



NEWS BULLETIN

The Institution of Engineers (India)

Meerut Local Centre

"100 Years of Relentless journey Towards Engineering Advancement for nation Building"

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From Chairman's Desk



Greetings to all members of IEI and their families for New Year 2020.

I use this opportunity to talk about the performance of the centre. On the brighter side, it is the matter of satisfaction that we are organizing all basic events nicely. All the statutory days are being celebrated successfully. Royal Charter day was celebrated for the first time on 9th September 2019. Attendance of the corporate members in the programmes has shown continuous improvement. Lecture meetings are conducted regularly with the Local Centre Committee meetings. We have been able to extend the area of activities to Muzaffarnagar and Saharanpur. Statutory days, seminars/lecture meetings and LCC meetings have been conducted in these cities. Purpose is to encompass all members of IEI in the centre of activities. But on the other hand, we have not been able to open new students' chapters in engineering institutes and could not organize one or two days seminars. We have a commitment to this and hope to make some headway soon. We are trying to organize a one day seminar in April 2020 in agriculture University, Meerut.

I am thankful to all and looking forward for your continuous cooperation.

Technical Activities carried out by the Centre

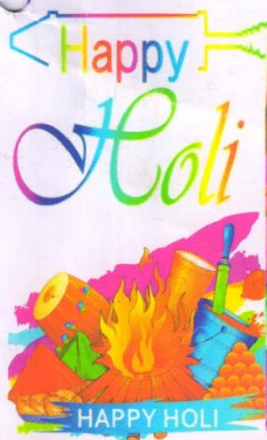
1. STATUTORY ACTIVITIES:

(a) Royal Charter Day

Date : 09-09-2019

Venue : TimBukToo Restaurant, Meerut

Royal Charter Day was celebrated at TimBukToo Restaurant, Meerut. The program started with lighting of Lamp and welcome of IEI members and guests by chairman of Meerut Local Centre. The event was organized in two sessions. The first session consisted of presentations by Er. Rajneesh Kumar, FIE on Royal Charter and by Er. C P Gupta, FIE on various aspects of Institution of Engineers. In second session, there was a talk by Er. Jagmal Singh, FIE on Electronic Communication. Speaking on Royal Charter, Er. Rajneesh Kumar told about the Royal Charter, brief history and background of IEI Royal Charter and the sequence of events which took place during the process of award of Royal Charter. He also explained the objectives of IEI as given in Royal Charter and action to be taken to achieve these objectives. He stressed on what is not allowed to be done. Er. Rajneesh Kumar concluded by explaining how the institution of Engineers (India) functions. Er. C P Gupta highlighted the history of IEI and its progress over last 100 years. He explained about the activities of IEI, its structure, various divisions, membership, privileges of corporate & non-corporate members and institutional



All Corporate Members with their family are requested to participate in Holi Milan being organised on 08-03-2020 at Abha Manav Mandir (A Senior Citizens' Home), Panchwati Colony, Mawana Road, Meerut. It will have a entertaining magic show and will be followed by variety of Spicy CHAAT.



membership. He informed of IEL membership of International bodies, bilateral agreements, students chapters and their activities, R&D initiatives of IEL and awards instituted by IEL. He explained about the certification of IEL in respect of chartered engineer and professional engineer.

Er. Jagmal Singh delivered a talk on Electronic Communication. He explained about Audio frequency, Microwave frequency, AM and FM Radio frequency, Satellite communication and Radar etc. He also told about the parameters for proper communication.

The programme was conducted by the Hony. Secretary Er. M L Jain and he presented the vote of thanks.

(b) Engineers' day **Date : 15-09-2019**

Venue : Chamber Bhawan, Delhi Road, Meerut

Celebration of Engineers' day started with the lighting of lamp and garlanding the portrait of Sir M Vishvesvaraya. Er. Rajneesh Kumar, Chairman, Meerut Local Centre welcomed the Guests and members of IEL. Er. CP Gupta, FIE presented a life sketch of Sir M V, highlighting his



achievements as a great engineer, an efficient administrator, an eminent statesman, educationist, economist, social worker and a patriot of highest order.

The Keynote speaker, Dr. K K Singh, ADG (Engineering), ICAR, New Delhi concentrated in his talk on the latest transformations in the field of agriculture. He informed about the modernization of agricultural technology in the light of food needs for growing Indian population. He discussed the vertical farming and explained how it can be used for increasing production by using precision and controlled environment.

Another speaker, Er. V K Tyagi, Engineer-in-Chief (Retd.) UP Irrigation stressed about the role of Engineers in achieving the goal-2030 of sustainable development. He talked about the environment, availability of sufficient and safe water for everyone, reliable communication and depletion of natural resources.

