IEI delivered the welcome address. At the end, Mr Sanjay Kumar Mehta, Honorary Secretary, Jabalpur Local Centre, IEI proposed the vote of thanks.

Jodhpur

Jodhpur Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Jodhpur. Dr Akhil Ranjan Garg, Chairman, Jodhpur Local Centre,



IEI delivered the welcome address. Chief Guest of the event was Prof Ajay Kumar Sharma, Vice Chancellor, MBM University of Jodhpur and Guest of Honour of the event was Mr Alok Bansal,

Director, Board of Technical Education, Rajasthan, Jodhpur. Mr R V Hara Prasad, OS & Director, Defence Laboratory, Jodhpur also delivered lecture on the occasion. At the end, Dr Ghanshyam Prasad Vaishnav, Honorary Secretary, Jodhpur Local Centre, IEI proposed the vote of thanks.

Kalpakkam

Kalpakkam Local Centre, IEI observed 55th Engineers' Day on 23 September 2022 at Kalpakkam. Mr Shanmuga Sundaram, Chairman, Kalpakkam Local Centre, IEI welcomed the gathering.



Chief Guest of the event, Dr N Anandavalli, Director, Structural Engineering Research Centre, Chennai delivered lecture on the topic 'Artificial Intelligence Methods Inspired from Nature – An Overview'. Guest of Honour of the event, Dr P Shanmugam, Chief Scientist, CLRI, Chennai discussed about bio-fuel technology to safeguard the Indian ecosystem. He mentioned the biomethanization process for tannery and sago wastewater, production of hydrogen and methane using phase separated in two stage anaerobic co-digestion leather fleshing waste with municipal solid waste, production of hydrogen and methane using phase separated in two stages between leather fleshing waste with municipal solid waste. Mr S Raghupathy, Director, RTDG & EIG, IGCAR and Mr Sudhir B Shelke, Station Director, Madras Atomic Power Station also delivered lecture on the occasion.

Kanpur

Kanpur Local Centre, IEI observed 55th Engineers' Day in association with Harcourt Butler Technical University (HBTU), Kanpur; Institution of Electronics and Telecommunication Engineers, Kanpur Centre; The



Institution of Electrical and Electronics Engineers (IEEE), U P Section and Association of Professional Graduate Civil Engineers, Kanpur on 15 September 2022 at Kanpur. Chief Guest of the event was Prof Samsher, Hon'ble Vice-Chancellor, HBTU, Kanpur. Guest of Honour of the event was Mr Shivsharanappa G N, IAS, Nagar Ayukt, Kanpur Nagar. Theme Speaker of the event was Mr S N Jha, Chief Project Manager, Kanpur Metro Rail Project. Earlier, Mr Vivek Asthana, Chairman, Kanpur Local Centre, IEI welcomed the Chief Guest, Guest of Honour and the participants. Mr S N Jha in his address explained the rich Indian legacy of engineering and added that India was the pioneer in Marine and Metallurgical Engineering. At the end, Mr Rama Kant Yadav, Honorary Secretary, Kanpur Local Centre proposed the vote of thanks.

Kharagpur

Kharagpur Local Centre, IEI observed 55th Engineers' Day on the topic 'Journey of Tata Hitachi Constructions Private Limited in the field of Construction Engineering' on 15 September 2022 through virtual mode.



Keynote Speaker of the event, Mr Arup Mukherjee, Assistant Vice President, Tata Hitachi Construction Machinery Company Private Limited discussed the journey of Tata Hitachi Construction about the advancements in research technology. He also discussed about the future possibilities for collaboration between IEI and Tata Hitachi to enhance the quality of engineering study by a industry academic collaboration. Earlier, Dr Damodar Maity, Chairman, Kharagpur Local Centre, IEI delivered the welcome address. Dr Basanta Kumar Prusty, Honorary Secretary, Kharagpur Local Centre proposed the vote of thanks.

Kollam

Kollam Local Centre, IEI observed 55th Engineers' Day on 24 September 2022 at Kollam. A panel discussion was held on the topic 'Growth, Development and Utilization of Engineering Technology for the Decade Ahead'.



The panel of experts were: Dr Biju K, Joint Secretary, Kollam Local Centre, IEI; Mr Sudheer Noohu, CTO & CEO, Excelity Global; Dr

B Sunilkumar, Director, Indian Institute of Infrastructure and Construction, Kollam; Dr C Ravikumar Nair, Senior Divisional Engineer, Indian Railways and Mr Venugopal S, Joint General Manager, HLL Life Care Limited, Thiruvananthapuram. The panellists presented the latest technical advancements in the field of electric traction, skilling, industrial automation, artificial intelligence, etc. Earlier, Dr (Prof) Ms Sheeba R, Honorary Secretary, Kollam Local Centre, IEI welcomed all. Mr K Rajan, Chairman, Kollam Local Centre chaired over the session.

Kota

Kotal Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Kota. Mr Devendra Kumar Bhargava, Chairman, Kota Local Centre, IEI welcomed



the Chief Guest of the event, Honourable Sandeep Sharma, Member of Legislature of Rajasthan; Guest of Honour of the event, Mr Rajesh Kumar Sharma, Principal, Government Polytechnic College, Kota; Special Guest of the event, Mr Raj Singh Rathore, Chief Engineer and Director, Irrigation Management and Training Institute, Kota and Keynote Speaker of the event, Dr Manish Chaturvedi, Associate Professor, Rajasthan Technical University, Kota. Dr Manish Chaturvedi in his address mentioned that engineers always play the vital role for the development of the nation. Mr Rajesh Kumar Sharma in his address advocated for creating a national database in the domain of energy, infrastructure, environment, housing, water supply, sanitation, infrastructure etc. Mr Rai Singh Rathore spoke on the life of Sir M Visvesvaraya. Chief Guest, Mr Sandeep Sharma opined that engineers are the innovators of the world. At the end, Mr Shyam Lal Gupta, Honorary Secretary, Kota Local Centre proposed the vote of thanks.



Kozhikode

Kozhikode Local Centre, IEI observed 55th Engineers' Day in association with The Institution of Electronics and Telecommunication Engineers (IETE), Kozhikode Sub Centre on 15 September 2022 at Kozhikode. Mr K Shaju, Honorary Secretary, Kozhikode Local Centre, IEI welcomed the gathering. Dr Sabiq P V, Chairman, IETE Kozhikode Sub Centre outlined the lifesketch of Sir M Visvesvaraya. Earlier, Mr S Komanchery, Chairman, Kozhikode Local Centre, IEI welcomed all and stated the importance of the Day. Mr Jayant Ganguly, Senior Technical Officer, Regional Science Centre and Planetarium, Kozhikode also spoke on the theme.

