

IEI NEWS

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A CENTURY OF SERVICE TO THE NATION

Volume 30

Number 4

Centenary Celebration of Uttar Pradesh State Centre, IEI

The **Uttar Pradesh State Centre** of The Institution of Engineers(India) observed its Centenary Celebration on June 10, 2023, at Lucknow, to mark the completion of the 100 glorious years of its establishment. Hon'ble Deputy Chief Minister of Uttar Pradesh, Shri Brajesh Pathak, graced the function as Chief Guest. Dr Hemant O Thakare, Immediate Past President, IEI graced the occasion as Special Guest.



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From the President's Desk.....

Chandrayaan-3: Unleashing Engineering Marvels for Lunar Exploration

All Indians are thrilled with the ground breaking accomplishment of the country in the realm of space exploration: the successful launch of the Chandrayaan-3 mission. This momentous event has captivated the attention of individuals worldwide, as engineers and enthusiasts alike eagerly anticipate the next chapter in our journey of lunar exploration.

On the historic day of 14th July 2023, at 2:35 pm IST, Chandrayaan-3 embarked on its odyssey, marking a significant milestone in our pursuit of knowledge beyond Earth. This mission, comprising a Lander and Rover configuration, has set its sights on a momentous landing near the lunar south pole region on 23rd August 2023.

The engineering behind design for Chandrayaan-3 is poised to redefine our understanding of the lunar landscape. The Lander module, equipped with cutting-edge technologies, will execute a precise and gentle touchdown at the designated lunar site, allowing the Rover to commence its in-depth chemical analysis of the lunar terrain. The intricately designed propulsion module, in conjunction with its Spectro-polarimetry of Habitable Planet Earth (SHAPE) payload, has successfully propelled the Lander and Rover configuration to a lunar orbit of 100 km.

The payloads housed within the Lander on Chandrayaan-3 exemplify the ingenuity and expertise of our engineers. The Chandra's Surface Thermophysical Experiment (ChaSTE) will enable us to meticulously measure thermal conductivity and temperature, unraveling the intricacies of the lunar environment. Additionally, the Instrument for Lunar Seismic Activity (ILSA) will diligently monitor seismic activity around the landing site, offering crucial insights into the moon's geological characteristics. The Langmuir Probe (LP) will diligently estimate plasma density and its variations, shedding light on the lunar atmosphere. Notably, a Passive Laser Retroreflector Array (PLRA) from NASA was also included which is a testament to our collaborative efforts in lunar laser ranging studies.

The Rover payloads, equipped with the Alpha Particle X-ray

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All India Seminar under the aegis of Mechanical Engineering Division Board

Sustainable Development of Industries through Industry 4.0 Application

Belagavi Local Centre, IEI, organized an All India Seminar on the theme **Sustainable Development of Industries through Industry 4.0 Application** during 03 - 04 December 2022 under the aegis of Mechanical Engineering Division Board [MCDB], IEI & in association



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July 2023

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Centenary Celebration of Uttar Pradesh State Centre, IEI

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In his Inaugural address, the Deputy Chief Minister, Shri Pathak, highlighted the strength of engineers and focused on the unprecedented progress in the field of infrastructural development. He further mentioned the construction of bridges, flyovers, highways etc, and added that today we are capable enough to provide regular electricity supply to every nook and corner of the state than ever before, due to the dedicated efforts of the engineers. He appreciated the cooperation of The Institution of Engineers(India) in state building.

He further appreciated the sincere efforts of the engineers for the construction of the prestigious Central - Vista at Delhi and mentioned that in the modern technological era, anybody will be completely flabbergasted to see the advancement of technology applied in the construction of the new Parliament building. He discussed the Pradhan Mantri Awas Yojna, the National Urban Livelihood Mission and highlighted the rapid expansion of Metro projects all over the country.

Special Guest, Dr Hemant O Thakare, Immediate Past President of IEI, requested all the engineers to cooperate fully in fulfilling the dream of our Hon'ble Prime Minister to achieve the Five Trillion US Dollars Indian economy. He mentioned that for the past one hundred years, this esteemed Institution has played a pivotal role in advancing engineering knowledge,

promoting excellence in the field, and shaping the future of our nation. On the occasion, the Immediate Past Vice President of IEI, Er V B Singh, in his address, mentioned that the Uttar Pradesh State Centre, IEI, was established in the year 1921 in Amiruddaula Library Building in Kaiserbagh, Lucknow and shifted to its own building, the "Engineers' Bhawan", River Bank Colony, Lucknow, in the year 1958 and has been operative since then in the current Building, which was inaugurated by the then Central Water & Electricity Minister, Hafiz Mohmmad Ibrahim, in February 1958. The Institution of Engineers (India), UP State Centre accomplished several key points, be it legacy or excellence, promoting innovations, skill development and education, sustainable developments and collaborative partnerships, he mentioned.

In the beginning of the event, Er Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI, welcomed the Chief Guest, Special Guest, Immediate Past Vice President, Er V B Singh, the Corporate Members and other guests with a pledge to continue to strive for engineering excellence, innovation, sustainability and collaboration. Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI, proposed the vote of thanks at the end of the function to all the dignitaries, members, etc. and the large gathering for sparing their valuable time out of their busy schedule for this purpose.

Sustainable Development of Industries through Industry 4.0 Application

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with the Belgaum Foundry Cluster & The Institute of Indian Foundrymen, Belgaum Chapter at Belagavi. The objective of the Seminar was to connect the industry and academia, with the latest developments occurring in the Industrial Sector. The Seminar also aimed to bring revolutionary changes in the ideas of its participants, relating to the implementation of the latest technologies in design and application of fourth industrial revolution. The programme was designed to understand the applications of Industry 4.0 in industry with elaborative sessions on application concepts. Industry experts and consultants, with their strong expertise in the domain, shared their experience, insight, thoughts and views with the participants. The Seminar attended by a diverse audience, including engineers, industrialists, industry consultants and students. The Seminar started with the welcome address delivered by Er Ramesh T Jangal, Chairman, Belagavi Local Centre, IEI. In his address, he highlighted the importance of sustainable development of industries through Industry 4.0 application and welcomed all the distinguished guests, speakers, and participants to the Seminar. Smt Mangala Suresh Angadi, Honorable Member of Parliament, inaugurated the Seminar and graced the occasion as Chief Guest. Shri Abhay Patil, Hon'ble Member of Legislative Assembly, Belagavi South, graced the function as the Guest of Honour. In her address, Smt Angadi emphasized the importance of sustainable development of industries through Industry 4.0 application and innovative solutions to address the challenges faced by society. She further encouraged the audience to work towards a sustainable future and make a positive impact on the society.

Dr Enti Ranga Reddy, Chairman, Mechanical Engineering Division Board, IEI, delivered an Invited Talk on the theme of the Seminar. In his lecture, Dr Reddy highlighted that the industrial world is facing different challenges with rapidly changing dimensions, when our resources are finite and it is required to do more with less. Digitalization and automation are the game changers to meet these challenges on the way to implement Industry 4.0, he mentioned. Dr Reddy explained that, in this digital era, people rely on machines and gadgets to reduce and optimize mundane tasks. The advancement in technologies leads to prosperity in our life to make it hassle-free and comfortable, he opined.

During the technical sessions, Dr Jacob Crasta, Founder Chairman of CM Envirosystems Private Limited (CME), a leading manufacturer of Environmental Test Simulation Equipment in India, Chairman, Lsquare Eco Products Private Limited, Bangalore, Past President of Peenya Industries Association, FKCCI and KASSIA and a Member of the Advisory Board for many Business schools delivered his presentation on the topic 'Sustenance of Industry: Way forward through Digitization' and explained the practical aspects and benefits of implementing Industry 4.0. Mr Basavaraj Hooli, Managing Director of OptAloT Private Limited, Pune and Consultant: C-DAC (Centre for Development of Advanced Computing), A Scientific Society of the Ministry of Communication & Information Technology, Government of India, a Technology professional and a Telecom domain specialist with diverse experience in industry, start-ups, entrepreneurship and research delivered lecture on 'Automation to Industry 4.0'. Mr Ajith Sarnaik, Head, Technology Group, OptAloT, USA delivered lecture in virtual mode on the topic 'IoT Data Acquisition, Application and Insights (AI/ML)'. Dr N P Rajamane, Scientist, Founder & Former Head, Centre for Advanced Concrete Research (CACR), SRM IST, Formerly SRM University and Advanced Materials Lab (AML), Formerly Concrete Composition Lab, CSIR-SERC spoke on the topic 'Eco Friendly Materials: A View on Possibility of Inorganic Geopolymers for Fire Resistant Fibre Reinforced Composites'. Dr Raghuraj Rao, MD & CEO, Akxa Tech Private Limited, Belagavi delivered presentation on the topic 'Smart Factories'.

Mr Sunil Sangolli, Dean, Corporate Relations, VSMIT, discussed on 'Artificial Intelligence Based Features Recognition of Solid Models: A Step Towards Industry 4.0'. Dr Poornima M Charantimath, Emeritus Professor, KES's Institute of Excellence in Management Science (IEMS), Hubballi, delivered lecture on 'Sustainable Development of Industries through Industry 4.0 Application; Green Manufacturing'. Prof (Dr) Suresh D Mane, Principal, Dr D Y Patil Parathisthan's College of Engineering, Kolhapur, discussed on the topic, 'Sustainable Construction: A Case Study of Passive Insulation in an Educational Institution'. Dr V M Aparanji, Assistant Professor, Electronics and Communication Department, Siddaganga Institute of Technology, Tumkur, discussed on 'Agritech Robot for Spraying Fertilizers'. Er M P Metri, Executive Committee Member, Belagavi Local Centre, IEI, delivered

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Role of Engineers in Building Five Trillion Economy of India

An All India Seminar on the theme **Role of Engineers in Building Five Trillion Dollar Economy of India** was organized during June 10-11, 2023 by **Uttar Pradesh State Centre, IEI**, under the aegis of Civil Engineering Division Board [CVDB], IEI. The Seminar was inaugurated by Shri Durga Shankar Mishra, IAS, Chief Secretary, Government of Uttar Pradesh. In his address to the august audience, Shri Mishra laid emphasis on the role of engineers in achieving the \$5 Trillion Indian economy and appealed to the engineering fraternity to work with zeal & devotion to achieve this goal.

He further highlighted the contribution of the manufacturing sector, service sector, construction sector & agriculture sector to contribute their best to fulfill the dream of the Hon'ble Prime Minister of India. Shri Mishra, also released the Proceedings of the Seminar and appreciated the sincere effort of Uttar Pradesh State Centre, IEI, for selecting the appropriate theme.

Shri Arvind Kumar Jain, E-in-C, HOD, PWD, delivered Keynote lecture on the theme of the Seminar and elaborated on the importance of the road sector in infrastructural growth and development. He further explained the linear and circular model of development, Reduce – Reuse – Recycle (3R) model and so on. Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI and Shri Vinod Kumar Saxena, SCC Member, Uttar Pradesh State Centre, IEI, delivered Invited Lectures on the theme of the day.

During the technical sessions, papers were presented on the theme by Prof R K Singh, Former Vice Chancellor, SBS University, Dehradun; Wg Cdr Prof (Dr) Anil Kumar, Deputy Pro Vice Chancellor, Amity University, Lucknow; Shri Suneel Kumar Srivastava, General Manager, HAL, Accessories Division, Lucknow; Dr R C Srivastava, Former Vice Chancellor, Dr Rajendra

Prasad Central Agricultural University, Samastipur, Bihar; Prof M Z Khan, Civil Engineering Department, IET Lucknow; Er Prashant, Chief Manager (Tech), CEO Office, HAL, Lucknow and Dr Mukesh Kumar Singh, Professor, UPTTI, Lucknow.

Prof (Dr) P K Goswami, Amity University, Lucknow delivered lecture on the topic 'Contribution of Information Technology in Building Five Trillion Economy in India'. Shri Vinod Kumar, Regional Director, RCMA, DRDO,

Lucknow, delivered lecture on 'Role of Regulation in Military Aerospace Requirement'.

Prof (Dr) Bharat Raj Singh, Director General (Technical), School of Management Sciences, Lucknow presented paper on the topic 'Uttar Pradesh State Engineers Effort in Building of Indian 5 Trillion Dollar Economy'. Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI delivered lecture on the topic 'Role of Agricultural Engineers in Building Five Trillion Economy of India'. Dr K K Gupta, Textile Engineering Division, Uttar Pradesh State Centre, IEI deliberated on the topic 'Cut Resistance Fabric: Its Field of Application and

Market Profile for contribution in Economic Growth of India'. Dr S K Pandey, Scientist/Engineer, ISRO, ISTRAC, Government of India delivered lecture on 'Indian Space Sector: Ready for Accelerated Growth'.

The Valedictory Function was presided over by Er Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI. Dr S K Pandey, Senior Scientist, ISRO graced the function as Special Invitee. Er V B Singh, Council Member and Former Vice President, IEI was present on the occasion. Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI, proposed the vote of thanks.



Technological Innovation in Sea Water Desalination, Waste Water Management and Zero Liquid Discharge

Navi Mumbai Local Centre, IEI organized an All India Seminar on the theme **Technological Innovation in Sea Water Desalination, Waste Water Management and Zero Liquid Discharge** during 26-27 November 2022 under the aegis of Marine Engineering Division Board [MRDB], IEI at Belapur. Dr Mohan Balwant Dagaonkar, Former City Engineer, Navi Mumbai Municipal Corporation graced the occasion as the Chief Guest. Shri Turbasha Bhattacharya, Business Head, Roserve Enviro Private Limited, graced the function as Guest of Honour. Mr D G Mahajan, Senior Vice President Rochem India, the Solution Provider for Desalination, delivered the Keynote lecture. Cdr Dr Bhaskar M Bhandarkar, Chairman, Marine Engineering Division Board, IEI, was present on the dais and addressed the audience. During their lectures, the speakers emphasized the need for proper water management and highlighted that India is expected to become one of the most populated countries in the world within the next few years. Along with this, the global warming enhanced the need for new water conservation technologies and government policies to avoid water scarcity in the country. The speakers further discussed storm water management and proposed that the cities like Navi Mumbai, which already have holding ponds in place, can investigate treatment and utilization of this captured storm water. They also suggested reviewing the cost-effectiveness for this treatment compared to the treatment of wastewater/industrial effluent. The technical sessions included paper presentation on relevant topics, such as, Recycling and reuse of Industrial wastewater including Zero Liquid Discharge; Waste Heat Evaporator; Innovative Solutions for Sea Water



Desalination and Wastewater Management; Osmotically Assisted Reverse Osmosis (OARO) and Forward Osmosis; Waste Water Treatment using a Novel Reactor Design; Operation, Planning Control of Service Provision; Experimental Study of Progressive Freeze-concentration based Desalination Process and more. Earlier, Er Kishanrao M Godbole, Chairman, Navi Mumbai Local Centre, IEI delivered the welcome address. Er P Lakshman, Convener briefed about the theme of the Seminar and the topics of technical sessions. During the valedictory function, Mr Subesh Kumar, Chief General Manager, Engineers India Limited, Mumbai, graced the function as the Chief Guest. The programme was well attended by the professionals, participants and industry and academia.

