

News Bulletin

The Institution of Engineers (India)

Meerut Local Centre

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

E-Mail: meerutlc@ieindia.org , website <https://ieimeerut.org.in>, Phone: 0121-4051456

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Er. R.P. Agrawal, FIE, Chairman

(for sessions 2023-24 & 2024-25)

Er. Raj Pal Agrawal, FIE, pursued B.Sc. Engineering (Electrical) from Punjab Engineering College, Chandigarh under Punjab University, Chandigarh in 1972. He served in the private sector before joining UP State Electricity Board in 1976 as an Asst. Engineer. After a distinguished career spanning about 35 years, he retired as an Executive Engineer on July 31, 2011. His expertise lies in the field of Microwave & Telecommunication. He obtained an MCA from IGNOU in 2009 and cleared GATE in 2014 & 2017. Post-retirement, he served as an Advisor to CE(TW), Meerut, and later worked in the private sector as a Consultant specializing in the test & commissioning of 132kV & 220kV substations.



Er. Subhash Chandra Mittal, FIE, Hony. Secretary

(for sessions 2023-24 & 2024-25)

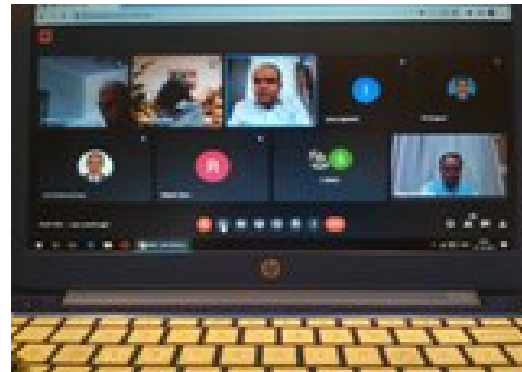
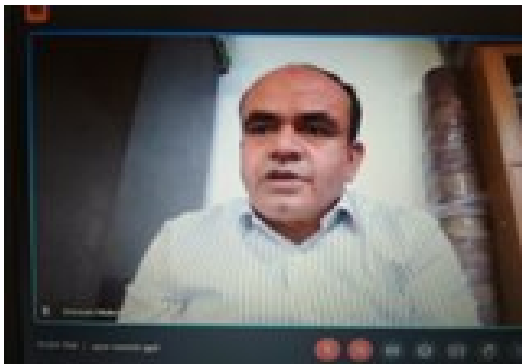
Er. Subhash Chandra Mittal, FIE, born on January 1, 1947, in a small village in District Saharanpur, graduated in Mechanical Engineering from the University of Roorkee (Now I.I.T. Roorkee) in 1968. He served UPSEB (Now UPPCL) in Transmission, Distribution & Thermal organisation for approximately 35 years, retiring as Chief Gen Manager (Chief Engineer Level-1)

in December 2004. Notable for his contributions beyond engineering, he delivered a lecture on "Management and Spirituality" at the Meerut Local Centre of the Institution of Engineers (India) on May 29, 2022.

Currently, he devotes his time to social service, advocating for Yoga and Meditation. He resides at Aaditya Kutir, AP-18, Sector-2 Shatabdi Nagar, Delhi Road Meerut-250103.

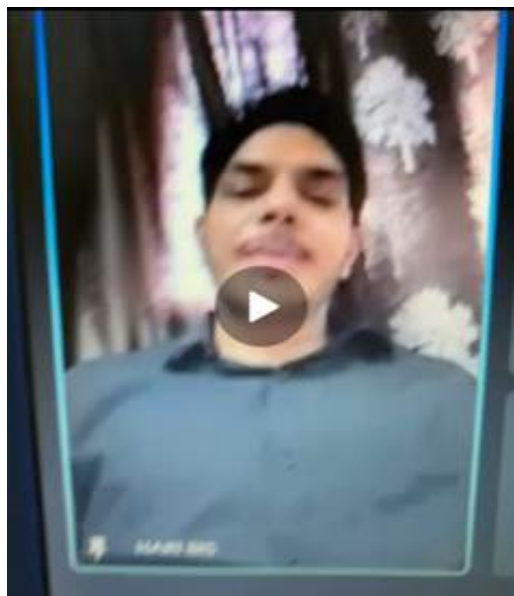
A. Statutory Activities:

World Habitat Day Date: 02-10-2023



World Habitat Day was celebrated through a webinar on Google Meet. In the absence of Er. M.L. Jain, Chairman, Meerut Local Centre, Er. Rajneesh Kumar, immediate Past Chairman, extended the welcome. The event was convened by Er. B.D. Sharma,, Indian Water Resources Society Meerut Chapter, with Sh. Ishtiyak Ahmed, Retired Chief Town Planner MDA, Meerut & General Manager (Planning), Noida, as the keynote speaker. The theme, "Resilient Urban Economies: Cities as drivers of growth and recovery," emphasized the evolving needs of urban spaces. The discussion underscored the imperative for sustainable practices to address the demands of growing urban populations. Er. R.P. Agrawal, Hony. Secretary, Meerut Local Centre, concluded the event with a vote of thanks

World Standards Day Date: 14-10-2023



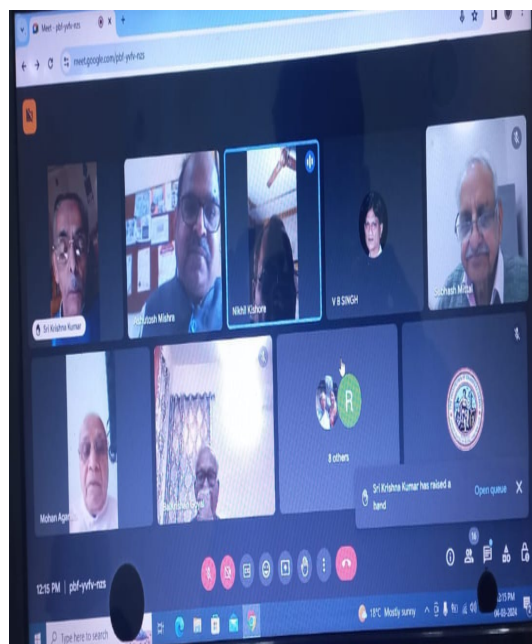
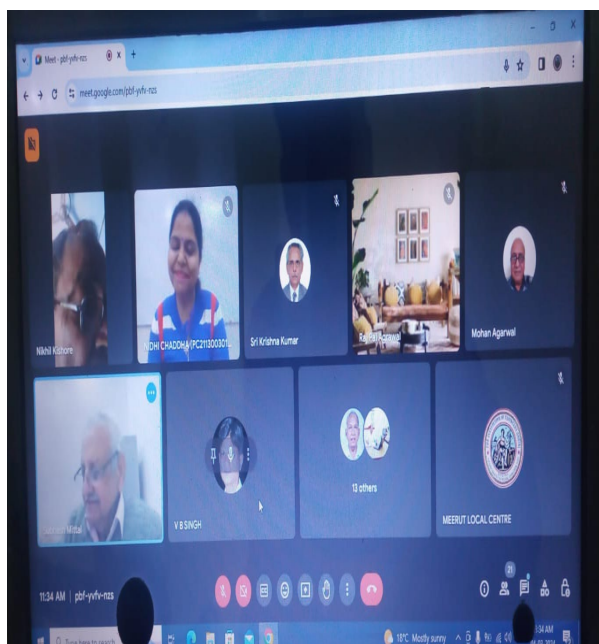
World Standards Day was marked by a webinar on Google Meet, focusing on "The Shared Vision for a Better World." Er. Hariom Meena, scientist B and Assistant Director (BIS), Ghaziabad, delivered the keynote address, emphasizing the role of standards in sustainable development. The discussion highlighted the concerted efforts of international bodies like ISO and national agencies like BIS in aligning standards with the Sustainable Development Goals (SDGs). Er. R.P. Agrawal, Hony. Secretary, Meerut Local Centre, expressed gratitude to participants at the event's conclusion.