Nagpur

Nagpur Local Centre, IEI observed 55th Engineers' Day 2022 on 15 September 2022 at Nagpur. Chief Guest of the event was Dr Bhimaraya Metri, Director, Indian Institute of Management, Nagpur. Dr H O Thakare,



Immediate Past President, IEI presided over the function. Earlier, Mr Milind Anant Pathak, Chairman, Nagpur Local Centre, IEI welcomed the guests and dignitaries.

Neyveli

Neyveli Local Centre, IEI observed 55th Engineers' Day in association with Engineers & Scientist Association, Neyveli on 15 September 2022 at Neyveli.

Speakers of the event were Mr K Mohan Reddy, Director (Planning & Projects), NLC India Limited and Prof R M Kathiresan, Vice Chancellor, Annamalai University.

Earlier, Dr M Senthil Kumar, Honorary Secretary, Neyveli Local centre, IEI welcomed the speakers, dignitaries and participants.



Pune

Pune Local Centre, IEI observed 55th Engineers' Day on 15 September 2022



at Pune. Chief Guest of the event was Mr Anshulmali Srivastava, Regional Officer NHAI, Mumbai said that continuous research and development is the key of

smart engineering technology. He further stressed the need for incubation centres for the entrepreneurs and opined that IEI may provide platforms for these innovation centres. Keynote Speaker of the event, Mr Bhushan Dhavate, delivered address on the topic 'Use of Glass Fiber Reinforced Polymer Rebar – (GFPR). Prof (Dr) G S Mundada, Council Member, IEI was present on the occasion and addressed the audience. Earlier, Dr Amal Bora, Past Chairman, Pune Local Centre delivered the welcome address. At the end, Mr Munot Vipin Vasantlal, Honorary Secretary, Pune Local Centre, IEI proposed the vote of thanks.

Saurashtra

Saurashtra Local Centre, IEI, in association with Marwadi University, Rajkot observed 55th Engineers' Day on 15 September 2022 at Rajkot. Speakers of the event were Er Alpna Mitra, City Engineer (Special), Traffic & Transportation, Rajkot Municipal Corporation and Dr Amit Sata, Professor, Marwadi University, Rajkot. Earlier, Prof (Dr) Sarang Sadadhiv Rao Pande, Chairman, Saurashtra Local Centre, IEI delivered the welcome address.



Sunabeda

Sunabeda Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Sunabeda. Chief Speaker of the event, Dr Ranjan Kumar Mishra, Sc-G, DRDO delivered lecture on the theme. Speakers of the event were Mr S K Pashi- ED, NALCO and Mr R P Chakraborty, General Manager, HAL Koraput. Earlier Mr Arabinda Swamy, Chairman, Sunabeda Local Centre, IEI delivered the welcome address. Mr Babrubahan Sahu, Honorary Secretary, Sunabeda Local Centre, IEI proposed the vote of thanks.



Thanjavur

Thanjavur Local Centre, IEI in association with PMIST University, Thanjavur observed 55th Engineers' Day on 15 September 2022 at Thanjavur. Mr A Arumugam, President, Civil Engineering and Architect Association delivered address on the occasion. Mr E Jayakumar, Chairman, Thanjavur Local Centre, IEI in his address discussed activities of IEI and encouraged for more research and development and suggested for membership drive.



Tiruchirappalli

Tiruchirappalli Local Centre, IEI observed 55th Engineers' Day in association with Computer Society of India, Tiruchirappalli Chapter; Indian Institute of Welding, Tiruchirappalli Branch; Indian Welding Society, Southern Zone; Indian Institute of Metals, Tiruchirappalli Chapter; Indian Institution of Industrial Engineering, Tiruchirappalli; Kumari Arival Peravai Kanyakumari and Indian Society for Non-destructive Testing, Trichy Chapter on 15 September 2022 in online mode. Mr R Selvaraj, Past Chairman, Tiruchirappalli Local Centre, IEI chaired the session and welcomed the Chief Guest, Mr V T Puthiavan, Former Deputy Project Director, L100 Assembly IPRC, ISRO, Mahendragiri and the participants. Mr B Balasubramanian, Chairman, Tiruchirappalli Local Centre, IEI and Mr S P Lakshmanan, Joint Secretary, Tiruchirappalli Local

Centre, IEI introduced the Chief Guest. At the end, Dr P R Venkateswaran, Joint Secretary, Tiruchirappalli Local Centre, IEI proposed the vote of thanks.

Tirunelveli

Tirunelveli Local Centre, IEI observed 55th Engineers' Day on 30 September 2022 at Tirunelveli. Prof (Dr) R Velayutham, Chairman, Tirunelveli Local Centre, IEI delivered the welcome address. Speaker of the event, Dr S Avudaiappan, Principal, St Xavier's Polytechnic College, Tirunelveli, Tamilnadu delivered lecture on the theme. At the end, Mr Jimmi Carten M, Honorary Secretary, Tirunelveli Local Centre, IEI proposed the vote of thanks.



Tuticorin

Tuticorin Local Centre, IEI observed 55th Engineers' Day on 30 September 2022 at Tuticorin. Mr A Sivakumar, Chairman, Tuticorin Local Centre, IEI delivered the welcome address, discussed about the innovative contributions made by Bharat Ratna Sir M Visvesvaraya and emphasized the need for streamlining engineering strategies with changing global scenario. Chief Guest of the event, Mr C Krishna Kumar, Chief Engineer, Tuticorin Thermal Power Station emphasized on adopting smart concepts to leapfrog into new realms in the era of smart engineering for a better tomorrow. At the end, Mr T Sivageerthi, Honorary Secretary, Tuticorin Local Centre, IEI proposed the vote of thanks.



Mangalore

Mangalore Local Centre, IEI observed 55th Engineers' Day on 15 September 2022 at Mangalore. Mr K S Arunprabha, General Manager (Technical), Mangalore Smart City Project Limited. Mangalore inaugurated the event. While speaking on the theme, he emphasized on the role of engineers for all round development of a city. Dr K S Babunaryan, Dean (P & D), NITK Surathkal elaborated the life sketch of Sir M Visvesvaraya. Dr Sunil B Malegole, Chairman, Mangalore Local Centre, IEI chaired the session. At the end, Dr Manu B, Honorary Secretary, Mangalore Local Centre, IEI proposed the vote of thanks.