Turning Students into Industry 4.0 Entrepreneurs

South Gujarat Local Centre, IEI, organized a One Day Workshop on the theme **Turning Students into Industry 4.0 Entrepreneurs**, in association with Dr S & S S Ghandhy Government Engineering College, Surat & Vidhyadeep University, Kim, under the aegis of Mechanical Engineering Division Board [MCDB] at Surat on 18 March 2023. Prof (Dr) C D Modhera, I/c Director & Faculty Welfare, SVNIT Surat graced the function as Chief Guest. Dr S R Joshi, Principal, Government Engineering College, Surat and Mr Jayantibhai Patel, Chairman, Vidhyadeep University were present on the



dais as Guests of Honour. The Keynote Speakers of the event were; Prof (Dr) Roopali Fulzele, Sharda University, Greater Noida; Er Sandip Patel, Asst. Professor, GEC Valsad; Prof (Dr) Prashant K Shah, Electrical & Electronic Engineering, SVNIT Surat; Dr Mahesh Padiya, Principal I/c, Vidhyadeep Engineering College, Kim & Prof K D Panchal, Assistant Professor, Department of Mechanical Engineering, Dr S & S S Gandhi Engineering College, Surat.

The programme commenced with a welcome address delivered by Dr Jignesh G Vaghasia, Chairman, South Gujarat Local Centre, IEI. Dr Vaghasia provided an overview on Industry 4.0 Entrepreneurship, highlighting the rapid changes in technology, industries, societal patterns and processes in the 21st century due to increasing interconnectivity and smart automation. The Chief Guest, Dr C D Modhera, I/c Director & Faculty Welfare, SVNIT Surat, in his address, explained the function of Smart Factory, Intelligent Systems and Cyber-physical Systems. He elaborated on the exchange of data within the product in the process and production line and its relevance with the supply chain, role of IoT. Guest of Honour Mr Jantibhai Patel, Chairman, Vidhyadeep University, in his address focused on the significant aspects of entrepreneurship and opined that entrepreneurship needs appropriate attention in research, education and practice. While Startup centres at Universities and Accelerator programs for specific fields like social entrepreneurship or healthcare have received a lot of attention in research, entrepreneurship has lacked similar focus so far and remains comparatively little researched, he felt. Guest of Honour, Dr Sanjay Joshi, Principal, GEC Surat has shared his valuable thoughts on the workshop topic and stated that our resources are finite, and we all need to do more with less. Dr Joshi mentioned that digitalization and automation are the game changers to meet these challenges on the way to implement Industry 4.0. It is essential to collect, understand and use the massive amount of data created in the Industrial Internet of Things (IIoT) domain, he opined. The Digital Enterprise is doing exactly this by combining the real and the digital world; As a result, the infinite amount of data allows us to use our finite resources efficiently and with that make the industry more

sustainable, he added. Keynote speaker, Prof (Dr) Roopali Fulzele, Sharda University, Greater Noida, delivered lecture on the topic 'Turning Students into Industry 4.0 Entrepreneurs'. Prof Fulzele discussed on the journey of Industry 4.0 and pointed out that each industry in India is expected to encounter a number of challenges related to the skill level of its workforce. Both hard and soft skills which are essential today might get obsolete in the future and hence, the workforce will be expected to be upgraded with new skills in their respective domain as per present demand; She further opined that most jobs will prioritized cognitive abilities and soft skills over physical abilities while defining work-related core skill sets. In the session, the speaker covered topics such as, Impact of Perceptions on Decision Making, Enhancing Interview Skills, Enrichment of Leadership & Communication Skills and the role of Emotional Intelligence in Industry 4.0. Then the students were given an exercise to improve their perception process and reduce perceptual errors. She deliberated on important points of interview skills and communication skills. She discussed on leadership skills, improvement of communication skill etc. Dr Roopali has also talked on the perception on decision making, leadership quality, communication skills, Halo effect etc. She has discussed the concept with real life examples to make understanding of the concept easier. Er Sandip Patel, Assistant Professor, GEC, Valsad mainly focused on basic knowledge and understanding of Industry 4.0 and Additive Manufacturing. He explained the 3D Printing Process and various types and various process of 3D printing with different technique. Industry 4.0 Technologies. Prof (Dr) Prashant K Shah, Electrical & Electronic Engineering, SVNIT Surat focused on 'Holistic Development for Compatibility with Industry 4.0' and gave detailed overview of evolution in AI system, Supervised Learning, Unsupervised Learning, Reinforcement Learning and Deep Learning. Dr Shah also explained the development of physical capabilities, intellectual abilities, cognitive or mental abilities, emotional abilities and social skills.

Dr Mahesh Padiya, I/c. Principal, Vidhyadeep University explained enhancement of operational efficiency by implementing Industry 4.0. He described Industry 4.0 as the assimilation of four criteria, namely Interconnection, which refers the ability of machines, devices, sensors, and people to connect and communicate with each other via IoT.

Information transparency, refers to the transparency provided by Industry 4.0 technology, offering operators comprehensive information for decision making. Interconnectivity also enables operators to gather vast amounts of data from all points in the manufacturing process, identifying key areas for improvement and enhancing functionality.

Technical assistance, refers to the use of technological systems to aid humans in decision-making and problem-solving.

Decentralized decisions refer to the ability of cyber-physical systems to autonomously make decisions and perform tasks. Tasks are only delegated to a higher level in cases of exceptions, interference, or conflicting goals.

Prof K D Panchal, Honorary Secretary, South Gujarat Local Centre, IEI, emphasized the digitization and integration of vertical and horizontal value chains. He pointed out Industry 4.0 integrates processes vertically across the entire organisation, including product development, manufacturing, structuring, and service. Horizontally, it encompasses internal operations from suppliers to customers and all key value chain partners. He also highlighted the importance of digitizing product and services, integrating new methods of data collection and analysis, expanding existing products or creating new digitised product to provide technical support to organizations to generate data on product use to refine products.

Earthquake, A Decade long Mega-Disastrous Event: Lessons Learn, Key Engineering Challenges & Mitigation

Tripura State Centre, IEI organized the IEI Technical Webinar on the theme **Earthquake, A Decade long Mega-Disastrous Event: Lessons Learn, Key Engineering Challenges & Mitigation** on 11 March 2023 under the aegis of Civil Engineering Division Board. Panelists of the session were, Dr H B Kaushik, Professor, Department of Civil Engineering and Centre for Disaster Management and Research, Indian Institute of Technology Guwahati; Prof Chandan Ghosh, Professor, National Institute of Disaster Management (NIDM) and Mr Manish Bharti, CEO, Cortex Construction Solutions Private Limited. Dr Rajib Saha, Associate Professor and Head, Department of Civil Engineering, NIT Agartala, moderated the session.

Dr H B Kaushik presented his expert talk on 'Lessons Learnt: Risk Mitigation Strategies in Future'. He highlighted the seismic risk associated with different types of building as well as site hazard. He mentioned the recent damages by earthquake in Turkey on February 2023 and analysed the possible causes behind the severity of damages. He presumed that extreme geographical location may be the primary reason behind this and opined that a concrete finding will be presented in near future only after detailed post-earthquake investigations. Next, he presented seismic risk associated with different typology of building structure, especially observed



Dr H B Kaushik

in countries like India and other developing nations. He focussed on the relative seismic performance of some non-engineered vernacular houses mostly found in north east India. At the end, he has presented salient research outcomes of his group by sharing experimental findings on full scale and laboratory scale buildings of different typologies varying from RC framed multi-storied buildings to adobe earthen and wooden houses. He has presented resourceful experimental data on non-linear dynamic stress strain behaviour of different building materials.

Prof Chandan Ghosh presented a lecture on the topic 'Engineering of DRR for Urban Living in Earthquake Prone Area' primarily focusing on seismic risk associated with traditional construction of buildings in Indian urban areas that do not adhere to codal guidelines. He has presented several case studies of buildings which has deviated from codal provisions and highlighted the probable seismic risk. Several full scale state of the art experiments carried on RC and steel multi-story building structures also presented, which helped the audience to understand the failure mechanism of different elements of structure during earthquake excitation. Furthermore,



Prof Chandan Ghosh

his presentation highlighted the importance of understanding the associated risk of seismic behaviour of secondary members in a building. Finally, the policy framing related issues of disaster risk mitigation and preparedness was also mentioned in his talk.

Mr Manish Bharati, the Invited Speaker from the industry, delivered a lecture on the topic 'Seismic Rapid Visual Screening and Health Assessment of Structure'. He focused on the vulnerability analysis of an infrastructure on visual inspection and NDT; estimation of design life of a structure; repair and retrofitting cost analysis; analysis of several case studies and development of seismic vulnerability assessment mobile App.



Mr Manish Bharati

At the end of the fruitful deliberation, moderator of the session summed up the deliberation. Earthquakes have been witnessed as mega disruptive events for countries over the decades. The substantial loss of property, utilities and lives during earthquake is a major concern for civil societies, hindering the overall resiliency of the system. Lessons from past earthquakes have contributed to the development of disaster mitigation plans, risk reduction programs, guidelines, improved preparedness and post-disaster action. Every earthquake event has posed various engineering challenges for engineers and researchers which have been gradually addressed through



Dr Rajib Saha

design guidelines in codal provisions of respective countries. In the latest disaster risk mitigation plan over the world, preparedness was given as highest priority among others for developing an robust resilient society. This webinar is an attempt in this direction. More specifically, the 6th February 2023 Turkey Earthquake was one of the most devastating recent events worldwide, even though there has been significant development in earthquake engineering knowledge and disaster mitigation models. However, the significant loss of lives and property during 21st century has made us questionable and given direction for serious attention to the failure case studies along with the geographical location. From this viewpoint, the significance of this webinar was significant and marked a milestone for countries like India. Keeping view on the recent and recent past earthquakes in past decades, the deliberation was made by three panellists about the seismic risk associated mainly with different typologies of structure and working out mitigation techniques as a whole. The importance of rehabilitating and retrofitting existing structures based on their current health condition was also emphasized during this webinar. Case histories of earthquake failures and DRR plan of developed nations were also presented and discussed elaborately. Critical views from audiences also helped a lot to address future challenges.

Earlier, Dr Subhadeep Bhattacharjee, Chairman, Tripura State Centre, IEI, welcomed the panellists, moderator and the virtual audience. At the end of the session, Dr Mrinal Kanti Deb Barma, Honorary Secretary, Tripura State Centre, IEI, proposed the vote of thanks.

Sustainable Development of Industries through Industry 4.0 Application

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lecture on 'Industry 4.0 Technologies'. Er Nilesh N Shedge, CTO at Enerlly discussed on the topic 'IoT based Advanced Energy & Resource Analytics Software to the aid of Industries'. The two-day deliberation underscored the importance of collaboration, diversity, inclusivity, and equity in innovation and highlighted the need for sustained commitment and investment in global challenges of our time. The Seminar provided a platform for the participants and industry experts to discuss and share experience about the scope of implementation of Industry 4.0 in promoting sustainable development. The

speakers provided valuable insights into the challenges faced by society and explored the roadmap, how industry could be used to address them.

Earlier, Dr Devendrappa Kenchakkanavar Veeranna, Honorary Secretary, Belagavi Local Centre, IEI briefed on the theme of the Seminar. Er Vilas Badami, Convener of the Seminar gave an overview of the Seminar theme and its objectives. The tremendous technological advancements of the industries over the period of time resulted in evolution of various technologies in the field of agriculture, health care, telecommunications, space exploration, transportation, IT and communication etc, he stated.

Future Trends & Potential in Electric Vehicle and Charging Station

In association with NIELIT, Uttarakhand State Centre, IEI, organised a Technical Webinar on the theme **Future Trends & Potential in Electrical Vehicle and Charging Station** on 10 September 2022, under the aegis of Electrical Engineering Division Board, IEI at Dehradun. The panelists of the session included; Dr Amlan Jha, GM-R&D, Lighting Electronics in Corporate Research and Innovation (CRI) Havells, Noida; Mr Manoj Kumar M K, Principal Technical Officer, National Institute of Electronics and Information Technology (NIELIT), Calicut and Dr Nishant Kumar, Assistant Professor, IIT Jodhpur. Moderator of the event was Mr D C Gupta, Uttarakhand State Centre, IEI.



Mr Manoj Kumar M K



Dr Amlan Jha



Dr Nishant Kumar

The programme was started by the Moderator of the event, Mr D C Gupta, Uttarakhand State Centre, IEI by introducing the topic to the participants. Mr Dharm Chandra, Chairman, Uttarakhand State Centre, IEI, delivered the welcome address. Prof (Dr) Sudhir Kumar Calla, Chairman, Electrical Engineering Division Board, IEI, in his address appreciated the appropriateness of the theme of the webinar and stressed the need to address the cause of pollution. He opined that charging stations must be installed on highways, multi-storey buildings, malls, universities, shopping complex, petrol pumps, as this would increase the adoption of electric vehicles. He further quoted the USA Policy and planning for popularising electric vehicles.

The event's speaker, Mr Anurag Kumar, Director, NIELIT, Hardwar also welcomed all on behalf of NIELIT and discussed briefly about the role of NIELIT for the benefit of students and Young Engineers. He



Mr Anurag Kumar



Mr D C Gupta

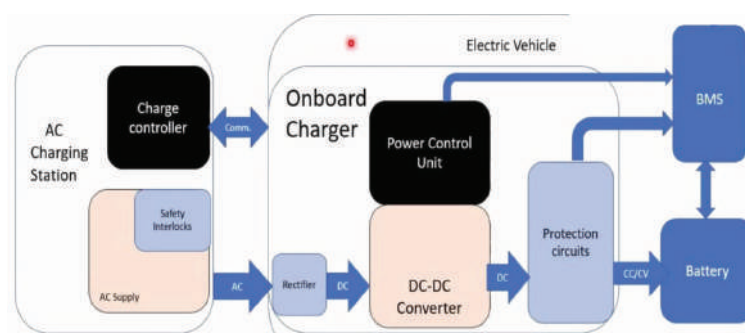
advocated for a transport revolution to popularise the electric vehicles in the country.

Panelist of the event, Dr Aman Jha, delivered his presentation on Electric Vehicle Design Eco System Perspective of Power Electronics. He elaborated power electronics for electric vehicles eco system in terms of charge, transmission & control.

Panelist, Mr Manoj Kumar M K, introduced the design and technology of electric vehicles, and elaborated on various types of electric vehicles and charging stations.

Panelist, Dr Nishant Kumar, presented his research work on solar power electric vehicle. He explained the mechanism of power generation by using the roof top of vehicle.

At the conclusion, moderator of the session summed up the proceedings. Er Satish Chand Chauhan, Honorary Secretary, Uttarakhand State Centre, IEI, proposed the vote of thanks.



From the President's Desk.....

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Spectrometer (APXS) and Laser Induced Breakdown Spectroscopy (LIBS), will play a pivotal role in discerning the elemental composition of the lunar surface in proximity to the landing site. These experiments will bestow upon us invaluable knowledge regarding the composition and geological history of the moon, unveiling the mysteries that lie dormant within.

The successful launch of Chandrayaan-3 signifies not only India's remarkable technological prowess but also the significance of international

collaboration and partnerships in the pursuit of scientific discovery. The Institution of Engineers (India) wholeheartedly commends the unwavering dedication and exemplary expertise demonstrated by the scientists and engineers involved in this awe-inspiring mission.

Let us collectively bask in anticipation as we eagerly await the extraordinary moment when the lander and rover delicately touch down near the lunar south pole region on 23rd August 2023. As engineers, we take immense pride in the contributions made by our profession, continuously pushing the boundaries of human knowledge and unlocking the secrets of the cosmos.

