



The Institution of Engineers (India)

BAREILLY LOCAL CENTRE

House No. 270, Camphor Estate Colony, Rampur Road, C.B. Ganj, Bareilly (U.P.) - 243502

"99 Years of Relentless Journey Towards Engineering Advancement for Nation Building"

◆ Email: bareillylc@ieindia.org, ieiblylc@gmail.com ◆ Phone : 919634953691

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NEWS BULLETIN

IEI, Bareilly Local Centre
January - 2019

Chairman
Er. Subhash Mehra, FIE

Honorary Secretary
Prof. (Dr.) Pankaj Sharma, FIE

Editorial Board
Er. Sudhir Gupta, FIE
(Chief Editor)

Er. N.C. Afri, FIE
(Editor)

"Happy New Year - 2019"

FROM CHAIRMAN'S DESK...



At the outset I wish you all a very happy and prosperous New Year 2019. Best wishes and season greetings.

We have been regularly organizing various Technical Activities including Lectures, Seminars, National Seminar, Technical Quiz and Statutory days etc. with active participation of all Committee Members and a good number of corporate members from entire geographical area of Bareilly Local Centre. We have successfully conducted AMIE Section A (Diploma) Winter Examination 2018.

I would like to extend my special thanks to Shri Dev Murti, Chairman of SRMSCET, Bareilly, Dr. Umesh Gautam, Chancellor, Invertis University, Shri Rajendra Kumar Agarwal, Chairman, RMIT, Dr. Saket Agarwal, Dean, RMIT, Dr. P.P. Singh, Dean Invertis, Er. Sudhir Gupta, Er. K. B. Agarwal and Prof. (Dr.) Pankaj Sharma for successfully conducting all above activities.

I assure you that we will continue with good work and keep up the image made by all past Chairmen / Committees and to take IEI, Bareilly Local Centre to greater heights.

(Er. Subhash Mehra, FIE)

From Honorary Secretary's Desk...



The members are always the strength-soul and backbone of any organization. To communicate effectively with the Members is the key to grow and accomplishment of Institutional Goals. With this thoughts Bareilly Local Centre is happy to bring out this issue of 'News Bulletin' covering various facets of Centre's activities for members' information.

Organizing Technical activities like Lecture, Workshops, Seminar, Conferences, and Celebration of Statutory Days are the means of spreading knowledge and enhancing role of the Institution in the society. We have always ensured participation of every members of Executive Committee in all activities like Membership growth, student affairs, suggesting Technical Books / Journal, Programs and Finance etc.

In order to have better interaction and involvement of members in different areas we wish to hold programs in different places within Jurisdiction of IEI, Bareilly Local Centre, Bareilly.

I request all Corporate, Technician, students and other Members to suggest the improvement or any other activity so as to enhance our role and reach of the Institution.

We have taken utmost care and put in sincere efforts to prepare a report on various activities undertaken and future plans which are included in various sections of the News Bulletin.

Wishing you all a very happy and Prosperous New Year 2019.

Prof. (Dr.) Pankaj Sharma, FIE

OUR NEW PRESIDENT ER. T M GUNARAJA

**President, The Institution of Engineers (India)
for the session 2018-2019**



The status of engineering profession in India became a matter of great importance during 1916-18 and it received public prominence in the Report of the Industrial Commission. There were endeavours to advance an industrial society to safeguard and assure the status of the profession. Sustained efforts by a group of Indian and British Engineers brought "The Institution of Engineers (India)" (IEI) into being and it was registered on September 13, 1920. As of date, there are 123 State and Local Centres and 6 overseas chapters with a membership strength of more than 8 lakhs out of which more than 2 lakhs are Corporate members. IEI has bilateral relationship with 33 sister professional societies of international repute and member of important global engineering bodies.

The strong and consistent economic growth of our country has raised expectations. Fulfilling these expectations is a real challenge and this will be the core concern in the performance of our engineering fraternity. IEI has been playing an active role in this direction as the AMIE alumni from this Institution are skilled and experienced in their respective discipline of engineering. IEI has rigorous set of norms and very high standards in the planning and conduct of its examination system.

Being recognized by the Ministry of Science and Technology, Govt. of India as a Scientific and Industrial Research Organization, The Institution of Engineers (India) has taken up promotion of R&D through funding and active participation, either in solo or joint mode, with identified organizations and several resultant research works have been published in the SCOPUS indexed IEI-Springer journals.

I invite you all to join, assist and support us in all our endeavours to serve the nation so that IEI becomes a prime mover in the field of Science and Technology.

Jai Hind

The Institution of Engineers (India)

UTTAR PRADESH STATE CENTRE,
Engineers Bhawan River Bank Colony,
Lucknow-226018
Website: www.ieiup.or.in,
Email: upsc@ieindia.org, Ph. 0522-2625322

NEW CHAIRMAN / HONORARY SECRETARY FOR SESSION 2019-21



Chairman
Er. R. K. Trivedi, FIE
703 Empire Estate Tower
Omexe Heights, Vibhuti Khand
Gomti Nagar, Lucknow-226010
Mobile : +91 9415900252
Email : Rajeshtrivedi4@gmail.com



Honorary Secretary
Er P. K. Chaurasia, FIE
2/246 Vikas Khand
Gomti Nagar,
Lucknow(u.p.)-226010
Mobile : +91 9451244670, +91 9454042724
Email : Prabhatkiranchaurasia@gmail.com

TECHNICAL ACTIVITIES DURING THE 3RD QUARTER (2018-19)

SIGNIFICANT EXCERPTS:

**INNOVATION EXPO – 2K18 On "Various Technical Exhibits
– Operational Models & Conceptual Software"
at INVERTIS UNIVERSITY, BAREILLY
on September 14th - 15th, 2018**



View of Dias

There are seventeen Engineering Colleges are situated in Bareilly & Moradabad Commissioneries. As such there is no interaction & one to one contact amongst their students and faculty members.