Vadodara



Vadodara Local Centre, IEI observed 55th Engineers' Day on 16 September 2022 at Vadodara. Speakers of the event were Mr Pares Shah, Director, Operations Excellence Academy and Mr Sushil Kumar Sharma, Founder and CEO, Sustaineco. Earlier, Mr Ambikesh Natvarlal Padhya, Chairman, Vadodara Local Centre delivered the welcome address. At the end, Mr Keyurkant Manibhai Thakkar, Honorary Secretary, Vadodara Local Centre proposed the vote of thanks.

IEI Celebrates

Royal Charter Day

The Institution of Engineers (India) was incorporated by Royal Charter on September 9, 1935 by King and Emperor George V at the Court at Buckingham Palace, London and remains the only professional body in India to be accorded this Honour. This endowed the Corporate Members of the Institution with the right to use the title 'Chartered Engineer' after their names, implying that they are qualified engineers deemed worthy to hold a Charter. The 'Royal Charter Day' was celebrated by IEI all over the country on September 9, 2022. A brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Assam

Assam State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at Guwahati. Mr Nripendra Nath Patwari, Chairman, Assam State



Centre, IEI delivered briefly the history of IEI. Mr Pulak Sarmah, Honorary Secretary, Assam State Centre, IEI delivered the welcome address. Speaker of the event, Mr Subhash Ch

Goswami, who had rendered his service with ASEB, ASTC, Brahmaputra Board, WAPCOS, APHC etc, delivered lecture on the topic 'Pollution, Global Warming and Climate Change'. At the end, Dr Milanjit Bhattacharyya, Joint Honorary Secretary, Assam State Centre, IEI proposed the vote of thanks.

Delhi

Delhi State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at New Delhi. Chief Guest of the event, Mr Devendra Gill, General Manager (Safety), Delhi Metro Rail Corporation spoke on the Royal Charter conferred to IEI. Earlier, Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI delivered welcome address and mentioned the history of Royal Charter. At the end, Mr Rajesh, Honorary Secretary, Delhi State Centre, IEI proposed for the vote of thanks.



Kerala

Kerala State Centre, IEI observed Royal Charter Day 2022 in association with all Local Centres in Kerala on 09 September 2022 through online mode on the topic 'Royal Charter: Its Legal Status and Present Scenario'. Mr Salahudheen P A, Chairman, Kochi Local Centre, IEI delivered the welcome address. Prof Sunil Kumar C P, Chairman, Trichur Local Centre, IEI introduced the speaker and elaborated on the topic. Prof (Dr) M Jayaraju, Chairman, Kerala State Centre, IEI chaired over the function. The theme addresses were presented by Dr M P Sukumaran Nair, Director, Centre for Green Technology and Management and Past Council Member, IEI and Mr V B Singh, Vice President, IEI (session 2021-22). At the end, Mr Madhana Mohan K, Chairman, Palghat Local Centre, IEI proposed the vote of thanks.

Mizoram

Mizoram State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 through hybrid mode. Speaker of the event, Dr Kalyan K Sen, Co-founder/Chief Technology Officer, Sen Engineering Solutions Inc spoke on earlier electrical engineering concepts and the recent power

electronics-based solutions. Earlier, Dr (Ms) Chaitali Koley, Honorary Secretary, Mizoram State Centre, IEI welcomed all the participants and spoke on the historical importance and relevance of the day.

Telangana

Telangana State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 online. Dr Sudhir Kumar Calla, Council Member, IEI addressed the virtual audience and briefed about the significance of Royal Charter. Earlier, Mr B Brahma Reddy, Chairman, Telangana State Centre and Council Member, IEI welcomed the audience and chaired the session. At the end, Dr G Venkata Subbaiah, Honorary Secretary, Telangana State Centre, IEI proposed the vote of thanks. The session was attended by the Council Members, Past Chairmen, Members of TSC Committee and Corporate Members.

Tripura

Tripura State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at Agartala. Prof (Dr) Swapan Bhaumik, Dean (Academic), NIT Agartala and Former Vice President, IEI delivered the Keynote address. Er C Debnath, President (Elect), IEI presided over the programme. Dr Subhadeep Bhattacharjee, Honorary Secretary, Tripura State Centre, IEI delivered welcome address.



Uttar Pradesh

Uttar Pradesh State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at Lucknow. Chief Guest and Keynote Speaker of the event, Mr A K Singh Sengar, Chief Engineer (Retd), UP Irrigation



Department and Member (Engg), L D A highlighted the grant of Royal Charter and its benefits for the organization. Mr V B Singh, Vice President, IEI explained the details of Royal Charter. Earlier, Mr Masarrat Noor Khan, Chairman, Uttar

Pradesh State Centre, IEI welcomed the guests and dignitaries. At the end, Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI proposed the vote of thanks.

West Bengal

West Bengal State Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at Kolkata. Theme Speaker of the event, Prof (Dr) Nil

Ratan Bandyopadhyay, IEST, Shibpur, Kolkata and Former Chairman, MMDB, IEI mentioned that Royal Charter provides responsibility to promote general advancement of engineering amongst members and persons attached to the institution. Earlier, Dr Nirmal Das, Chairman, West Bengal State Centre, IEI welcomed the participants, speaker and explained the significance of Royal Charter Day and why the Council taken the resolution to observe Royal Charter Day every year. At the end, Dr Raju Basak, Honorary Secretary, West Bengal State Centre, IEI proposed the vote of thanks.



LOCAL CENTRES

Kota



Kota Local Centre, IEI observed Royal Charter Day 2022 on 10 September 2022 at Kota. Mr Devendra Kumar Bhargava, Chairman, Kota Local Centre, IEI delivered the welcome address. Chief Guest of the event was Mr Naresh Jain, Former Senior Vice President, DCM Shriram Limited, Kota; Guest of Honour was Mr C S Chacha, Former Joint Director, Technical Education, Jodhpur, Rajasthan and Special Guest was Mr C K S Parmar, Past Chairman, Kota Local Centre, IEI. At the end, Mr Shyam Lal Gupta, Honorary Secretary, Kota Local Centre, IEI proposed the vote of thanks.