(Source: <https://www.isro.gov.in>)

First Students' Chapter in the State of Bihar

Muzaffarpur Institute of Technology, Bihar (MIT) inaugurated the Students' Chapters of the Institution for the first time in the state of Bihar under the jurisdiction of Muzaffarpur Local Centre of IEI. The Students' Chapters were established in the Department of Civil Engineering and Department of Electrical Engineering on 13 July 2023. Er Anjani Kumar Srivastava, FIE, Chairman, Muzaffarpur Local Centre, IEI, graced the occasion and highlighted a various activities of the Students' Chapter of the Institution during the function.

During his Inaugural address, Dr C B Mahto, Principal, Muzaffarpur Institute of Technology, explained the opportunities provided by the Students' Chapter in terms of various skills/ start-up programs for their students. At the event, Students' Chapter Certificates were presented to Faculty Advisors, Dr Ramjee Prasad Gupta, Department of Electrical Engineering and Dr Akas Priyadarshee, Department of Civil Engineering by Chairman, Muzaffarpur

Local Centre, IEI. The occasion was attended by a large number of faculty members, scholars, corporate members, students and media personnel.



IEI Celebrates

World Environment Day 2023

Theme : Solutions to Plastic Pollution

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

STATE CENTRES

Jammu & Kashmir

Jammu & Kashmir State Centre, IEI observed World Environment Day 2023 on 05 June 2023 in Srinagar and a Seminar was organized on the theme. The Hon'ble Mayor of Srinagar, Jenab Junaid Azim Mattu, graced the function as the Chief Guest. The event was graced by the presence of Guest of Honours Er Khurshid Ahmad Ganai, IAS, Former Advisor to the Governor of the erstwhile State of Jammu & Kashmir and Er Naseer Ahmad Kakroo, Chief Engineer of UEED, Kashmir. The event was coordinated by Er Ferdous Ahad Bhat, Honorary Secretary, Jammu & Kashmir State Centre, IEI. The participants were welcomed by Dr Raof Ahmad Khan, Chairman, Jammu & Kashmir State Centre, IEI. The Guest of Honours shared their valuable insights on the theme and the Chief Guest expressed gratitude to the Jammu & Kashmir State Centre, IEI, for organizing the event. The Seminar provided a platform for the participants to exchange ideas, explore innovative solutions to tackle the challenges associated with plastic pollution and raising awareness in the field of water conservation and management.

Gujarat

Gujarat State Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Ahmedabad. On the occasion, a tree plantation program was organized in the august presence of Er Dineshchandra Odhavjibhai Nakrani, Honorary Secretary, Gujarat State Centre, IEI, Distinguished Guests, Committee Members of Gujarat State Centre, IEI along with Corporate Members. Er Nakrani delivered the welcome address and explained the objectives and background to observe World Environment Day. A Round Table Discussion was organized, when the members shared their valuable insights on the theme. Distinguished Guest, Er K K Oza, Superintending Engineer (Electrical), Roads & Building Department, Government of Gujarat emphasized the important role of environment in healthy living and for existence of life on Planet Earth. Er C T Patel, Committee Member, Gujarat State Centre, IEI proposed the vote of thanks at the end of the event.

Meghalaya

Meghalaya State Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Meghalaya. Er Ezekiel Lyngdoh, Chairman, Meghalaya State

Centre, IEI welcomed the guests and dignitaries present at the occasion. Er J B Poon, Past Chairman, Shillong Local Centre, IEI & Past Chairman, Meghalaya State Centre, IEI, highlighted environmental pollution such as plastic clogs, ocean pollution and toxic smoke production through burning plastic, which is harmful to the planet earth. He spoke about the presence of microplastic in our daily food, drinks and the air we breathe. He explained the ill effects of various plastic products that contains harmful additives, which may pose a threat to human health and stressed the need for awareness among the public and prompt action from the Government, and other stakeholders to address this crisis. Er M Marbaniang, Past Chairman, Meghalaya State Centre proposed the vote of thanks.

Tripura

Tripura State Centre, IEI in association with Tripura State Pollution Control Board & Central Institute of Petrochemicals Engineering & Technology (CIPET), Agartala observed World Environment Day 2023 on 05 June 2023 in Agartala and organized a Seminar on the theme. The Chief Guest, Shri Dipak Majumder, Hon'ble Mayor, Agartala Municipal Corporation graced the occasion and emphasized the importance of energy saving, water saving, reduced use of single-use plastic, sustainable food systems, waste reduction, adopting a healthy life style and e-waste handling. He appealed to everyone to be more responsible in protecting the environment while disposing of wastes. The event was graced by the presence of Special Guest, Er P Vijay Kumar, Joint Director & Head, CIPET, Agartala and Special Speakers Dr Bishnu Karmakar, Member Secretary, Tripura Pollution Control Board; Mr Arunav Banerjee, Technical Officer, CIPET, Agartala; Dr V C Padmanaban, Assistant Professor, Bio-Engineering Department and Dr Animesh Debnath, Assistant Professor, Civil Engineering Department, NIT, Agartala. Er Tapan Lodh, Former Chief Engineer, Water Resource and Councillor, Agartala Municipal Corporation shared his valuable insights on the theme. The event deliberated on plastic waste management policies, useful applications of plastic recycling in Tripura, sustainable solutions to plastic pollutions such as using plastic wastes in road construction, furniture making, etc with a special focus on Tripura. The event was presided over by Dr Subhadeep Bhattacharjee, Chairman, Tripura State Centre, IEI. Earlier, the welcome address was delivered by Dr Mrinal Kanti Deb Barma, Honorary Secretary, Tripura State Centre.



Uttar Pradesh

Uttar Pradesh State Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Lucknow. A Seminar on the topic 'Solution to Plastic Pollution' was organized. The Chief Guest of the session, Prof R K Singh, Former Vice Chancellor, S B S University, Dehradun, Uttarakhand and Former Head, Department of Toxicology and Experimental Medicine, CSIR-CDRI, Lucknow, highlighted that plastic pollution has become a growing



worldwide concern due to its devastating effects on the environment. He emphasized the urgent need for long-term solutions to preserve of natural resources of the planet and protect its inhabitants, including humans, the environment and animals. He

explained the harmful effects of plastic pollution, such as, land degradation and emphasized that plastic waste is non-biodegradable, contains harmful additives and takes a long time to decompose. He stressed the importance of saving the environment by adopting remedial measure at individual, social and government levels. He further emphasized the promotion of reusable and biodegradable bags, water containers, etc. He expressed the opinion that education and awareness campaigns play an important role in changing societal attitude towards plastic pollution. To strive towards a cleaner and healthier planet, it is important for individuals, communities and government to come together and collaborate in tackling this global crisis. Earlier, Er Masarrat Noor Khan, Chairman, Uttar Pradesh State Centre, IEI, welcomed all. Er V B Singh, Former Vice President, IEI, was present on the dais. Dr Jaswant Singh, Honorary Secretary, Uttar Pradesh State Centre, IEI, proposed the vote of thanks.

LOCAL CENTRES

Agra

Agra Local Centre, IEI, in association with Rajiv Gandhi Saksharta Mission, Sikandra, Agra observed World Environment Day 2023 on 04 June 2023 at Agra. Er Rajneesh Kumar Yadav, Honorary Secretary, Agra Local



Centre, IEI delivered the welcome address. Keynote speaker of the session, Dr Mukta Yadav, Assistant Professor, Department of Civil Engineering, RBS Engineering Technical

Campus, Bichpuri, Agra explained that while million tonnes of plastics produced every year, a piece of plastic can't be disposed till 100 years. The speaker in his address stressed on 3R for plastic disposal, namely Replace, Recycle and Reuse. Speakers of the event were, Dr Pankaj Sharma, Director, Ishan Engineering College, Mathura, UP; Dr D S Yadav, Professor and Dean, RBS MCA Campurs, Khandari, Agra. Er Jagvir Singh Chaudhary, Organizing Secretary, Agra Local Centre, IEI proposed the vote of thanks at the end of the event.

Ahmednagar

Ahmednagar Local Centre, IEI, in association with L & T Electrical and Automation, observed World Environment Day 2023 on 05 June in Ahmednagar. The Chief Guest of the session was Mr Chandrakant Shinde, Sub Regional Officer, Maharashtra Pollution Control Board. In his address, Mr Shinde highlighted the far-reaching consequences of plastic pollution on ecology and made an appeal to reduce the use of plastic bags in daily life. Er Arvind Pargaonkar, Director (Manufacturing), at Schneider Electric India and Past Chairman, Ahmednagar Local Centre, IEI, appealed for optimum use of fossil fuels, electricity, etc to control environmental pollution. Er Manohar Mukund Anekar, Chairman, Ahmednagar Local Centre, IEI expressed his



concern about the increased production of plastic, its usage and added that plastic is now being used in road construction. Er Abhay Krishnarao Raje, Honorary Secretary, Ahmednagar Local Centre, IEI explained how the human life is

connected with universe and stressed on more plantation of trees for the conservation of the environment.

Asansol

Asansol Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Asansol. Chief Guest of the session was Er K Parihar, DGM-SAIL, ISP, IISCO. Speaker of the session was Er Subhash Chandra Shil, Asansol Polytechnic. Er Anish Deb, Member, Asansol Local Centre, IEI, briefed on the theme. Er Sumanta Karmakar, Honorary Secretary, Asansol Local



Centre, IEI, proposed the vote of thanks.

Bareilly

Bareilly Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Bareilly and organized a Seminar on the theme. Shri Santosh Kumar Gangwar, Hon'ble Member of the Parliament & Chairperson, Committee of the Public Undertakings, Government of India, graced the function as the Chief Guest. Mr Siddhartha Baidya, Climate Change Adaptation and Science



Technology and Society, WWF India, Moradabad was the speaker of the session. He delivered a lecture on the theme and emphasized the use of reusable items such as grocery bags, disposable cutlery, etc instead of plastic

items in daily lives. Shri Sanjiv Puri, State Awardee-Water Conservation, Bareilly, highlighted the effect of plastic debris on chemical pollution. Er Sudhir Gupta, Immediate Past Chairman, Bareilly Local Centre, IEI, discussed the use of single-use plastics and unrecyclable plastics. Earlier, Er Raj Goel, Chairman, Bareilly Local Centre, IEI, welcomed the Chief Guest, speakers and other dignitaries. Er Pradeep Kumar Madhwar, Honorary Secretary, Bareilly Local Centre, IEI, introduced the theme of the event and proposed the vote of thanks at the end of the event.

Bathinda

Bathinda Local Centre, IEI, in association with Yadavindra College of Engineering, Government College in Talwandi Sabo, Punjab, observed World Environment Day 2023 on 07 June 2023 in Bathinda and organized a Seminar on the theme. Prof (Dr) Jagtar Singh, Chairman, Bathinda Local Centre, IEI, extended a warm welcome to the Chief Guest of the session,



Prof (Dr) T S Kamal, Former Vice President, IEI; Special Guest, Prof (Dr) Anand Bansal, Director, Punjabi University, Guru Kashi Campus, Damdama Sahib, Talwandi Sabo, the

dignitaries, participants and students. In his Keynote address, Prof (Dr) T S Kamal, mentioned plastic pollution as the biggest environmental challenge and added that world's oceans, rivers, landfills are filled with plastic waste,

causing significant damage to wildlife, marine ecosystems and human health. The UN has declared 05 June as World Environment Day every year with a special focus to address the plastic pollution, to raise awareness about the harmful effects of plastic pollution, encourage individuals, business and Governments to reduce plastic use, he added. Prof (Dr) Anand Bansal explained how both the country and human life can be saved from plastic pollution by reducing use of plastic. The Speaker of the session, Dr Gagandeep Kaur, Assistant Professor, Electronics and Communication Engineering Department, Yadavindra College of Engineering, spoke on the problem of non-biodegradable plastic waste, which releases toxic chemicals in environment, contaminates soil & water resources and poses a significant threat to human health, marine and wildlife. Dr Harsimran Singh, Honorary Secretary, Bathinda Local Centre, IEI, proposed the vote of thanks at the end of the event.

Bhilai

Bhilai Local Centre, IEI, in association with Environment Department, Bhilai Steel Plant, Bhilai observed World Environment Day 2023 on 05 June 2023 at Bhilai. The event commenced with a welcome address by Er Pradeep Kumar Tiwari, Chairman, Bhilai Local Centre, IEI. He emphasized the role of engineers for quick, efficient & sustainable solutions of plastic waste.



The Chief Guest of the function, Mr Dibyendu Lal Moitre, CGM (Environment), Bhilai Steel Plant, shared his insights about the environmental concerns starting from mining of ore to the finished product at

the plant. He opined that a clean and green environment is possible only by the active participation of every citizen. Dr Nagendra Tripathi, Honorary Secretary, Bhilai Local Centre, IEI, proposed the vote of thanks.

Bhimavaram



Bhimavaram Local Centre, IEI, in association with Department of Mechanical Engineering, S R K R Engineering College, Bhimavaram observed World Environment Day 2023 on 05 June 2023

in Bhimavaram. The Chief Guest of the session, Mr T Vamsi Naga Raju, Assistant Professor, Department of Civil Engineering, S R K R Engineering College, delivered lecture on the theme Earlier, Er Karanam Suresh Babu, Chairman, Bhimavaram Local Centre, IEI, welcomed the Chief Guest and other dignitaries. Prof (Dr) K Brahma Raju, Council Member, IEI, delivered the Keynote speech on the effects of climate change in present environment. Prof Nookala Gopala Krishna Murthy, Honorary Secretary, Bhimavaram Local Centre, IEI proposed the vote of thanks.

Dhanbad



Dhanbad Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Dhanbad. Prof (Dr) Biswajit Paul, Honorary Secretary, Dhanbad Local Centre, IEI, & Professor, Environmental

Science & Engineering, IIT ISM Dhanbad, welcomed the members, guests, students and introduced the theme of the day. Dr Somnath Chattopadhyay, Professor in the Department of Mechanical Engineering, IIT ISM Dhanbad & Prof Biswajit Paul delivered lectures on the theme. Prof (Dr) Biswajit Paul proposed the vote of thanks at the end of the event.

Faridabad

Faridabad Local Centre, IEI, in collaboration with Manav Rachna International Institute of Research & Studies (MRIIRS), Faridabad, observed World Environment Day 2023 on 05 June 2023 through hybrid mode. Er J P Singh, Past Chairman, Faridabad Local Centre, IEI, extended a warm welcome to the Chief Guest of the session, Prof (Dr) Pradeep Kumar, Pro Vice-Chancellor & Dean, FET, MRIIRS; Special Guest, Prof (Dr) Geeta Nijhwan, Professor & Associate Dean, FET, MRIIRS; Special Invitees, Mr Hira Amit Rohilla, Environment & Safety Consultant, A- Foundation Trust; Dr Sunita Bansal, HoD, MRIIRS, all dignitaries and the esteemed audience. Er J P Singh explained the importance of World Environment Day. Prof Pradeep Kumar highlighted on plastic pollutions and emphasized the incorporation of technological advancements in mitigating its impact as an additive strategy. The expert speakers of the session were Mr Satyendra Sahai, Chief General Manager of Indian Oil Corporation, Delhi, and Dr Sameer Arora, Technical Lead at Central Pollution Control Board (CPCB), Delhi. Mr Satyendra Sahai reiterated the effects arising from the need for plastic and its post-consumption, recycling developments, sustainable models, etc. He expressed the opinion that complete eradication of plastic is not feasible. Instead, the focus should be on the proper 'use' and 'misuse' of plastic, supported by factual statistics on how different countries are addressing plastic-related issues.



