



News Bulletin

The Institution of Engineers (India)

Meerut Local Centre

"105 Years of Relentless Journey Towards Engineering Advancement for nation Building"

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From Editor's Desk

Dear friends

I feel great pleasure to greet you all on the upcoming celebrations of our Independence day. We feel proud to be Indians and Independence day reminds us to dedicate ourselves and do our best to our mother country Bharat Mata. As engineers, we are entrusted with most prestigious job of Nation Building. Indian engineers are putting their best efforts. Recently we got our first green field refinery inaugurated in Rajasthan. Another feather in the cap is the inauguration of semiconductor assembly, testing and packaging plant in Gujarat. We are already designing semiconductors. So with Gujarat plant, we have earned the status of semiconductor producing country. It's a proud moment. We are, making progress day by day and our ultimate aim is Viksit Bharat.

As regards to IEI celebrations. we had 2 great events. World telecommunications day and World environment day were celebrated with great enthusiasm. As civil engineer and environmentalist, I delivered my lecture in later event. Deliberations on importance of carbon footprint was centre of main attraction.

As a collective team. at Meerut local centre, we are doing our best to promote more activities and give our best to IEI and our nation.

Jai Hind , Bharat Mata ki Jai.

Er. Nikhil Kishore
Hony. Secretary

Technical Activities of Centre

1. Statutory Activities:

National Maritime Day Date: 05-04-2026

National Maritime Day was celebrated on 05 April 2026 by organizing a webinar on Google Meet. Chairman, IEI, Meerut Local Centre Er. S.C. Mittal welcomed the members of IEI and guests. Er. Ranvir Singh, FIE, Retired Chief Engineer, Merchant Navy was the keynote speaker. The theme for this year's National Maritime Day is "Maritime India - Empowering Progress".

National Maritime Day commemorates the maiden voyage of S.S. Loyalty, the first Indian owned ship from Mumbai to London in 1919 and to acknowledge the significance of maritime sector to India's economy and trade. The day is being observed every year since 1964. Er. Ranvir Singh highlighted the importance of Maritime in India as bulk of India's trade externally moves via sea. The maritime industry has transformed the whole world into, a sort of global village which acts as interconnected, interdependent economic space and in turn acts as the backbone of international trade carrying over 80% to 90% of global trade by volume. Through efficient, low cost and high volume transport, maritime shipping bridges the gap between producers and consumers, making global supply chain possible. The maritime industry has articulated this transformation by containerization revolution- 1950 was the pivotal moment, intermodal connectivity- seamless movement between ships, trains and trucks and Just in time logistics- reducing storage costs and allowing products to be assembled with components from multiple countries. The maritime sector facilitates the "village" concept by creating intense interdependence, where products manufactured in one part are consumed in another.

National progress is brought about through a holistic multidimensional approach, that combines economic growth, social development, infrastructural expansion and political stability rather than relying solely on technological or financial achievements. It requires a

balance of strong values, good governance and active participation from citizens to create sustainable and inclusive growth. For national progress, empowerment of women, youth and marginalized communities is essential. Empowerment is fundamentally about enabling people to reach their full potential and take ownership of their future.

There was Question- Answer session at the end of the presentation by the keynote speaker.

To conclude the webinar, Er. Nikhil Kishore, Hony. Secretary, IEI, Meerut Local Centre presented the vote of thanks. Er. Rajneesh Kumar was the convener of the event.

World Telecommunication and Information Society Day Date: 17-05-2026

To celebrate World Telecommunication and Information Society Day, a webinar was arranged on 17th May. The guests for this occasion were invited from Govt. of India's BSNL. Er. Gaurav Bharti and Er. Rajat Jain, both, Sub-divisional Engineers in BSNL office Meerut took part in the proceedings.

To begin with Er. S.C. Mittal, Chairman L.C. Meerut welcomed, guests and the participant members. Er. Mittal requested Hony. Secretary Er. Nikhil Kishore to convene the meeting and proceed, further.

Hony. Secretary Er. Nikhil Kishore started by giving a brief introduction and importance of World Telecommunication and Information Society Day. He said that World Telecommunication and Information Society Day is celebrated annually on May 17th to mark the founding of the International Telecommunication Union and signing of first International Telegraph convention in 1865 in Paris. It was proclaimed by ITU in 2006. This day is observed by UN to raise awareness about benefits of communication technologies and bridge the digital divide.

The theme for 2026 is Digital Lifelines – Strengthening Resilience in a Connected World.

This year our focus is on critical need for a secure, reliable and adaptable digital infrastructure which includes submarine cables, satellites and data systems etc. we have to ensure that digital connectivity remains strong during crisis and disruptions. Hony. Secy. referred to father of Internet in India – B.K. Syngal, former chairman of Videsh Sanchar Nigam Limited who brought internet to India on Aug 15, 1995 Er. Kishore gave details of main types of Telecommunications:

1. Voice services for small business in Telecom industry.
2. Data services.
3. Internet based services.
4. Cloud based services.