To initiate the interaction between the concerned persons of various Institutes and Engineering Colleges at every level, it was thought that some Technical activity should be organized so as to provide the opportunity to assemble student & faculty members on a common platform. This idea of organizing Innovation Expo 2K18 would not only enhance the interaction but also harness inculcation of sense of competitiveness in the Students so as to improve their quality & ultimately their personality development. There were forty entries in the expo.



A view of participants

Congratulations for winning:

**1st Prize (Rs. 5000/-) in the INNOVATION EXPO – 2018
project titled "MULTIPURPOSE CART" from SMRMS (IM)**

1. Saurabh Tiwari – ME – 17
2. Deepak Patel – ME – 17
3. Archit Arora – ME – 17,



A view of participants busy with their gadgets

Technical Seminar started with the welcome address by Er. Subhash Mehra, FIE, Chairman, IEI, Bareilly Local Centre and told that The world is moving to information driven society. Broadband connectivity has become so common that now we have a connected world, thanks to the advancements in communication technologies.



Chairman, Er. Subhash Mehra, FIE, presenting Inaugural words on Technical Seminar

Technical Seminar started with the presentation by:

- a. Er. B.R. Dutta, FIE, Dean Academy, ANA College, Bareilly delivered his views on “Digital Transformation – A new Industrial Revolution”. He told that Digital transformation is the key for Industrial Revolution 4.0. While the western countries are largely adopting fourth IR, India is now gearing up. With 4IR, we are talking about integration of technologies, which is expected to transform the society in the way it interacts with various stakeholders. Collaboration is the key. Bigger companies may go for acquisitions/mergers to complement or supplement their capabilities.
- b. Er. Hemant Yadav, MIE, Business & Entrepreneurs Bareilly. He deliberated on the topic “Digital Transformation – A new Industrial Revolution”.

Er. K.B. Agarwal, FIE, Er. S.K. Gupta, FIE, Er. R. K. Agarwal, MIE, Mr. Vishal Sharma & Mr. Shivang Gupta, Er. Shivanshu Pathak, DY. Manager (Inst.) Kribhco Fertilizer Ltd. Shahjanapur, Students of Invertis University and others also shared the views and experience on the theme.

All the speakers were honoured by presenting the 'Mementoes' & Certificates by Chief Guest, Chairman, Honorary Secretary and others eminent engineers.



Chairman & Honorary Secretary presenting memento to Er. Rajeev Swami, SE, PWD, Bareilly

**2nd prize (Rs.3000/-) project titled “TIMBER MERCHANT”
Invertis University, Bareilly**

1. Akansha Mittal - (CS)
2. Ayushi Singh - (CS)

**3rd prize (Rs.2000/-) project titled “SMART BLIND STICK”
from SMRMS (IM)**

3. Ankit Haseeja - EC-17
4. Varun Saxena - EC-17
5. Pratyush Sinha - EC-17
6. Faiz Beg - EC-17

**51st Engineers' Day (Technical Seminar)
on 15th September, 2018 on theme
“Digital Transformation – A new Industrial Revolution”
at Auditorium, Invertis University, Bareilly**



View of Dias

The 51st Engineers' Day was celebrated by Bareilly local centre with great enthusiasm by all Engineers attached to Centre.

A Technical Seminar on the Theme “Digital Transformation – A new Industrial Revolution” was organized at Auditorium, Invertis University, Bareilly.

Er. R. K. Chopra, FIE, Vice President, Kribhco Fertilizer, Shahjahanpur, was the Chief Guest & Guest of Honour Er. Rajeev Swami, SE, PWD, Bareilly were welcomed by the Chairman, Honorary Secretary and other dignitaries, by presenting bouquets and 'Mementos' to them.

**51st Engineers' Day (Cultural Evening)
on 15th September, 2018 at Auditorium,
Invertis University, Bareilly.**



Eminent Engineers presenting memento to Er. S.K. Saxena, Chief Engineer, UPPCL, Bareilly & Er. G.K. Gautam, ED, IFFCO, Aonla, Bareilly

The evening session of 51st Engineers' Day was celebrated at Auditorium, Invertis University, Bareilly with great enthusiasm by engineering fraternity.



Release of Souvenir – "SRISHTI"

Er. S.K. Saxena, Chief Engineer, UPPCL, Bareilly Chief Guest and Er. G.K. Gautam, ED, IFFCO, Aonla, Bareilly, Guest of Honour were welcomed by the Chairman, Honorary Secretary and other



Felicitations of Super Senior Engineers

dignitaries, by presenting them bouquets and Mementos.

Programme started with the welcome address by Er. Subhash Mehra, FIE, Chairman, IEI, Bareilly Local Centre.

The 'Cultural Programme' was inaugurated by the Chief Guest, Chairman, Honorary Secretary, and other VIP's by lighting the lamp and garlanding of 'Sir Mokshgundam Visvesvaraya's' portrait.

Bareilly Local Centre, IEI souvenir 'SRISHTI' for 51st Engineers'



Cultural Programme

Day 2018 was released by the Chief Guest and other dignitaries.

All the 'Super Senior Engineers were felicitated with 'Shawl & mementoes' by Chief Guest.

