



I.E.I NEWS

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A CENTURY OF SERVICE TO THE NATION

Volume 28

Number 4

IEI Technical Webinar under the aegis of Marine Engineering Division Board

Oxygen Supply Chain for Uninterrupted Life Support: Role of Maritime Industry during COVID Times

The **Marine Engineering Division Board (MRDB)** of the Institution organized Technical Webinar on the theme **Oxygen Supply Chain for Uninterrupted Life Support: Role of Maritime Industry during COVID Times** on 29 June 2021. Mr Vinit Kumar, Chairman, Syama Prasad Mookerjee Port, Kolkata, (erstwhile Kolkata Port Trust) & Chairman, Paradip Port Trust; and Mr Amit Bhatnagar, Senior Principal Surveyor & Regional Manager, East Coast & Bangladesh, Indian Register of Shipping (IRS), Kolkata graced the function as eminent Panelists and provide lots of insightful information to the august audience. Dr Abdus Samad, Professor, Department of Ocean Engineering, IIT Madras, Chennai graced the occasion as the Moderator of session.



Mr Vinit Kumar

Mr Vinit Kumar, Chairman, Syama Prasad Mookerjee Port, Kolkata initiated his deliberation by stating the functional responsibilities of Indian Ports to sustain the continuous supply of life-saving oxygen all over the country during the pandemic and further stressed on continuous refilling and supply of medical oxygen to the patient end at the right point of time with the objective to mitigate the huge demand of the same. Mr Kumar, in his deliberation, assured that

India is self-reliant in oxygen production and strongly advocated for the formulation of suitable strategy to meet the huge demand of medical oxygen by means of proper storage

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IEI Technical Webinar under the aegis of Chemical Engineering Division Board

Green Engineering, Climate Change and Safety

West Bengal State Centre of the Institution organized Technical Webinar on the topic, **Green Engineering, Climate Change and Safety** under the aegis of Chemical Engineering



Prof Ajoy Kumar Ray

Division Board (CHDB) of IEI on 24 March 2021. The eminent Panelists on the occasion, namely, Padma Shri Prof Ajoy Kumar Ray, Director, JIS Group, Kolkata and Former Director, Indian Institute of Engineering Science and Technology Shibpur, Howrah; Prof Chiranjib Bhattacharjee, Pro-Vice-Chancellor, Jadavpur University, Kolkata; Dr Debashis Bhattacharya, Director, Global Safety Assurance, England, UK; Mr D M Butala, Council Member and Former Vice President, Indian Institute of Chemical Engineers and Prof Nitosh Kumar Brahma, Visiting Professor, Institute of Genetic Engineering, Badu, Kolkata graced the occasion with their virtual presence. Dr Avijit Ghosh, Heritage Institute of Technology, Kolkata moderated over the session.

Prof Ajoy Kumar Ray, in his address explained in details the increasing emission of CO₂ and narrated the meaning of carbon footprint corresponding to the increase of CO₂. Prof Ray, mentioned the importance of CO₂ capture and its reuse in medicine and healthcare system. Later, he highlighted rapid increase in global warming along with its impact on climate change and essential aspects of technological development. Compressing CO₂ gas and solidify the

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From the President's Desk.....

In this energy-driven industrialized society, energy consumption is linked to the rising living standards, lifestyles, and population, especially in developing economies. Concerns such as potential scarcities of different energy resources and the impact of energy systems on the environment result effect on energy utilization. When fossil fuel supplies become scarcer and environmental concerns increase, and when there is growing prominence to reduce greenhouse gas emissions and develop green energy sources to replace carbon energy, hydrogen is expected to play a key role as the principal energy carrier. As a clean, zero-emission energy source and environmentally-friendly alternative to traditional fossil fuels, hydrogen plays a significant role in the move towards a greener future. Hydrogen, as an infinite energy source, can be produced from hydrocarbon and non-hydrocarbon energy sources and stored in liquid or gaseous form. Furthermore, due to its low energy density, hydrogen can be transported and provide a strong backup of renewable energy sources. Hydrogen is a proven fuel for everyday use, as well as safe, non-toxic, and easily dissipated into the atmosphere. When compressed hydrogen is used in a fuel cell, it produces electricity, clean water, and heat, which results in the release of zero pollutants or no greenhouse gases into the air. More precisely, hydrogen utilization involves oxidation, and the only direct major hydrogen oxidation product is water and, as hydrogen is recyclable as an energy carrier, so hydrogen oxidizes to water, which can be separated to generate hydrogen.



At the outset, hydrogen is the most logical, commendable, and significant chemical fuel for the future, which leads to an eventual Hydrogen Economy, where hydrogen and electricity will serve as complementary secondary energy carriers. Hydrogen fuel cell electric vehicles appear as one of the most significant and feasible options for future transportation and to reduce environmental degradation. Hydrogen can also be used in internal combustion engines that are designed similarly to traditional combustion engines. When petroleum-based fuels retain the dominant role in the transport sector; hydrogen-based internal combustion vehicles with the ability to switch over to the traditional fuel with no hydrogen refuelling option, will offer flexibility to the consumers in automotive sector.

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Oxygen Supply Chain for Uninterrupted Life Support: Role of Maritime Industry during COVID Times

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and distribution of oxygen at the critical care points at the moment of crisis. Mr Kumar, in his address further mentioned the role of Indian maritime industry in importing cylinders from outside, initiatives by the Government of India to facilitate these life-saving consignments, prompt customs and port clearance for releasing oxygen containers within the shortest possible time, and assured that the ports of the country are functioning relentlessly on priority basis, principally on digital mode to sustain the oxygen supply chain countrywide. Mr Kumar, in his address, emphasized on installation and functioning of oxygen plants on an urgent basis and outlined the functioning of Indian Ports regarding the critical, hassle-free imports of mandatory critical sub-components, mountings and accessories, required to install oxygen plants. In his address, Mr Kumar mentioned the role and functions of different stakeholders for smooth functioning of oxygen supply chain to the hospitals, storage units, bottling plants and further added the role of Indian Ports for supplying oxygen concentrators to the critical points of patient care. Mr Kumar concluded his address with more emphasis on the enhanced supply of life-saving oxygen at all critical points of treatment, indigenous, decentralized production, and supply of oxygen to meet the present and future demand of the same and optimization of transportation cost through multi-modal transport, as and when required.

Mr Amit Bhatnagar, Senior Principal Surveyor & Regional Manager, East Coast & Bangladesh, Indian Register of Shipping (IRS), Kolkata, in his deliberation, briefly introduced the scope of functioning of the Indian Register of Shipping. In his deliberation, Mr Bhatnagar discussed at a length the transportation of oxygen containers through shipping, properties of medical oxygen, and production of the same through Fractional Distillation Method. Mr Bhatnagar, in his speech, focused on the safe transportation of



Mr Amit Bhatnagar

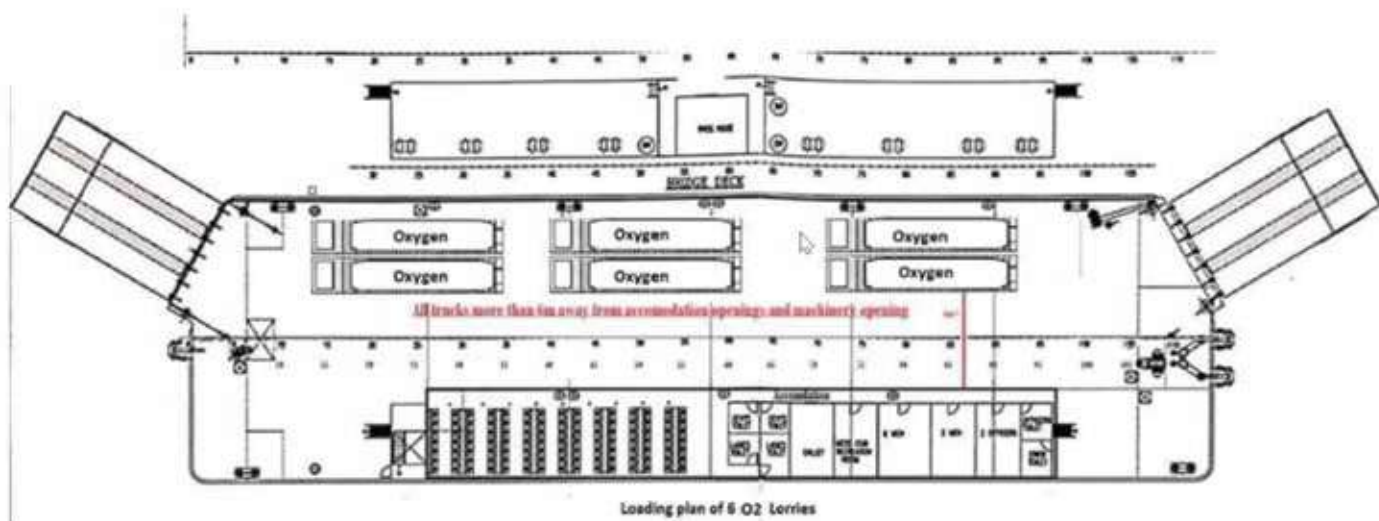
oxygen in liquid form, which is a space-saving factor on board. He further discussed the advantages and benefits of oxygen transportation through inland waterways, oxygen trucks transportation through Ro-Ro vessels and mentioned the design and operational approval of oxygen trucks carrying liquid oxygen from Petroleum & Explosive Safety Organization (PESO). He also explained the stability and safety requirements of inland vessels with truck tankers on board, based on the loading conditions, truck weight, ballast arrangement, etc. Mr Bhatnagar also addressed the issues related to the safety arrangements on board, deck, storage, and accommodation security with fire protective materials, application of explosion-proof electrical equipment and fittings etc. Mr Bhatnagar concluded his address by mentioning the significant role of the Indian Maritime sector in providing low-cost transportation of oxygen through inland waterways, especially by Ro-Ro vessels. Moderator of the session, Dr Abdus Samad, Professor, Department of Ocean Engineering, IIT Madras summed up the proceedings of deliberation.



Prof Abdus Samad

Earlier, Prof (Dr) Swapan Bhaumik, Chairman, Committee for Advancement in Technology and Engineering (CATE) addressed the audience and mentioned that during the second wave of the pandemic, the entire country is struggling to meet the huge demand for medical oxygen for COVID patients. At that point of time, the first and foremost critical factor for the survival of the patients is continuous supply of oxygen cylinders; setting-up of more oxygen plants at the strategic points, manufacturing of oxygen concentrators at a large scale and formation of more oxygen refilling units on an urgent basis. During this period, Indian maritime sector has come forward and prioritized the supply of more medical oxygen cylinders and concentrators at the hospitals and COVID care units, which results enormous life-saving support to the critical care patients at the right point of time, Prof Bhaumik mentioned. Dr Nilanjan Sengupta, Director (Technical), IEI delivered the opening remarks and at the end of the session proposed the vote of thanks.