Energy Conservation Day Date: 14-12-2023



A drawing competition themed around energy conservation was held at Ram Sahay Inter College, Meerut, on December 14, 2023. The competition witnessed enthusiastic participation from 45 students of classes 6 to 10. Mr. Dinesh Yadav and Mr. Ajeet Kumar served as invigilators. The winners were felicitated on January 6, 2024, with mementos awarded to notable contributors. Er. R.P. Agrawal, Chairman, along with Er. S.C. Mittal, Hony. Secretary, and other dignitaries, emphasized the importance of energy conservation. Certificates were distributed to all participants, and Shri Sukhnandan Tyagi, Principal, Ram Sahay Inter College, extended gratitude to attendees.

World Engineering Day for Sustainable Development Date: 04-03-2024



On March 4th 2024, A webinar was held to celebrate World Engineering Day, chaired by Er. R.P. Agrawal, Chairman, and co- chaired by Honorary Secretary Er. S.C. Mittal. The online event was convened by Er. Nikhil Kishore Joint, Secretary with three keynote speakers: Ms. Nidhi Bhatia, Asstt. Professor, Er. Ashutosh Mishra Asstt. Professor at SCRIET Meerut; and Er. S.C. Mittal himself.

The event commenced with Er. Nikhil Kishore providing insights into the significance of World Engineering Day emphasizing its role to highlight engineering contributions to sustainable development. He elaborated on UNESCO’s proclamation of this day during its 40th General Conference in 2019, marking it as an international celebration of engineers and engineering since 2020. The theme for this year, as set by UNESCO, was “Engineering Solutions for a Sustainable World.”

Ms. Nidhi Bhatia delivered a keynote address focusing on the essence and necessity of sustainable development. She discussed various measures required to build a sustainable world, including the promotion of renewable energy, waste reduction, water conservation, sustainable agriculture, and eco-friendly transportation. Highlighting state-of-the-art engineering solutions such as solar panels, green buildings, wind turbines, LED lighting, electric vehicles, and desalination technologies. She also outlined policies of Indian government towards sustainable development.

Er. S.C. Mittal, in his address, elaborated on energy conservation methods, illustrating them through anecdotes. He emphasized that engineers can leverage emerging technologies such as artificial intelligence, machine learning, and the Internet of Things to optimize resource utilization, improve environmental monitoring, and enhance the efficiency of our infrastructure systems. By harnessing the power of data and analytics, we can make informed decisions, identify areas for improvement, and optimize the performance of our systems in real-time, Er. Mittal stated.

In conclusion, Er. Mittal said, the pursuit of a sustainable world requires a concerted effort from all sectors of society, with engineers playing a central role in driving innovation, implementing solutions, and shaping the future of our planet. By harnessing the power of renewable energy, embracing principles of sustainable design, and leveraging technology to address environmental challenges, with it. Together, let us embark on this transformative journey towards a more sustainable and equitable future for all. The importance of adopting engineering solutions of energy conservation and sustainable development, concluding with suggestions for future endeavors.

Er. Ashutosh Mishra, an expert in Agricultural Engineering, discussed the necessity of transitioning from traditional energy sources to non-conventional ones like solar, wind and biogas. He proposed the development of systems promoting the use of these energies and suggested innovative measures such as Artificial Intelligence-based irrigation systems and solar-operated agricultural equipment.

The webinar concluded with Er. Nikhil Kishore expressing gratitude to all speakers and attendees. Suggestions for future engineering solutions, including drone-operated agricultural systems, were

also discussed. Er. S.C. Mittal on behalf of all engineers of Local Centre of Institution of Engineers Meerut extended thanks to all participants, making the end of the event.

World Water Day Date: 22-03-2024



On March 22, 2024, the local unit of the Meerut Centre of the Institution of Engineers organized a World Water Day program chaired by Er. RP Agrawal. Er. Jagmal Singh convened the event by introducing the speakers and highlighting the significance of raising awareness about the diminishing water resources globally.