The programme was organized by Er. S.K.Gupta, FIE & Er. N.C. Atri, FIE. All these programmes were enjoyed and applauded by the fully packed auditorium, which included about 350 nos. of Engineers & their family members and around 500 students.



Cultural Programme

The stage was handed over to Invertis Students, Bareilly for presenting Cultural programme. It started with 'Shri Ganesh Vandana' and followed by various entertaining programmes included folk dances, solo dances by Children, Drama and various Melodious songs including a dance by senior engineers with spouse.

The cultural programme ended with vote of thanks by Dr. Pankaj Sharma, FIE, Honorary Secretary, thanking the Chief Guest, Guest of Honour, VIPs, all participants and audience from various departments, Industries, Institutions, Chairman Er. Subuash Mehra, FIE and Engineer's Day Organizer Er. Sudhir Gupta, FIE.

All the artists of the cultural program were honoured with token gifts.



Cultural Program

One Day Seminar on 25th September, 2018 on Theme "Acoustic and Wireless Sensor" at Rajshree Institute of Management and Technology (RIMT), Bareilly :



View of Dias

The seminar on "Acoustic and Wireless Sensor" started at 10:00 AM with the inaugural session in the presence of Er. K. B. Agarwal, FIE, Founder Chairman, IEI, BLC, Er. Subhash Mehra, FIE, Chairman IEI, BLC, Bareilly, Prof. (Dr.) Pankaj Sharma, FIE, Honorary Secretary, IEI BLC, Bareilly, Er. N.C. Atri, FIE, Er. B.S. Bajwa, MIE, Dean Academics Er. Saket Agarwal, RIMT, Bareilly, Er. Harshit Vershney, (HOD, ETDB), various HODs & faculty members and students of RIMT Bareilly.

After the welcome address by Chairmen IEI, BLC, Bareilly Er. Subhash Mehra, FIE seminar convener Dr. Anil Kumar, Director, RIMT, Bareilly introduced the objective and theme of the seminar. Followed by this, Er. Rajat Chaudhary a keynote address about technical advancement in the area of wireless sensor. Later Corporate Members, faculty members and students for such activities and emphasized on the benefits of such kind of technical activities. He also gave his best wishes and support for this programme.

1. Er. Rajat Chaudhary, Plutox Pvt. Ltd., Keynote speaker, delivered his presentation on "Wireless Sensor Networks"
2. Er. K B Agarwal, FIE, Founder Chairman, where he discussed that Wireless sensors are standard measurement tools equipped with transmitters to convert signals from process control instruments into a radio transmission.



Er. Rajat Chaudhary, Plutox Pvt. Ltd. Delivering keynote address

3. Prof. (Dr.) Pankaj Sharma, FIE, Honorary Secretary, IEI, BLC, had given his talk on theme Acoustic and Wireless Sensors refers to a group of spatially dispersed and dedicated sensors for monitoring and

recording the physical conditions of the environment and organizing the collected data at a central location.

4. Er. Vineet Choudhary, DSPL INDIA Pvt.Ltd, Moradabad, gave his presentation on the topic 'Wireless Sensor Networks'. He explained Designed for sensor networks where an end-user wants to remotely monitor the environment.

All the speakers were honoured by presenting the 'Certificate' by the Chairman, Secretary and others eminent Engineers, IEI, Bareilly Local Centre, Bareilly.

World Habitat Day on 1st October, 2018 on theme 'MUNICIPAL SOLID WASTE MANAGEMENT' at Rajshree Institute of Management & Technology, Bareilly:

World Habitat Day on the theme "Municipal Solid Waste Management" was organized at Centre from 11:00 AM onwards

It was started with the Welcome Address by Er. Subhash Mehra, Chairman, Bareilly Local Centre.

The proceedings of World Habitat Day were conducted and the theme read by Dr. Pankaj Sharma, FIE, Honorary Secretary, Bareilly Local Centre, Bareilly.

Er. S.C. Sundrani, Past Chairman, IEI, Bareilly Local Centre was the Guest of Honour for this function.

Following speakers & Students presented their papers and Models on the World Habitat Day 2018's theme, along with practical examples, which were applauded whole heartedly by the audience:



View of Dias

Dr. Anil Kumar, Director, RMIT, Bareilly explained the topic Municipal Solid Waste Management.



A view of the seminar in progress

Er. S.C. Sundrani, FIE, Past Chairman, IEI, Bareilly , who expressed that the new city of Abuja provided an opportunity to avoid some of the environmental problems associated with other major

cities in Africa. The current status of solid waste management in Abuja has been reviewed and recommendations for improvements are made.

Dr. Pankaj Sharma, FIE, Honorary Secretary, Bareilly Local Centre, Bareilly's described on this topic that Municipal solid waste management (MSWM) is one of the major environmental problems of Indian cities. Improper management of municipal solid waste (MSW) causes hazards to inhabitants.

Dr. Saket Agarwal, Er. N.C. Atri, Er. B.S. Bajwa, Dr. Mukesh Gangwar and faculty / Students of RMIT, Bareilly also shared their views and experiences on the theme.

All participants took oath of 'Swachh Bharat Abhiyan' on this day.

Dr. Pankaj Sharma, FIE, Honorary Secretary of Bareilly local centre gave Vote of thanks to all speakers and all participants, for sparing their valuable time and making the World Habitat Day 2018 a grand success.

International Standards are required. India has taken the next step in shaping the future of emerging technology policy with the new Centre for the Fourth Industrial Revolution launched today in India by Prime Minister under World Economic Forum, the International Organization for Public-Private Cooperation.

Er. S. K. Gupta, FIE, I.P.Honorary Secretary, Bareilly Local



Er.Sovan Mohanty giving a presentation on World Standards Day -2018.