Neyveli

Neyveli Local Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 through hybrid mode. Speakers of the event, Mr A Sekar, General Manager, NLC India Limited, Council Member, ELDB, IEI and Immediate Past Honorary Secretary, Neyveli Local Centre, IEI briefed about the history of Royal Charter, benefits and its present status. Dr R Sivacoumar, Chief Scientist, CSIR-NEERI, Chennai delivered lecture on the topic 'Our Nation's Charter on Sustainable Development Goals' through online mode. Earlier, Mr M Senthil Kumar, Honorary Secretary, Neyveli Local Centre, IEI welcomed the participants.



Palghat

Palghat Local Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 through online mode. Mr P A Salahudheen, Chairman, Kochi Local Centre, IEI delivered the welcome address; Prof (Dr) M Jayaraju, Chairman, Kerala State Centre, IEI delivered the presidential address and Prof (Dr) Sunil Kumar C P, Chairman, Trichur Local Centre, IEI introduced the theme of the webinar. Panelists of the event were Mr V B Singh, Vice President, IEI (Session 2021-22) and Dr M P Sukumaran Nair, Director, Centre for Green Technology and Management, Kochi. Mr V B Singh presented the history of Royal Charter conferred to IEI to promote the advancement of engineering amongst the members of IEI and described the responsibilities as per Royal Charter to assure each member for equal opportunity to enjoy the rights and privileges of IEI. Dr M P Sukumaran Nair in his address mentioned that Royal Charter was awarded to promote of engineering education, updating the engineering technology and knowledge, setting the standards in engineering and practising engineering for professional growth. He emphasized the need

of getting collaboration between IEI and Government of India and stressed the need for prominent representation in Engineers' Bill. At the end, Mr Madhana Mohan K, Chairman, Palghat Local Centre, IEI proposed the vote of thanks and delivered that IEI is the only professional body of India and the activities taking him into greater heights.

South Gujarat

South Gujarat Local Centre, IEI observed Royal Charter Day 2022 on 28 September 2022 at Surat. Dr Jignesh G Vagharia, Chairman, South Gujarat



Local Centre, IEI discussed briefly about the history and significance of Royal Charter and mentioned that the Royal Charter was accorded to IEI to promote general advancement of engineering, engineering

science and their application in India to exchange of information and ideas on those subjects amongst the members of and persons attached to the Institution. At the end, Prof Ketankumar D Panchal, Honorary Secretary, South Gujarat Local Centre, IEI proposed the vote of thanks.

Sunabeda

Sunabeda Local Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at Sunabeda. Chief Speaker of the event, Mr Arabinda Swamy, Chairman, Sunabeda Local Centre, IEI spoke on the importance of the day. Mr Babrubahan Sahu, Honorary Secretary, IEI proposed the vote of thanks.



Thanjavur

Thanjavur Local Centre, IEI observed Royal Charter Day 2022 on 28 September 2022 online. A webinar was organized on the occasion on the topic 'DC-DC Converters for Renewable Energy Applications'. Speaker of the event was Dr D Murali, Professor, Department of Electrical and Electronics Engineering, Government College of Engineering, Salem. Earlier, Mr E Jayakumar, Chairman, Thanjavur Local Centre, IEI delivered the welcome address. At the end, Prof (Dr) N Venkatachalapathy, Honorary Secretary, Thanjavur Local Centre, IEI proposed the vote of thanks.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI observed Royal Charter Day 2022 in association with Computer Society of India, Tiruchirappalli Chapter; SQF, New Delhi; Indian Institute of Welding, Tiruchirappalli Branch; Indian Welding Society, Southern Zone; Indian Institute of Metals, Tiruchirappalli Chapter; Indian Institution of Industrial Engineering, Tiruchirappalli; Kumari Arivial Peravai Kanyakumari and Indian Society for Non-destructive Testing, Trichy Chapter on 13 September 2022 through online mode. Mr P Rajamani, Former Vice President, IEI presided over the program and welcomed the Chief Guest of the event, Mr B Brahma Reddy, Chairman, Telangana State Centre, IEI. Mr R Selvaraj, Past Chairman, TLC, IEI introduced the Chief Guest to the audience.

Tiruvallur

Tiruvallur Local Centre, IEI observed Royal Charter Day 2022 on 19 September 2022 through online mode. Prof (Dr) Ramesh L, Chairman, Tiruvallur Local Centre, IEI delivered the welcome address. Chief Guest of the event, Mr P Rajamani, Retired Chief Engineer-TNEB, Madurai Division and Former Vice President, IEI explained about Royal Charter, history of Royal Charter, application of Royal Charter in IEI. At the end, Dr J Balamurugan, Honorary Secretary, Tiruvallur Local Centre, IEI proposed the vote of thanks.

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News-in-Brief

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

STATE CENTRE

Jharkhand

Observed World Environment Day 2022 in association with Indian Water Works Association, Ranchi on 05 June 2022 at Ranchi. Chief Guest of the event, Mr Kumar Manish Arvind, IFS, Chief Conservator of Forest, Jharkhand State Forest Department, Ranchi delivered the Keynote address. In his address, Mr Arvind said that human activities destroyed the ecological balance like land, water and atmosphere and stressed on active collaboration to conserve the environment and Mother Earth. Speaker of the event, Dr Abhishek Anand, Scientist-C and Director, Meteorological Centre, IMD, Ranchi, Ministry of Earth Sciences suggested the balance between people and the natural world to create a better future for all by using public transport, cycling which reduces emissions, keep our air and water clean to reduce carbon pollution, etc. Speaker of the event, Dr V V S N Pinakapani, General Manager, Environmental Engineering Section, MECON, Ranchi emphasized that the only option to safe guard our earth by sustainable living in harmony with nature. Mr Umesh Mehta, Chairman, Indian Water Works Association, Ranchi briefed the audience about the theme. Mr A Rajasekaran, Sr General Manager and SIC, Environmental Engineering Division, MECON Limited, Ranchi also spoke on the occasion. Mr Ashwani Kumar Saxena, Chairman, Board of Directors, SDF, IEI, Ranchi delivered the first A P Roy Memorial Lecture on air pollution – its effects on human health and control measures.