The Chief Guest of the programme was Er. Rajesh Agrawal, Member Railway Board, New Delhi. He shared his experiences about the recent transformations and improvements in Indian Railway. He informed that the speed of trains has increased considerably and quality of service and facilities has improved inching towards the world's standards.

Er. CP Gupta conducted the program and Er. ML Jain, Hony. Secretary, Meerut Local Centre presented vote of thanks.

The event was covered by three leading news papers of Meerut.

(c) World Habitat Day **Date : 05-10-2019**

Venue : SCRIET, Meerut

The program started with the lighting of lamp. Er. Rajneesh Kumar, Chairman, Meerut Local Centre welcomed the guests, faculty and students of SCRIET and corporate members of IEL.

The theme of the seminar was Frontier Technologies as an innovative tool to transform waste to wealth. The speaker Er. Ashutosh Mishra, Asstt. Professor, SCRIET stressed on



Developing new technologies so that maximum part of the waste is converted into compost and for producing energy. The urine and dung of cow should be converted into bio-fertilizer to increase the production and quality of agriculture produce so as to reduce the use of harmful chemicals. He discussed several frontier technologies being used in agriculture sector.

The Keynote Speaker Er. Deepak Agarwal, Sr. Vice President, IL & FS Environmental Infrastructure and Services Ltd. New Delhi told that with the rapid infrastructure development, the quantum of construction and demolition waste is ever increasing. As per CPCB guidelines on environmental management of C&D waste issued in March 2017, 25-30 million MT of C&D waste is generated annually in India. Scientific processing of C&D waste yields Green Recycled Products namely Recycled aggregates, Recycled concrete aggregates, Manufactured sand, Screened soil, C&D bricks & blocks, C&D pavers & Tiles etc. Use of C&D recycled products contribute towards conservation of natural resources such as sand & aggregates etc. and mitigates air pollution.

The Chief Guest Prof. Jaimala, Director, SCRIET Meerut also expressed her views on the occasion.

Er. M L Jain, Hon. Secretary, Meerut Local Centre presented vote of thanks and Er. C P Gupta conducted the programme.

(d) World Standards Day **Date : 14-10-2019**

Venue : JPIET, Meerut

The program started with the lighting of lamp. Er. Rajneesh Kumar, Chairman, Meerut Local Centre welcomed the guests, faculty and students of JPIET and Corporate members of IEL. The theme of seminar was "Video standards create a global stage".

The Keynote Speaker, Er. Tushar Jain, Professor Mechanical Engg. MIET, Meerut informed that the video standards is an ability of a video card or video display device that defines the amount of colors that are shown and the resolution. For example, VGA is capable of a maximum of 640 x 480 (16 colors) in graphics mode.

Four broadcast & video standards and recording formats are commonly in use around the world: NTSC, PAL, SECAM, and HDTV. PAL is an integrated method of adding color to a black-and-white television signal that paints 625 lines at a frame rate 25 frames per second. Visual multimedia source that combines a sequence of images to form a moving picture. The video transmits a signal to a screen and processes the order in which the screen captures should be shown. Videos usually have audio components that correspond with the pictures being shown on the screen. Digital video was first introduced commercially in 1986 with the Sony D1 format, which recorded an uncompressed standard definition component video signal in digital form. Component video connections required 3 cables and most television facilities were wired for composite NTSC or PAL video using one cable.

Another speaker Er. Rohit Agarwal, Asstt. Professor, MIET, Meerut discussed on Video Transmission Standards and different video streaming formats. He also talked about different video recording systems.

Er. M L Jain, Hony. Secretary, Meerut Local Centre presented the vote of thanks. Er. C P Gupta conducted the programme.

**(e) Energy Conservation Day Date: 14-12-2019
Venue: Three Schools/Colleges**

The Energy Conservation Day was celebrated this year by holding Poster/Painting Competition in following three school/colleges for the students of VI, VII and VIII standards.



1. K.S Public School, Saket Meerut (A co-educational school) on 09/12/2019.
2. KK Inter College, Delhi Road, Meerut (An exclusively boy's educational Institute) on 11/12/2019
3. Ismail Girls Inter College, Shastri Nagar, Meerut (An exclusively girl's educational Institute) on 12/12/2019.

The Painting Competition was held for budding minds of 6th to 8th Standard students. 50 students of each institute participated in the painting /poster competition. The time allotted was 90 minutes for completing the painting/poster. The paintings were evaluated and the best three paintings from each institute were selected for prizes. The institutes

arranged award function on different dates in which students of all classes participated. The best three were given mementos and all participants of the painting event received certificates. The past Chairman and Certified energy auditor, Er. C P Gupta explained various techniques in energy saving and advised all students to inculcate the habit of energy saving in their daily life. The local centre Chairman Er. Rajneesh Kumar and Hon. Secretary Er. ML Jain were present in the painting competition and award functions.