He concluded with various Regulatory Interventions like SUP Ban and EPR (Extended Producers Responsibility) guidelines that are implemented in Indian context. These Government mission programmes aim to promote recycling awareness and incorporate post consumer

plastic waste into the circular economy through awareness, segregation, recycling, etc. Dr Sameer Arora, accentuated on the topic 'Alternatives of Single Use Plastics'. In his address, Dr Arora highlighted the sector wise plastic consumption & awareness in plastic package industry. He focused on four categories of plastics namely, rigid, flexible, multi-layered and compostable plastics and introduced the SUP Compliance Monitoring Portals for administrators, field officer and public as well. Mr Hira Amit Rohilla, an Environment and Safety Consultant, presented a brief insight. Mr Inderdeep Singh, Honorary Secretary, Faridabad Local Centre, IEI, proposed the vote of thanks.

Ghaziabad

Ghaziabad Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Ghaziabad. Chief Guest of the event, Er Jagdish Chand Singhal, National President, Institute of Water & Environment (India), Council Member and Chairman, Environmental Engineering Division Board [ENDB], IEI, emphasized the significance of the theme and encouraged the younger generation to be committed to saving environment. Dr Arindam Basu, Director General of NITRA, graced the function as the Guest of Honour and shed light on environmental pollution, along with ways individuals can contribute to



saving the environment. The Keynote Speaker, Dr Palak Bansal, Senior Scientific Officer, NITRA explained various causes of pollution. Er R R Tanwar, Council Member, IEI, also graced the occasion. Earlier, Er Raghunandan Prasad

Sharma, Chairman, Ghaziabad Local Centre, IEI, and Council Member, IEI, welcomed all. Mr Ashok Kumar, Honorary Secretary, Ghaziabad Local Centre, IEI, proposed the vote of thanks at the conclusion of the event.

Jammu

Jammu Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Jammu. The Chief Guest of the session was Shri Lal Chand, IFS (Retd PCCF), Jammu & Kashmir. The function was presided over by Prof (Dr) Ms Bhawna Sharma, Chairman of Jammu Local Centre, IEI. The event commenced with Prof (Dr) Ms Bhawna Sharma delivering the welcome address. She expressed her concern about environmental degradation and advised people against using plastic. She highlighted that more plastic we produce, more fossil fuel we burn, thereby worsening the climate crisis. Shri Lal Chand explained that out of 400 million tonnes of plastic is produced every year, half of which is used only once and of that less than 10% is recycled. He mentioned that approx 19-23 million tonnes of plastics end up in lakes, rivers, seas, clogging our landfills, and leaching into the ocean, posing one of the gravest threats to the planet. Papers were presented on relevant topics during the technical sessions. Er Sachin Tickoo, Honorary Secretary, Jammu Local Centre, IEI proposed the vote of thanks.

Kanpur

Kanpur Local Centre, IEI, in association with Department of Civil Engineering, HBTU, Kanpur, observed World Environment Day 2023 on 05 June 2023 in Kanpur. Prof (Dr) Indira Nigam, Head of the Department of Plastic Technology, HBTU, Kanpur, was the theme speaker of the session. Earlier, Er Vivek Asthana, Chairman, Kanpur Local Centre, IEI delivered the welcome address. Dr Rajiv Ganguly, Associate Professor, Department of Civil Engineering, HBTU, Kanpur introduced the Theme speaker. Prof Nigam explained the increased use of non-biodegradable plastic, which causes threat to the habitat. The speaker discussed plastic waste management strategies, including segregation, recycling, cleaning, shredding, aggregating, extruding and converting to the product. At the end of the event, Er Rama Kant Yadav, Honorary Secretary, Kanpur Local Centre, IEI, proposed the vote of thanks.

Kochi

Kochi Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 through online mode. The webinar commenced with Er Salahudheen P A, Chairman of Kochi Local Centre, IEI and Council Member, IEI, delivering the welcome address. In his address, Er Salahudheen, explained the importance of environmental protection. Chief Guest & Speaker of the event was Prof (Dr) S Bijoy Nandan, Professor of Marine Biology and Biochemistry & Dean, Faculty of Marine Science, CUSAT, Kerala. Prof (Dr) G Madhu, Council Member, IEI introduced Prof (Dr) S Bijoy Nandan and highlighted his experience in academics and environmental engineering, particularly in Marine Biology, as well as his research work in the field of Marine Biology & Biochemistry. In his address, Prof Bijoy Nandan explained the evolution of society from Stone Age to Plastic Age and described plastic as a necessary evil and indispensable part of human life. He explained the effect of microplastic in marine life. The speaker concluded his speech emphasizing the ways and means to combat the plastic menace in general and the steps taken to minimize the abuse of microplastics, in particular. Er Babu K S, Honorary Secretary, Kochi Local Centre, IEI proposed the vote of thanks at the end of the webinar.

Kollam

Kollam Local Centre, IEI in association with the Department of Biotechnology and Biochemical Engineering, Sreebudha College of Engineering, Pattoor

observed World Environment Day 2023 on 05 June 2023 at Kollam and organized an Expert Talk on the theme of day. Er K Rajan, Chairman, Kollam Local Centre, IEI presided over the function. Chief Guest, Dr D Thankamani, Former Member Secretary, KSPCB and Former HoD, Environment Engineering Division, CET, Trivandrum delivered an expert talk on the topic 'Carbon Footprints and its relevance on the Society'. Around 120 students from different semesters participated in the program. At the end, an awareness campaign on beat the plastic pollution and plastic free pledge was organized by the students.

Palghat



Palghat Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in Palakkad. Er Madhana Mohan K, Chairman, Palghat Local Centre, IEI, delivered the welcome address and explained the theme of the day. He stressed on mechanical and chemical recycling of plastics, thermal degradation of plastic waste through Pyrolysis and Gasification. Dr Divya PV, Associate Professor, Civil Engineering Department, IIT Palakkad, delivered a Keynote lecture on the topic 'Green Geotechnics' and explained how the plastic waste can be used for road filling. She informed deposit of plastics, organic & non-organic solid waste in big cities including Mumbai, Chennai, Delhi and highlighted the presence of methane gases in these deposits producing toxic fumes which may catch fire. She explained how plastic waste can be used in road filling and how technical engineers can help. Mr Sujatha Vijayan, Chartered Civil Engineer, Mr K Ravindran, Former Technical Member of Kerala Water Authority and Mr A V Rajappan, Managing Director, Navabharat Systems, shared their valuable insights during the event. Prof (Dr) Pradip C, Honorary Secretary, Palghat Local Centre, IEI, proposed the vote of thanks at the end of the event.

North Bengal



On 05 June 2023, North Bengal Local Centre, IEI, observed World Environment Day 2023 through 'Tree Planting' and 'Table Discussion' at Jalpaiguri. Er Chinmoy Ghosh, Honorary Secretary, North Bengal

Local Centre, IEI, delivered the welcome address and explained the harmful effects of plastic objects and particles such as plastic bottles, bags, microbeads, etc which adversely affect human health, wildlife and their habitat. Er G Bairagi, Professor & Head, Department of Civil Engineering, Jalpaiguri Government Engineering College, Jalpaiguri & Member of North Bengal Local Centre, IEI, explained that plastic is a polymeric material, whose molecules are very large, often forming long chains made up of a seemingly endless series of interconnected links. He further discussed the adverse effects of synthetic non-biodegradable plastics. Er Chinmoy Ghosh proposed the vote of thanks at the end of the event.

Rourkela

Rourkela Local Centre, IEI, observed World Environment Day 2023 on 05 June 2023 in hybrid mode. Er Ajay Kumar Goswami, Chairman, Rourkela Local Centre, IEI, welcomed the members and guests and spoke about

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Energy Efficiency and Energy Management

Under the aegis of Electrical Engineering Division Board, IEI, **West Bengal State Centre** organized a Technical Webinar on the theme of **Energy Efficiency and Energy Management** on 23 September 2022. Panelist of the webinar session was Mr Bibek Roy, Group Advisor, Shyam Metalics



Mr Bibek Roy

Group. Mr Anirban Datta, Partner & Chief Technology Officer, MESCIA Engineers moderated the session. The programme began with a welcome address delivered by Dr Nirmal Das, Chairman, West Bengal State Centre, IEI. Dr P K Mukhopadhyay, Chairman, Electrical engineering Division, West Bengal State Centre, IEI also addressed the virtual audience.

Mr Bibek Roy, Group Advisor, Shyam Metalics Group delivered his presentation on the topic 'Role of Energy management & Energy Efficiency in the Era of Global Warming'. Mr Roy narrated several reasons, why the companies decided to operate for an effective energy management system. He mentioned that



Dr P K Mukhopadhyay

pricing of energy cost in recent years is increasing continuously which reduces the profit share of a company. He suggested that by adopting effective energy management, weak points in energy usage can be identified and eliminated with appropriate measures, resulting in permanent reduction of energy costs, lower production costs, and increased energy efficiency. He explained the contribution of

the organizations towards environmental protection by identifying energy guzzlers and eliminating them through appropriate optimization measures. He spoke about the limited availability of raw materials on Earth and how many unused resources either lie dormant, are expensive, or lack technical



Mr Anirban Datta

possibilities. He emphasised on energy certification of a company, which demonstrates its sustainable use of energy. He emphasized the importance of a certified energy management system, which is a prerequisite for claiming subsidies and statutory relief from the government. Additionally, public tenders increasingly include the requirements of an ecological nature, which also relates to the energy sector. He strongly advocated for the measurements and monitoring of energy consumption by means of

a robust energy management system, which results a sustainable reduction in energy costs. In conclusion, he mentioned that it is essential to know the functions, criteria and advantages of energy management systems, to achieve an energy efficient management system. The session's moderator, Mr. Anirban Datta, Partner & Chief Technology Officer at MESCIA Engineers and Joint Honorary Secretary of West Bengal State Centre, IEI, discussed relevant points such as allocating energy directly to the source, tracking records of any energy-related changes including those in production, new materials, and requirements, creating employee awareness about energy issues, and determining methods to minimize CO₂ emissions.

IEI Celebrates World Environment Day 2023

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the theme. Dr Rama Chandra Pradhan, Honorary Secretary, Rourkela Local Centre, IEI, presented a brief bio-data of the Speaker, Er Smruti Ranjan Ray, General Manager, CCD, SAIL, Rourkela Steel Plant. Er Ray's insightful address focussed on plastic, which produces from ethylene and massively used as packaging material and subsequently produces litters which are harmful for the nature and habitat. He further discussed on microplastic hazard, different recycle processes like thermal, UV, Catalytic Pyrolysis, plastic to oil technologies, and emphasized more on research of biodegradable plastics. Dr Rama Chandra Pradhan proposed the vote of thanks at the end of the event.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI, in association with Computer Society of India, Tiruchirappalli Chapter; Safety & Quality Forum, IEI; India 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 observed World Environment Day 2023 on 06 June 2023 through online mode. Er R Selvaraj, Past Chairman, Tiruchirappalli Local Centre, IEI, has presided over the program and welcomed Chief Guest of the event, Dr R P Dhanya, Head, Department of Microbiology, Noorul Islam College of Arts & Science, Kumaracoil. Dr S Titus, Committee Member, Tiruchirappalli Local Centre, IEI, introduced the Speaker. Er S Lakshmanan, Past Honorary Secretary, Tiruchirappalli Local Centre, IEI, proposed the vote of thanks at the end of the webinar.

Trichur

Trichur Local Centre, IEI observed World Environment Day 2023 on 05 June 2023 through online mode. A webinar was organised on the theme. Speakers of the event, Dr Solomon P A, Joint Director, Regional Directorate of Technical Education, Kothamangalam explained the most favoured option to the least favoured option to overcome the challenges of plastic pollution.

He mentioned that moving away from the current unsustainable model is better for the planet. He pointed out that a life cycle approach is helpful to balance the economic needs. Prof Sunil Kumar C P, Chairman, Trichur Local Centre, IEI chaired over and pointed out the addiction on using plastic products and highlighted severe environmental, social, economic and health consequences. Er V Narayanan, Committee Member, Trichur Local Centre, IEI, proposed the vote of thanks.

Upper Assam



Upper Assam Local Centre, IEI, in association with Assam Gas Company Ltd, Duliajan, observed World Environment Day on 05 June 2023 at Duliajan. Er G K Sarmah, General Manager, AGCL, Duliajan graced the function as the Chief Guest,

while Er B Bhuyan, Executive Director, Oil India Limited graced the function as Guest of Honour. Er Jayanta Dutta, Coordinator, IQAC, Duliajan College, delivered Keynote speech on the topic 'Micro & Nano Plastics: An Invisible Threat to the Environment & Human Health'. The technical sessions featured presentations of technical papers on various topics, including 'E-Waste Management' by Er Rajendra Singha, DGM (TA) from OIL India Limited, Duliajan; 'Operational Decarbonisation Initiatives at Pipeline Department of AGCL' by Er Arnab Saikia, Engineer (M) from AGCL, Duliajan; 'Rehabilitation of Legacy Solid Waste through Bio-mining' by Er Sakshi Aggarwal, Senior Manager from PA (CSR & SD) at OIL India Limited, Duliajan; and 'Solutions to Plastic Pollution' by Er Abhishek Gope, Engineer from AGCL, Duliajan on 'Solutions to Plastic Pollution'. Earlier, Er Sasanka Pratim Deka, Chairman, Upper Assam Local Centre, IEI, delivered the welcome address. Er Debajeet Sarma, Honorary Secretary, Upper Assam Local Centre, IEI & AM (HSE), AGCL, Duliajan, proposed the vote of thanks at the end of the event.

IEI Celebrates World Telecommunication and Information Society Day 2023

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

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

STATE CENTRES

Bihar

Bihar State Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Patna. Er Bhupendra Nath Singh, Chairman, Bihar State Centre, IEI delivered the welcome address and briefed the theme. He emphasized the empowerment of billions of people who are not



connected to the internet in the least developed countries, following the UN SDGs guidelines. The Guest of Honour for the session, Mr Sanjeev Verma, ITS, General Manager (CFA), CGMT, Bihar Telecom Circle, Patna highlighted the transformative power of telecommunication and stressed the importance of making telecommunication services universally accessible through the use of the latest technologies at an affordable cost. Dr Arun Kumar Shrivastava, Council Member, IEI was also graced the occasion. Er Rajesh Kumar Pandey, Joint Honorary Secretary, Bihar State Centre, IEI, proposed the vote of thanks at the conclusion of the event.

Gujarat



Gujarat State Centre, IEI, in association with Computer Society of India, Ahmedabad Chapter and Ahmedabad Management Association, Ahmedabad observed World Telecommunication and Information Society Day on 17 May 2023 in Ahmedabad. The program commenced with the welcome address delivered by Er Dineshchandra Odhavjibhai Nakrani, Honorary Secretary, Gujarat State Centre, IEI. The session featured speakers namely, Shri Umesh Dixit, Ahmedabad Management Association, Shri Jigar Raval, Chairman, CSI, Ahmedabad Chapter, Dr D J Shah, Chairman, IETE, Ahmedabad Chapter and Dr Narendra Gajjar, Chairman, IEEE Communication Society. A panel discussion was organized on this occasion. Er Niraj A Shah, Committee Member, Gujarat State Centre proposed the vote of thanks at the conclusion of the event.