Observed 61st Foundation Day on 21 July 2022 at Ranchi. Chief Guest of the event, Mr P M Prasad, CMD, CCL appreciated the role of IEI in promoting engineering from grass root level and wished all success to IEI-JSC for upliftment of engineering education in Jharkhand. He delivered that Jharkhand State Centre, IEI playing a key role in India's industrialisation as it has having huge mineral wealth. Guest of Honour of the event, Mr Sanjay Kumar Sinha, Executive Director (Commercial), MECON Ltd delivered Dr S K Mukherjee Memorial Lecture. He highlighted the commercial aspects of an EPC, EPCM and PMC projects for successful completion of projects within stipulated time. Special Guest of the event, Mr Avijit Ghosh, Ex CMD, HEC Ltd highlighted the importance of innovation, invention, re-manufacturing in modern industry and the role of engineers or rather Institution is bridging the gap between old and new. Members from various organizations including MECON, SAIL, CCL, CMPDI, HEC, NIFTT, BIT, etc participated in the event.

Tripura

Observed 32nd Foundation Day of Tripura State Centre, IEI on 01 April 2022 at Agartala. Er C Debnath, the then Chairman, Tripura State Centre and now President, IEI hoisted the flag and the Honorary Secretary, Past Chairman, Past Honorary Secretaries, Corporate Members were present on the occasion. Prof Satyadeo Poddar, Vice Chancellor, Maharaja Bir Bikram University, Agartala graced the occasion as Chief Guest. Special Guest of the event, Mr M R Gopal, General Manager and OIC, National Bank for Agriculture and Rural Development (NABARD), Agartala delivered Keynote address on 'National Agriculture and Rural Development Policy and Financial Framework – Scope in Tripura'.

Observed International Women's Day on 17 April 2022 at Agartala. A Seminar was organized on the occasion. The event was inaugurated by Smt Mimi Majumder, Hon'ble Member, Tripura Legislative Assembly. Chief Guest of the event was Smt Barnali Goswami, Chairperson, Tripura Commission for Women, Agartala and Guest of Honour of the event was Mr Tarun Malik, Executive Director – Asset Manager, ONGC Limited, Tripura Asset. Special Speakers of the event were Ms K Vimla, Legal Officer, ONGC Limited, Tripura Asset and Mr Mamata Debbarma, Manager, TSECL. Ms Anne Thomas Vushim, Secretary, Women Development Forum, ONGC Limited, Agartala; Ms Sima Saha, Chairman, Women Engineers Forum, Tripura State Centre, IEI and Ms Harshini Bapurao Kanhekar, Chief Manager (Fire Services), ONGC Limited, Tripura Asset delivered speech on this occasion.

Observed International Energy Day in association with ONGC Limited, Tripura Asset on 19 April 2022 at Agartala. Chief Guest of the event was Smt Swapna

Debnath, Director, Department of Industries and Commerce, Government of Tripura and Guest of Honour was Mr Tarun Malik, Executive Director-Asset Manager, ONGC Limited, Tripura Asset, Agartala. Special Speakers of the event, Dr Biblab Kumar Lodh, Assistant Professor, Department of Chemical Engineering, NIT Agartala delivered lecture on the topic 'Shale Oil and Gas – Indian Perspective' and Mr Narendra Gupta, Manager, OTC Limited on the topic 'OTPC Operation and Carbon Trading Q&A'.

Observed World Earth day on 22 April, 2022 at Tripura University jointly with Department of Chemical & Polymer Engineering, Tripura University (A Central University). A Seminar was organized on the topic 'Invest in our Planet'. Special Guest of the event was Prof (Dr) A K Saha, Professor, Department of Botany, Tripura University. Special Speakers of the event were Dr Prakash Dhondiram Chavan, Senior Principal Scientist and HORG, CSIR CIMFR, Dhanbad; Mr Ashani Kundan, Chief General Manager (Geology) – Head Forward Base, ONGC Limited, Agartala and Dr Sourabh Deb, Assistant Professor, Department of Forestry and Biodeversity, Tripura University.

Observed International Energy Day in association with Tripura Natural Gas Company Limited on 05 May 2022 at Agartala. A Seminar was organized on the occasion. Special Guest of the event was Mr A Anbarasan, Managing Director, Tripura Natural Gas Company Limited. Special Speaker of the event was Smt Banani Debbarmam, Director (Commercial), Tripura Natural Gas Company Limited, Agartala.

Organized an Interaction and Felicitation Programme of Dr Pinaki Pratim Acharjya, Principal, Techno College of Engineering, Agartala on 05 May 2022 at Agartala.

Organized Webinar of Mechanical Engineering and Production Engineering Division on 07 May 2022. Special Speakers of the event, Dr B Radjaram, Professor and Head, Department of Mechanical Engineering, Manakula Vinayagar Institute of Technology, Puducherry and Chairman, Puducherry State Centre, IEI delivered lecture on the topic 'COBOT Technology' and Mr Soham Sarkar, Student, Mechanical Engineering Department, Techno College of Engineering, Agartala delivered lecture on topic 'IoT Based Advanced Water Dispensing System'.

Observed National Technology Day, in association with Department of Science, Technology and Environment, Government of Tripura and Techno College of Engineering, Agartala on 11 May 2022 at West Tripura. A Seminar was organized on the occasion. Chief Guest of the event was Mr Animesh Das, IAS, Director, Department of Science, Technology and Environment, Government of Tripura. Dr Pinaki Pratim Acharjya, Principal, Techno College of Engineering, Agartala was the Special Guest on the occasion. Special Speakers of the event Mr Salil Das, Former Director, Directorate of Information Technology, Government of Tripura delivered lecture on the topic 'Advancement of IT Communications' and Dr Arpan Laskar, Head, Civil Engineering Department, Techno College of Engineering, Agartala also delivered presentation on the occasion.

Observed World Telecommunication and Information Society Day in association with Bharat Sanchar Nigam Limited, Tripura Business Area on 17 May 2022 at Agartala. A Seminar was organized on the topic 'Digital Technologies for Older Persons and Healthy Ageing' at Auditorium of Techno College of Engineering Agartala, Tripura. Special Guest of the event was Mr Mukesh Kumar Gupta, General Manager, Bharat Sanchar Nigam Limited, Tripura Business Area. Special Speakers of the event were Mr Bikas Sarkar, Deputy General Manager, Bharat Sanchar Nigam Limited, Tripura Business Area and Mr Bidyut Datta, Additional Director, Directorate of Information Technology, Government of Tripura.

Organized Webinar of Electrical Engineering Division on 21 May 2022 through online mode. Special Speakers of the event, Dr S Dharmalingam, Visiting Faculty, Department of Electrical Engineering, National Institute of Technology, Tiruchirappalli and Council Member, IEI delivered lecture on the topic 'Indian Power Sector – Challenges and Opportunities for the Clean Energy Transition' and Mr Raj Chakraborty, Department of Electrical Engineering, National Institute

of Technology, Agartala delivered presentation on the topic 'Optimal Placement of Electric Vehicle Charging Station with V2G Provision using Symbiotic Organisms Search Algorithm'.