Centre, IEI, Bareilly. He gave some views that the global network of Centre for the Fourth Industrial Revolution brings together governments, leading companies, civil society and experts from around the world to co-design and pilot innovative approaches to the policy and governance of technology. Its vision is to shape the development and use of technology in ways that maximize the benefits and minimize the risks. The network will develop, implement and scale up agile and human-centred pilot projects that can be adopted by policy-makers, legislators and regulators worldwide.

A galaxy of speakers was present to express their views during the Seminar organized on 14th October, 2018 at Centre, BLC, IEI, Bareilly, as listed:

1. Er. S. P. Vaish, FIE
2. Er. Sovan Mohanty
3. Er. Zafar Naim Khan, FIE
4. Dr. P.P. Singh, Dean Invertis University, Bareilly
5. Er. H. C. Gupta, FIE
6. Er. N. C. Atri, FIE, also shared their views and experiences on the theme.

World Standards Day on 14th October, 2018 on theme 'International Standards and the Fourth Industrial Revolution' at The premises of Bareilly Local Centre:

World Standards Day on the theme “International Standards and the Forth Industrial Revolution” was organized at the Committee Hall of Bareilly Local Centre, IEI.

It was started with welcome address by Er. Subhash Mehra FIE, Chairman IEI, Bareilly Local Centre Dr. Pankaj Kumar Sharma, FIE, introduced the Theme as received from Head Quarter.



Chairman, Er. Subhash Mehra, FIE, delivering inaugural address on World Standards Day -2018.

The Seminar on this Statutory Day started with the inaugural address by Er. Subhash Mehra, FIE, Chairman, IEI, Bareilly Local Centre, Bareilly who introduced the theme of the day as received from Head Quarter and gave various tips and said that The Forth Industrial Revolution is well underway in India – many people just haven't realized it yet. Entrepreneurs, CEOs, company founders and start-ups are rapidly adopting technologies involving Artificial Intelligence, the Internet of Things (IoT), 3D-printing, advanced Robotics and Neurosciences. Quietly and with firm resolve, visionary leadership in Indian industry is bringing the country into the arc of progress sweeping the world. International Standards are coping with Fourth Industrial Revolution.

Er. K.B. Agarwal, FIE, Founder Chairman, IEI, BLC, Bareilly was of opinion that in Fourth Industrial Revolution Dynamic

One Day Workshop on 26th October, 2018 on “Cyber Security Issues and Challenges in Digital India” at Rajshree Institute of Management and Technology (RIMT), Bareilly

The One Day Workshop on “Cyber Security Issues and Challenges in Digital India” was Organized at Rajshree Institute of Management and Technology, Bareilly.

The Seminar started with inaugural words by Er. Subhash Mehra, FIE, Chairman, IEI, BLC, Bareilly, who introduced the theme of the day “Cyber Security Issues and Challenges in Digital India” also enlightens students with his vast knowledge.



View of Dias

On this Workshop Prof. Dr. S.S Bedi, IET, MJP Rohilkhand University, Bareilly was the chief guest. His specialization is in cyber security field. He gave the important information on Mobile Hacking



Prof. Dr. Pankaj Sharma, FIE, Honorary Secretary, IEI, BLC, Bareilly conducting the Workshop.

and social Network threats and also its prevention and also said there are no. of issues in cyber security that are challenging and industry threats are getting bigger so this field needs more expertise and manpower to have any hope of fighting the threats with any effectiveness.



Group Photo

Prof. Dr. Anil Kumar, Director Academics, RIMT, Bareilly gave a presentation on topic 'Digital India needs a Cyber Security Reboot'. He explained that the Indian government has embarked on a programme to turn the country into a digital economy. It has unveiled

a series of initiatives—from introducing Digital Locker, which eliminates the need for people to carry hard copies of documents issued by the government, to demonetization, which has spurred the use of digital payments across the country.

Prof. Dr. Pankaj Sharma, FIE, Honorary Secretary, IEI, BLC, Bareilly delivered his lecture on 'Security in the age of Digital India' wherein, he explained that the integrated digital footprint created by Digital India and Smart Cities is likely to bring formidable and increasing demand on resources to defend against the multiplying threat levels and entry points.

Ravi Pratap Singh B.Tech CSE second year student gave live demonstration on Mobile Hacking. Many students of B.Tech Computer Science and Engineering had shown various cyber security attacks and its prevention with the help of poster presentation.

This workshop was organized by Computer Science and Engineering Department. Head Computer Science and Engineering department, Mrs. Jyoti Agarwal gave the vote of thanks. Mr. Ankur Bhatnagar, Mr. Ashish Saxena, Ms. Neha Agarwal, Mrs. Sangeeta Lalwani and Mrs. Anu saxena gave the sincere efforts for making this event successful.

One Day Workshop on 27th October, 2018 on Theme "Anroid Botix: Brainwave Controlled Robotics" at Invertis University, Bareilly

One Day Workshop on the theme "Anroid Botix: Brainwave Controlled Robotics" was organized by Bareilly Local Centre at Invertis University Bareilly from 10.30 AM to 03:00 PM.

The seminar was conducted by Er. Suhail Javed Quraishi, CEO, I-Tech, Asst. Professor, Invertis University, Bareilly.



Chairman, Er. Subhash Mehra, FIE, delivering inaugural words on One Day Workshop

The seminar was inaugurated by garlanding the portrait of 'MAA SARASWATI' and lightening of lamp by eminent Engineers.