Jharkhand



Jharkhand State Centre, IEI, observed World Telecommunication and Information Society Day on 17 May 2023 in Ranchi. Er Sanjay Kumar, CGM, Jharkhand Telecom Circle,

graced the function as the Chief Guest. Dr Jitendra Kumar Mishra, Assistant Professor IIIT Ranchi was the Guest of Honour. During his welcome speech, Mohammad Iquebal Alam, Chairman of Jharkhand State Centre, IEI, provided a brief introduction to the event and highlighted the achievements of Jharkhand State Centre, IEI. He also urged everyone to promote the Institution for the benefit of mankind. Keynote speaker and Convener, Er Vishal H Shah explained the importance of the Day and suggested and the uniqueness of the theme. Er Jitendra Kumar, Past Honorary Secretary, Jharkhand State Centre, IEI, summarized the proceedings and proposed the vote of thanks at the conclusion of the event.

Punjab & Chandigarh

Punjab & Chandigarh State Centre, IEI, in association with Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib (Punjab) observed World Telecommunication and Information Society Day on 17 May 2023 at Punjab. Dr Labh Singh Bhari, Chairman, Punjab & Chandigarh State Centre, IEI welcomed the guests and participants. Chief Guest of the session



was Mr Sandeep Diwan, ITS, Former Chief General Manager, BSNL and Guest of Honour was Dr Tulika Mehta, Director, Kaizen Systems. Mr Sandeep Diwan addressed the gathering and shared his motivational views. Dr Tulika Mehta discussed on AI, Quantum Computing, Wireless Value Realization, Hyper Automation etc and mentioned the advancement in information technology in least developed countries. Key Speaker of the session, Er Tanvir Singh, Project Manager, IIT Bombay, Mumbai highlighted the importance of the Day. He highlighted the importance of the day and explained, how the developed or developing countries can be benefitted from ICT by adopting 21st century learning skills. Special Guest, Prof (Dr) T S Kamal, Former Vice-President, IEI and Er Sukhvir Singh Mundi, Council Member, IEI were present on the occasion. Er Swinder Singh, Honorary Secretary, Punjab & Chandigarh State Centre, IEI, proposed the vote of thanks at the end of the event.

Uttarakhand

Uttarakhand State Centre, IEI, observed World Telecommunication and Information Society Day on 17 May 2023 at Dehradun. Chief Guest of the event, Er RVS Chauhan, Former Council Member, IEI informed about the contribution of telecommunication and information technology for personal and national development. Theme speaker of the event, Prof Irfanul



Hasan, Head, Electronics and Communication Department, Graphic Era, Deemed to be University spoke on next generation communication technologies. Er Abhay U Nagale, Senior Engineer,

Reliance Jio Infocom Limited explained the basics of communication and 5G technologies. Earlier, Er Dharm Chandra, Chairman, Uttarakhand State Centre, IEI welcomed the guests, participants and explained the objectives of the day. He emphasized on the benefits of using telecommunication and information skill for the progress of the nation. Er D C Gupta, Convenor of the Program, thrown light on empowering the least developed countries (LDCs) through ICT. Er Hemeshwari Sharma, on behalf of Uttarakhand State Centre, IEI proposed the vote of thanks at the end of the event.

West Bengal

West Bengal State Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 through hybrid mode. Dr Nirmal Das, Chairman, West Bengal State Centre, IEI welcomed the participants and delegates. Er Chanchal Chakraborty, Convenor, Electronics & Telecommunication Engineering Division, West Bengal State Centre, IEI in his introductory remarks



highlighted the importance of the day. Er Ram Chandra Chakraborty, Joint Secretary, West Bengal State Centre, IEI introduced the theme of the event. Er Sugata Bandyopadhyay, Chairman, Electronics & Telecommunication Engineering Divisional Subcommittee gave a message through video conference. Dr Swadesh Samanta, Advisor, TRAI Regional Office, Kolkata delivered the Keynote address. Speakers of the event were Er Debasis Sarkar, Chief General Manager, Calcutta Telephones, BSNL; Dr Ayan Paul, Assistant General Manager, Calcutta Telephones, BSNL; Er Sarad Arora, Founder and Director, MASHMARI Consultants Private Limited, Advisor, Child Education Society, India; Mr Prasun Nigam, Founder Partner, MASHMARI Consultants Private Limited and Er Ms Dola B Gupta, Principal Investigator of WOS-A, Project under DST, Government of India. The speakers highlighted the significance of this technology for quality healthcare and education, fostering e-learning in the education sector and bridging the gap among least developed countries. They highlighted that quality health checking & critical tests can be performed using cloud and this can be stored in Electronic Patient Records. Er Ms Dola B Gupta, mentioned water informatics (hydro-informatics) as the field of study connected with collection, assortment, distribution and analysis of information relating to water resources. A panel discussion was organised on the occasion. Panelists were; Er Pradip Gupta, Chief General Manager, Core Network – East, BSNL; Shri Zeeshan Khan, Officer on Special Duty in Department of IT & Electronics, West Bengal Civil Services (Exe), Government of West Bengal, Er Sarad Arora and Prof (Dr) Amlan Chakrabarti, Post-Doctoral Fellow at the School of Engineering, Princeton, USA and Professor, A K Choudhury School of Information Technology, University of Calcutta. The panel discussion focussed on target oriented capacity building and digital literacy for effective ICT implementation, framing end-to-end Cyber Security Policy etc.

LOCAL CENTRES

Agra

Agra Local Centre, IEI in association with Department of Electronics and Communication, BSA College of Engineering & Technology, Mathura, UP observed World Telecommunication and Information Society Day on 18 May 2023 at Mathura. Er Rajnesh Kumar Yadav, Honorary Secretary, Agra Local Centre, IEI delivered the welcome address. Chief Guest of the function, Er Shyam Singh, General Manager, BSNL, Agra shed light on the transformative power of information and communication technology for the people to communicate, learn, do business etc. Smt Krishna Verma, Deputy General



Manager, BSNL, Mathura told that mobile and electronics equipment are connecting people to closer proximity and make their life easy. Keynote Speaker, Er Pritam Singh, AGM, BSNL, New Delhi explained that ICT provides enormous potential for development challenges, improve their competitiveness in the global economy. Er Mattomal Agrawal, Chairman, Advocate Arvind Agrawal, Vice Chairman, Dr Shyam Sundar Agrawal, Director and Mr Bhawan Singh, Registrar, BSA College of Engineering & Technology, Mathura were present on the occasion. Er Rajneet Singh Yadav, Organizing Secretary, Agra Local Centre, IEI proposed the vote of thanks at the end of the event.

Aligarh

Aligarh Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Aligarh. The event was started with the welcome address delivered by Dr (Mrs) Salma Shaheen, Chairman, Aligarh Local Centre, IEI. Convener, Prof Kr Khalil Ahmad Khan briefed on the theme and explained the benefits of Information and



Communication Technologies. Chief Guest of the session, Dr Farid Ghani, Former Professor of Electronics Engineering & Dean, Faculty of Engineering & Technology, Aligarh Muslim University, Aligarh explained the importance of ICT in different fields. Guest of Honour, Dr Ekram Khan, Professor & Chairman, Department of Electronics Engineering, Aligarh Muslim University, Aligarh delivered lecture on the theme. Prof Kr Khalil Ahmad Khan proposed the vote of thanks at the end of the event.

Bokaro Steel City

Bokaro Steel City Local Centre, IEI observed World Telecommunication and Information Society Day (WTISD) on 17 May 2023 at Bokaro Steel City. Chief Guest of the session was Mr B K Sartepe, Chief General Manager (CA & Communication) SAIL, Bokaro Steel Plant. In his address, he discussed various aspects of WTISD and mentioned that Bokaro Steel Plant is constantly empowering the change in technology for process upgradation and revealed the importance of latest technologies in ICTs including 5G,



Robot process Automation, AR & VR experiences for the development of economic, social & political welfare of LDCs. He emphasized the need to overcome the digital divide among the developed and developing countries and utilizing optimum ICTs for humanity. Er Jayant Kumar, Manager (Telecommunication) SAIL, BSL presented paper on the theme. He mentioned that number of Asian & African countries are categorised as LDC's, not implementing ICTs due to higher cost & lack of infrastructure development. He informed that one third of the world is not yet connected with internet. Er Akhilesh Bumb, Senior Manager (BPSCL) presented paper on opportunities & challenges of ICT's and suggested that world can be developed as one family by utilising the accountability of ICTs. He stressed the need on cyber security & privacy of data to meet the sustainable development goals of the entire nation. Earlier, Er Navin Prakash Srivastava, Chairman, Bokaro Steel City Local Centre, IEI welcomed all the delegates and discussed on data driven technology for making life comfortable, progress in ICTs with Government aided scheme & infrastructural development etc.

Chandrapur

Chandrapur Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Chandrapur. Dr Z J Khan, Principal, Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur graced the function as the Chief Guest. Dr Khan highlighted the importance and subsequent advancement of telecommunication technologies and

telecommunication industry. Keynote Speaker of the function, Er Sachin Sarode, Sub Divisional Engineer, BSNL Chandrapur, in his speech focused on the growth of telecommunication from the manual era to the automatic era and the role of BSNL from landline to mobile, internet, broadband, fiber net, 4G, 5G, and their services during pandemic. He explained different projects of BSNL network, namely CDR-WAN and ERP and highlighted that BSNL has the biggest network that able to provide services from cities to the remote rural areas. Earlier, Er Madhukar Krushnaji Shende, Chairman, Chandrapur Local Centre, IEI delivered the welcome address. Er Yogendrasingh D Parihar, Honorary Secretary, Chandrapur Local Centre, IEI, thanked the audience at the end of function.



Coimbatore

Coimbatore Local Centre, IEI in association with the Department of Electronics and Communication Engineering(ECE), Kumaraguru College of Technology (KCT), Coimbatore observed World Telecommunication and Information Society Day on 22 May 2023 at Coimbatore and a technical lecture was organized on the theme. Guest Speakers of the event were, Dr



D Surendran, Founder and CEO, SKS Skill Fasteners Private Limited, Coimbatore and Mr G Mutukrishnan, Managing Director, Universal Tech Automation, Coimbatore. Earlier, Prof (Dr) J Krishnamoorthi, Honorary

Secretary, Coimbatore Local Centre, IEI delivered the welcome address. Dr M Bharathi, Professor & Head, Department of ECE, Kumaraguru College of Technology (KCT) briefed on the theme. Dr S Sasikala, Associate Professor, Department of ECE, Kumaraguru College of Technology (KCT) introduced the Guest Speakers to the participants. Dr Surendran emphasized the challenges faced by least developed countries for not accessing internet facilities due to lack of digital skills. Mr G Muthukrishnan explained about robotic automation in industries and demonstrated the robotic control and automation in wireless communication.

Durgapur

Durgapur Local Centre, IEI in association with Department of Electronics and Communication Engineering, NSHM Institute of Engineering & Technology, NSHM Knowledge Campus observed World Telecommunication and Information Society Day on 17 May 2023 at Durgapur. Er Safikul Islam, Chairman, Durgapur Local Centre, IEI welcomed the gathering and stressed in raising awareness about internet usage and information and communication technologies (ICTs) to bridge the digital divide. Guest of Honour of the session, Mr P Shaw, Former Chief General Manager (HRD), SAIL Management Training Institute, Ranchi delivered Keynote address on the



topic 'Digital Transformation in Steel Industry'. He highlighted that the leaders of steel industries like SAIL, TATA Steel, JSW Steel etc have embarked upon its digital transformation journey with the goal for achieving the industry's

best performance metrics in terms of agility, quality, productivity, profitability, customer experience, environment, safety, security through data insights. This goal would be reached through their mission to establish a lean and agile business process driven by digitally enabled customer centric ecosystems with nearly 100% data literate employees at its core, he opined.

Keynote speaker, Dr Tushar Kanti Bera, Assistant Professor, Department of Electrical Engineering, National Institute of Technology Durgapur focused on the applications of biomedical instruments, which are as essential for physiological monitoring, disease detection, treatment, therapy etc. He highlighted the significant role of IoT in supporting people to provide healthcare services, medical image facilities through wearable biomedical devices in remote areas both in developed & underdeveloped countries for medical diagnosis. He also spoke on IoT based wearable technology that can be applied for electrical impedance based non-invasive health diagnostic methods, such as Electrical Impedance Spectroscopy (EIS) and Electrical Impedance Tomography (EIT). Keynote speaker, Mr Sekar Kumar Dey, Former Senior Manager (Electronics & Telecommunication) and HoD of E&T, Bharat Coking Coal Ltd (BCCL) & Eastern Coalfields Ltd (ECL) highlighted that how ICT can be used to empower the least developed countries (LDCs). Keynote Speaker, Er Sudipta Banerjee, Assistant Professor, Department of Electronics and Communication, NSHM Knowledge Campus spoke on the theme. Er Manas Majumder, Honorary Secretary, Durgapur Local Centre, IEI proposed the vote of thanks at the end of the event.

Indore

Indore Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Indore and a technical lecture was organized on the theme. Prof Rakesh Saxena, Director, Shri G S Institute of Technology & Science, Indore (SGSITS) graced the function as the Chief Guest and Mr Sanjeev Singhal, General Manager, BSNL, Indore graced the occasion as the Guest of Honour. Mr Sanjeev Singhal highlighted the importance of 5G Technology in telecommunication services and connecting many digital devices simultaneously. He focused on special projects of BSNL



which will help to grow further. Keynote Speaker, Dr Aditya Billore, Indian Institute of Management, Indore emphasized the importance of enhancing ICT infrastructure by improving access to affordable & reliable internet

connectivity among least developed countries and this empowerment is possible by reaching the innovators, business, policy makers, citizens, etc can be benefitted by promotion of telecommunication. He highlighted the development in the field of ICT for human development, required commercialization of technology and Innovation. Prof (Dr) Shilpa Tripathi, Chairman, CHDB, IEI, who was present in the function, expressed her gratitude to the theme speaker, distinguished guests and visitors of the program. Earlier, Er Rajendra Prasad Gautam, Chairman, Indore Local Centre, IEI welcomed the members, visitors and explained the significance of the theme.

Kota

Kota Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Kota. Chief Guest of the session was Er Arvind Kulshreshtha, Past Honorary Secretary, Kota Local Centre, IEI. Guest Speaker of the session was Er Trilok Maheshwari, Director, IT Campus (Computer Education), Kota. Er Maheshwari explained the classification



criteria of least developed countries, namely poverty, human resource weakness and Economic vulnerability. He highlighted the role of ICT in fostering social, economic and sustainable development and the power of technology to bridge the digital divide and empower most vulnerable

communities. He explained ICT can be used as a vital tool to uplift the least developed countries for the growth and progress. He discussed the transformative power of ICT, preserving the environment and natural resources, disease tracking, reach of digital technologies in rural sector. Earlier, Er Devendra Kumar Bhargava, Chairman, Kota Local Centre, IEI welcomed the Chief Guest, Guest Speaker, distinguished guests, members of the Kota Local Centre, IEI. Er Shyam Lal Gupta, Honorary Secretary, Kota Local Centre, IEI proposed the vote of thanks at the end of the event.