Observed World Earth Day in association with Rural Development Department, Government of Tripura on the topic 'Quality Control of Civil Engineering Works' on 02 June 2022 at Agartala. Special Guest of the event was Mr Swapan Kumar Das, Chief Engineer, Rural Development Department, Government of Tripura. Special Speaker of the event, Mr R K Majumder, IAS (Retd), Former Director, Urban Development Department, Tripura delivered lecture on 'Quality Control of Civil Engineering Works'.

Organized Webinar of Computer Science and Electronics and Telecommunication Engineering Division on 04 June 2022. Special Speakers of the event, Prof (Dr) Jagtar Singh, Professor and Head, Electronics Engineering Department, Yadavindra College of Engineering, Punjabi University, Patiala, Punjab and Chairman, Bathinda Local Centre, IEI made power point presentation on the topic 'Innovations in Microstrip Fractal Antenna Design for Wireless Communication'; Dr Manpreet Kaur, Assistant Professor, Electronics Engineering Department, Yadavindra College of Engineering, Punjabi University, Patiala delivered lecture on the topic 'Electromagnetic Radiations and Its Effect on Living Beings' and Mr Manthan Ghosh, Department of Electronics and Communication Engineering, Tripura University on the topic 'Electronics in Bio Medical Engineering'.

Observed World Environment Day in association with Department of Science, Technology and Environment, Government of Tripura and Institution of Public Health Engineers, India, Agartala Regional Centre on the topic 'Only One Earth' on 05 June 2022 at Agartala. Special Guests of the event were Mr Animesh Das, IAS, Director, Department of Science, Technology and Environment, Government of Tripura and Mr Shyamal Bhowmik, Chief Engineer, Urban Development Department, Government of Tripura and Vice Chairman, Institution of Public Health Engineers, India, Agartala Regional Centre. Special Speaker of the event was Mr Anjan Sengupta, Senior Scientific Officer, Directorate of Biotechnology, Government of Tripura.

Observed World Environment Day in association with Tripura Biodiversity Board; Tripura State Pollution Control Board and Dhalai District Polytechnic, Ambassa on the topic 'Only One Earth' on 06 June 2022 at Ambassa. A Seminar was organized on the occasion. Mr M S Roy, Former Chief Engineer, ONGC Limited, Agartala inaugurated the function. Special Speakers of the event, Shri Sushanta Das, Junior Scientist, Tripura State Pollution Control Board and Mr Sajal Kanta Das, Principal, Dhalai District Polytechnic delivered lecture on the theme.

Organized webinar on 18 June 2022. Special Speakers of the event, Dr Bharat Kumar Kalubhai Modhera, Assistant Professor, Department of Chemical Engineering, Maulana Azad National Institute of Technology, Bhopal and Member, Research and Development Committee, IEI delivered presentation on the topic 'Advanced Material Synthesis, Characterization and their Industrial Applications' and Mr Saikat Das, Department of Material Science and Engineering, Tripura University presented on the topic 'Effect of SiC Particle Reinforcement on Mechanical Properties and Corrosion Behaviour of 7075 Aluminum Alloy'.

Organized Webinar of Environmental Engineering Division, Architectural Engineering Division and Agricultural Engineering Division on 25 June 2022. Special Speakers of the event, Prof (Dr) L K Mishra, Professor, Civil Engineering Department, Motilal Nehru National Institute of Technology, Allahabad delivered presentation on the topic 'Durability Considerations in Concrete Mix Design' and Dr Diptesh Chanda, Post Doctoral Fellow, Civil Engineering Department, Indian Institute of Technology Bombay delivered lecture on the topic 'Importance of Soil Structure Interaction in Design of Foundations'.

Organized a technical talk on 29 December 2022 at Tripura. Er C Debnath, President, IEI graced the function as Chief Guest and delivered lecture on the topic 'Role of IEI for Nation Building'. Special Guests and Special Speakers of the event were Prof (Dr) Swapan Bhaumik, Former Vice President, IEI and Mr Ranjit Kumar Majumder, Past Chairman, Tripura State Centre, IEI. The Speakers highlighted the contribution of IEI for nation building since its inception in the year 1920 through its 125 State/Local Centres. Dr Subhadeep Bhattacharjee, Chairman, Tripura State Centre, IEI presided over the programme. Earlier, Dr Mrinal Kanti Deb Barma, Honorary Secretary, Tripura State Centre, IEI delivered the welcome address.

LOCAL CENTRES

Chandrapur

Organized technical webinar on 'Optimization in Power Sector' on 13 April 2022 at Chandrapur. Speaker of the event, Dr P P Bedekar, Professor, Electrical Engineering Department, Government College of Engineering, Amravati focused on co-ordination in transmission lines, fault location, reactive power planning, load forecasting, fault section estimation, network configuration, etc. Dr Z J Khan, Principal, Rajiv Gandhi College of Engineering, Research and Technology (RCERT), Chandrapur emphasized on various aspects related to electrical engineering and advised the participants regarding awareness in technological developments in the field of electrical engineering. Prof M K Shende, Associate Professor, Department of Civil Engineering, Rajiv Gandhi College of Engineering, Research and Technology (RCERT), Chandrapur focused on optimization techniques in daily life and how much it is beneficial to the society and budding engineers.

Coimbatore

Organized technical webinar in association with Department of Computer Science and Engineering, Dr N G P Institute of Technology, Coimbatore on the topic 'Industrial Landscape for AR/VR' on 15 July 2022. Guest Speaker of the event, Mr Vinoth Kannan Sivaraj, Head of Design, KS Smart Solutions, Chennai spoke briefly on effective training towards basic aircraft flying in the perspective of AR/VR concept and displayed the model of Indian Air Force training simulator. He discussed on various project problem statements and solutions like VR museum marketing and revenue solution, Eco Park marketing solutions, MOP VR social impact solutions, education VR social impact solution etc.