After covering basic informations, Hony. Secretary Er. Nikhil Kishore invited guest for lecture and introduced Er. Bharti and Er. Jain. Er. Gaurav Bharti and Er. Rajat Jain started with introduction and told that Telecom Services are Digital Lifelines for Societies, Economies and Institutions and for Interconnected World and Communication. The Rapid Expansion of Broadband Network, mobile network, cloud Computing, IOT and AI has Revolutionized the way People Access the Information. Also Rapid Expansion of Telecom Services created threats such as Misinformation, Cyber Threats etc., this Presentation Explores the Telecom Technologies, Threats and Efforts to Create Secure Network and Sustainable Growth in Telecom Ecosystem.

Er. Bharti and Er. Jain elaborated on subject theme features: Salient features of presentation on world telecommunication and information society day 2026 with the theme "strengthening Resilience in a connected world"

* Encourages universal access to Telecommunication and Digital Services Worldwide.
Strengthening Digital Lifelines

- Advancement of 5G and Emerging Technologies, Highlights the Role of 5G, IoT, AI, and Cloud Computing in Transforming Society.

- Digital Inclusion and Equity

Emphasizes Bridging the Digital Divide in Rural and Underserved Communities.

* Promotes online Learning, Telemedicine, and Remote Access to Essential Services.

* Raises Awareness about Securing Digital Networks against Cyber Threats.

* Telecom Networks act as Critical Support Systems during Disasters and Crises.

Economic Growth and Innovation

- Telecommunications drive Digital Economies, Startups, e-Commerce, and Innovation.

Sustainable and Green Telecom Practices

- Encourages Energy-Efficient Infrastructure and Environmentally Sustainable Technologies.

- Future-Ready Communication Networks

Focuses on Building Secure, Inclusive, and Resilient Digital Ecosystems for Future Generations.

* Economies and Institutions and for Interconnected World and Communication
Broadband Network, Mobile Network, Cloud Computing, IoT , AI has Revolutionized the way People Access information.

Telecom Technologies, Threats and Efforts to Create Secure Network and Sustainable Growth in Telecom Ecosystem.

Hony. Secretary Er. Nikhil Kishore and some members raised queries, that were duly answered by speakers.

To conclude, Hony. Secretary Er. Nikhil Kishore gave vote of thanks.

World Environment Day Date: 05-06-2026

To celebrate World Environment Day, a seminar was arranged by Local Centre Meerut IEI, at its office on June 05, 2026. Two speakers, Er. B.D. Sharma and Hony. Secretary Er. Nikhil Kishore, were keynote speakers on this occasion.

The seminar started with welcome address from Chairman LC, Er. S.C. Mittal.

Hony. Secretary Er. Nikhil Kishore started convening by giving a brief introduction and stating importance of the day. He said that World Environment Day is a global call for climate action. This day was established by UN General Assembly in 1972 and was celebrated in 1973. We can say that World Environment Day is the largest global platform for environmental engagement celebrated by millions, worldwide through tree planting, clean up drives, educational programmes and eco friendly initiatives. UN Environment Program, UNEP calls everyone to “Now for Climate”, Campaign and steer a world already in motion.

Hony. Secretary Er. Kishore told that this year’s theme for World Environment Day, is “Inspired by Nature for Climate, for our Future”.

To proceed further, Er. Kishore invited keynote speaker Er. B.D. Sharma and introduced him.

Er. B.D. Sharma started his speech by telling his version of World Environment Day:

He said the major section of living beings may be speechless, but it speaks louder than human beings. The specific changes in the climatic conditions are belling danger in so many global sections. The corresponding measures are matters of deep concern, even to save life on earth.

The El-nino effect, the fire incidents on hills and in forests, the unpredictable behaviour of monsoon, global warming are just not the matter of casual concern, but have their own significance. The society at different levels, even from individuals to Apex body, will have to concentrate.

It is recommended that the development works be focused more on Nature than on society. Also the economic and disciplined use of natural resources should be paid more attention over the wastage, over -use, & tendency of individuals or of a section's possessiveness. Even if it is to be compromised with the rate of development, it should also be seen.

Hony. Secretary Er. Nikhil Kishore thanked Er. B.D. Sharma and started his deliberations as keynote speaker. Er. Kishore started his lecture and gave a heading of "Grip of Carbon is to be Broken", to his lecture.

He said that the weather has started to show its abnormal character and we, and our modern and reckless life style is responsible for all this. Temperatures are high in every part of our nation and recently we felt very high temperatures in May itself as compared to June. Similarly, February was much hotter than March.

Apparently, we are facing great and abnormal changes.

Today, the amount of carbon dioxide in world over is of the order of around 37 to 40 billion tonnes per year, whether this is inherited in industries, fossil fuel or land changes. Our activities are responsible for such magnitude of CO₂ around us. Similarly, we are emitting methane, which is more lathel than CO₂, and is of the order of 9 to 10 billion tonnes per year. So our own carbon foot fall is responsible for our harm. In addition to this, fluorinated gases are being emitted which gives an effect of 1.5 to 2 billion tonne of equivalent carbon. These three type of emmissions have raised the temperature of earth, to its peak. This rise of temperature cannot be taken in easy way, our system and even 'Himalayas' are affected. Sometimes, scanty and sometimes heavy rains are affecting our agriculture. Similarly life of species, right from sea to Himalayas is in danger. Wilting of plants result in extinction. Above this, wild fire is the main culprit. This is all due to rising temperatures.