Oxygen Trucks Loading on Ro-Ro vessel



Green Engineering, Climate Change and Safety

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same was one such item as emphasized by Prof Ray, which is supposed to be used in formulating green technology and development of medical sciences.



Prof Chiranjib Bhattacharjee

Prof Chiranjib Bhattacharjee, in his deliberation emphasized on the importance of water recycling and the demand of increasing the provision of drinking water. As an expert of Membrane Based Separation Technology (MBST), he briefly described several experiments related to Waste Water Treatment (WWT). Prof Bhattacharjee also highlighted the importance of green engineering for sustaining global environment.

Dr Debashis Bhattacharya explained & focused on the importance and application of Artificial Intelligence (AI) in the healthcare system. Dr Bhattacharya narrated that the main problem in future would be to manage patients in clinics, where many types, many groups, many unknown diseases may have to be treated.



Dr Debashis Bhattacharya

AI can manage the healthcare safety processes through data management system as highlighted by Dr Bhattacharya. He also briefly elaborated that digitization networking process, telemedicine etc. are becoming the most important tools to mitigate the devastating pressure on human health in the near future.

Mr D M Butala, in his address described all kinds of safety aspects in chemical industries. As an expert of Process Safety Management (PSM) and had an expertise of 40 years in various industries such as, petrochemicals, fertilizer etc, he explained different safety management procedure for safety among the workers. By demonstrating through different flow charts, Mr



Mr D M Butala

Butala explained the legitimate safety aspects of the industries.

Prof Nitosh Kumar Brahma, in his deliberation elaborated the whole concepts of green engineering, climate change and safety in two directions - firstly to improve the integrated concept through simple technology using algae and secondly the philosophical aspects of green engineering. He explained that the algae can absorb CO₂ and can produce bio-fuel, the future food for the developing nation. Algae can grow in open pond and also in Packed Bed Reactor (PBR) as highlighted by Prof Brahma. He also mentioned that more green means more sustainability, more safety and less impact on climate change.



Prof Nitosh Kumar Brahma

Dr Avijit Ghosh, Heritage Institute of Technology, Kolkata and the Moderator of the event summarized the presentations and extended the thanks to the Panelists on behalf of the host Centre. A separate question-answer session was organised, when the attendees interacted with the Panelists and Moderator on various issues of Green Engineering and Climate Change. Earlier, Mr Sandip Kumar Deb, Chairman, West Bengal State Centre and Council Member, IEI extended the warm welcome to the Panelists, Moderator, attendees and Guests. Mr Kirti Hiralal Shethna, Member, Chemical Engineering



Dr Avijit Ghosh

Division Board and Council Member, IEI expressed his opinion on the need and scope of organizing such event. Mr Kali Pada Das, Honorary Secretary, West Bengal State Centre proposed the vote of thanks.

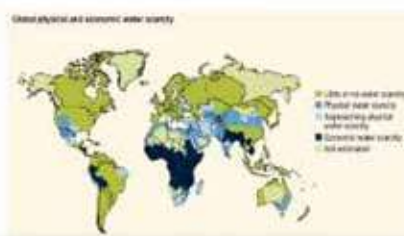
Triple Bottom Line



Making products, processes, and systems more environmentally benign generally follows one of the two basic approaches:

- (1) changing the inherent nature of the system; or
- (2) changing the circumstances/conditions of the system.

Design of fundamental products, processes, and systems not only maintain and/or improve quality of life, but also protect the planet.



From the President's Desk.....

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The Ministry of New and Renewable Energy, Government of India has been supporting broad-based Research Development and Demonstration programme on Hydrogen Energy and Fuel. Projects are supported in industrial, academic, and research institutions to address the challenges in the production of hydrogen from renewable energy sources, its safe and efficient storage, and its applications through the combustion of fuel cells. This has resulted development and demonstration of internal combustion

engines, run on hydrogen fuel, and the development of hydrogen refuelling stations. The National Hydrogen Mission has been proposed by the Government of India for generating hydrogen from green power sources.

During this pandemic time, I request all State and Local Centres of the Institution to come forward and organize virtual events on this emerging topic and provide valuable inputs to our Corporate Members, obtained through meaningful deliberations.

Role of Antennas and Sensor Networks in Wireless Communication

Bathinda Local Centre, IEI organized Technical Webinar on the theme **Role of Antennas and Sensor Networks in Wireless Communication** under the aegis of Electronics and Telecommunication Engineering Division Board (ETDB), IEI on 26 April 2021. Dr Pravin R Prajapati, Associate Professor, Department of Electronics & Communication Engineering, A D Patel Institute of Technology, New Vallabh Vidyanagar, Gujarat and Dr Kanika Sharma, Assistant Professor, Department of Electronics & Communication Engineering, National Institute of Technical Teachers Training & Research, Chandigarh graced the function as Panelists. Ms Manpreet Kaur, Assistant Professor, Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Talwandi Sabo was the Moderator during the session. Prof (Dr) Jagtar Singh, Chairman Bathinda Local Centre, and Council Member, IEI welcomed the Panelists, Moderators, IEI dignitaries, and participants.



Dr Pravin R Prajapati

Prof (Dr) T S Kamal, Chairman Electronics and Telecommunication Engineering Division Board and Council Member, IEI, was present on the occasion and addressed the audience.



Dr Kanika Sharma

Dr Kanika Sharma, Assistant Professor, Department of Electronics & Communication Engineering, National Institute of Technical Teachers Training & Research, Chandigarh in her address, discussed the role of intelligent sensor networks in wireless communication. She described wireless sensor network as a self-organized network, that consists of low cost and low-powered embedded system with sensor devices. The sensor nodes can communicate among themselves using radio signals and a sink or base station acts as an interface between users and network, Dr Sharma mentioned. Moreover, she discussed about the important components of wireless sensor networks and their applications in habitat monitoring, biomedical science, seismic monitoring, military sensing, traffic surveillance, weather sensing, environment monitoring, etc. The lecture also highlights various research issues and

challenges involved in different sensor networks. Dr Sharma concluded with focus on minimization of energy consumption, and mentioned it as an important area that should be further explored by the researchers through different methodologies.

Dr Pravin R Prajapati, Associate Professor, Department of Electronics & Communication Engineering, A D Patel Institute of Technology, New Vallabh Vidyanagar, Gujarat in his lecture, discussed different types of planar antennas, advantages, disadvantages, and applications of microstrip patch antennas and stated that microstrip patch antennas are becoming increasingly useful as they can be printed directly onto a circuit board. Microstrip antennas are becoming very widespread within the mobile phone market, Dr Prajapati added. He further mentioned that patch antennas are low-cost antennas, having a low profile which can easily be fabricated. He



Ms Manpreet Kaur

also discussed current aspects in planer antenna technology. Dr Prajapati explained too different areas of antennas where there is further scope of research and development. Dr Prajapati also discussed working principles of fractal antennas and textile antennas and explained that fractal antenna uses a fractal, self-similar design to maximize the effective length or increase the perimeter on inside sections or the outer structure of the material, which can receive or transmit electromagnetic radiation within a stated total surface area or volume. He also provided deep introduction to substrate integrated waveguide, meta-materials, wideband antennas, partially reflective surface, and 5G antennas. Moreover, he described different methods that can be used to reduce the size and improve the parameters of the antennas. His talk also concerned with dielectric resonator antennas (DRA), that makes use of a radiating mode of a dielectric resonator. Moderator of the event, Ms. Manpreet Kaur, Assistant Professor, Electronics and Communication Engineering, Yadavindra College of Engineering, Talwandi Sabo summed up the proceedings of the delebaration. Mr. J S Deol, Honorary Secretary, Bathinda Local Centre, IEI, proposed the vote of thanks.



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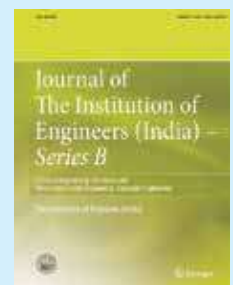
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IEI Celebrates

World Environment Day

2021

Theme : Ecosystem Restoration

World Environment Day was celebrated by the Centres of the Institution all over the country on 5 June, 2021. Brief accounts of the celebration as received from various Centres are reported hereunder.

STATE CENTRES

Chhattisgarh

Chhattisgarh State Centre, IEI observed World Environment Day on 5 June 2021 through online platform. Chief Guest of the function, Prof (Dr) Mukesh Sharma, Department of Civil Engineering, IIT Kanpur in his address reminded the audience about their fundamental duties to protect the environment. Guest of Honour of the session, Mr. Himanshu Tilwankar stressed on plastic recycling. Speaker, Prof Ninad Bodhankar, School of Studies, Geology & Water Resource Management, Pt Ravihankar Shukla University, Raipur delivered the keynote address and explained on conservation of wetland and water resources. Prof (Dr) Samir Bajpai, Department of Civil Engineering, NIT Raipur was the convener of the program. Earlier, Mr. Anil Kumar Sharma, Chairman, Chhattisgarh State Centre and Council Member, IEI delivered the welcome address and narrated about the awareness and action for the protection of the environment. Prof (Dr) Sanjay Kumar, Honorary Secretary, Chhattisgarh State Centre proposed the vote of thanks.

Gujarat

Gujarat State Centre, IEI observed World Environment Day on 5 June 2021 jointly with Pandit Deendayal Energy University (PDEU), Gandhinagar; Water Management Forum, IEI and Dr S & SS Ghandhy College of Engineering & Technology, Surat through online platform. Prof Sunil Khanna, Director, School of Technology, PDEU, Gandhinagar graced the function as Chief Guest and Prof S K Singh, Dean, Delhi Technological University, Guest of Honour. Keynote Speaker of the event, Dr Santosh Kolte, Principal, Alpha College of Engineering & Technology, Khatraj, Gandhinagar delivered lecture on the theme. Earlier, Mr Hiro Udhavdas Kalyani, Chairman, Gujarat State Centre and Council Member, IEI delivered the welcome address and explained the objective and background to observe World Environment Day. Mr Shyam Varghese, Honorary Secretary, Gujarat State Centre proposed the vote of thanks.

Haryana

Haryana State Centre, IEI observed World Environment Day on 5 June 2021 through online platform and organised webinar on the occasion. Mr R R Tanwar, Chairman, Centres Coordination Committee & Council Member, IEI was the Chief Guest of the event. Mr Rakesh Khare, Former Executive Director, Tehri Hydro Development Corporation Limited (THDC), the Keynote speaker of the event expressed his concern regarding the alarming position of the unbalanced ecosystem of the Earth. Mr. K C Sethi, Former Vice President, IEI delivered speech on the occasion and the end of the session, proposed the vote of thanks.