FORUM

National Design and Research Forum

Organized a program on Dr A P J Abdul Kalam's Ideas, Philosophies, Practices for Nation Building, in association with Prayoga Institute of Education Research on 19 December 2022 at Bengaluru. Distinguished Scientists from ISRO and DRDO were invited as guest speakers to share their professional association with the legendary scientist. The academicians, researchers, industrialists, students joined the program and others joined the program virtually. Speakers of the event, Dr B N Suresh, Padma Awardee remembered Dr Kalam as the person, who was able to track the right person, for the right problem to find the right solution and was able to trigger young minds on advanced topics. Dr A S Kiran Kumar, Padma Awardee mentioned several instances as quoted by Dr Kalam in his book 'Transcendence: My Spiritual Experience with Pramukh Swamiji'. Dr Kumar also mentioned that any technology is generally double edged but his philosophy and practice were touch upon the positive aspects of any project. Dr Kalam always looked at life in totality and if we are able to do so, it would be the best way to remember Dr Kalam, he added. Lt Gen (Dr) V J Sundaram mentioned that Dr Kalam always said that we must have dream and work hard to realize that dream. He narrated every stage of his professional association with Dr Kalam from concept of design, development and manufacturing to induction into the armed forces. Dr Prahlada Rama Rao, Padma Awardee in his address mentioned that Dr Kalam was a versatile human being and bought the Indian industry to the forefront of the country's defense and space activities. He stated that Dr Kalam was committed to his statements and was a believer in speed, speed in administration, speed in technical decision making, speed in financial matters, etc. Dr B N Raghunandan, a senior academician in the field of aerospace engineering, recalled that Dr Kalam always said that IISc Bangalore should become the Nalanda of India and bring back the glory and added that Dr Kalam believed and practiced that alongside our achievements, we should not forget our roots. Dr P S Subramanyam, Former Program Director of LCA project said that Dr Kalam strongly emphasized the development of critical and denied technologies and mentioned his belief that every denial be considered as an opportunity for self-reliance. Dr B V A Rao, senior academician explained the rich development activities by Dr Kalam, which enabled many innovations and new ideas in developing systems for aerospace applications.

IEI DIARY



Agricultural Engineering Division

One Day Seminar on **"Water Conservation Technologies – A Way forward for water related Sustainable Development Goals of United Nation"**

Hyderabad, February 04, 2023

The Honorary Secretary, IEI, Telangana State Centre, IEI, 6-2-910, "Visvesvaraya Bhavan", Khairatabad, Hyderabad 500004 [☎: 040-23314969/23373087/23370779, E-mail: telanganasc@ieindia.org, Website: www.ieitsc.org.in]

Architectural Engineering Division

Thirty-seventh National Convention of Architectural Engineers on **"Modern Trends in Architectural Engineering & Construction Practices"**

Pune, March 18-19, 2023

The Honorary Secretary, IEI, Pune Local Centre, 1332, Abhiyanta Bhavan, Shivajinagar, J M Road, Pune 411005, [☎: 020-25533376/25530250/25520239, E-mail : punelc@ieindia.org; Website : www.ieipune.org]

Civil Engineering Division

All India Seminar on **"IoT Applications in Civil Engineering"**

Madurai, January 11-12, 2023

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

All India Seminar on **"Green Building - Need of the Hour"**

Dharwad, January 20-21, 2023

The Honorary Secretary, IEI, Dharwar Local Centre, Balekundry Bhavan, Sir M Visvesvaraya Road, D C Compound, Dharwad 580001 [☎: 0836-2742979, E-mail : dharwadlc@ieindia.org]

All India Seminar on **"Water Security: Challenges for Present and Future"**

Ranchi, January 21-22, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO : Doranda, Ranchi 834002 [☎: 0651-2491344, Mobile: 9431382798, E-mail : jharkhandsc@ieindia.org, Website: ieijscjharkhand.org]

All India Seminar on **"Use of Green Technology in Road Construction"**

Ranchi, January 28-29, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO : Doranda, Ranchi 834002 [☎: 0651-2491344,

Mobile: 9431382798, E-mail : jharkhandsc@ieindia.org, Website: ieijscjharkhand.org]

One Day Seminar on **"Sustainable Management of Clean Water and Sanitation in Rural and Urban Areas"**

Kanchepuram, February 15, 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 **"Remote Sensing & GIS Applications on Water Resources Engineering"**

Kanchepuram, March 03-04, 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 **"Impact of Waste Water on the Environment & Its Efficient Management"**

Lucknow, March 18-19, 2023

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [☎: 0522-2625322, E-mail : upsc@ieindia.org, Website: www.ieiup.org.in]

Computer Engineering Division

Thirty-fifth National Convention of Computer Engineers on **"Cyber Security/Privacy"**

Bareilly, February 18-19, 2023

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

All India Seminar on **"Recent Trends in Information and Communication Technology"**

Kanchepuram, March 15-16, 2023

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

Electrical Engineering Division

All India Workshop on **"Renewable Energy Integration with Energy Storage Systems"**

Tiruchirappalli, January 04-05, 2023

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

All India Workshop on **"Role of Power Converters and Drives for Electrical Vehicles"**

Tiruchirappalli, February 17-18, 2023

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

Electronics and Telecom. Engineering Division

All India Seminar on **"Mechatronics - An Emerging Technology and Future Trends"**

Bareilly, January 10-11, 2023

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

One Day Seminar on **"Emerging Signal Processing Applications"**

Hyderabad, February 11, 2023

The Honorary Secretary, IEI, Telangana State Centre, 6-2-910, "Visvesvaraya Bhavan", Khairatabad, Hyderabad 500004, Telangana, [☎: 040-23314969/23373087/23370779, E-mail: telanganasc@ieindia.org, Website: www.ieitsc.org.in]

Marine Engineering Division

All India Seminar on **"Smart and Sustainable Marine Operations: Emerging Paradigm"**

Ranchi, January 07-08, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO : Doranda, Ranchi 834002 [☎: 0651-2491344, Mobile: 9431382798, E-mail : jharkhandsc@ieindia.org, Website: ieijscjharkhand.org]

All India Seminar on Proposed **"Port Bill 2022 & Its Implications in Maritime Logistics"**

Hyderabad, January 08-09, 2023

The Honorary Secretary, IEI, Telangana State Centre, IEI, 6-2-910, "Visvesvaraya Bhavan", Khairatabad, Hyderabad 500004 [☎: 040-23314969/23373087/23370779, E-mail: telanganasc@ieindia.org, Website: www.ieitsc.org.in]

Mechanical Engineering Division

All India Workshop on **"Smart Manufacturing and Automation using Advanced Robotics"**

Kanchepuram, January 04-05, 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 **"Challenges and Opportunities in Electric Vehicles"**