Er. SC Mittal, in his address, emphasized the intricate dynamics surrounding international river basins, highlighting that 145 countries share territory within such basins, and 25 countries are entirely located within them. He expressed concerns about the escalating disputes over water resources among nations. However, amidst these challenges, Mittal cited Israel as an exemplary case of innovative water management, particularly in desalinating seawater to meet drinking water demands. This served as an illustration of the potential of human ingenuity and collaborative efforts in addressing water scarcity. He concluded by envisioning a future where everyone has access to clean water, fostering peace in abundance.

Dr. Rup Narayan, a Professor of Ecology at CCS University, Meerut, served as the keynote speaker. He discussed the global initiative led by the UN since 1993 to raise awareness about shrinking water availability. Highlighting the theme of "Water for Peace" for 2024, Narayan underscored the growing concern over conflicts arising from competing interests in water sources. He also outlined various initiatives, including drip irrigation, piped water supply, and India's Jal Shakti mission, aimed at addressing challenges posed by climate change and water scarcity.

Narayan emphasized the urgent need for awareness on prudent water usage, given the degradation of both surface and underground water due to pollution, industrialization, and urbanization. He warned about the alarming decline in per capita water availability projected for 2025 and 2050, stressing the importance of concerted efforts to mitigate water scarcity.

B. Lecture Meeting:

By Dr. S.A. Rizvi on 19-11-2023

Dr. S.A. Rizvi, Workshop Superintendent at Jamia Milli Islamia, New Delhi, delivered an insightful lecture on the utility of Electric Vehicles (EVs) in mitigating greenhouse emissions and reducing dependency on oil reserves. Dr. Rizvi elaborated on the categories of EVs and their environmental advantages, engaging members with a comprehensive discussion. Er. S.C. Mittal, Hony. Secretary, expressed appreciation for the enlightening session and concluded with a vote of thanks.

By Er. Shiv Kumar on 04-02-2024



Er. R.P. Agrawal, Chairman of IEI, LC Meerut welcomed all members present. Er. S.C. Mittal Hony. Secretary introduced the key note speaker Er. Shiv Kumar, who is working in D.N. Polytechnic, Meerut.

The **Internet of Things (IoT)** provides the ability to interconnect computing devices, mechanical machines, objects, animals or people with unique identifiers and to transfer data across a network without the need for human-to-human or human-to-computer interaction. IoT applications bring a lot of value to our lives. The Internet of Things provides objects, computing

devices, or unique identifiers and people the ability to transfer data over a network without human-to-human or human-to-computer interaction.

IoT is a platform where embedded devices are connected to the Internet to **collect** and **exchange** data. It enables machines to **interact**, **collaborate** and **learn** from experiences like humans. IoT



applications equipped billions of objects with **connectivity** and **intelligence**

Benefits of the Internet of Things

- **Automation-** Removing the need to perform mundane tasks like turning the thermostat on and off or locking doors increases efficiency and quality of life.
- **Conservation-** Automation makes it easier to manage energy consumption and water usage without human oversight or error.
- **Big data analytics-** Information that was previously difficult to collect and analyse can be tracked effortlessly with the Internet of Things.

In the end Er. S.C. Mittal Hony. Secretary gave vote of thanks to all the members.

C. Other Activities:

1. Republic Day Celebration: Republic Day was celebrated on January 26, 2024, at the IEI Office, marking the spirit of national pride and unity.



The Institution of Engineers (India)

An ISO 9001:2015 Certified Organisation
8 GOKHALE ROAD, KOLKATA 700 020

Know Your Member (KYM) Application Form

1. Membership No: _____

A. MEMBER DETAILS:

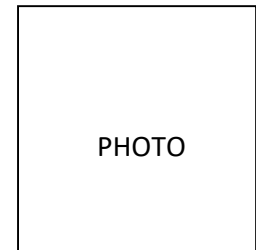
2. NAME: _____
(IN BLOCK LETTERS)

3. AADHAR Card No.: _____

4. Mobile: _____

5. Email: _____

6. Date of Birth (dd/mm/yyyy): _____



B. ADDRESS:

PIN: _____

C. EDUCATIONAL QUALIFICATION:

Name of Examination Passed (BE/ B.Tech or equivalent/ ME/ M.Tech/ Post-Graduate Diploma/ PhD)	Year	Branch of Engineering (Civil, Electrical etc)	Examining Authority (University, etc)	Mode of Qualification (Regular/Distance/ Part-Time)

D. OCCUPATION:

Occupation: _____

Specialization: _____

E. DECLARATION:

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief. In case any of the above information is found to be false or untrue, misleading or misrepresenting, I am aware that I may be held liable for it. I hereby give my full consent to include my name and contact information as they are now or may be altered hereafter in all the directories/lists of members as deemed fit by the Institution.