Jammu & Kashmir

Jammu & Kashmir State Centre, IEI observed World Environment Day on 5 June, 2021 jointly with National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India and in collaboration with Divisional Administration, Kashmir, Government P G College for Women,

Gandhi Nagar, Jammu, Jammu & Kashmir Forest Department, SSM College of Engineering and Technology Parihaspora and Jammu & Kashmir State Emergency Operation Centre, Srinagar and organised a technical webinar on the topic 'Ecosystem Restoration for improved Relationship with Nature'. Speakers of the webinar were Dr Sangita Nagari, Principal, Government P G College for Women, Gandhi Nagar, Jammu; Mr. Aamir Ali Mir, Chairman, Jammu & Kashmir State Centre and Council Member, IEI ; Dr M R D Kundangar, Former Director (R&D), Jammu & Kashmir Lakes And Waterways Development Authority (LAWDA), Mutaherra Abida, Senior Scientist, Jammu & Kashmir Pollution Control Board, Ministry of Environment and Forest, Government of Jammu & Kashmir, Mr. Irfan Ali Shah, Conservator of Forests, Prof (Dr) Shakil Ahmad Romshoo, Dean, Research, University of Kashmir; Dr Amir Ali Khan, Faculty NIDM; Mr. Syed Shabir Ahmed Ruffai, Director, Skill Development, SSM College of Engineering, Parihaspora. The Webinar was coordinated by Ms. M Aaqib Sultana Waheed Deva, Honorary Secretary, Jammu & Kashmir State Centre.

Kerala

Kerala State Centre, IEI observed World Environment Day on 8 June 2021 and organised a technical webinar on the topic 'Sustainable Design Strategies for Engineers and Managers'. Panelist, Mr E J Francis, Group Director (Retd), VSSC, ISRO deliberated lecture on the topic and briefly explained sustainability as the ability to coexist with nature continuously. Earlier, Mr. K K Gopalakrishnan Nair, Chairman, Kerala State Centre and Council Member, IEI welcomed the audience and introduced the speaker. Mr. Asok Kumar K, Honorary Secretary, Kerala State Centre proposed the vote of thanks.

Maharashtra

Maharashtra State Centre observed World Environment Day on 5 June 2021, and organised webinar on the theme. On the occasion, Dr Mohan B Dagaonkar, Council Member, IEI deliberated introductory speech and narrated the importance of the day. Dr Prashant Bhawe, Head, Civil and Environmental Engineering, Veermata Jijabai Technological Institute (VJTI), Mumbai was the Keynote speaker on the occasion. During lecture, he explained about ecology along with its importance, it's primary goals and various levels of ecology to start with. The speaker further elaborated about Eco-toxicology, Industrial Symbiosis and Sustainable Food Chain. Earlier, Dr Himanshu Madhukar Raje, Chairman, Maharashtra State Centre and Council Member, IEI delivered the welcome address. Mr V C Kamble, Past Chairman, Belapur Local Centre, IEI was the convener of the programme. Mr Narendra Karbhari Birar, Honorary Secretary, Maharashtra State Centre proposed the vote of thanks.

Puducherry

Puducherry State Centre, IEI observed World Environment Day by organizing an online lecture on the theme of the day on 5 June 2021. Dr A Gangagni Rao, Chief Scientist and Professor of Engineering Sciences, Centre for Environmental Engineering & Fossil Fuels, Bioengineering and Environmental

Sciences Group, CSIR-IICT, Hyderabad was the resource person of the event and delivered lecture on the topic, 'Engineering Innovations and Social Needs for Ecological Restoration'. Earlier, Prof (Dr) Raman Saravanane, Chairman, Puducherry State Centre and Council Member, IEI welcomed the audience and introduced the Chief Guest. The programme was well attended by eminent dignitaries throughout the country. Dr G Rameswar Rao, Council Member, IEI; Mr B Brahma Reddy, Council Member, IEI; Dr Bascarane, Chief Grievance Officer, Raj Nivas, Puducherry also attended the programme. Prof (Dr) B Radjaram, Honorary Secretary, Puducherry State Centre proposed the vote of thanks.

Punjab & Chandigarh

Punjab & Chandigarh State Centre, IEI observed World Environment Day in association with B A M Khalsa College, Garhshankar on 5 June 2021 through online platform. Chief Guest on the occasion, Sardar Harinder Singh Sandhu, Town Planner, Patiala specifically mentioned the improvement in the environment during lockdown. Prof (Dr) Jagbir Singh Kirti, Former Head, Department of Zoology and Environmental Sciences, Punjabi University, Patiala, was the Keynote speaker of the event. Mr. Parminder Singh Bhogal, Council Member, IEI briefed about the Environmental Act. Earlier, Mr Sukhvir Singh Mundi, Chairman, Punjab & Chandigarh State Centre and Council Member, IEI delivered the welcome address. Prof (Dr) Baljit Singh, Honorary Secretary, Punjab & Chandigarh State Centre proposed the vote of thanks.

Tamil Nadu

Tamil Nadu State Centre jointly with Salem Local Centre, IEI observed the World Environment Day on 5 June 2021 through online platform. Chief Guest of the event, Mr Arun Krishnamurthy, Environmentalist, Founder, Environmentalist Foundation of India and Founder, Krish Info Media, delivered lecture on the theme. At the outset, Mr R Ramdoss, Chairman, Tamil Nadu State Centre and Council Member, IEI welcomed the audience. Mr D Arul Selvan, Chairman, Salem Local Centre introduced the Chief Guest. Mr. S Kannan, Honorary Secretary, Tamil Nadu State Centre proposed the vote of thanks.

Telangana

Telangana State Centre, IEI in association with Engineering Staff College of India (ESCI), IEI observed World Environment Day on 5 June 2021 through online platform. Er Narendra Singh, President, IEI graced the occasion as Chief Guest and spoke on the theme. Mr Ashwani Kumar Saxena, Chairman, Board of Governors – Sustainable Development Forum, IEI, BOG-SDF; Mr Pradeep Chaturvedi, Chairman, Interdisciplinary Coordination Committee (ICC), IEI; Mr Aamir Ali Mir, Chairman, Jammu & Kashmir State Centre, IEI, Mr Ramnivas Rajpoot, Chairman, BOG – Safety & Quality Forum (SQF), IEI and Dr S Nagabhushana Rao, Chairman, Governing Council, ESCI graced the occasion as Guest of Honour. During the occasion, Mr Kalicharan S Khartade, IAS, Secretary, Telangana State Biodiversity Board delivered presentation on the topic 'Overview on Ecosystem Restoration and its Relationship with Human Beings'; Mr P Raghuvver, IFS, Principal Chief Conservator of Forest (Retd), Hyderabad on 'Ecosystem Restoration for Biodiversity and Sustainability in Cities' and Mr Kanna Suresh Kumar, Chief Engineer, Greater Hyderabad Municipal Corporation (GHMC) on the topic 'Ecological Restoration in Hyderabad-Lake Restoration'. Earlier, Dr G Rameshwar Rao, Chairman, Telangana State Centre welcomed the gathering and presided over the programme. Mr. T Anjaiah, Honorary Secretary, Telangana State Centre proposed the vote of thanks.

Uttar Pradesh

Uttar Pradesh State Centre observed World Environment Day on 6 June 2021 and organised webinar on the theme of the day. Mr A K Gupta, Additional Director, Regional Centre for Urban and Environmental Studies (RCUES), Lucknow was the Chief Guest and Keynote Speaker and Prof (Dr) Bharat Raj Singh, Immediate Past Chairman, UP State Centre, IEI was

the Distinguished Speaker on the occasion. Chief Guest, Mr Gupta in his address advocated to restore wetlands for water conservation, sustainable development of forest and focussed on terrestrial and aquatic ecosystem. Dr Singh spoke about exploitation of resources on earth, excessive use of conventional energy, etc. Mr V B Singh, Chairman, Civil Engineering Division Board and Council Member, IEI also spoke on the occasion. Earlier, Mr Rajesh Kumar Trivedi, Chairman, Uttar Pradesh State Centre, IEI welcomed the guests and spoke on the theme. At the end of the session, Mr. Prabhat Kiran Chaurasia, Honorary Secretary, Uttar Pradesh State Centre proposed the vote of thanks.

West Bengal

West Bengal State Centre, IEI observed World Environment Day on 5 June 2021 and organised a technical webinar on the theme. Chief Guest and speaker of the event, Prof (Dr) Hemda Garelick, Department of Natural Sciences, Middlesex University, UK delivered lecture on the theme. In her lecture, Prof Garelick deliberated on the problem of plastic uses, the problem of waste water treatment, the microbial infections with mammals, significant factors related to ground water contamination through arsenic along with other important environmental issues. The webinar was started with welcome address, delivered by Mr Sandip Kumar Deb, Chairman, West Bengal State Centre and Council Member, IEI. Prof Nitosh Kumar Brahma, Honorary Secretary, West Bengal State Centre proposed the vote of thanks.

LOCAL CENTRES

Agra

Agra Local Centre, IEI observed World Environment Day on 5 June 2021, in association with Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), Agra Sub-Chapter and Anand Engineering College, Agra and a webinar was organised on the topic 'Ecosystem Restoration : A Perspective'. Keynote Speaker of the event, Mr Dinkar Saxena, President, ISHRAE, Agra Sub-Chapter delivered lecture on the topic and explained the importance of ecosystem, how to recover the ecosystem and its benefit to the society. Earlier, Dr Ashok Yadav, Chairman, Agra Local Centre, IEI expressed his sincere gratitude to all the attendees and participants of the webinar and highlighted the importance of ecosystem restoration. At the end, Mr Devendra Singh Chaudhary, Honorary Secretary, Agra Local Centre proposed the vote of thanks.

Aligarh

Aligarh Local Centre, IEI observed World Environment Day through online mode on 6 June 2021 on the theme. On the occasion, Mr Faiz Ullah Khan, Project Officer, National Mission for Clean Ganga, New Delhi presented lecture on the topic 'Leading River Rejuvenation: A Case of Namami Gange; Dr Anwar Ali Khan, Senior Environmental Engineer, Delhi Pollution Control Committee (DPCC), Department of Environment, Delhi presented lecture on the topic 'Eco-Restoration Approach from India Perspective' and Dr Alok Suman, Consultant (Environment), World Bank, New Delhi presented talk on the topic 'Ganga Rejuvenation – A Case Study' and covered different aspects of environment, ecology and importance of restoration efforts that people must obtain. Earlier, Prof (Dr) Nadeem Khalil, Honorary Secretary, Aligarh Local Centre, IEI delivered the opening remarks. Mr. Suresh Chandra Gupta, Chairman, Aligarh Local Centre, IEI delivered the welcome address. The programme was ended with vote of thanks by Mr N K Garg, Past Honorary Secretary, Aligarh Local Centre.