The seminar started with inaugural words by Er. Subhash Mehra, FIE, Chairman IEI, Bareilly local Centre, who introduced the theme of the day "Anroid Botix: Brainwave Controlled Robotics" and presented several ideas.

With this, we started with the technical sessions. Sessions were proceeded by:

1. Er. K B Agarwal, FIE, Founder Chairman, where he discussed that Robotics is a mixture of electronics and movable parts, motors and accessories. Nevon Projects provides the widest range of robotics projects for engineering students, researchers, beginners & engineers.

2. Er. Sudhir Gupta, FIE, IP Honorary Secretary, IEI, BLC, had given his talk on theme 'Brainwave Controlled Robotics'. He explained that Robots are used to assist the disabled, but severely disabled patients cannot convey their messages to these interfaces. The Brain Computer Interface (BCI) and Electroencephalography (EEG) is used to address this challenge. BCI plays a role of acting as an interface between the physical devices and the human brain. It likewise translates the different brain activity patterns into commands. With these instructions the robotic module can be controlled. These interactions between millions of neurons in the human brain are represented as functions of emotions and thoughts.

The second session was started at 2:00 PM with :

1. Mr. Manu Saxena, Invertis University, Bareilly delivered his Presentation on “ANDROID-BOTIX” wherein, he explained that Android application controlled robot, in which the controlling signals are given from Android Application. Robotics is a vast field with a number of applications.

2. Miss. Aisharya Jawa, gave presentation on the topic 'Brain Wave Robotics'. She explained that a human Brain being the most complicated computer in the world, studying its behaviour in different scenarios can lead to breakthroughs that transcend all fields of technology. Be it the Medical or Robotic applications, their possibilities are endless.

All the speakers were honoured by presenting the 'Certificate' by the Chairman and others eminent Engineers, IEI, Bareilly Local Centre, Bareilly.

Er. Suhail Javed Quraishi, CEO, I-Tech, Asst. Professor, Invertis University, Bareilly gave Vote of thanks to all speakers and all participants, for sparing their valuable time for One Day Technical Seminar a grand success.

**One Day Workshop on 26th November, 2018 on Theme
“Seismic Analysis, Design And Retrofitting of multi- story Buildings”
at Rajshree Institute of Management and Technology (RIMT), Bareilly**

The One Day Workshop on “Seismic Analysis, Design And Retrofitting of multi- story Buildings” was Organized at Rajshree Institute of Management and Technology, Bareilly from 10:30 AM to 02:30 PM .

Inaugural session was started by lightening of ceremonial lamp by all dignitaries present in the session and with Saraswati Vandana. After the welcome address by Chairmen IEI, BLC, Bareilly Er. Subhash Mehra, FIE Seminar Convener Er. Harishit Vershney, RIMT, Bareilly introduced the objective and theme of the seminar.

Followed by this, Dr. Rizwan Ahmed Khan, Department of Civil Engineering, Aligarh Muslim University, Aligarh a keynote address



Chairman Er. Subhash Mehra, FIE, Delivering inaugural words on One Day Workshop

about the theme. After this Corporate Members, faculty members and students for such activities and emphasized on the benefits of such kind of resourceful activities. He also gave his best wishes and support for this programme.

With this, we started with the technical sessions. Sessions were proceeded by:

1. Dr. Rizwan Ahmed Khan, Department of Civil Engineering, Aligarh Muslim University, Aligarh, U.P. delivered keynote address, on “Seismic Analyses, Design and Retrofitting Measures” wherein, He explained that a Seismic Retrofit provides existing structures with more resistance to seismic activity due to earthquakes. In buildings, this process typically includes strengthening weak connections found in roof to wall connections, continuity ties, shear walls and the roof diaphragm.



Dr. Rizwan Ahmed Khan, Department of Civil Engineering, Aligarh Muslim University, Aligarh, U.P. delivering keynote address

2. Mr. Rahul Vemra, RMIT, Bareilly, He delivered his presentation on “Seismic Rehabilitation of RC Structures- an Overview” wherein he explained that Reinforced concrete (RC) (also called reinforced cement concrete or RCC) is a composite material in which concrete's relatively low tensile strength and ductility are counteracted by the inclusion of reinforcement having higher tensile strength or ductility. The reinforcement is usually, though not necessarily, steel reinforcing bars and is usually embedded passively in the concrete before the concrete sets.

3. Mr. Harshit Varshney , RMIT, Bareilly. He delivering his presentation on “Retrofitting of concrete structures”. He explained that If the cracks are cyclically opening and closing, or progressively widening, structural repair becomes very complicated and is often

futile. Such cracking will simply reestablish in the repair material or adjacent concrete.

4. M/s Sameer Gupta, Rajshree Institute of Management & Technology, Bareilly. She delivered her presentation on "Earthquake Resistant Building designs" wherein, she explained that interestingly, much of the future of seismic engineering involves looking back, not forward. That's because retrofitting old buildings with improved designs and materials is just as important as constructing new buildings from scratch.

All the speakers were honoured by presenting the 'Certificate' by the Chairman, Secretary and others eminent Engineers, IEI, Bareilly Local Centre, Bareilly.

National Energy Conservation Day on 14th December, 2018 at The premises of Bareilly Local Centre:

Statutory Day 'National Energy Conservation Day' Scheduled on December 14th 2018 was celebrated as Lecture Series on this topic.

The proceeding of Energy Conservation Day was conducted by Er. Sudhir Gupta, IP Honorary Secretary, IEI, Bareilly Local Centre.