Meerut

Meerut Local Centre, IEI, in association with BSNL,UP(West), Meerut observed World Telecommunication and Information Society Day on 17 May 2023 at Meerut. In the beginning, Er Mohan Lal Jain, Chairman, Meerut Local Centre, IEI welcomed the guests and dignitaries. Chief Guest of the event was Er Surya Kant, ITS, CGM, BSNL, UP (W) Telecom Circle, Meerut and Guests of Honour were Er Raj Deo, ITS, PGM (CFA), BSNL, UP (W)



and Er P P Shrivastava, IP & TBWS, Senior GM (HR/Admin), BSNL, UP (W), Meerut. The Chief Guest and Guests of Honour shared their experiences towards digital transformation to the society over the years. Speakers of the event, Er Ashish Kumar, AGM

(Mobile), Er A K Bansal, AD (IT) and Er Archana Arora, SDE (CMTS), BSNL, UP(W) mentioned that least developed Countries are confronting severe structural impediments to sustainable development and highly vulnerable to economic & environmental shocks. They shed lights on the transformative power of information and communication technologies in improving education services, reducing poverty, creating new sources of income, employment for poor, industrialization, environment and resulting development in economic growth & overall prosperity. Mr Raj Pal Agarwal, Honorary Secretary, Meerut Local Centre, IEI proposed the vote of thanks at the end of the event.

Muzaffarpur

Muzaffarpur Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Muzaffarpur. At the outset, Er Anjani Kumar Srivastava, Chairman, Muzaffarpur Local Centre, IEI delivered the welcome address and the objective to observe this day to raise awareness about the impact of new technologies and its implication in bringing the world closer. Keynote Speaker of the session, Prof Vijay Kumar, Head of the Department, Information Technology, MIT Muzaffarpur



emphasized on collective responsibility to support the least developed countries (LDC) and also emphasized the transformative potential of ICT in bringing prosperity through technology. Prof (Dr) Amaresh Kumar Rai,

Associate Professor, Civil Engineering Department, MIT Muzaffarpur & Past Chairman, Muzaffarpur Local Centre, IEI highlighted that many rural and remote areas don't have access to the same level of telecommunication as in urban areas. Er S K Mishra, Past Chairman, Muzaffarpur Local Centre, IEI stressed the need to improve the infrastructure in the least developed countries for sustainable development. Er Sanjay Kumar Choudhary, Honorary Secretary, Muzaffarpur Local Centre, IEI proposed the vote of thanks at the end of the event.

Roorkee

Roorkee Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Roorkee. Er Ashish Pandey, Chairman, Roorkee Local Centre, IEI welcomed the audience and

emphasized the benefits of Telecommunication & Information Technology. Keynote Speaker, Prof Sudeb Dasgupta, Department of Electronics & Communication, Indian Institute of Technology Roorkee delivered address on the topic 'The Role of VLSI in Modern Telecommunications: Enabling 5G and Beyond Revolution' and addressed the audience about the latest innovations



of telecommunication technology. He further briefed the history from MOSFET to VLSI technology and highlighted the challenges & latest innovations in

telecommunication technology in present era. Er Vineet Kumar Saini, Honorary Secretary, Roorkee Local Centre, IEI proposed the vote of thanks at the end of the event. A large number of IEI Fellows, CBRI, IIT Scientists, Engineers, Architects and Students participated in this program.

Saurashtra

Saurashtra Local Centre, IEI, in association with A V Parekh Technical Institute, Rajkot observed World Telecommunication and Information Society Day on 17 May 2023 at Rajkot. Speakers of the event were, Ms



Namrata R Nathwani, ITC Officer, Directorate of ITC & e-Governance, Department of Science and Technology, Government of Gujarat, Rajkot and Dr Kotak Paresh, Principal, Dr S & S Ghandhy College of Engineering and Technology, Surat. Dr D B Vagadia, Principal, A V Parekh Technical Institute,

Rajkot also spoke on the occasion. Ms Namrata R Nathwani delivered lecture on the theme 'Empowering the India through Information & Communication by Youth'. Dr Kotak Paresh delivered lecture on the theme 'Information & Communication Technology'. Mr Deepak V Sachde, on behalf of Saurashtra Local Centre, IEI proposed the vote of thanks.

Tirunelveli

Tirunelveli Local Centre, IEI observed World Telecommunication and Information Society Day on 26 May 2023 at Tirunelveli. Prof (Dr) R Velayutham, Chairman, Tirunelveli Local Centre, IEI inaugurated the session and delivered the welcome address. Speaker of the session, Dr M Suresh Thanga Krishnan, Head, Computer Science & Engineering Department,



Einstein College of Engineering, Tirunelveli delivered lecture on recent technologies in telecommunication. He had covered the latest trends in ICT such as IoT, Artificial Intelligence, Machine Learning, etc. He explained the role of social media in

business development by means of facts and figures. Er Jimmi Carten M, Honorary Secretary, Tirunelveli Local Centre, IEI proposed the vote of thanks at the end of the event.

Trichur

Trichur Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2023 at Trichur. Speaker of the session, Mr A S Sukumaran, Principal General Manager – Telecom, BSNL, Thrissur highlighted the application and benefits of optical fibre network for rural connectivity in India. He further explained the significance of ICT in monitoring, mitigating, adapting climate change Prof C P Sunil Kumar, Chairman Trichur Local Centre, IEI in his welcome address focused on social networking through



ICT and the connectivity breaking the traditional barriers. He spoke on multifaceted challenges faced by the least developed countries and the role of ICT as a catalyst for making development. Er V Jayakumari, Committee Member, Trichur Local Centre, IEI and Professor & Head, Civil Engineering Department, Government Engineering College, Thrissur, proposed the vote of thanks at the end of the event.

Udaipur

Udaipur Local Centre, IEI observed World Telecommunication and Information Society Day on 18 May 2023 at Udaipur. At the outset, Er Purushottam Paliwal, Honorary Secretary, Udaipur Local Centre, IEI, in his opening remarks, explained the objective and goal of the program. Er Chandara Prakash Jain, Chairman, Udaipur Local Centre, IEI welcomed the Chief Guest & Keynote Speaker, Er Gunjan Saxena, Chairman, Rajasthan

State Centre, IEI and Guest of Honour, Er Sudesh Roop Rai, Honorary Secretary, Rajasthan State Centre, IEI. Er Gunjan Saxena explained the assessment of least developed countries, based on Gross National Per Capita Income, nutrition, health, school enrolment, literacy, economic and environmental sensitivity, dependence on agriculture, forecasting natural disasters, etc at every three years by United National Economic and Social Council. He explained the challenges faced by the least developed countries such as lack of infrastructures, limited access to technology, high cost,



limited Government support, digital divide, etc and ICT helped the least developed countries to bring efficiency in public administration, business sector, industrial productivity, etc. Er Sudesh

Roop Rai emphasized on observation the day to raise awareness using ICT for the betterment of societies and economies. He further highlighted the initiatives among least developed countries for partnerships with developed countries. Er Purushottam Paliwal proposed the vote of thanks at the end of the event.



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

Request for Participation

The engineering sector is experiencing remarkable growth with Government and private funding, presenting immense commercial potential on a global scale. Technology and innovation are the driving forces behind a vibrant MSME ecosystem, with start-ups acting as a perennial source of inspiration.

We cordially invite start-up organizations in Engineering, Consultancy Services, Construction, Healthcare, Utility Services, IT & Telecommunication, and related domains to apply for the prestigious IEI Industry Excellence Award 2023. To be eligible, applicant organizations must be duly registered with DPIIT, IN-SPACe, ISRO, Ministry of MSMEs, Government of India, and relevant State Industrial Development Corporations.

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

To participate, submit your applications using the specified format available at <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>. The application deadline is **30th September 2023**.

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

The Director [Technical]

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

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

Know-Your- Member (KYM)

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

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

The Director (Membership)

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

Email: datamemb@ieindia.org

The form is available in IEI Website:

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



Water Management Forum

A Peripheral body of the Institution of Engineers (India)

The Institution of Engineers (India)



Gujarat State Centre, Bhaikaka Bhavan, Law Garden, Ahmedabad 380006
Tel.: (079) 26400811, Email: watermanagementforum@gmail.com, Website: www.wmf-iei.org

WMF announces award for Best Contribution towards Conservation of Water in Individual as well as Institutional categories 2023

Criteria for Consideration

- The Individual should be an engineer by profession. In case of in institution, it should have been engaged in engineering activities.
- The individual/institution must have achieved excellence in water resources management within India.
- The Awards will be considered broadly, but not limited to the following parameters:
 - Innovative protection of ground water augmentation-Rain water harvesting/ artificial recharge in urban and rural areas
 - Optimum utilization of water in agriculture sector
 - Promoting water use efficiency
 - Recycling/reuse of water
 - Creating awareness through public participation.
 - Adequate capacity building amongst stake holder.
 - Contribution towards related activities will also be considered.
- Award shall carry a Citation and Plaque.

Evaluation Criteria

The assessment of applications to identify contribution of professionals- individual/ institutional in the field as enumerated under (b) & (c) above through innovation, creativity, commitment, achievement, well researched and sustainability.

Awards

One best nomination in both categories shall be selected by the Jury of eminent persons appointed by WMF, The Judge's decision shall remain final and no correspondence will be entertained. Winner shall be conferred upon an Award, a certificate and a cash prize of Rs. 10000/- each.

Individuals/ Institutions shall make an application before **15th September 2023** in the format enclosed and send by post / courier to The Director, Water Management Forum, c/o The Institution of Engineers (India), Bahikaka Bhavan, Opp Law Garden, Near Ellis bridge Gymkhana, Ahmedabad 380006. Email – watermanagementforum@gmail.com

Note:- The decision of the Forum, for Organizing this will be considered final and bound to all participants. All rights are reserved by Forum.

If any query regarding this you may contact: Er. VIJAY SOLANKI, Deputy Director, WMF, Mo. No. 9898418979

APPLICATION FORMAT FOR WATER MANAGEMENT FORUM AWARDS - 2023

1) NAME OF THE APPLICANT/ INSTITUTION	
2) ADDRESS: (Please provide email, telephone, mobile numbers)	
A) OFFICE :	
B) RESIDENCE:	
3) Details of membership with professional bodies:	
4) Significant contribution in the field of water management with supporting documents :	
5) Names and addresses of references (at least (2)) in the related field with whom either worked or known to the applicant's work :	
6) Social relevance of the contribution:	
7) Whether the achievements have already been recognized for awards by any well recognized organization? If so, the name of the body, award and the year of award may be given. A copy of citation may also be enclosed.	
8) Any additional information of relevance.	
PLACE:	
SIGNATURE	
NAME / HEAD OF THE ORGANISATION	
DATE:	

Note: Please attached necessary copies of documents.



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 August 2023

Sl. No.	Name of the Course	Scheduled Dates
1.	Mechanical Design and Rotor Dynamics of Rotating Machines	01 - 03 Aug 23
2.	Pilferage of Electricity - Detection & Prevention - Issues & Challenges	01 - 04 Aug 23
3.	E-Waste Management-Issues, Collection and Disposal Mechanism	02 - 03 Aug 23
4.	Advanced Excel for Report Generation & Analytics	02 - 04 Aug 23
5.	Recent Trends in Design, Construction & Maintenance of Rigid Pavements	07 - 11 Aug 23
6.	Urban Water Supply System and WTP	07 - 11 Aug 23
7.	Cyber Security for Industrial Control System(ICS) and Intelligent Electrical Devices (IED)	07 - 10 Aug 23
8.	Latest Technology in Mine Surveying - Total Station, DGPS,3D Laser Scanner, LiDaR, Drones, GIS, Remote Sensing Demonstration and Hands- on Training on Instruments	07 - 11 Aug 23
9.	Project Management using MS Project and Primavera Software	07 - 11 Aug 23
10.	Maintenance Welding for Technical Officers, Engineers, and Scientists	08 - 11 Aug 23
11.	Substation Automation and Smart Grids	08 - 11 Aug 23
12.	Training on Risk Management for Senior & Middle Level Managers at Jim Corbett	08 – 10 Aug 23
13.	Coastal zone Management and Monitoring with remote sensing applications including CRZ 2018 draft notification	16 - 18 Aug 23
14.	Machining Aerospace Materials - Challenges and Solutions	16 - 18 Aug 23
15.	Environmental Issues, Challenges and Pollution Control Strategies in Thermal Power Plants (Online)	16 - 18 Aug 23
16.	Rehabilitation of Bridges using latest Techniques & Risk Criteria	21 - 25 Aug 23
17.	Working with BOSS Linux & Libre Office (Online)	21 - 25 Aug 23
18.	Cyber Security & Digital Forensic Tools	21 - 25 Aug 23
19.	Digital Surface Modeling using GIS Techniques-Hands on Practice	21 - 25 Aug 23
20.	Heat Treatment - Furnaces, Processes and Innovations	22 - 24 Aug 23
21.	IT Enabled Applications in Water Supply and Sewerage Projects.	22 - 25 Aug 23
22.	Operation and Maintenance of Bulk Material Handling Equipment	22 - 24 Aug 23
23.	Cost reduction by Energy Auditing, Management & Design of Solar Energy Systems (Online)	22 - 25 Aug 23
24.	Finance for Non-Finance Executives at Ramoji Film City(Hyderabad)	22 – 24 Aug 23
25.	Mine Safety & Health of Miners	23 - 25 Aug 23
26.	Statistical Quality Control and Statistical Process Control	23 - 25 Aug 23
27.	Advanced Course on Effective Spare Parts Inventory Management	28 - 31 Aug 23
28.	Generator & its Auxiliaries incl. Excitation System	28 - 31 Aug 23
29.	Hands on Training on Advanced & Basic Excel at Udaipur	28 – 30 Aug 23
30.	Climate change, Public policy and governance-mitigation & adaptation	29 - 31 Aug 23

For detail information please contact:

Engineering Staff College of India

Old Bombay Road, Gachibowli, Hyderabad – 500 032

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

ASCE India Section International Conference

The American Society of Civil Engineers-India Section (ASCE-IS) is organizing a one-day international conference on Sept. 8, 2023, at The Ashok Hotel, Delhi, India. The conference aims to expedite and transform infrastructure planning and design to address the climate crisis and ensure inclusivity for vulnerable populations. Key highlights include exploring ways to de-risk projects, attract funding, and promote sustainable infrastructure. The event will bring together world leaders, subject matter experts, and stakeholders, supported by organizations like ADB, WFEO, and ACECC. Industry support is crucial for its success. The India Section September 8, 2023 Conference will bring together key stakeholders and will highlight the G20 T20 Policy Brief – Task Force 3 LiFE, Resilience and Values for Wellbeing – Catalyzing Investments for Climate and Disaster Resilient Infrastructure, in conjunction with the G20 New Delhi Leader's summit on September 9-10, 2023. For registration, conference brochure and sponsorship opportunities visit <https://www.asce.org/communities/find-a-group/regions/region-10/india>.

News-in-Brief

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

STATE CENTRES

Kerala

On 02 November 2022, a technical talk was organized in association with IEEE, CSI, INSARM, ASI, SSI, ISTD, SAME, IITArb, PMI, IETE on the topic 'Weak Road of Kerala.' Speaker of the event was Er R Subhash Chandra Bose, Superintending Engineer (Retd), Kerala Public Works Department.

Organized technical talk in association with IEEE, CSI, INSARM, ASI, SSI, ISTD, SAME, IITArb, PMI, IETE on 'Innovation through Biomimicry' on 09 November 2022. Speaker of the event was Er Depalan S, Naturalist Cum Biomimic, Biomimetic Solution, Mysore.