Ahmednagar

Ahmednagar Local Centre, IEI in association with Centre for Advanced Agricultural Science and Technology for Climate, Smart Agriculture and Water Management, Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri observed World Environment Day on 5 June 2021. On the occasion a technical webinar was organised on the theme of the day. Guest of Honour

on the occasion, Ms Indira Prakash, Environmental Safeguard Specialist, ICAR-NAHEP (National Agricultural Higher Education Project), New Delhi explained how exploiting the natural sources for farming, industries and developmental activities are causing degradation of ecosystem. Dr Shyam Bajegal, Professor, Microbiology & Emeritus Biodiversity Fellow, Maharashtra State Biodiversity Board delivered Keynote address on the topic, 'Biodiversity – the Golden Eggs of Nature' and stated that the monoculture diminished the biodiversity. Deforestation, pollution, over population, usage of degradable material such plastic are causing irreparable losses to the ecosystem, Prof Bajegal added. Dr S R Gadakh, Director of Research & Director of Extension, MPKV Rahuri was present and addressed the audience. Dr Prashant G Patil, Vice Chancellor, MPKV Rahuri in his address, briefed the theme. Dr S D Gorantiwar, Member, Agricultural Engineering Division Board (AGDB), IEI was present on the occasion and introduced the dignitaries. Mr Sangam Sinha, Chairman, Ahmednagar Local Centre, IEI in his opening remarks focussed on more usage of hydrogen based vehicles and thereby minimises the dependency on fossil fuels. Mr Manohar Mukund Anekar, Honorary Secretary, Ahmednagar Local Centre was also present on the occasion.

Alwar

Alwar Local Centre, IEI observed World Environment Day on 5 June 2021 through hybrid mode. Chief Guest of the session, Mr. Sunil Kumar Gupta, Chief Engineer (Retd), PWD, Government of Rajasthan highlighted the need of plantation and taking care of newly planted trees till they grow. Keynote speaker of the event, Dr M P S Chandrawat, Environmentalist and Social Activist spoke on the theme of the day. Earlier, Mr Subhash Chandra Joshi, Chairman, Alwar Local Centre, IEI extended warm welcome to the distinguished guests and dignitaries. Mr Raj Deep Sharma, Honorary Secretary, Alwar Local Centre highlighted about the theme.

Bareilly

Bareilly Local Centre, IEI observed World Environment Day on 5 June 2021 and organized technical webinar on the theme. Mr Sudhir Kumar Gupta, Chairman, Bareilly Local Centre, IEI delivered the welcome speech and mentioned that healthier ecosystems with richer biodiversity yield greater benefits, including more fertile soil, higher yield of timber and fish, and larger storage of greenhouse gases. Mr Shashi Vindkar, Assistant Environmental Engineer, UP Pollution Control Board, deliberated lecture and mentioned that restoring ecosystem results protection and improvement of the livelihoods of people who depend on them. Mr Anuj Verma, Faculty, Rajshree Institute of Management & Technology, Bareilly also deliberated lecture on the occasion. Mr. Mahendrakumar Agarwal, Honorary Secretary, Bareilly Local Centre proposed the vote of thanks.

Belapur

Belapur Local Centre observed World Environment Day on 5 June 2021 through online mode. Mr Sarvesh Abhyankar from Green Work Trust, Mumbai deliberated the Keynote address, explained about the function of ecosystem, cause of ecosystem degradation and ecosystem protection. Dr Mohan B Dagaonkar, Council Member, IEI threw light on the theme. Earlier, Dr Samir Chandrakant Nimkar, Honorary Secretary, Belapur Local Centre, IEI presented welcome address.

Bhimavaram

Bhimavaram Local Centre of the Institution observed World Environment Day on 5 June 2021, and a webinar was organised on the theme. Chief Guest of the event, Mr N Siva Kishan, Research Scientist, Centre for Research and Development, Sagi Ramakrishnam Raju Engineering College, (SRKREC) Bhimavaram, deliberated lecture on the theme and stated that human have been exploiting and destroying the planet's ecosystem and half of the wetland have already been destroyed. Prof (Dr) K Brahma Raju, Council Member, IEI was present on the occasion. Earlier, Mr Vegesna Kasi

Viswanadha Raju, Chairman, Bhimavaram Local Centre explained about the importance of the day and made a pledge everyone to plant at least one tree to improve ecosystem balance. Mr Karanam Suresh Babu, Honorary Secretary, Bhimavaram Local Centre also addressed the audience. Mr I Ajit Kumar proposed vote of thanks on behalf of Bhimavaram Local Centre.

Bokaro Steel City

Bokaro Steel City Local Centre, IEI observed World Environment Day on the theme of the day through organising a webinar on 5 June 2021. Chief Guest and Keynote speaker of the function, Mr N P Srivastava, General Manager (Environment), SAIL, Bokaro Steel Plant inaugurated the webinar. In his Keynote address, he elaborated various aspects of restoration of ecosystem that has been degraded and destroyed during the last years as well as conserving the ecosystem with richer biodiversity. Earlier, Mr Yogendra Nath Singh, Chairman, Bokaro Steel City Local Centre, IEI welcomed the dignitaries and explained the importance of celebration of the day. Two technical papers were presented on the theme by Mr Nitesh Ranjan, Assistant General Manager (ECD), SAIL, Bokaro Steel Plant and Mr Akhilesh Bumb, Manager, BPSCL. Vote of thanks was proposed by Mr N P Shrivastava, Joint Honorary Secretary of Bokaro Steel City Local Centre.

Coimbatore

Coimbatore Local Centre, IEI observed World Environment Day on 7 June 2021 and arranged a technical webinar in association with the Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore. Chief Guest, Dr Sultan Ahmed Ismail, Advisor and Former Director, Ecoscience Research Foundation, Chennai delivered lecture on the topic, 'Sustainable Living – The Way Forward – For Earth's Sake'. Earlier, Mr P R Natarajan, Chairman, Coimbatore Local Centre, IEI welcomed the Chief Guest and other participants of webinar. Dr H Ram Mohan, Honorary Secretary, Coimbatore Local Centre proposed the vote of thanks.

Faridabad

Faridabad Local Centre, IEI observed World Environment Day on 5 June 2021 and organized a webinar on the theme. Three Panelists graced the event with their informative deliberations, namely, Mr Ashok Bansal, Vice President, Galaxy Magnum Limited, Gurgaon; Dr Sarita Sachdeva, Professor, Executive Director & Dean Research, Manav Rachna International Institute of Research and Studies (MRIIRS), Faridabad and Mr Ankur Mittal, Group Manager & Program Leader, Energy Management, National Council for Cement and Building, Faridabad. Mr Pradeep Mallah, CEO, Technopan Industries, Faridabad moderated the session. The speakers strongly advocated for protecting the nature and preventing the damages of the nature to save the environment. The speakers opined that healthy ecosystems can enhance peoples livelihoods, counteract climate change and stop the collapse of biodiversity. Earlier, Mr Sandeep Handa, Chairman, Faridabad Local Centre, IEI delivered the opening address and talked on the ecosystem. Mr. Kuldip Raj Gupta, Honorary Secretary, Faridabad Local Centre proposed the vote of thanks.

Ghaziabad

Ghaziabad Local Centre, IEI jointly with Delhi State Centre, IEI observed World Environment Day on 5 June 2021 in hybrid mode. Mr Rakesh Kumar Agarwal, General Manager, Gomti Pollution Control Unit, U P Jal Nigam, Lucknow was the Chief Guest and presented lecture on the topic 'Better Water Quality and Reduced Costs for Treatment of Water by Suitable Selection of Coagulant – A Case Study'. Dr Mukta Girdhar, Director, Disaster Resilient and Research Foundation, Delhi, the Guest of Honour of the programme delivered her presentation on the topic 'Effect of Environment because of Disasters'. The Keynote speaker during the event, Mr S S Karmyal, Executive Engineer (Retd), Delhi Jal Board delivered presentation on the topic 'Role of Engineers for Ecosystem Restoration'. Mr Vijendra Vikramaditya, Ex-Chief Engineer, U P Jal Nigam; Mr Prem Assudani, Former

Managing Director, U P Jal Nigam, Mr Pradeep Chaturvedi, Chairman, Interdisciplinary Coordination Committee & Council Member, IEI; Mr V B Singh, Chairman, Civil Engineering Division Board & Council Member, IEI; and Mr. V K Srivastava from Gorakhpur Local Centre expressed their views on the importance of restoration of environment. The function was started with opening remarks by Mr. Chitra Kumar Tyagi, Honorary Secretary, Ghaziabad Local Centre and he introduced the theme of the day. Mr Jai Pal Singh, Chairman, Ghaziabad Local Centre and Council Member, IEI welcomed the guests and dignitaries and highlighted the importance of the day.

Gorakhpur

Gorakhpur Local Centre, IEI observed World Environment Day on 5 June, 2021 and a webinar was organised on the theme. Prof J P Pandey, Vice Chancellor, Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur, and Prof Govind Pandey, Dean of Infrastructure & Planning, MMMUT, Gorakhpur, delivered lecture on the theme on this occasion. Mr V B Singh, Council Member, IEI also graced the event with his virtual presence. Earlier, Mr Dharendra Chaturvedi, Chairman, Gorakhpur Local Centre, IEI delivered the welcome address. Mr Ved Prakash Gupta, Honorary Secretary, Gorakhpur Local Centre proposed the vote of thanks.

Jammu

Jammu Local Centre, IEI observed World Environment Day on 5 June 2021 through online mode and technical webinar was organised on the theme. During the technical sessions, Papers were presented by Mr P K Nanda, Mr B L Rawal, Mr Ranjeev Sawhney, Mr Mir Muneer Hussain, and Mr Akash Dugotra. A case study on Ecological Imbalances in rural areas was presented by Mr Vijay Kumar Sharma. At the outset, Dr (Prof) Sanjay Khar, Chairman, Jammu Local Centre apprised the audience about the theme and presented the welcome address. Mr Chanchal Paul Sharma, Honorary Secretary, Jammu Local Centre proposed the vote of thanks.

Jamshedpur

Jamshedpur Local Centre, IEI observed World Environment Day on 5 June 2021 and a webinar was organised on the theme. Chief Guest of the event, Dr Chintalacheruvu Madhusudana Rao, Associate Professor, Department of Civil Engineering, NIT Jamshedpur delivered lecture on the theme and explained the importance of the day and stated that any threat to our environment is a threat to our health, our society, our ecosystems, our economy, our security, our well-being and our survival. The programme was started with welcome address by Mr Anurag Saxena, Chairman, Jamshedpur Local Centre, IEI. He spoke about the importance of the day and introduced the theme of the day to the audience. At the end, Mr Pravesh Kumar Dhawan, Honorary Secretary, Jamshedpur Local Centre proposed the vote of thanks.

Kalaburagi

Kalaburagi Local Centre, IEI observed World Environment Day on 7 June 2021 at Kalaburagi. Mr Sanjeev L Gupta, Industrialist and Owner, Fortune Group was the Chief Guest of the event. Dr Shivaraj Patil Harwal, Managing Director, Anand Hospital, Kalaburagi and Prof Chandrashekar Bogale were the Guest of Honours. Mr Babu Sidramappa More, Chairman, Kalaburagi Local Centre chaired the session and delivered welcome speech. Dr Baburao Neelkantappa Sherikar, Honorary Secretary, Kalaburagi Local Centre proposed the vote of thanks.