The Lecture Series begin with inaugural words by Chairman Er. Subhash Mehra, FIE, IEI, Bareilly Local Centre, Bareilly who suggested that National energy conservation day in India is celebrated to make people aware about the importance of energy as well as saving or conserving more energy by using less energy. The exact means of energy conservation is using less energy by avoiding the unnecessary uses of energy.



Chairman, Er. Subhash Mehra, FIE, delivering inaugural words

Following speakers were expressed and their papers and experiences on Energy Conservation Day along with practical examples, which were applauded whole heartedly by the audience:

1. Er. K.B. Agarwal, FIE, described the topic that national energy conservation day is celebrated every year using particular theme of the year by keeping in mind some goals and objectives to make it effective all over the country among people. Some of the important goals are: 1. It is celebrated to send the message of importance of

conserving energy in the every walk of life among people. 2. Promote people for less energy usage by neglecting the excessive and wasteful uses etc.

2. S. C. Sundrani, FIE, Past Chairman, IEI, Bareilly Local Centre gave presentation of the topic that Each and every citizens of the India must be aware about how to use efficient energy, how to save the energy for their own future safety and many more ways.

3. Er. Sudhir Gupta, FIE, IP Honorary Secretary, IEI, Bareilly Local Centre explained that The worst mileage a vehicle can get zero, which occurs when it idles. Idling for long periods of time, whether at a railroad crossing or pulling off the road to make a cell phone call,



Er. S. C. Sundrani, FIE, Past Chairman, IEI BLC, giving a presentation on World Standards Day -2018

consumes gas that could be saved by simply turning off the engine. Restarting an engine uses the same amount of gas as idling for 30 seconds. When idling for longer periods of time, shut off the engine.

4. Er. Sovan Mohanty, Assistant Prof. SRMS, Bareilly. He gave presentation on the topic that Government is trying to focus on the Natural Energy Conservation and it is possible when every people make the proper mind to come together and think and work for saving the Natural Energy. It is possible to save much of the Natural Energy by many of the possible and simple ways like Turning off the Fans, A.C., Electronic items, Laptops, Adapters etc.

Er. Yespal Singh, Er. Inayat Hussain, AMIE, Er. S. K. Vish, MIE, Er. Ashish Kumar Agarwal, Er. Shailendra Deva, MIE and others also shared their views and experience on the topic.



Galaxy of participants attending Guest Lecture on 'World Energy Conservation Day-2018'.

MEMBERS' ACHIEVEMENTS

1. Er. Rajeev Agarwal, MIE - His team's dedicated efforts and timely adoption of skills ,his firm M/s Anmol Associates ranked third position among top five distributors in India which culminated into his invitation to attend the global meet at Tokyo in February 2019 by Castrol to present and share the business plan and innovation in helping the company to achieve the next year plans in country. Gross turnover of his company is touching new height of Rs. 50.Cr. and looking forward a double digit growth in next FY to meet the Industry norms. BravoRajeev . We are proud of you.

2. Er. K. B. Agarwal, FIE - Founder Chairman, IEI, Bareilly Local Centre - elected as Committee Member, The Institution of Engineers (India), UP State Centre, Lucknow for session 2019-21 in Mechanical Engineering Division. Great K B Agarwalwe wish to see you in HQ council in future. Congrats....

3. Er. Sudhir Gupta, FIE – added the dealership of Piaggio Vehicles Pvt. Ltd. to the bunch of his business ventures (Bharat Gas Distribution , Real Estate development and Industrial Consultancy) for two wheeler products viz. Vespa and Aprilia scooters. Good Sudhir ...Wish many more feathers in your cap.....

MEMBERS SPEAK.....

HOW TO BUILD HIGHLY EFFECTIVE TEAMS

Too often, teams are formed merely by gathering some people together and then hoping that those people somehow find a way to work together. Teams are most effective when carefully designed. To design, develop and support a highly effective team, use the following guidelines:

1. Set clear goals for the results to be produced by the team.

The goals should be designed to be “SMART.” This is an acronym for:

- **Specific** · **Measurable** · **Achievable**
- **Relevant and** · **Time-bound.**

As much as possible, include input from other members of the organization when designing and wording these goals. Goals might be, for example, “to produce a project report that includes a project plan, schedule and budget to develop and test a complete employee performance management system within the next year.” Write these goals down for eventual communication to and discussion with all team members.

2. Set clear objectives for measuring the ongoing effectiveness of the team.

The objectives, that together achieve the overall goals, should also be designed to be “SMART.” Objectives might be, for example, to a) to produce a draft of a project report during the first four weeks of team activities, and b) achieve Board-approval of the proposed performance management system during the next four weeks. Also, write these objectives down for eventual communication to and discussion with all team members.

3. Define a mechanism for clear and consistent communications among team members.

New leaders often assume that all group members know what the leaders know. Consistent communication is the most important trait of a successful group. Without communication, none of the other traits can occur.

4. Define a procedure for members to make decisions and solve problems.

Successful groups regularly encounter situations where they must

make decisions and solve problems in a highly effective manner. Too often, the group resorts to extended discussion until members become tired and frustrated and eventually just opt for any action at all, or they count on the same person who seems to voice the strongest opinions. Instead, successful groups:

- Document a procedure whereby the group can make decisions and ensure that all members are aware of the procedure.
- The procedure might specify that decisions are made, first by aiming for consensus within a certain time frame and if consensus is not achieved, then the group resorts to a majority vote.

5. Develop staffing procedures (recruiting, training, organizing, replacing).

Too often, group members are asked to join the group and somehow to “chip in.” Unfortunately, that approach creates “chips,” rather than valuable group members. Instead, if group members go through a somewhat organized, systematic process, then new members often believe that the group is well organized and that their role is very valuable in the group. Successful groups:

- Identify what roles and expertise are needed on the group in order to achieve the group's purpose and plans – they staff according to plans, not personalities.
- New group members go through a systematic process to join the group – they understand the group's purpose, their role, their next steps and where to get help.