Madurai, February 15-16, 2023

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

Thirty-eighth National Convention of Mechanical Engineers on **"Emerging Trends and Developments in Smart Manufacturing, Renewable Energy and Mechanical Systems Diagnostics/Design"**

Nagpur, September 08-09, 2023

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

Metallurgical & Materials Engg. Division

Thirty-fifth National Convention of Metallurgical & Materials Engineers **"Valuing Low-grade Ore and Waste: Challenges and Remedies"**

Durgapur, January 21-22, 2023

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

Mining Engineering Division

All India Seminar on **"Sustainable Development of Mines - Role of Mining Technology"**

Ranchi, January 07-08, 2023

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, PO : Doranda, Ranchi 834002 [☎: 0651-2491344, Mobile: 9431382798, E-mail : jharkhandsc@ieindia.org, Website: ieijscjharkhand.org]

Production Engineering Division

Thirty-seventh National Convention of Production Engineers on **"Recent Trends and Future Direction in Production Engineering and Management: Vision 2030"**

Kolkata, June 16-17, 2023

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

Textile Engineering Division

Thirty-fifth National Convention of Textile Engineers on **"Resource Efficient Technologies in Textile Manufacturing"**

Kolkata, February 11-12, 2023

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

Interdisciplinary Coordination Committee

All India Seminar on **"Role of Artificial Intelligence in Technological Advancements in Industry"**

Hyderabad, January 06-07, 2023

The Honorary Secretary, IEI, Telangana State Centre, IEI, 6-2-910, "Visvesvaraya Bhavan", Khairatabad, Hyderabad 500004 [☎: 040-23314969/23373087/23370779, E-mail: telanganasc@ieindia.org, Website: www.ieitsc.org.in]

All India Seminar on **"Piped Distribution Systems in Irrigation Projects for Improving Water Use Efficiency"**

Hyderabad, January 20-21, 2023

The Honorary Secretary, IEI, Telangana State Centre, IEI, 6-2-910, "Visvesvaraya Bhavan", Khairatabad, Hyderabad 500004 [☎: 040-23314969/23373087/23370779, E-mail: telanganasc@ieindia.org, Website: www.ieitsc.org.in]

IEI Celebrates Royal Charter Day

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Tuticorin

Tuticorin Local Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 at Tuticorin. Mr A Sivakumar, Chairman, Tuticorin Local Centre, IEI welcomed the participants and briefed about the importance of Royal Charter. Keynote speaker of the event, Mr Krishnakumar, Chief Engineer, Tuticorin Thermal Power Station spoke about the IEI and its function. At the end, Mr T Sivageerthi, Honorary Secretary, Tuticorin Local Centre, IEI proposed the vote of thanks.

Varanasi

Varanasi Local Centre, IEI observed Royal Charter Day 2022 on 09 September 2022 online. Speakers of the event, Prof (Dr) Ramji Agrawal, Retired Professor, Department of Civil Engineering, ITBHU, Varanasi and Founder Member and Former Chairman, Varanasi Local Centre, IEI spoke on the history of Royal Charter granted to IEI along with its' function and scope. Prof (Dr) Manoj Kumar Padhy, Professor, Faculty of Law, Banaras Hindu University, Varanasi discussed Contract Laws, Intellectual Property Laws, laws and regulations engineers and managers should know. Earlier, Mr Ramashanker Prasad Gupta, Chairman, Varanasi Local Centre, IEI welcomed the delegates. At the end, Prof Prabhas Bhardwaj, Former Honorary Secretary, Varanasi Local Centre, IEI proposed the vote of thanks.

Empanelment as Advocate/ Attorneys & Chartered Accountant for Engineers

The Engineers practicing as Advocate/ Attorneys and Chartered Accountants are invited to be empanelled with The Institution of Engineers (India) for promoting their visibility in public domain.

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-RegistrationForEmpanel.aspx> for further details.

Project Management Associates Weekend Programme



International Project Management Association

IPMA is a federation of about 72 Member Associations (MAs) who develop project management competences in their geographic areas of influence. Through IPMA, project management practitioners from all parts of the world can network, share ideas through effective collaboration and cooperation.

Who / Why to Attend

Professionals across all levels who want to understand the intricacies of Project Management and want to excel in managing projects to advance their career.

Discounted Program Registration Fee for IEI Members (15% discount from the published fee)

Participation Fee for Level C: Rs. 47,090 per person plus GST @ 18%

Participation Fee for Level D: Rs. 24,650/- per person plus GST @ 18%

- Registration fee is non refundable. However, alternate persons can be nominated.
- Cheque / draft or NEFT is payable to "Project Management Associates" at Delhi.
- The registration fee does not include travel and hotel accommodation.

Next batch of on-line learning sessions on Project Management Competence Building (PMCB) based on ICB Version 4, knowledge base for IPMA Level C and Level D by our Learning partner PMA is from **6, 7, 13, 14 January 2023**. The relevant material is available in the link <https://www.pma-india.org/brochures>.

Exam Dates for Level C: 21, 27, 28 January 2023

Exam Dates for Level D: 21 January 2023

Exam Venue: Secure and Seamless Online Exam & Assessment

For more details, please contact:

Arvind Agarwal, Head, PMA Cert (Certification Body)

Project Management Associates

FC-33, Plot No. 1 & 2, Periyar Centre, 3rd Floor, Institutional Area, Jasola, New Delhi – 110025

Tel: 011 41421511 Mob: +91 9711631534-35/39, 9840432229, Website: www.pma-india.org, Email: info@pma-india.org /

Superannuation from IEI



Mr Krishna Sankar Karmakar, an employee of the Institution HQ will be superannuating from the services of IEI on December 31, 2022. He joined the Institution on January 01, 1981 and rendered his services to the Institution over a period of 41 years.

IEI is grateful to Mr Krishna Sankar Karmakar for his valued service to this organization. IEI wishes Mr Krishna Sankar Karmakar and his family a happy and healthy life in the future.

Mr Kuspal Singh, an employee of the Haryana State Centre of the Institution will be superannuating from the services of IEI on December 31, 2022. He joined the Institution on November 01, 2000 and rendered his services to the Institution for a period of 22 years.

IEI is grateful to Mr Kuspal Singh for his valued service to this organization. IEI wishes Mr Kuspal Singh and his family a happy and healthy life in the future.



IEI NEWS

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Associate Editor: Dr Jitendra Saxena

Special Contributors: Mr S Chakraverty, Dr K Sen
Mr P Chakraborty, Mr A Das, Ms H Roy, Mr S Bagchi

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