Kanyakumari

World Environment Day was observed by Kanyakumari Local Centre of the Institution on 5 June 2021 through online mode. Keynote address was delivered by Prof (Dr) J Prakash Arul Jose, Pavai Engineering College, Namakkal on the theme. Earlier, welcome address was delivered by Mr V Sivathanu Pillai, Chairman, Kanyakumari Local Centre. At the end of the session, vote of thanks was proposed by Mr V Muthum Perumal, Honorary Secretary, Kanyakumari Local Centre.

Madurai

Madurai Local Centre, IEI observed World Environment Day on 5 June 2021 through online mode. Mr J Justin Mohan, IFS, Secretary, National Biodiversity Authority, Chennai graced the occasion as Chief Guest and delivered lecture on the theme. During his presentation, Mr Justin Mohan while explaining the background of observing World Environment Day, explained the development of Indian legal framework to protect the environment, greenhouse gas emissions and subsequent effects, its consequences, rising population, destruction of ecosystems and so on. Earlier Mr S Rajagopal, Chairman, Madurai Local Centre and Council Member, IEI delivered the welcome address. At the end, Mr R Narayanasamy, Honorary Secretary, Madurai Local Centre proposed the vote of thanks.

Meerut

Meerut Local Centre, IEI observed World Environment Day on 6 June 2021 by organizing a technical webinar on the theme. Dr Sandeep Sirohi, Associate Professor, Department of Biotechnology, Meerut Institute of Engineering and Technology (MIET), Meerut was the Keynote speaker of the event. In his address, Dr Sirohi explained that ecosystem restoration is the process of ecosystem recovery, which has been degraded, damaged or destroyed. He also mentioned that the causes of environmental degradation are overpopulation, pollution, deforestation, global warming, agricultural and fishing practices, overconsumption of resources etc. Earlier, Mr Rajneesh Kumar, Chairman, Meerut Local Centre, IEI welcomed the guests and dignitaries. At the end of the session, vote of thanks was proposed by Mr Mohan Lal Jain, Honorary Secretary, Meerut Local Centre.

Munirabad

Munirabad Local Centre, IEI observed World Environment Day on 5 June 2021 at Munirabad and organised a technical talk on the theme. Chief Guest of the programme, Mr K Madhusudhan, Vice President (CC & Mines), MSPL Limited, Baldota explained the theme of the day and analysed, how we are responsible to de-rail the ecosystem. Speaker of the event, Dr B V Prasad, Retired Senior Scientist, ISRO, Bangalore delivered lecture on the topic 'Oxygen - Life Saver' and explained the methods of Oxygen production – by condensing the atmospheric air and by electrolysis method. Mr E Prahalada, Chairman, Munirabad Local Centre addressed the audience. Mr Rajashekar Patil, Past Honorary Secretary, Munirabad Local Centre extended warm welcome to all dignitaries. Mr W Lalitha Prasad, Honorary Secretary, Munirabad Local Centre, IEI presented the Keynote address. Mr Kattananjappa, Executive Committee Member, Munirabad Local Centre proposed the vote of thanks.

Neyveli

Neyveli Local Centre, IEI observed World Environment Day on 5 June, 2021 and a webinar was organised on the theme. Mr M Ambalavanan, General Manager, Centre for Applied Research and Development (CARD), Neyveli Lignite Corporation India Limited (NILCL) graced the function as Chief Guest and addressed the audience. Dr K Krishnamurthi, Professor AcSIR, Ghaziabad and Chief Scientist & Head, Health and Toxicity Cell, CSIR-NEERI (National Environmental Engineering Research Institute), Nagpur was the eminent speaker of the programme and delivered lecture on the importance of health, environment and climate change. Mr A Sekar, Honorary Secretary, Neyveli Local Centre, IEI summarized the programme deliberations and proposed the vote of thanks.

North Bengal

North Bengal Local Centre, IEI observed World Environment Day on 5 June 2021 via online platform. Theme Speaker of the day was Mr Tapan Kumar Roy, Lecturer in Civil Engineering Department, Hili Government Polytechnic, Dakshin Dinajpur explained about the objective of ecosystems, terrestrial and aquatic ecosystems, ecosystem structure including its components, namely Biotic and Abiotic, function, development, regulation of ecosystem

etc. Mr Roy also narrated about forest ecosystems, grassland ecosystems, desert ecosystems, aquatic ecosystems etc. Earlier, welcome address was presented by Dr Santanu Das, Honorary Secretary, North Bengal Local Centre, IEI. At the end of the session, he also proposed the vote of thanks.

Roorkee

Roorkee Local Centre, IEI observed World Environment Day on 5 June 2021 in hybrid mode and a Round Table Meeting was conducted on the occasion. Prof (Dr) Achal Kumar Mittal, Chairman, Roorkee Local Centre, IEI delivered the welcome address and emphasized on global mission to revive billions of hectares, from forests to farmlands, from the top of mountains to the depth of the sea. Prof Ashish Pandey, Water Resource Development and Management, IIT Roorkee, Mr Vineet Saini, CBRI, Roorkee, Mr N K Yadav Uttarakhand Irrigation Department and Mr D C Gupta, from Uttarakhand State Centre also shared their views. At the end, Dr Mohd Ashraf Iqbal, Honorary Secretary, Roorkee Local Centre proposed the vote of thanks.

Saurashtra

Saurashtra Local Centre, IEI observed World Environment Day on 5 June 2021 by organizing technical webinar on the theme of the day in association with the Faculty of Engineering, Marwadi University, Rajkot. Speaker, Dr Pankaj Pathak, Assistant Professor, SRM University, Andhra Pradesh deliberated lecture on the topic 'Urban Mining: A Sustainable Approach for Resources Recovery' and explained functional aspects of Urban Mining. Earlier, Dr Ashit Sureshchandra Pandya, Chairman, Saurashtra Local Centre, IEI delivered the welcome address. Mr. Ranchhod Kanjibhai Babaria, Honorary Secretary, Saurashtra Local Centre also addressed the audience.

South Gujarat

South Gujarat Local Centre, IEI observed World Environment Day on 9 June 2021 through virtual mode and organised an online Quiz Competition. Mr Kirti Hiralal Shethna, Chairman, South Gujarat Local Centre and Council Member, IEI inaugurated the programme. Mr Dipak Gomanbhai Patel, Honorary Secretary, South Gujarat Local Centre proposed the vote of thanks.

Sunabeda

Sunabeda Local Centre, IEI observed World Environment Day on 5 June 2021 through online mode on the theme of the day. Chief Speaker of the event, Mr Saroj Kumar Pradhan, IES, VSM, Director, Border Roads Organization (BRO) deliberated lecture on the theme. Mr Pradhan in his address, shared his experience with BRO and mentioned, how ecosystem maintenance is taken care off during execution of the projects starting from conceptualization to execution. Earlier, Mr Arabinda Swamy, Honorary Secretary, Sunabeda Local Centre, IEI inaugurated the webinar.

Trichur

Trichur Local Centre, IEI observed World Environment Day on 5 June 2021 and organised webinar on the occasion. Prof (Dr) G Madhu, HoD, Chemical Engineering Department, Cochin University of Science & Technology deliberated lecture on the theme and explained the importance of preserving the eco System for the survival of mankind. Earlier, welcome address was presented by Mr V G Sankaranarayanan, Chairman, Trichur Local Centre and at the end, Mr M N Sasidharan, Achari, Honorary Secretary, Trichur Local Centre proposed the vote of thanks.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI observed World Environment Day through virtual mode on 1 June 2021. Dr R Jayanthi, Professor & Head, Department of Civil Engineering, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamil Nadu was the Chief Guest and delivered the theme address. As part of her presentation, she narrated different categories of

ecosystem, Farm Lands, Forests, Fresh Water Ecosystems, their main components, current status and major threats, as well as the benefits of restoring them. Earlier, Prof (Dr) Natarajan Kumaresan, Chairman, Tiruchirappalli Local Centre and Council Member, IEI welcomed the gathering. Dr S Dharmalingam, Past Chairman, of Tiruchirappalli Local Centre, briefed about the significance of observing the day. Mr S Samidas, Past Chairman, Tiruchirappalli Local Centre introduced the speaker. Mr R Selvaraj, Immediate Past Chairman, Tiruchirappalli Local Centre coordinated the event.

Tirunelveli

Tirunelveli Local Centre, IEI observed World Environment Day on 7 June 2021 through online platform on the theme. The Resource person of the event, Dr J Glory Selvamani, HoD, Civil Engineering Department, Einstein College of Engineering, Tirunelveli delivered lecture on the theme. Prof (Dr) S Baburengarajan, Chairman and Prof (Dr) R Velayutham, Honorary Secretary, Tirunelveli Local Centre, IEI inaugurated the session.

Upper Assam

Upper Assam Local Centre, IEI observed World Environment Day on 5 June 2021 through online platform. Mr B P Bakshi, Chairman, Assam Productivity Council, Tinsukia delivered speech during the event as Chief Guest. Mr H K Changmai, CGM, NEEPCO Limited, Bokuloni; Mr Dibakar Bhattacharjee, Former DGM, IOCL, Digboi and Mr Amitava Dasgupta, Past Chairman, Upper Assam Local Centre deliberated speech as Guest of Honours on this auspicious day. During the technical sessions, Ms Mayuri Deka, Safety Officer, Assam Petrochemicals Limited presented paper on the topic 'Forest Restoration'; Mr Rakesh Kalita, Deputy Manager (Excavation), NEC, Coal India Limited on the topic 'New Technologies for Sustainable Environment – Electric Commercial Transport'; Mr Uddipan Kashyap, HSE Officer, DNPL on the topic 'Implementation of IOT in solid Waste Management in Duliayan Town, Assam'; and Mr Rakesh Rajkhowa, Senior Engineer (Mechanical), DNPL on the topic 'International Principles and Standards for the Practice of Ecological Restoration'. The programme was concluded with vote of thanks proposed by Mr Debajeet Sarma, Honorary Secretary, Upper Assam Local Centre.

Varanasi

Webinar was organised to observe World Environment Day on 6 June 2021 by Varanasi Local Centre of the Institution. Invited speakers, Prof (Dr) Jitendra Pandey, Department of Botany, Institute of Science, Banaras Hindu University and Prof Arif Jamal, Department of Mining Engineering, IIT BHU deliberated lecture on the theme. Speaking on the occasion, Prof Pandey highlighted the importance of river ecosystems to human society keeping River Ganga in the focus. Dr Aarif Jamal, deliberated lecture on the topic 'Restoration of Ecosystem in Coal Mining Industry', talked about mine ecosystem and explained various method employed for its restoration. Earlier, Prof (Dr) Siddh Nath Upadhyay, Chairman, Varanasi Local Centre, IEI welcomed the learned speakers and the dignitaries. Mr V B Singh, Council Member, IEI was present on the occasion. At the end, Mr Santosh Kumar, Honorary Secretary, Varanasi Local Centre, IEI proposed the vote of thanks.