On 16 November 2022, a Panel Discussion was organized on the topic 'An Overview of Vizhinjam Harbour Project.' Panelists of the event, Dr Anil Joseph, Council Member, IEI, & Managing Director, Geo Structural Private Limited, Kochi; Er G Vijayaraghavan, Founder CEO, Technopark & Ex-Member, Kerala State Planning Board and Dr K V Thomas, Former Scientist G & Group Head, NCESS & Former Dean, Kerala University of Fisheries and Ocean Studies, Kochi. Moderator of the event was Er Satheesh Gopi, Deputy Hydrographer (Retd), Department of Port, Government of Kerala.

Organized technical talk in association with IEEE, CSI, INSARM, ASI, SSI, ISTD, SAME, IITArb, PMI, IETE on 'Renewable Energy Prospects for the State of Kerala' on 23 November 2022. Speaker of the event was Dr Ajith Gopi, Joint Chief Technical Manager (Technical Consultancy in Solar Projects & Wind Energy Programme), ANERT.

Organized technical talk in association with IEEE, CSI, INSARM, ASI, SSI, ISTD, SAME, IITArb, PMI, IETE on 'The Science Behind PIXAR' on 30 November 2022. Speaker of the event was Mr Rajit Karunakaran, CEO, ProBIZ Knowledge Centre, Corporate Trainer, Mentrol and Business Advisory Consultant.

Maharashtra

Organized a Seminar on 'Mechanical Testing: Basics and Advances' on 25 April 2023. Speaker of the event was Dr Atul Ballal, Professor, Department of Metallurgical and Materials Engineering, Visvesvaraya National Institute of Technology, Nagpur. The Seminar provides introduction to the theme of Materials Engineering by emphasizing structure-property co-relationship. Prof Ballal discussed tensile, creep, fatigue, low and high cycle fatigue, advances in miniaturized specimen testing including Small Punch Creep and Automated Ball Indentation results etc.

Telangana

Organized Er I Basava Raju 8th Endowment Lecture on the topic 'Supercritical Power Generation Technology – An Evolution in Power Generation in India' on 30 December 2022 through online mode. Chief Guest and Keynote speaker of the event was Dr V Vidyasagar, Senior Faculty, Power & Energy Division, ESCI and Former Director (Retd), National Power Training Institute, Ministry of Power, Government of India.

On 26 January 2023, the 6th Er V Subba Rao Endowment Lecture on the topic 'Sense of Urgency to Develop Sustainable Practices in Irrigation Projects to Increase Water Use Efficiency: Case Studies' was organized through online mode. Speaker of the event was, Dr Mohammed Hussain, Professor, Department of Civil Engineering, GRIET, Hyderabad.

Organized Er M Thirpath Reddy 12th Endowment Lecture on the topic

'Space Technology for Water Resources Development & Management' on 04 February 2023 through online mode. Speaker of the event was Dr G Sreenivasa Reddy, Additional Director General, Telangana State Remote Sensing Application Centre, Planning Department, Government of Telangana.

Organized Prof K Gopichand 1st Endowment Lecture on 'Kavach: Enabler of Higher Train Speeds and Enhanced Safety' on 08 February 2023 through online mode. Speaker of the event was Er Lalit Kumar Mansukhani, IRSSE, Officer on Special Duty, Centre of Excellence, Modern Signaling - Kavach, Hyderabad.

On 13 February 2023, a felicitation ceremony was organized at Hyderabad to honor Dr Khadar Vali on being conferred with the Padma Shri Award by the Government of India. Mr Gutha Sukender Reddy, Hon'ble Chairman, Telangana Legislative Council graced the function as Chief Guest. Shri V Prakash Rao, Chairman, Telangana State Water Resources Development Corporation and Dr A Ashok, IAS (Retd), Former Vice Chancellor, IIIT Basara were the Guests of Honour.

On 27 February 2023, the 18th Endowment Lecture on 'Era of Laser Systems – Technology and Applications' was organized at Hyderabad, in honor of Dr J Purushottam. Speaker of the event was Dr Jagannath Nayak, Outstanding Scientist & Director CHESS, DRDO Hyderabad.

Tripura

On 18 March 2023, the 3rd C R Bhattacharjee Memorial Lecture was organized in association with Tripura State Electricity Corporation Ltd, Agartala. A seminar on the topic 'Smart Metering' was organized. Special Guest of the session, Er D Radhakrishnan, Chairman, Tripura Electricity Regulatory Commission, highlighted the recent scenario of Smart Meters in India and Tripura in particular and spoke on the Government Schemes. Special Guest, Shri Sarjit Singh Dogra, Director (Finance), Tripura State Electricity Corporation Ltd, discussed the issues and challenges resulting from installation of Smart Meters and the feasible options to tackle them. The Special Speaker, Er Kanak Lal Das, Additional General Manager of Tripura State Electricity Corporation Ltd, discussed the status of Smart Meters in Tripura, the schemes, and opportunities like subsidies to the DISCOMs of special category States as per Government norms. He also discussed the Smart Meter National Programme and S G Mission. Special Speaker Dr Bikram Das, Assistant Professor, Department of Electrical Engineering, NIT Agartala, explained the communication system of Smart Meters along with challenges like safety, security, privacy and pros-cons of Smart Meter with respect to consumers.

World Intellectual Property Day was observed on 26 April 2023 in association with Patent Information Centre, Tripura State Council for Science & Technology, DSTE, Government of Tripura at Agartala and a Seminar was organized on the topic 'Women and IP: Accelerating Innovation and Creativity'. Prof (Dr) Swapan Bhaumik, Dean (Academic) of NIT Agartala & Former Vice President, IEI, was the Guest of Honour at the event. He emphasized on inculcating inquisitiveness among students and stressed that creativity at all levels must be preserved. Prof Shaon Ray Chaudhuri, Professor & Head of the Department of Microbiology at Tripura Central University, was the Special Guest at the event. The speaker discussed the three most significant aspects, namely novelty, non-obviousness, and usefulness towards obtaining IPR. Dr Amlanbrata Chakraborty, Assistant Professor of the Department of Management, Humanities & Social Sciences, and Deputy Legal Advisor at NIT Agartala, and an Expert in IPR

Infringement Issues, was the Special Speaker at the event. He discussed the paradoxes of IPR protection, possible solutions, and policies in this respect. Mr Subhranil Ray, Scientist & Nodal Officer, Patent Information Centre, Tripura State Council for Science & Technology, DSTE, Government of Tripura, discussed about invention (patent), trademark, copyright, trade secret, industrial design, geographical indication (GI) of products, etc. making it easy to comprehend.

West Bengal

Organized a Seminar on 'Acharya Jagadish Chandra Bose: Scientific Odyssey and Legacy' on 20 April 2023 in Kolkata. Prof (Dr) Parul Chakrabarti, Coordinator, J C Bose Science Heritage Museum, Secretary & Trustee, Sir J C Bose Trust and Former Professor and Chairperson, Department of Chemistry and Director (A), Bose Institute, Kolkata, delivered lecture on the topic as the Guest of Honour. During the seminar, the Speaker outlined the life sketch of Acharya Jagadish Chandra Bose and discussed his famous inventions, which include application of semiconductors to detect radio waves; in biophysics, demonstration of the electrical nature of the conduction of various stimuli; action of microwaves in plant tissues and corresponding changes in the cell membrane potential etc.

LOCAL CENTRES

Amravati

Organized a Site Visit at Amravati on 07 February 2023. to familiarize members with the construction of the RCC Bridge in Walgaon, the ancient step well at Mahimpur, the re-use/cleaning of waste water project at Chandrabhaga river, and the architectural design of Anandeshwar Shiv Temple in Lasur, providing them practical experience in construction.

Bareilly

Organized a Technical Lecture Meeting on 'Preparation for Placement' on 09 December 2022 at Bareilly. The event was addressed by Er Sudhir Gupta, Immediate Past Chairman of Bareilly Local Centre, IEI. He explained that placements are often extended through internships or work experience assignments and suggested that industrial placement should be included in curriculum. He discussed technical skills, the use of job-specific software, coding, programming, project management, data analysis and technology-specific tools. Additionally, he emphasized the importance of good verbal and written communicating skills leveraging the individual talents to increase productivity and the need for collaborative teamwork in the workplace. He also highlighted the difference between creative and critical thinking, where creative thinking generates myriad solutions and critical thinking involves selecting the most viable creative solutions.

Faridabad

Organized a Technical Lecture Meeting on 'Electric Vehicle: Present Scenario and Future Opportunities in India' on 19 November 2022 which included a webinar. The event featured Er Ankur Mittal, Manager of Energy Management at the National Council for Cement and Building Materials (NCB) in Faridabad, who emphasized the need for Electric Vehicle (EV) adaptability in India to address the reduction of GHG emissions. He also discussed the challenges in implementing Electric Vehicles in India. During the technical session, discussions were held on the advantages and threats in promoting EV's in India and the information was provided about the automobile manufacturers, government subsidy plans and progress being made to make e-vehicles more affordable and durable for the masses.

Kollam

Conducted a webinar on 'Cryogenics and Its Applications in Aerospace' on 07 May 2023. The speaker of the virtual event was Dr K E Reby Roy, Professor, Mechanical Engineering Department, TKM College of Engineering, Kollam & Dean, International Collaborations and Head of Career Guidance of TKM College of Engineering, Kollam. Dr Roy explained the fundamentals of cryogenics and its various applications, particularly in the aerospace industry.



E20 Summit & Two days International Conference on **Towards Netzero in the Industrial Sector in G20**

Organized by
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020
and
International Solar Alliance (ISA)
Scope Complex, Lodi Road, New Delhi-110003

Date: 24-26 August 2023
Venue:
Engineering Staff College of India (ESCI), Hyderabad

TECHNICAL PROGRAMME

Day 1: August 25, 2023

0900 hrs-1000 hrs	REGISTRATION
1000 hrs-1130 hrs	INAUGURAL SESSION
1130 hrs – 1200 hrs	TEA
1200 hrs – 1330hrs	Plenary Session - I : The Strategy for Attaining Net Zero
1330 hrs-1430 hrs	LUNCH
1430 hrs – 1600 hrs	Plenary Session - II : Buildings and Smart Cities
1600 hrs-1630 hrs	TEA
1630 hrs – 1800 hrs	Plenary Session - III : Oil & Gas and Chemicals

Day 2: August 26, 2023

1000 hrs – 1130 hrs	Plenary Session - IV : Cement & Iron and Steel
1130 hrs-1200 hrs	TEA
1200 hrs – 1330 hrs	Plenary Session - V : Information and Communication Technology
1330 hrs-1430 hrs	LUNCH
1430 hrs – 1600 hrs	Panel Discussion : Decarbonization of Industrial Sector
1600 hrs-1730 hrs	Valedictory Session

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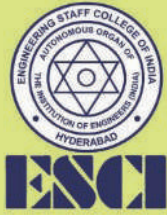
CONFERENCE PARTICIPATION CHARGES

Indian National (Non Members) Rs 15,000 + GST	Indian National (Corporate Members) Rs 10,000 + GST	Foreign Nationals USD 250
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MODE OF PAYMENT

Particulars	Details	Particulars	Details
Account Name	IE (I) Engineering Staff College of India - E20 Summit and International Conference	MICR Code	500026114
Account Number of Beneficiary	132512010001689	IFSC Code	UBIN0813257
Account Type	SAVINGS BANK	Email ID of Beneficiary	finc@escihyd.org
Name of the Bank	Union Bank of India	PAN	AAATT3439Q
Name of the Address of Bank Branch	Gachibowli, Hyderabad	Name in PAN	THE INSTITUTIONS OF ENGINEERS (INDIA)
Branch Code	1325	GSTIN Number	36AAATT3439Q1ZV

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Empanelment as Advocate/ Attorneys & Chartered Accountant for Engineers

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

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

Certificate of Practice for Practicing Chartered Engineers

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

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

The hard copy of application should reach to:-

The Director (Membership)

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

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



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

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

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

(visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#engineering-education-excellence-award>) for the IEI Engineering Education Excellence Award 2023. The deadline for submitting of applications for the Award 2023 is **30 September 2023**. Interested applicants are requested to submit their applications (Four hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

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

56th ENGINEERS' DAY

Theme: Engineering a Resilient Future: Building Stronger, Smarter, Safer

September 15 is celebrated every year in the country since the year 1967 as "Engineers' Day" to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred "Bharat Ratna" on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on Economic Planning in India, Planned Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A theme of national importance is chosen every year by the Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the 56th Engineers' Day will be celebrated all over the country on the theme "**Engineering a Resilient Future: Building Stronger, Smarter, Safer**".



Bharat Ratna Sir M Visvesvaraya

The Institution of Engineers (India) exhorts the entire fraternity of engineers to embark on a remarkable journey of engineering excellence to celebrate Engineer's Day on September 15th. With the resounding theme, "Engineering a Resilient Future: Building Stronger, Smarter, Safer," we pay tribute to the visionary Bharat Ratna Sir Mokshagundam Visvesvaraya and delve into the captivating realm of engineering perspectives.

In this dynamic era, engineers stand at the forefront of progress, crafting a future that is well fortified and unyielding. They are the architects of resilience, working tirelessly to build structures that withstand the test of time. With their expertise, they erect towers that brave the fiercest storms, bridges that span vast chasm and roads that pave the way to safer journeys. With resilience, engineers stand tall, symbolizing their commitment to a stronger tomorrow.

But engineering goes beyond fortification. It's about envisioning a world where technology unlocks endless possibilities. Our engineers tap into the power of innovation, leveraging cutting-edge advancement to create smarter systems. From intelligent cities that optimize resources to revolutionary transportation solutions they propel us towards a future where intelligence reigns supreme.

Yet resilience is not just physical; it extends to our safety and well-being. Engineers are the guardians of our security, meticulously designing structures and systems that safeguard lives. They implement stringent safety protocols, develop disaster management strategies, and pioneer ground breaking technologies that keep us shielded from harm. Their dedication to safety creates an environment where we can thrive and prosper with peace of mind. In our quest for a viable future, sustainability becomes a guiding principle. Engineers lead the charge, embracing eco-friendly materials, renewable energy solutions, and sustainable practices. They shape a world that harmonizes with nature, where delicate balance between progress and preservation is upheld. Through their innovations, they ensure that future generations inherit a planet that thrives with abundant resources and thriving ecosystems.

Join us in embracing the power of innovation and resilience, as we honour the unsung heroes who shape our world and engineer a future that stands tall, thinks smart, and keeps us safe. Together, let's empower engineers and forge a path towards a brighter, more resilient tomorrow.

IEI AWARDS

CALL FOR PAPERS

The Steel Authority of India Ltd (SAIL) had instituted two Awards, namely, **SAIL AWARD** and **DR M VISVESVARAYA AWARD** to be given away every year during the Indian Engineering Congress to author/s of the articles adjudged best on selected topics.

The topics for the year 2023 are given hereunder.

SAIL AWARD

Beneficiation of Iron Ore — Existing Best Practices / Technologies and Way Ahead

DR M VISVESVARAYA AWARD

Improvement in Productivity of Blast Furnaces — Way Forward

The articles preferably restricting to 3000 words along with good quality photographs may be submitted along with a Declaration Form to award@ieindia.org within **September 15, 2023**.