DATE:

PLACE:

Full Signature of the Applicant

Tick the Check list below for Document Attached. The list acceptable documents are given as per enclosure:

1. Self-attested copy of Photo ID / Member's Identity: []
2. Self-attested copy of DOB : []
3. Self-attested copy of Address proof: []
4. Self-attested copy of Aadhar Card (if applicable)

LIST OF ACCEPTED DOCUMENTS WITH KYM

- For Photo-ID / member's identifier
 - ✓ PAN
 - ✓ Addhar
 - ✓ Voter Card
 - ✓ Passport
 - ✓ Photo ID – Card issued by IEI
 - ✓ Photo ID-Card issued by current employer
 - ✓ Any Photo-ID card issued by State/ Central Govt. / PSUs/ Autonomous bodies
- For Date of Birth
 - ✓ Aadhar
 - ✓ PAN Card
 - ✓ Birth Certificate
 - ✓ Affidavit before Judicial /Executive Magistrate
 - ✓ Letter from current employer mentioning DOB

- ✓ Passport
- ✓ Admit Card / Certificate of Schoolleaving/Matriculation exam recognised
educational board having DOB mentioned
- ✓ Any other document issued by State/Central Govt / Local mentioning the DOB

The Institution of Engineers (India)

दी इन्स्टीट्यूशन ऑफ़ इंजीनियर्स (इंडिया)

(Established 1920, Incorporated by Royal Charter 1935)

Meerut Local Centre, A-12, Suryanagar, 1st Floor, Behind LIC Saket, Meerut-250001.



Phone: 0121-4051456

E-mail : meerutlc@ieindia.org

Web: IEIMEERUT.ORG.IN

Ref. No. MLC 295

Date : 08-04-2024

“103Years of Relentless Journey towards Engineering Advancement for Nation Build”

Dear Esteemed Members,

I extend warm greetings to all of you on the occasion of the Hindu New Year, Eid, and Navratri. May these auspicious occasions bring joy, prosperity, and blessings to you and your families.

As we approach the upcoming elections, it is crucial to recognize the power vested in each of us as citizens. The formation of the government is not merely a political event but a reflection of our collective will. Let us not underestimate the significance of our vote – it is the cornerstone of democracy. Remember, every vote counts, and it is our responsibility to exercise this right diligently. I urge you all to ensure your voter information is up to date, including your address, to facilitate a smooth voting process.

Unfortunately, due to financial constraints, we are unable to organize a family gathering for all our members this year. However, we value your opinions and suggestions. If any member has ideas on how we can foster community engagement within our means, we welcome your input.

Attached to this bulletin is a Know Your Member (KYM) form. Kindly take a moment to fill it out and return it to the office of the Local Centre of the Institution of Engineers India at your earliest convenience. Your participation in this will greatly assist us in better serving your needs and interests.

Furthermore, we have received directives to enhance the membership of the Institution of Engineers India. An advertisement addressing this has been included for your reference. I

encourage each of you to advocate for membership and contribute towards strengthening our community.

In conclusion, I urge you to actively engage in the technical activities organized by the Institution of Engineers. It is through collaboration and skill advancement that we can contribute to the future development of our nation. Let us work together towards the ambitious goal of making India the third-largest economy and a developed nation by 2047.

Thank you for your attention, participation, and continued support.

Warm regards,

Subhash Chandra Mittal
Honorary Secretary
Local Centre of the Institution of Engineers India

Editorial Board

Chairman:

**Er. R.P. Agrawal, FIE
(M 7417618318)**

Hony. Secretary:

**Er. S.C. Mittal, FIE
(M) 8218649166**