Visakhapatnam

Visakhapatnam Local Centre, IEI observed World Environment Day on 5 June 2021 through online platform. Guest Speaker of the event, Dr S Bala Prasad, Professor of Environmental Engineering, Department of Civil Engineering, Andhra University, Visakhapatnam and Director, Centre for Environment Sustainable Development and Climate Change, Andhra University, Visakhapatnam deliberated lecture on the theme. Earlier, Mr K Venkata Rama Mohana Rao, Honorary Secretary, Visakhapatnam Local Centre, IEI welcomed the gathering. Dr B Venkataramana, Chairman, Visakhapatnam Local Centre and Council Member, IEI spoke on the theme.

IEI Celebrates

World Telecommunication and Information Society Day

2021

Theme: Accelerating Digital Transformation in Challenging Times

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on May 17, 2021 through Webinars. Brief Reports as received from various Centres are given hereunder.

STATE CENTRES

Chhattisgarh

Chhattisgarh State Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2021 through online platform. On the occasion, Prof (Dr) T S Kamal, Chairman, Electronics and Telecommunication Division Board (ETDB) and Council Member, IEI spoke on Digital Transformation Strategy. Mr B Brahma Reddy, Member (ETDB) and Council Member, IEI delivered presentation on the topic 'Digital Banking Transformation in COVID Era: To Future & Beyond' and highlighted the pertinent domains of digital transformation. Earlier, Mr Anil Kumar Sharma, Chairman, Chhattisgarh State Centre and Council Member, IEI presented the welcome address. Prof (Dr) Sanjay Kumar, Honorary Secretary, Chhattisgarh State Centre, IEI proposed the vote of thanks.

Haryana

Haryana State Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2021 through online platform. Prof Ashutosh Kumar Singh, Professor & Head, Department of Computer Application, NIT Kurukshetra delivered keynote address on the theme and mentioned that digital transformation has emerged as one of the main lines of defence against COVID-19. Earlier, Dr (Ms) Vrinda Krishnanlal Gupta, Chairman, Haryana State Centre welcomed all the participants. Mr K C Sethi, Former Vice President, IEI stated that telecommunication and information society is playing a vital role in the nation development and proposed the vote of thanks.

Tamil Nadu

Tamil Nadu State Centre, IEI observed World Telecommunication & Information Society Day on 17 May 2021 through online platform on the theme. On the occasion, Chief Guest, Mr A Robert J Ravi, I T S, Deputy Director General, Department of Telecommunications, Ministry of Communications, Government of India delivered the thematic address. At the outset, Mr R Ramdoss, Chairman, Tamil Nadu State Centre and Council Member, IEI welcomed the gathering. Mr S Kannan, Honorary Secretary, Tamilnadu State Centre proposed the vote of thanks.

West Bengal

West Bengal State Centre, IEI observed World Telecommunication & Information Society Day through organising a webinar on 17 May 2021. Theme speaker, Mr Chanchal Chakraborty, Vice President, Technical, Reliance Jio, explained how business transformation through the application of digital technologies – be it social media, mobile communication, artificial intelligence, big data, augmented reality/virtual reality, digital twin or cloud computing – is an essential weapon in the arsenal of any company, intend to innovate and grow in a competitive world with greater operational agility and efficiency. He also stated that as the world continues to grapple with the devastating impact of the COVID-19 induced pandemic, the need to pursue a digital transformation agenda has become more acute than ever

and has accelerated the need for companies to transform and respond with digitalisation as a key enabler. The programme was started with welcome address by Mr Sandip Kumar Deb, Chairman, West Bengal State Centre and Council Member, IEI. Mr Subhash Chandra Rudra, Council Member, IEI in his inaugural address, talked about the journey of telecommunication from its beginning to current times. Mr Sugata Bandyopadhyay, Chairman, Electronics and Telecommunication Engineering Divisional Sub-committee of West Bengal State Centre also spoke on the theme.

LOCAL CENTRES

Coimbatore

Coimbatore Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2021 and organised a webinar in association with the Department of Electronics and Communication Engineering, Kumaraguru College of Technology, Coimbatore. Dr Pei Xiaois, Professor, Wireless Communications, Information and Communication Systems, University of Surrey, UK and Dr Juquan Justin Mao, Research Fellow, University of Surrey, UK delivered lecture on the topic '5G Radio Access Network Slicing'. Earlier, Mr P R Natarajan, Chairman, Coimbatore Local Centre and Council Member, IEI welcomed the Chief Guest and all participants, attending the webinar. The event was concluded with vote of thanks proposed by Dr H Ram Mohan, Honorary Secretary, Coimbatore Local Centre, IEI.

Gwalior

Gwalior Local Centre observed World Telecommunication and Information Society Day on 17 May 2021 through online platform. Dr Chhavi S Singhal, Dr R S Kushwah, Dr R K Khetan and, Honorary Secretary, Gwalior Local Centre, Mr P Y Khanwilkar deliberated lectures on the occasion. In the inaugural session, Mr Prabhat Kumar Bhargava, Chairman, Gwalior Local Centre, IEI presented the welcome address and stressed on the awareness of the possibilities that applications of internet can bridge the gap in society, economies and digital divide.

Kadapa

Kadapa Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2021 and organized a technical webinar on the occasion. Speaker, Dr B Abdul Raheem, Dean, Professional Bodies, Annamacharya Institute of Technology & Sciences, (AITS), Rajampet delivered lecture on the theme. Mr C Sreeramachandra Murthy, Chairman, Kadapa Local Centre, IEI delivered the welcome address and Prof (Dr) V Adinarayana Reddy, Honorary Secretary, Kadapa Local Centre proposed the vote of thanks.

Kalpakkam

Kalpakkam Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2021 in association with Aarupadai

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News-in-Brief

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

STATE CENTRE

Karnataka

In association with Department of Civil Engineering, Dayananda Sagar College of Engineering, National Disaster Management Authority and Indian Water Works Association organized a National Seminar on 19 February 2021 at Bangalore on the theme 'Vulnerability Assessment & Preparedness on Dissemination Tactics for Disaster Risk Reduction with an emphasis on COVID 19'. Prof (Dr) T G Sitharam, Director, IIT Guwahati graced the occasion with his kind virtual presence and delivered the Keynote address. Dr Shrinivasa Reddy, Former Director, Karnataka State Natural Disaster Centre, Bengaluru delivered the valedictory address.

LOCAL CENTRES

Alwar

Observed World Engineering Day for Sustainable Development on 4 March 2021 at Alwar on the theme of the day 'Engineering for A Healthy Planet: Celebrating the UNESCO Engineering Report'. Chief Guest of the event, Mr P K Jain, Chief Engineer, Urban Improvement Trust (UTT), Alwar delivered lecture and expressed his views on the theme. Mr G P Agarwal, Ashok Leyland explained about safety techniques adopted during industrial functioning.

Coimbatore

Organised technical webinar on 26 May 2021, in association with the Department of Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore. Chief Guest of the event, Mr G Sivakumar, Manager, Diesel Powertrains, FEV India Private Limited, Chennai delivered Lecture on 'Latest Emerging Technologies in Automotive Applications: Advancement in IC Engines, Alternate Fuels, EV Technology'. Dr M Saravana Mohan, Professor and Head, Department of Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore also addressed the audience.

Hosur

Organised webinar on the topic 'AMANET and its Applications' on 22 July 2020. Prof (Dr) Ms T Menakadevi, Chairman, Hosur Local Centre deliberated Lecture on the topic.

Kalpakkam

Observed World Water Day on 26 March 2021 at Kalpakkam. Mr G K Pandey, Officer-in-Charge, Hydraulic Facilities, Indira Gandhi Centre for Atomic Research, Kalpakkam delivered presentation on the topic 'Hydraulic Facilities and Experiments towards Design and Validation of Fast Breeder Reactor Components and Systems' on virtual mode and demonstrated different online experimental setups to study water flow characteristics in the scaled down reactor model.

Kanyakumari

Organised webinar on the topic 'Alternative Construction Materials' on 9 May 2021. Keynote speaker, Dr J Leon Raj, Scientist, CSIR-NEIST, North East Institute of Science and Technology, Jorhat, Assam deliberated lecture on the topic and explained civil construction with Alternative Bricks, Glass Fibre reinforced concrete building, 3D Sandwich Panel Building, etc and explained functional aspects of precast construction system.

Organised webinar on the topic 'Recent Advances in Solar Energy'

on 31 May 2021. Keynote Address was delivered by Dr K Sudhakar, Senior Lecturer, Research Fellow, Faculty of Mechanical and Automotive Engineering Technology, University Malaysia, Pahang. During deliberation, the speaker elaborated the emerging energy technologies, clean technology opportunities and revolution of energy sources.

Organised webinar on the topic 'Sustainable Manufacturing' on 20 June 2021. The Keynote speaker on the occasion, Dr A S S Balan, Assistant Professor, Department of Mechanical Engineering, NITK Surathkal, in his address, briefed the audience regarding the Fourth Industrial Revolution and Cyber Physical System and also explained the salient features of Cryogenic Machining.

Ranipet

Observed World Water Day on 29 March 2021 and organised a technical lecture on the topic 'Driving Water Sustainability in Industries and Cities with Reliable and Robust Solutions' through online platform. Mr N Thentral, Process Engineering Leader, SUEZ WTS South Asia, Bangalore delivered Lecture on the topic.

Saurashtra

Organised technical webinar on 14 June 2021 on the topic 'Career as a Welding Inspector for Mechanical Engineer'. Speaker and Resource person of the event was Prof (Dr) Ghanshyam D Acharya, Principal, Atmiya Institute of Technology & Science, Atmiya University, Rajkot. In his lecture, Prof Acharya tried to explore the job opportunities as Welding Inspector in different core sectors, which include heavy engineering, piping engineering, shipbuilding, offshore structural engineering, aircraft fabrication etc.

Tiruchirappalli

Organized Lecture Meeting on 16 March 2021 through virtual mode, jointly with the Computer Society of India, Tiruchirappalli Chapter, Indian Institute of Welding, Tiruchirappalli Branch, Indian Institute of Metals, Tiruchirappalli Chapter, and Indian Welding Society, Southern Zone. Dr Gobi R, Assistant Professor, Department of Computer Science, Christ University, Bangalore delivered Lecture on the topic 'Block Chain Technology and Applications'.

Organized Technical Lecture through online platform on 27 April, 2021. Speaker, Dr Darshana O, Assistant Professor, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli deliberated lecture on the topic 'Incorporating Users' Perception into Transportation Projects : Issues and Challenges'.

Organized Technical Lecture through virtual mode on 28 April, 2021, jointly with the Department of Mechanical Engineering, SRM TRP Engineering College, Tiruchirappalli. Speaker, Dr V Lakshamanan, Assistant Professor, Department of Mechanical Engineering, SRM TRP Engineering College, Tiruchirappalli delivered lecture on the topic 'Recent Trends in the Welding Process'.