The template of the paper and the Declaration Form are enclosed, which are also available under the following link: https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers

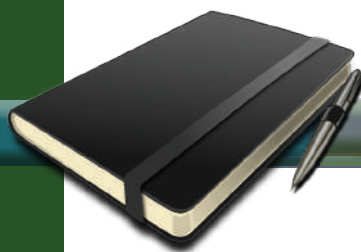
Intending contributors are requested to send the soft copy of the paper by email to award@ieindia.org (with subject heading Paper for SAIL/Dr M Visvesvaraya Award) and submit four nos. printed copies of their articles to :

Director (Technical)

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020.

IEI DIARY



Aerospace Engineering Division

Thirty-sixth National Convention of Aerospace Engineers on **"SPACE - Boundless Opportunities - Transforming Lives"**

Bangalore, September 01-02, 2023

The Honorary Secretary, IEI, Karnataka State Centre, No.3, Dr B R Ambedkar Veedhi, Bangalore 560001, [☎: (080) 22264698, Telefax: 080-22256191, E-mail: karnatakasc@ieiindia.org, Website: www.ieiksc.org]

Architecture Engineering Division

Thirty-eighth National Convention of Architectural Engineers on **"Decarbonizing Cities-Harmonizing Buildings, Mobility and Infrastructure"**

Indore, November 19-20, 2023

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

Agricultural Engineering Division

All India Workshop on **"Agricultural Entrepreneurship and Sustainable Natural Farming"**

Chennai, 31 August - 1 Sept, 2023

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

Thirty-fifth National Convention of Agricultural Engineers **"Emerging Technologies for Advances in Agriculture and Horticulture"**

Jabalpur, September 12-13, 2023

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

Chemical Engineering Division

Thirty-eighth National Convention of Chemical Engineers on **"Digitization of Chemical Process Industry"**

Tiruchirappalli, September 07-08, 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: tiruchirapallilc@ieiindia.org]

All India Seminar on **"Innovative Trends and Aspects of Nanotechnology: Fueling the Chemical Industry's Future"**

Coimbatore, September 21-22, 2023

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

Civil Engineering Division

All India Seminar on **"Repair, Rehabilitation and Retrofitting of RCC Structures"**

Coimbatore, August 24-25, 2023

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG Tech Campus, Peelamedu, Coimbatore,

Tamilnadu 641004 [☎: 0422-2580733, E-mail: coimbatorelc@ieiindia.org, Website: www.ieicoimbatore.org]

All India Seminar on **"Net Zero Energy and Net Zero Carbon Building Design"**

Bangalore, September 28-29, 2023

The Honorary Secretary, IEI, Karnataka State Centre, No.3, Dr B R Ambedkar Veedhi, Bangalore 560001, [☎: (080) 22264698, Telefax: 080-22256191, E-mail: karnatakasc@ieiindia.org, Website: www.ieiksc.org]

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

Belagavi, October 08-09, 2023

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

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

Jabalpur, November 25-26, 2023

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

Computer Engineering Division

One Day Workshop on **"Embedded System Design in Automotive Electronics"**

Kattankulathur, August 07, 2023

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

All India Seminar on **"Swarm Intelligence for Next Generation Networks"**

Coimbatore, August 17-18, 2023

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

One Day Seminar on **"Machine Learning and Deep Learning using Python"**

Durgapur, August 22, 2023

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

One Day Seminar on **"Data Analytics Implementation"**

Coimbatore, August 22, 2023

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

All India Seminar on **"A IoT Enabled Smart Health Care Systems"**

Hosur, August 23-24, 2023

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

All India Seminar on **"Challenges and Mitigation Strategies for SDG13 Emerging Trends in IoT to Combat Climate Action"**

Puducherry, August 24-25, 2023

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701/9443748471, Email: puducherryssc@ieiindia.org, Website: www.ieipsc.org]

All India Seminar on **"Artificial Intelligence and Data Science in Environmental Sensing"**

Tiruchirappalli, August 25-26, 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: tiruchirapallilc@ieiindia.org]

All India Seminar on **"Hands on Practice on IoT"**

Chandigarh, August 25-26, 2023

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

One Day Seminar on **"Artificial Intelligence with Reference Data Science and Machine Learning"**

Agra, August 26, 2023

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

All India Seminar on **"Artificial Intelligence"**

Bareilly, September 22-23, 2023

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

All India Seminar on **"Protection of Data and Privacy Within Distributed System"**

Ranchi, September 23-24, 2023

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

All India Workshop on **"Building ChatGPT Messenger using Nextjs"**

Kanchepuram, September 28-29, 2023

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

All India Workshop on **"Intelligent System And Security Challenges In Industry 5.0"**

Kolkata, September 29-30, 2023

The Honorary Secretary, IEI, West Bengal State

Centre, 8 Gokhale Road, Kolkata 700020 [☎: 033-22238914, Fax: 033-22233140, E-mail: wbsc@ieindia.org]

One Day Workshop on "Soft Computing and Machine Learning"

Durgapur, October 05, 2023

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

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

Salem, October 16-17, 2023

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

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

Kanchepuram, October 18-19, 2023

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

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

Bareilly, October 18-19, 2023

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

All India Seminar on "Deep Learning in the Medical Field Opportunities and Challenges for Advancement"

Coimbatore, November 02-03, 2023

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

One Day Workshop on "Robotics Artificial Intelligence Enable Cyber Crimes and Animation Development"

Agra, November 09, 2023

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

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

Bhimavaram, November 16, 2023

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

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

Kolkata, November 23-24, 2023

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: 033-

22238914, Fax: 033-22233140, E-mail: wbsc@ieindia.org]

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

Ranchi, December 09-10, 2023

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

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

Kattankulathur, February 7-9, 2024

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

Electrical Engineering Division

All India Workshop on "Role of IoT in Smart Grid Technology and Applications"

Hosur, August 03-04, 2023

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

All India Seminar on "Wireless Charging Technologies for Electric Vehicle Applications"

Kattankulathur, August 03-04, 2023

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

All India Seminar on "Opportunities and Challenges of Electric Vehicles in Agricultural Applications in India"

Kattankulathur, August 18-19, 2023

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

All India Seminar on "Technological Advancement and Challenges in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E-vehicles"

Hosur, August 29-30, 2023

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

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

Tiruchirappalli, September 20-21, 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: tiruchirapallilc@ieindia.org]

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

Tiruchirappalli, October 03-07, 2023

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

One Day Seminar on "Electrical and Hybrid Vehicles"

Agra, October 11, 2023

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

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

Shimla, November 24-25, 2023

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

International Conference on "Green Hydrogen and Clean Energy"

Nagpur, February 10-11, 2024

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

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

Chennai, May 24-25, 2024

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

Electronics and Telecom. Engg. Division

One Day Seminar on "Future Technologies and its Impact on Humans and Society"

Bathinda, August 19, 2023

The Honorary Secretary, IEI, Bathinda Local Centre, Kartar Colony, Behind Deaf & Dumb School, Goniana Road Bathinda 151 003 [☎: 0164-3293900, Email: bathindalc@ieindia.org]

All India Workshop on "Real Time Applications of Image Processing : AI, ML and Computer Vision"

Tiruchirappalli, August 25-26, 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: tiruchirapallilc@ieindia.org]

One Day Seminar on "Embedded Systems using Internet of Things"

Visakhapatnam, August 28, 2023

The Honorary Secretary, IEI, Visakhapatnam Local Centre, Office Address:43-18-22, Visvesvaraya Bhavan, Before Railway Station Road, Beside Flyover, Venkatarajunagar, Visakhapatnam 530016 [☎: 0891-2947460, Email: visakhapatnamlc@ieindia.org]

All India Workshop on **"Sensors and IoT for Smart Health Care"**

Kattankulathur, August 30-31, 2023

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

All India Seminar on **"The Impact of Quantum Computing on Society and the Economy :Unlocking New Possibilities"**

Coimbatore, September 04-05, 2023

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

All India Seminar on **"Smart Application of Labview in Electronics Engineering"**

Madurai, September 22, 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, Ph: 0452-4373067, E-mail: madurailc @ieindia.org

All India Workshop on **"Recent Advancements in Organic and Nanoelectronics"**

Kattankulathur, October 05-10, 2023

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

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

Kattankulathur, February 7-9, 2024

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

Thirty-eighth National Convention of Electronics & Telecommunication Engineers on **"Hyper Connectivity Applications of Next Generation Communications"**

Kochi, October 27-28, 2023

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

Environmental Engineering Division

All India Seminar on **"Forest Clearance and Environmental Clearance: Issues relating to Ease of Doing Business"**

Jharkhand, August 12-13, 2023

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

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

Durgapur, October 07-08, 2023

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205, [☎:

0343-2564770, E-mail: durgapurlc@ieindia.org; Website: www.ieidurgapurlc.org]

All India Seminar on **"Sustainable & Green technologies for Industries"**

Bokaro, August 26-27, 2023

The Honorary Secretary, IEI, Bokaro Steel City Local Centre, Abhiyanta Bhawan, Sector V-A, Bokaro Steel City, 827006 [☎: 06542-363262, E-mail: bokarolc@ieindia.org, Web: www.ieibsccl.org]

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

Shimla, September 15-16, 2023

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

All India Seminar on **"Advanced Instrumentation for Assessment of Soil Health Indicators, Pollution and Greenhouse gas Emission from Soil"**

Coimbatore, 16-17 Nov, 2023

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

Marine Engineering Division

Thirty-fifth National Convention of Marine Engineers on **"Recent Advances in Marine Engineering and Marine Systems"**

Kanchepuram, September 11-12, 2023

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

International Conference on **"Industry 4.0 for Eco-friendly Marine Solutions"**

Colombo, November 17-18, 2023

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

Mechanical Engineering Division

All India Seminar on **"Role of Mechanical Engineers for Mitigating Climate Change"**

Guwahati, August 19-20, 2023

The Honorary Secretary, IEI, Assam State Centre, East Lane, Panbazar Overbridge, Panbazar, Guwahati 781001 [☎: 0361-2548742, E-mail: assamsc@ieindia.org, Website: www.ieiasc.org]

All India Seminar on **"Advances in Nanotechnology for Sustainable Development"**

Puducherry, September 04-05, 2023

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701/9443748471, Email: puducherryisc@ieindia.org, Website: www.ieipsc.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]

All India Seminar on **"Solar Energy and Thermal Storage for Sustainable Environment"**

Kattankulathur, September 21-22, 2023

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

All India Seminar on **"Advancements, Challenges and Opportunities in Electric Vehicles"**

Coimbatore, September 26-27 2023

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

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

Coimbatore, October 10-11, 2023

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

All India Seminar on **"Non Conventional Energy Resources for Power Plant Design; Advanced Green Energy Sources"**

Bareilly, October 12-13 2023

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

Metallurgical & Materials Engineering Division

One-day Seminar on **"Metal casting Technology: the Backbone of Futuristic Manufacturing"**

West Bengal, August 05, 2023

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

International Conference on **"Digitization and Advancements in Materials and Metallurgical Industries"**

Jaipur, August 19-20, 2023

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [☎: 0141-2706327, E-mail: rajasthansc@ieindia.org]

All India Seminar on **"Smart Materials for Future Applications"**

Chennai, 25-26 August, 2023

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

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

Puducherry, 06-07 Oct, 2023

The Honorary Secretary, IEI, Puducherry State Centre, No. 63, Nethaji Subash Chandra Bose Salai, Ground Floor, PWD Campus, Puducherry 605001 [Mobile: 9489766701/9443748471, Email: puducherryisc@ieindia.org, Website:www.ieipsc.org]

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

Kolkata, November 17-18, 2023

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

Mining Engineering Division

Thirty-third National Convention of Mining Engineers on **"Amended Mines Regulations and its Impact on Mining Industry"**

Bangalore, August 11-12, 2023

The Honorary Secretary, IEI, Karnataka State Centre, No.3, Dr B R Ambedkar Veedhi, Bangalore, 560001 [☎: (080) 22264698, Telefax: 080-22256191, E-mail: karnatakasc@ieindia.org, Website: www.ieiksc.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, August 18-19, 2023

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

All India Workshop on **"CNC Programming & Practice through MASTERCAM/SeeNC Software on 5 Axis CNC Machine"**

Kattankulathur, July 27-28, 2023

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

All India Workshop on **"Hands-on Robot Simulation, Programming and Execution using Real Time Robot"**

Kanchepuram, August 17-18, 2023

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

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

Ranchi, October 08, 2023

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

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

Bareilly, June 28-29, 2024

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

Textile Engineering Division

One Day Seminar on "Recent Trend in Apparel and Fashion Manufacturing"

Coimbatore, August 31, 2023

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

Thirty-sixth National Convention of Textile Engineers on **"Smart Textile"**

Chennai, September 29-30, 2023

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

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

Interdisciplinary Coordination Committee

One Day Seminar of **"Innovation, Implementation and Industrialisation"**

Thiruvananthapuram, August 09, 2023

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opp To Kanakakunnu Palace, Thiruvananthapuram 695 033 [☎: 0471-2322991/2982102, Fax: 0471-232992, Email: keralasc@ieindia.org, Website: https://ieitvm.org]

All India Seminar on **"Artificial Intelligence and IoT in Agriculture and Food Industry 4.0"**

Rourkela, August 12-13, 2023

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

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

Pune, September 02-03, 2023

The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332 J M Road, Shivajinagar, Pune 411005 [☎: 020-25533376 / 25520239 (Admin Incharge: 8380042746), E-mail: punelc@ieindia.org; Website: www.ieipune.org]

All India Seminar on **"Technology Inclusion for Innovation and Productivity Enhancement"**

Jamshedpur, October 03-04, 2023

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

One Day Seminar on **"Innovation Conclave"**

Durgapur, November 05, 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]

WFEO 2023 Awards – Call for Nominations

The WFEO Secretariat is pleased to advise you that the call for nominations is now open for:

- **The 2023 WFEO - GREE Women in Engineering Award**
- **The 2023 WFEO Medal for Excellence in Engineering Education**
- **The 2023 WFEO - CCC H. J. Sabbagh Prize for Excellence in Engineering Construction**

You will find attached the combined presentation and nomination forms for each of the above mentioned Awards can be downloaded at <http://www.wfeo.org/awards>.

The awards are open for nominations by any institution, however nominations sent or supported by WFEO member organizations will be highly regarded.

For all three awards, please note that the deadline for nominating for any of those awards is **31 August 2023**.

Nominations are to be sent only at wfeo-awards@wfeo.org.

The Laureates will be announced at the forthcoming WFEO World Engineers' Convention and General Assembly meetings in **Prague, 9-15 October 2023**.

The WFEO Secretariat may be contacted at secretariat@wfeo.org for any queries.

Superannuation from IEI



Mr Subir Chattopadhyay, an employee of the Institution HQ has superannuated from the services of IEI on July 31, 2023. He joined the Institution on April 04, 1994 and rendered his services to the Institution over a period of 30 years.

IEI wishes Mr Subir Chattopadhyay and his family a happy and healthy life in future.



The Institution of Engineers (India)

IEI Industry Excellence Award 2023

Request for Participation

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

Applications in specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>) are invited from prospective applicants for IEI Industry Excellence Award 2023. The last date of receipt of application for the Award 2023 is **30 September 2023**. Interested applicants are requested to send their applications (Two hard copies & One soft copy in Pendrive/CD) to the below mentioned address.

The Director [Technical]

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



The Institution of Engineers (India)

IEI Industry Excellence Award 2023

for Overseas Organisation

Request for Participation

Discover IEI:

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

Introducing the IEI Industry Excellence Award:

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

Join Us in Celebrating Excellence:

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

Why Participate?

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

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

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

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

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

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

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