Our future is beyond imagination and our lifestyle is being questioned.

If we go for definition, Carbon foot print is total amount of greenhouse gases emitted into the atmosphere by human activities measured in metric tonne of CO₂ and is used to quantify impact of climate change. So whatever we do for our need it has its own foot prints. It also depends on the way, how we produce our products.

Er. Kishore said, if a produce is from home production it has lesser carbon foot print than, product from industries. The potato chips, that we eat, has a carbon foot print of 2 to 3 kg. similarly soft drink has 0.5 to 1.3 kg carbon foot print. Most of the cosmetics that we use, show an impact of 0.5 to 1.5 kg carbon foot print.

We need everything for our life but 2 things are important which are law of nature – 1. Local needs are to be met with local resources, 2. Vocal for local, which is the slogan of our P.M.

Most important is the fact that the carbon foot print from industries, manufacturing and construction will be considered on one side and 8 billion people of the world producing carbon foot print are on the other side. This comparison will show us, the enormous impact of population on carbon foot print of the world.

Now the most important issue that is related to our health is the impact of carbon foot print in our lives. Just as we know, the amount of calorie affects our health and is a measure of health scale, the magnitude of carbon foot print will affect the environment and health of the earth.

So, in future we, would, have to use warning signals in terms of carbon foot print on our health products and other related items, so as to warn magnitude of earth health and environment.

The data used above is with courtesy to Dr. Anil Joshi environmentalist.

With this Er. Kishore concluded his lecture.

Hony. Secretary Er. Nikhil Kishore gave vote of thanks to conclude the seminar.

2. Lecture Meeting

By Dr. Pragati Sharma on 20-06-2026

Topic: Electronics with AI: The Future of Smart Systems

A Lecture meeting on the above subject was organized as a webinar on 20th June 2026, Er. S.C. Mittal, chairman of the centre, welcomed the corporate members and guests.

Er. Nikhil Kishore, Hony. Secretary started convening the meeting and introduced, guest speaker, Dr. Pragati Sharma, from S. D. College, Muzaffarnagar. Hony. Secretary also spoke on the subject of the deliberations of webinar Er. Kishore said that the convergence of Electronics and AI is revolutionizing the design and operations of modern smart systems. AI driven technologies are helping to enhance the capabilities of devices used in health care, Industries and transportation, consumer electronics and smart cities concept, Hony. Secretary invited Dr. Sharma to start her lecture.

Dr. Sharma started with a brief introduction on the subject. She said that The convergence of Electronics and Artificial Intelligence (AI) is revolutionizing the design and operation of modern smart systems. This lecture, "Electronics with AI: The Future of Smart Systems," explores how AI-driven technologies are enhancing the capabilities of electronic devices across diverse domains, including healthcare, industrial automation, transportation, consumer electronics, and smart cities. The session highlights the integration of machine learning algorithms, embedded intelligence, sensors, Internet of Things (IoT), and edge computing to create adaptive, autonomous, and efficient systems. The lecture aims to inspire students, researchers, and professionals to understand the transformative potential of intelligent electronics in shaping the next generation of smart and sustainable technological solutions.

In her detailed lecture displayed on screen, she started with Evolution of Technology. She said in past, we used static circuits doing one specific job - programmed once and unchanged forever. The shift started from rigid programmed rules to intelligent, self improving patterns. Today we have living circuits, that learn, adapt and get better with every use.

Dr. Sharma further, explained, what is AI in electronics. She said that AI powered electronics don't just follow instructions - they sense their environment, think about what is happening, and act in response. She gave an example of light switch in smart homes that senses your arrival and lights get on due to AI.

Dr. Sharma explained benefits of AI merger with electronics. We get improved performance, smarter efficiency and true automation. Dr. Sharma said that in real world,

we can come to our mobiles. Through AI, we get real image analysis, voice commands and predictive maintenance suggestions. AI also revolutionizes signal processing. We go from noise to clarity through AI.

AI is also responsible for the rise of smart robotics. Modern robots navigate complex, unpredictable environments. AI powered medical tools perform delicate surgeries. Robots and human work side by side, each doing, what they do best.

Dr. Sharma said that edge computing is the new frontier. AI gives instant response, decisions happen in milliseconds. AI helps in privacy first, your data stays on your device. AI functions even without an internet connection.

Dr. Sharma also told about future prospects, like quantum computing, sustainable electronics etc.

Dr. Sharma concluded with Future Prospects. The goal is to create technology that feels intuitive, invisible and human focused. Your challenge is to plan and build future smart systems.

In the end, Dr. Pragati Sharma replied to questions raised by Hony. Secretary Er. Nikhil Kishore and others. Er. Kishore spoke about challenges of AI in future.

To conclude the webinar, Hony. Secretary Er. Nikhil Kishore gave vote of thanks.

3. Local Centre Committee Members:

The members of the Local Centre Committee of the Institute of Engineers (India) Local Centre Meerut are detailed hereunder:

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