Organized Lecture Meeting on 8 June 2021 through virtual mode, jointly with Computer Society of India, Tiruchirappalli Chapter, Indian Institute of Welding, Tiruchirappalli Branch, Indian Institute of Metals, Tiruchirappalli Chapter and Indian Welding Society, Southern Zone. Dr M Kavitha, Professor, Department of Electronics and Communication Engineering, K Ramakrishnan College of Technology, Samayapuram delivered Lecture on the topic 'A Framework for Detection of Disease in Medical Images using Deep Learning Techniques'. During deliberation, the speaker briefed the role of Artificial Intelligence in future in the field of automatic car parking, medical diagnosis, military applications and industries, healthcare etc.

Organized Lecture Meeting on 15 June, 2021 through virtual mode. jointly with Computer Society of India, Tiruchirappalli Chapter, Indian Institute of Welding, Tiruchirappalli Branch, Indian Institute of Metals, Tiruchirappalli Chapter and Indian Welding Society, Southern Zone. Dr J S Gnanasekaran, Principal, R V S College of Engineering and Technology, Dindigul delivered Lecture on the topic 'Traditional versus Modern Engineering Science'. In his

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World Telecommunication and Information Society Day 2021

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Veedu Institute of Technology (AVIT), Chennai in virtual mode. Mr Joseph Winston, Head, Remote Handling & Irradiation Experiments Division, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam delivered presentation on the theme of the day and covered different digital communication methodologies, right from its inception upto current development. Mr M Shanmuga Sundaram, Honorary Secretary, Kalpakkam Local Centre welcomed the participants and introduced the speaker.

Kanchepuram

Kanchepuram Local Centre, IEI observed World Telecommunication & Information Society Day on 17 May 2021 through online mode. Guest Speaker, Dr R Narmadha, Associate Professor, Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai delivered lecture on the theme. Prof (Dr) K Palani Kumar, Chairman, Kanchepuram Local Centre and Council Member, IEI delivered the welcome address. Prof (Dr) D Elango, Honorary Secretary, Kanchepuram Local Centre, IEI proposed the vote of thanks.

Kanyakumari

World Telecommunication & Information Society Day was observed by Kanyakumari Local Centre, IEI on 17 May 2021 through online platform. Chief Guest of the event, Dr A Albert Raj, Dean, Sri Krishna College of Engineering & Technology, Coimbatore delivered lecture on the theme of the day and explained, how digital transformation is playing a key role in healthcare sector. Earlier, by Mr V Sivathanu Pillai, Chairman, Kanyakumari Local Centre, IEI delivered the welcome address. Mr V Muthum Perumal, Honorary Secretary, Kanyakumari Local Centre proposed the vote of thanks.

Madurai

Madurai Local Centre, IEI observed World Telecommunication & Information Society Day on 17 May 2021 through online platform. Chief Guest of the event, Mr Arun Mohan, Application Engineer, Harland Clarke, Texas, USA delivered lecture on the theme and explained about the importance and challenges in accelerating Digital Transformation. He also discussed about the application of Digital Transformation in finance, healthcare, education and retail industry. Earlier, Mr S Rajagopal, Chairman, Chemical Engineering Division Board and Council Member, IEI delivered the welcome address. Mr R Narayanasamy, Honorary Secretary, Madurai Local Centre introduced the Chief Guest and at the end of the session, proposed the vote of thanks.

Muzaffarpur

Muzaffarpur Local Centre of the Institution observed World Telecommunication and Information Society Day on 17 May 2021 and organized webinar on the theme. Speaker of the event, Mr Smrity Ratan, Department of Electronics and Communication Engineering, Government Polytechnic, Motihari, delivered lecture on the theme. The event was started with welcome address presented by Dr Anjani Kumar Mishra, Chairman, Muzaffarpur Local Centre, IEI. Mr Narendra Kumar Jha, Honorary Secretary, Muzaffarpur Local Centre proposed the vote of thanks.

Sunabeda

Sunabeda Local Centre, IEI observed World Telecommunication and Information Society Day on 17 May 2021 and organised a webinar on the theme. Chief Speaker of the session, Prof (Dr) Arabinda Mishra, Imaging Research Scientist, Vanderbilt University, Institute of Imaging Science, Nashville, Tennessee, USA delivered lecture on the topic 'Diagnostic use of Magnetic Resonance in Imaging to prevent COVID' and elaborated various aspects of imaging technique employed to detect the damage caused by de-oxygenation effect on human body by COVID and diagnostic application. Earlier, Mr Arabinda Swamy, Honorary Secretary, Sunabeda Local Centre, IEI inaugurated the session.

Tirunelveli

Tirunelveli Local Centre, IEI observed World Telecommunication and Information Society Day on 29 May 2021 through online platform and organised webinar on the theme. Mr S Vijay Krishnan, Assistant General Manager (EB), BSNL, Tirunelveli delivered lecture on the theme. Prof (Dr) S Baburengarajan, Chairman, Tirunelveli Local Centre, IEI delivered the welcome address. Prof (Dr) R Velayutham, Honorary Secretary, Tirunelveli Local Centre proposed the vote of thanks.

Trichur

Trichur Local Centre of the Institution observed World Telecommunication & Information Society Day on 17 May 2021 and organised webinar on the occasion. On the occasion, Mr V Surendran, Principal General Manager, BSNL, Thrissur delivered lecture on the theme of the day. Earlier, welcome address was delivered by Mr V G Sankaranarayanan, Chairman, Trichur Local Centre, IEI. Mr M N Sashidharan, Achari, Honorary Secretary, Trichur Local Centre proposed the vote of thanks.

News-in-Brief

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deliberation, Dr Gnanasekaran explained traditional engineering sciences in academics, modern engineering sciences in academic and career growth, industry specific programmes and career growth etc.

Organized Lecture Meeting on 22 June 2021 through virtual mode, jointly with Computer Society of India, Tiruchirappalli Chapter; Indian Institute of Welding, Tiruchirappalli Branch; Indian Institute of Metals, Tiruchirappalli Chapter and Indian Welding Society, Southern Zone. Mr V Swaminathan, Founder & COO, Surge Engineering Services, Bangalore delivered lecture on the topic 'Opportunity for MSME in Aerospace & Defence' and mentioned about the transformation in Indian Aerospace and Defence market, role

of MSMEs in Aerospace sector, growing participation of private sectors in Aerospace and Defence, Government Policy for development of Indian Defence industries and so on.

Organized Lecture Meeting on 29 June 2021 through virtual mode. Dr V Hamsadhwani, Associate Professor, Department of Electrical & Electronics Engineering, Periyar Maniammai Institute of Science and Technology, Thanjavur delivered Lecture on the topic 'Role of Sensors in Automation'. In his presentation, Mr V Hamsadhwani explained the role of sensors in automation and control system, application of smart sensors combined with IoT in manufacturing and communications, functioning of smart factories etc.

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

NOTICE INVITING SELF-NOMINATIONS FOR ELECTION FROM DIVISIONS TO IEI COUNCIL UNDER BYE-LAW 4(a)(iv)

08 July 2021

TO

ALL CORPORATE MEMBERS OF THE INSTITUTION OF ENGINEERS (INDIA)

The members of the Council elected from the Divisions shall retire at the 102nd Annual General Meeting of The Institution scheduled to be held in Dec 2021. It is, therefore, necessary to hold election to fill up the vacancies caused thereby for the sessions 2021-2022, 2022-2023, 2023-2024 and 2024-2025 from the Divisions as provided in Bye Law 4(a)(iv). On the basis of the strength of Corporate Members attached to the Divisions, the allocation of seats is as follows:

One seat each from:

Aerospace Engineering Division	Metallurgical & Materials Engineering Division
Architectural Engineering Division	Mining Engineering Division
Agricultural Engineering Division	Production Engineering Division
Environmental Engineering Division	Textile Engineering Division
Marine Engineering Division	

Two seats each from:

Chemical Engineering Division	Computer Engineering Division
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Four seats each from:

Electrical Engineering Division	Electronics & Telecommunication Engineering Division
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Five seats each from:

Civil Engineering Division	Mechanical Engineering Division
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Members retiring from the Council after completion of three full tenure at a stretch shall not be eligible for re-election. However, they shall be eligible for re-election after a break of one term. Interested Corporate Members are hereby called upon to submit their self-nominations as per the format given herewith alongwith biodata (within 100 words), self-attested photocopy of Identity proof and non-refundable earnest money of Rs.10,000 (Rupees Ten Thousand) to the Convener, BOS so as to reach him not later than 4.00 p.m. of 08 September 2021 by any of the following ways –

- (i) Hard copy documents at the following address: (ii) Soft copy images/ scanned copies of the nomination papers and enclosures

Er Narendra Singh, FIE

Convener, Board of Scrutineers

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

via email to: **bos_2021@ieindia.org**

The acceptable proof of Identity of the candidate shall be his PAN card or Driving License or Photo ID Card issued by State/Central Government bearing his signature or Photo ID Card of The Institution bearing his signature or first page of his passport duly self attested.

A member attached to a Division shall be eligible to submit self-nomination for election only in that Division. The earnest money may be paid online or by Demand Draft in favour of "The Institution of Engineers (India)", payable at Kolkata. In case of online payment, the receipt of payment/ transaction slip along with the respective proforma (duly filled) should be forwarded to the IEI HQs along with the nomination papers.

For any assistance, members may dial the helpdesk no. 9433341919/ (033)40106249/ (033)40106274 and speak to the concerned officer at IEI HQ.

Sd/-
Narendra Singh
Convener, BOS

Sd/-
Dr T M Gunaraja
Member, BOS

Sd/-
Sisir Kumar Banerjee
Member, BOS

Sd/-
Navinchandra B Vasoya
Member, BOS

SELF-NOMINATION PROFORMA

To
Er Narendra Singh, FIE
Convener, Board of Scrutineers
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700020

Dear Sir,

Election from Division to the Council for the Sessions 2021-2022, 2022-2023, 2023-2024 and 2024-2025

I, _____ attached to _____ Engineering Division hereby nominate myself from the same Division for the subject election.

I attach herewith my updated biodata (within 100 words), Rs.10,000 (Rupees Ten Thousand) as the non-refundable earnest money by way of Demand Draft (Number _____ / Online transaction number _____*) and self-attested photocopy of my PAN Card / Driving License / Photo ID Card issued by State or Central Government bearing my signature / Photo ID Card of The IEI bearing my signature / first page of my passport as proof of my identity.