6. Determine the membership of the group.

Consider the extent of expertise needed to achieve the goals, including areas of knowledge and skills. Include at least one person who has skills in facilitation and meeting management. Attempt to include sufficient diversity of values and perspectives to ensure robust ideas and discussion. A critical consideration is availability – members should have the time to attend every meeting and perform required tasks between meetings.

7. Determine time frames for starting and terminating the team, if applicable.

Now consider the expertise needed to achieve the goals of the team, and how long it might take to recruit and organize those resources. Write these times down for eventual communication to and discussion with all team members.

8. Determine the membership of the team.

What expertise might the team need to achieve the goals of the group? For example, an official authority to gather and allocate resources, or an expert in a certain technology. Always consider if the members will have the time and energy to actively participate in the team.

9. Assign the role of leader – to ensure systems and practices are followed.

The leader focuses on the systems and practices in the team, not on personalities of its members. For example, the leader makes sure that all team members: a) are successfully staffed, b) understand the purpose of the group and their role in it.

10. Assign role of communicator – communication is the life's blood of teams!

Communication is the most important trait of a successful team. It cannot be left to chance. Someone should be designated to ensure that all members receive regular communications about purpose, membership, roles and status. Communications should also be with people outside the team, especially those who make decisions or determine if the team is successful or not.

11. Identify needs for resources (training, materials, supplies, etc.).

Start from analysis of the purpose and goals. What is needed to achieve them? For example, members might benefit from a training that provides a brief overview of the typical stages of team development and includes packets of materials about the team's goals, structure and process to make decisions. Consider costs, such as trainers, consultants, room rental and office supplies. How will those funds be obtained and maintained?

12. Identify the costs to provide necessary resources for the team.

Consider costs, such as paying employees to attend the meeting, trainers, consultants, room rental and office supplies. Develop a budget that itemizes the costs associated with obtaining and supporting each of the resources. Get management approval of the budget.

13. Contact each team member.

Before the first meeting, invite each potential team member to be a part of the team. First, send him or her a memo, and then meet with each person individually. Communicate the goals of the project, why the person was selected, the benefit of the goals to the organization, the time frame for the team effort, and who will lead the team (at least initially). Invite the team member to the first meeting.

14. Early on, plan team building activities to support trust and working relationships.

Team building activities can include, for example, a retreat in which members introduce themselves, exercises in which members help each other solve a short problem or meet a specific and achievable goal, or an extended period in which members can voice their concerns and frustrations about their team assignments.

15. Carefully plan the first team meeting.

In the first meeting, review the goals of the team, why each member was selected, the benefit of the goals to the organization, the time frame for the team effort, who will lead the team (at least, initially), when the team might meet and where, and any changes that have occurred since the individual meetings. Have this information written down to hand out to each member. At the end of the meeting, ask each person to make a public commitment to the team effort.

16. Regularly monitor and report on status of team members toward achieving the goal.

It is amazing how often a team starts out with a carefully designed plan, but then abandons the plan once the initial implementation of the plan is underway. Sometimes if the plan is behind schedule, team members conclude that the project is not successful. Plans can change – just change them systematically with new dates and approval of the changes.

17. Support team meetings and the members' processes in the team.

At this point, it is critical that supervisors of team members remain available to provide support and resources as needed. The supervisor should regularly monitor team members' progress on achieving their goals. Provide ongoing encouragement and visibility to members. One of the most important forms of support a supervisor can provide is coordination with other supervisors to ensure that team members are freed up enough to attend meetings.

18. Regularly celebrate team members' accomplishments!

One of the best ways to avoid burnout is to regularly celebrate accomplishments. Otherwise, members can feel as if they are on treadmill that has no end. Keep your eye on small and recurring successes, not just the gold at the end of the rainbow.

ER. SUDHIR GUPTA, FIE

Engineers' Social Engineering



Shri Santosh Gangwar, MoS, GOI being presented a memento by office bearers of Bareilly Local Centre. Met him to seek a favor for allotment of Govt Land for BLC office.



BLC stalwarts honoring Dr. Umesh Gautam-Mayor, Bareilly who succeeded to fetch a help sponsoring entire event of Engineers' Day 2018.



BLC team felicitating Shri Virendra Kumar Singh-DM, Bareilly to pursue any future matter pertaining to BLC.

List of Newly enrolled Members Attached to IEL, Bareilly Local Centre during July to December - 2018