2. LECTURE MEETING

(a) By Dr. SA Rizvi on 30-06-2019

A Lecture Meeting was arranged on Supply Chain Management. Speaker was Dr. SA Rizvi, Workshop Supdt, University Polytechnic, JMI, New Delhi. 20 IEI members participated in the programme. Dr. Rizvi started with the history of SCM and explained its definition, importance, goal and benefits in industry. He told that SCM is a total system approach to manage flow of information, material and service from raw material suppliers through factory and ware house to the end product. He presented the case study of Mother Dairy to explain SCM. He told that SCM is very important component for a company to survive. Proper application of Supply Chain Management leads into inventory reduction, productivity improvement, reduction in personnel and procurement cost, higher customer satisfaction and increased profit.

(b) By Er. BD Sharma on 11-08-2019

A Lecture Meeting was arranged on Environment and Health. The speaker was Er. BD Sharma, convener, Indian Water Resources Society, Meerut Chapter. 36 Corporate members of IEI participated. Er. BD Sharma explained that Earth is a planet supporting life of many species for millions of years. Every living being consumes food provided by the nature, develops the body, maintains the health and performs the assigned role.

The green house gases emissions, global warming, polluted water resources, automobiles and industrial effluents and emissions, unusual situations like erratic rainfall, rise in sea level, hurricanes, melting of glaciers are attracting serious concern of all those who are worried for a better tomorrow. These concepts were discussed in details and members actively participated.

(c) By Er. CP Gupta on 24-09-2019

A lecture meeting was arranged in Saharanpur on Power System Management. The Speaker was Er. C.P Gupta FIE, former Chief Engineer UP Power Corporation. He is certified Energy auditor by Ministry of Power, Government of India.

He informed that the demand of electricity fluctuates depending upon season / day & night / time in a day. The power utility is required to match this demand all the time. The generation by generating stations should, therefore be constantly altered as per the demand. He informed that the entire generation and demand of the country is pooled together through a composite grid since 31.12.2015. While the operation of composite

grid is an economical solution, it calls for discipline of all constituents. It involves complicated financial accounting which is almost impossible to do manually but with proper software can be tackled by computer.

(d) By Er. Atar Singh on 15-12-2019

A lecture meeting was arranged on 'Sustainable Development Goals and their achievement'. The speaker was Er. Atar Singh FIE, Advisor & Ex-Director, NPTI (MOP, Govt. of India). Er. Atar Singh explained the Carbon Footprint and the use of non fossil fuel for electricity generation. He told about the sustainable development goals of united nations which are about poverty, hunger, health and well-being, education, gender equality, water and sanitation, affordable and clean energy, work and economic growth, industry, innovation and infrastructure, equality, climate change, peace, justice and institutions etc. He discussed the problem and ways to improve the above so as to achieve the goals by year 2030.

2. Other Technical Activities

- (a) MIET, Meerut (an Institutional Member of IEI) celebrated Engineers' Day on 13-09-2019 in which Local Centre Chairman Er. Rajneesh Kumar was present as Chief Guest.
- (b) An interactive meeting with the professor in-charge of paper institute Saharanpur (Campus of IIT Roorkee) was held on 24-09-2019 in which the Chairman, Hony. Secretary and Er. CP Gupta took part.

Other Activities

1. Independence Day was celebrated on 15th August 2019 in IEI Office.
2. A meeting of corporate members of Saharanpur was held in Saharanpur on 24-09-2019.
3. 8th AGM of the centre was held on 19-10-2019. Besides statutory requirements, 6 corporate members who attained the age of 75 years were felicitated as Platinum Members.
4. A family get together was arranged on the occasion of Diwali on 19-10-2019. Member participated in a big number.

Letter of Appreciation By HQ

(Extract of letter dated 24th December, 2019)

We take this opportunity to congratulate the Chairman and Hony. Secretary and all staff of your Centre for completing the Summon work on time in a mission oriented manner. Your Centre has actively participated in the Summon work in a meticulous manner. We sincerely appreciate your role and look forward to your continued adherence to good practices in financial management in future.

Sd/-Maj Gen (Dr) S Bhattacharya, VSM (Retd)
Secretary & Director General

Forthcoming Events

Date	Time	Event	Venue
01-02-2020	11.00 am	Lecture Meeting	G-117, Shastri Nagar, Meerut
08-03-2020	04.30 pm	Family Holi Meet	Abha Manav Mandir, Mawana Road, Meerut
15-03-2020	11:00 am	Lecture Meeting	G-117, Shastri Nagar, Meerut
22-03-2020	03.00 pm	World Water Day	Paper Institute, Saharanpur Campus of IIT Roorkee

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