Thanking you,

Yours faithfully,

Signature : _____

Name : _____

Class of Membership of IEI : _____

Membership No. : _____

Engineering Division : _____

N.B. 1. *Details of IEI Bank A/Cs for online payments [Beneficiary: THE INSTITUTION OF ENGINEERS (INDIA)]

Name: THE INSTITUTION OF ENGINEERS (INDIA)
Account No. 012104000094674
IFSC No. IBKL0000012
Bank Name & Branch : IDBI Bank, Siddha Point,
Ground Floor, 101 Park Street, Kolkata 700016

Name: THE INSTITUTION OF ENGINEERS (INDIA)
Account No. 10577673157
IFSC No. SBIN0002062
Bank Name & Branch : SBI Gokhale Road Branch
Gokhale Court, 1st Floor, 1/2 Harish Mukherjee Road, Kolkata - 700020

The receipt generated after online payment must be attached with the respective proforma (duly filled) and forwarded to the IEI HQ.

- No payment by Cheque shall be acceptable.
- Details of criminal proceedings in any court of law and proceedings by the Council or the Ethics Control Board against the member, if any, should be annexed separately.

Details of e-remittance / Online Payment of Earnest Money

[To be filled by each IEI Corporate Member filing nomination and paying Earnest Money online]

Mode of payment: NEFT/ RTGS/ IMPS/ Mobile Banking/ Online Net Banking Transfer / Others

[Tick (✓) the mode of payment used]

Name & Membership No. of the IEI member filing nomination

Amount Paid (Rs.) Transaction date:

Name of Bank & Branch from where the payment was debited:

Account holder's name:

Transaction ID/ UTR No./ Payment Reference No.

IEI Bank & Branch to which the payment was transferred/ credited:

Remarks, if any

Signature:.....

Date:.....

TIME TABLE FOR ELECTION FROM DIVISIONS TO COUNCIL – 2021

Sl No.	Scheduled Event	Tentative date(s)/ deadline(s)
01	Notice inviting nomination along with biodata and non-refundable earnest money (through July 2021 issue of IEI News and by other means as mandated)	08 Jul 2021 (Thursday)
02	Last date for receipt of nomination (Not less than 30 days from circulation of notice)	08 Sep 2021 (Wednesday)
03	Intimation to Nominees (By email)	15 Sep 2021 (Wednesday)
04	Last date of withdrawal by Nominees (Not less than 21 days as per erstwhile provision)	07 Oct 2021 (Thursday)
05	Election start date	11 Oct 2021 (Monday)
06	Last date of voting (Not less than 45 days from start date, as per erstwhile provision)	26 Nov 2021 (Friday)
07	Counting and publishing of results	29 Nov 2021 (Monday)

The Institution of Engineers (India)

PROCEDURE FOR CONDUCT OF ELECTIONS

(As approved by the Council at its 689th meeting held at Ahmedabad, on 02-03 April, 2016 and amended at its 690th Meeting held at Durgapur on 26 Jun 2016, at its 691st Meeting held on 24-25 Sep 2016 at Haridwar, at its 706th meeting held on 21 Sep 2019 at Mumbai, at its 707th meeting held on 29 Dec 2019 at Hyderabad and as circulated subsequently)

1. Unless specified otherwise, following clauses in the 'Procedure for Conduct of Elections' will be applicable for all elections under provision of Regulations 24, 25 and 26.

2. The Corporate members on the roll of the Institution as on 31 Mar of the year in which elections are due shall form the electorate college for the elections which will be prepared and supplied by the IEI HQs.

3. The BOS will access the Control Panel of the Election software by using their login credentials which would be strictly confidential. Inviting self-nominations.

4. The Board of Scrutineers shall invite self-nominations alongwith biodata and non-refundable earnest money of the requisite amount from the eligible Corporate Members in the following ways:

(a) Through notification in the publication (if any) circulated to all the Corporate Members eligible to contest in the election.

(b) By sending email to the Corporate Members eligible to contest in the election and having valid email ids as registered with IEI as on 31 Mar of the year.

(c) By displaying in the notice board and website of the IEI for election under Regulation 24.

(d) By displaying in the notice board and website (if any) of the respective Centre for election under Regulation 25 and 26.

Such bio-data shall be uploaded as received from the concerned nominated members and the Board of Scrutineers shall not be responsible for correctness or otherwise of such information. The invitation for nomination should also include the election time table mentioning important dates in the election process as fixed by the BOS in consultation with the IEI HQs.

The amount of earnest money as decided by the Council at its 691st meeting held on 24-25 Sep 2016 at Haridwar is as follows:

- i. For election to the Council seat — Rs.10,000
- ii. For election to the State Centre Committee — Rs.5,000
- iii. For election to the Local Centre Committee — Rs.3,000.

The earnest money should be paid by Demand Draft in favour of "The Institution of Engineers (India)", payable at Kolkata or by direct electronic remittance to the HQs.

In case of electronic remittance, the receipt of payment should be attached with the nomination papers and forwarded immediately to the IEI HQs

Submitting self-nominations along with other requisites

5. A Corporate Member willing to contest in the election shall nominate himself and submit the nomination alongwith biodata and the earnest money. The nomination shall include the name, the class of membership, Division and the Membership number of the Corporate Member. The bio-data shall be circulated as received from the concerned nominated members but may be abridged to limit it to one hundred words and the Board of Scrutineers shall not be responsible for correctness or otherwise of such information.

A period of minimum 15 days from the last date of sending emails inviting nominations shall be allowed for submitting the nominations along with other requisites for elections under Regulations 25 and 26. For election under Regulation 24, minimum 30 days from the last date of sending emails inviting nominations shall be allowed for submitting the nominations along with other requisites. The earnest money paid during submission of nomination shall not be refunded under any circumstances.

The notification shall direct that a member attached to a Division shall be eligible to submit nomination for election (under Regulation 24 and 25) only in that Division. The candidate shall also submit, an acceptable proof of his identity, viz PAN card or Driving License or Photo ID Card issued by State/ Central Government bearing his signature or Photo ID Card of The Institution bearing his signature or first page of his passport duly self attested.

Scrutiny of Nominations

6. On expiry of the last date of receipt of nomination, the Board of Scrutineers shall meet and scrutinize the nomination papers and verify the validity of the nominations, rejecting the nominations which may be found to be invalid on account of their not being in conformity with the above requirements or under Regulation 23(c).

BOS Control Panel

7. The BOS can access the BOS Control Panel of Election software only after they log-in with their membership number as log-in ID and requisite password. This password shall be made available to them by the Administrator. Before the first log-in, they will be required to change their password. BOS members have to create their own password and have to keep it strictly confidential.

Electronic Voting

8. (a) Computer auto generated log-in credentials for online voting shall be sent through the mobile / e-mail to the electronically reachable members as on 31 Mar of the year on the opening day of the election.

(b) An eligible voter visiting the Institution website www.ieindia.org will be guided to the election portal. The voter can access the voting page of the relevant election by using log-in ID and password for voting online. A system generated One Time Password shall be sent to the registered Mobile / e-mail for casting of vote electronically. The One time Password shall have a validity of fifteen minutes. Separate One time Password shall be issued for all elections. The vote cast by a voter shall be encrypted and not available to anyone. The details of the voter by his membership number shall be available in the system. The electronic voting details cannot be downloaded and vote cast is encrypted. The bio data of the contestants will be available for voters reference in the election portal.

(c) In case a voter misplaces his password or has not received it for any reasons, he can request for computer auto-generated log-in ID and password from the HOME page of the IEI election web site which can be accessed through www.ieindia.org, which shall be sent to his mobile / e-mail.

(d) In case of members residing abroad who have registered their e-mail id, they will be provided the log-in credentials through his e-mail only.

Security

9. A voter can log in using his / her password issued to him in his / her registered mobile / e-mail on the starting day of the election. However, while casting the vote, a system generated One Time Password (OTP) shall be sent to his / her registered mobile / e-mail. Voter has to use that password for casting his / her vote. The validity of the OTP shall be for fifteen minutes only or till its first successful use whichever is earlier.

10. The election Web service provider is to provide the source code under sealed cover to the Secretary and Director General for the purpose of record and safe custody. The Source Code is not to be opened and is to be kept sealed.

11. In case any correction/ change required by the BOS due to wrong entry/ change of schedule etc. a communication is to be sent by the Convenor, BOS to the Administrator i.e. the Secretary and Director General. On receipt of such request, the Administrator shall arrange for necessary corrections, if feasible.

12. The software is to also have feature of automatic logging out if no activity takes place for 10 minutes. After automatic logging out, re-logging by all three to access the site is to be made mandatory.

13. Voting web site shall close at 2400 hours on the date specified and no voting on web can be done thereafter.

Final counting

14. On the date of counting the system shall count the online votes and final result shall be available to BOS instantly. In the event of a tie, the BOS shall decide the result by toss of coin or by drawing lots, as per the existing provision.

Bio data

15. The Bio data of the contestant if furnished, as finalized by the BOS, shall be uploaded on the election site. This shall be available in public domain. It shall also be available for view to the voter while casting the vote on web.

16. The Bio data of the contestants shall also be published in the Centre's Newsletter.

Result

17. The BOS shall print the report on the result of the voting which shall be signed by the members of the BOS present and present the report along with connected papers to the Chairman of the Centre and forward a copy of the report to the Honorary Secretary of the Centre and also to the Secretary & Director General of the Institution for necessary action.

18. The Honorary Secretary shall immediately communicate official results of the election to the Secretary & Director General. The voting papers shall be sealed and kept by the Chairman of the Centre till 30 days after the ensuing AGM of the Centre whereafter they shall be destroyed, as per the existing proviso.

For election to Council under Bye-law 4(a)(iii) the voting papers need to be preserved till 30 days of the Institution's AGM, whereafter they shall be destroyed. Similarly details of all the web voting shall be dealt with by the Administrator.

19. The BOS shall conduct all business of election from the premises of the Centre. In no case activities of election can be carried out from premises other than the Centre.

20. The Chairman and the Honorary Secretary in the office and the Chairman-elect and Honorary Secretary-elect shall not be members of the BOS.

21. No person shall be member of BOS for more than two consecutive elections.

22. The Chairman / Honorary Secretary of the Centre, without involving himself in operational activities of the BOS, shall oversee the functioning of the BOS to ensure that the procedure is not violated inadvertently.

In case the Chairman / Honorary Secretary himself is a candidate in any of the elections being conducted at the Centres of which he is the Chairman / Honorary Secretary and candidate(s) in the election to the Council from the Division Board, he should not be involved in any of the activities relating to the election process at the Centre. In such case, the State/Local Centre Committee may resolve to authorize an appropriate available non-candidate corporate member preferably past Chairman to oversee the functioning of the BOS without involving himself in operational activities of the BOS.

I.E.I NEWS

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President : Er Narendra Singh

Editor : Dr H R P Yadav

Associate Editor : Dr N Sengupta

Special Contributors: Mr S Chakraverty,
 Mr Kingshuk Sen, Mr T Chakraborty, Ms A Dutta,
 Mr P Chakraborty, Ms H Roy, Mr S Bagchi

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Telephones: 91-33-2223 8311/14/15/16; Web: <http://www.ieindia.org>; E-mail: iei.technical@gmail.com