1. **Mr. Rajiv Kumar Agarwal, FIE (F-124153-9)**, Head Commercial –Mint, Kancor Ingredients Ltd., B-4-BS, Industrial Area- C.B. Ganj, Bareilly – UP- 243502, Mobile:9837180881, Email:r.agarwal@cancor.in.
2. **Mr. G. K. Gautam, FIE (F-1244740)**, Executive Director , IFFCO Aonla Unit P.O. : IFFCO Township, Mobile: 9412736650, Email: gkgautam@iffco.in
3. **MRASHOK KUMAR MITTAL, MIE (M-161948-3 EL)**, 51 UTSAV PART 2 MAHANAGAR BAREILLY UP 243006 Mob: 8077079879, Email: contact_id_mittal@yahoo.co.in.
4. **MR MOHD TARIQ KHAN, MIE (M-161828-2 CV)** AHMAD HOUSE, KATH DARWAZA, OPP FALAH DARAIN SCHOOL MORADABAD, UP, 244001, Mob: 9412248145, Email: mt_tkhan@yahoo.co.in.
5. **MR ARUN KUMAR, MIE (M-162401-0 MC)**, D-70, PAL POTHAN NAGAR, IFFCO TOWNSHIP AONLA, BAREILLY, UP, 243403, Mob: 9412451635, Email: arun_iffco@yahoo.co.in.
6. **MR MOHAMMAD MOHSIN KHAN, AMIE (AM181308-3 CV)**, MOHALLAKANTH ROAD, RAJU SARAYE, PO AMROHA, DIST J P NAGAR (AMROHA) UP, 244221, Mob: 8439129060, Email: mdmohsinkhan686@gmail.com.
7. **MR RAJ VEER SINGH, AMIE (AM181737-2 ET)**, S/O OMKAR SINGH, VILL/PO LOUNGPUR, TEH FARIDPUR BAREILLY UP, 243503 Mob: 9761988135, Email: rajveersingh012@gmail.com.
8. **MR VINIT SRIVASTAVA, AMIE (AM181774-7 EL)**, 1A UDDYAN PART 1, MAHANAGAR COLONY, PILIBHIT BYPASS ROAD BAREILLY, UP, 243006, Mob: 8800790431, Email: vinit.times@gmail.com.
9. **MS AKANKSHA AGARWAL, AMIE (AM181744-5 ET)**, 1A-156 BUDDHI VIHAR, DELHI ROAD, NEAR DHARAM KANTA, MORADABAD, U P, 244001, Mob: 9457694924, Email: akankshagupta.164@gmail.com
10. **MR AALISHAN, AMIE (AM181992-8 CV)**, JAIL ROAD BAGH, CHHOTAY SAHAB, NEAR MASJID AAKHOON SAHAB, RAMPUR, UP, 244901, Mob: 9557941966, Email: aalishan4june@gmail.com.
11. **MR ARUN KAUSHIK, AMIE (AM183243-6 ET)**, SHRI NIKUNJ KAUSHIK BHAWAN, NEAR VISHAL KANYA INTER COLLEGE, DEFENCE COLONY IZATNAGAR, BAREILLY, UP, 243002, Mob: 9917087454, Email: arunkaushik9992@gmail.com
12. **MR MOHD KASHIF, AMIE (AM183327-0 CV)**, SHOP NO 53 SEEMA ELECTRONIC, KOTHIWAL MARKET, OPP BUDHBAZAR CHOWK, BUDHBAZAR, UP, 244001, Mob: 9927351975, Email: mohd.kshf@gmail.com.

CONDUCTED AMIE SECTION A (DIPLOMA STREAM) WINTER 2018

The Institution of Engineers (India), Bareilly Local Centre conducted AMIE Section A (Diploma Stream) winter 2018 Examination successfully at Government Polytechnic, C.B. Ganj, Bareilly from 01st December, 2018 to 4th December, 2018.

The Examination was supervised by Er. Arun Kumar Agarwal, FIE (Officer-in-Charge) and Er. S. K. Vaish, MIE (Superintendent).

We congratulate them and extend our sincere thanks and gratitude for conducting the winter examination -2018 successfully.

If undelivered please return to :
 The Institution of Engineers (India)
 Bareilly Local Centre
 House No. 270, Camphor Estate Colony
 Rampur Road, C.B. Ganj, Bareilly (U.P.) - 243502
 Mob.: 9634953691
 E-mail : bareillylc@ieindia.org, ieiblylc@gmail.com



A Glimpse of AMIE Examinees engrossed in solving the question paper

FORTHCOMING EVENTS

1. **World Water Day on 22nd March, 2019**
2. **Tech Tazurba - 2k19** at Furture Institute of Management & Technology, Bareilly, at 08th February, 2019, (Followed by Lunch)
3. **All India Seminar** on February 15-16, 2019 at Rajshree Institute of Management and Technology, Bareilly theme “Recent Innovation and Challenges in Electronics Circuits, Technologies and its Applications (RICETA2019)”
4. **Technical Quiz-2k19**
PRELIMINARY : RAJSHREE INSTITUTE OF MANAGEMENT & TECHNOLOGY, BAREILLY, ON 11/02/2019 FROM 10 A.M. ONWARDS.
FINALE : SRMS COLLEGE OF ENGINEERING & TECHNLOGY, BAREILLY, ON 22/02/2019 FROM 10 A.M. ONWARDS.

.....From Editor’s Desk



Keeping in mind the fact that team building is a significant functionality in an organizational accomplishments, I authored and compiled a precise article on the subject which I am sure would be little helpful while operating in corporate environment. Inspired with the very thought , applying the team building concepts we achieved tremendous success in organising Engineers' day comprising of first time event and enthusiastically attended "INNOVATION EXPO" , "Technical Seminar" specifically with a keynote speaker and inauguration by ADG (UP Police) and vibrant and widely participated " Cultural Eve" involving individuals , forming subcommittees , committees , planning , executing and coordinating the entire event systematically and scientifically .In nut shell I would sum it up that it was a classic example of the article " Team building....." you just went through . The credit goes to the entire team of BLC for which my heart oozes to utterBravo....great ...good going. Why only one event , readers you would find that Bareilly Local center is making waves in many other areas viz. holding technical seminars , one day workshops , technical speeches , technical quizzes etc. successfully and day is not far off when the center will have its own building. I am sure you would find this edition of newsletter informative and useful. Would certainly await your feedback to improve upon.

Namaskaram.
Er. Sudhir Gupta , FIE.
 Chief Editor

To _____

