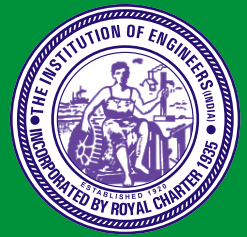




Estd. 1920



The Institution of Engineers (India)

BAREILLY LOCAL CENTRE

270, Camphor Estate Colony, Rampur Road, C.B. Ganj, Bareilly (U.P.) - 243502

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

♦ Email: bareillylc@ieindia.org, ieiblyc@gmail.com ♦ Phone : 919634953691

Vol. 9, Issue - 1st (2019-21)

NEWS BULLETIN

IEI, Bareilly Local Centre
January - 2020

Chairman

Er. Sudhir Kumar Gupta, FIE

Honorary Secretary

Er. Saheb Singh Verma, FIE

Chief Editor

Er. Hemant Yadav, MIE

Members

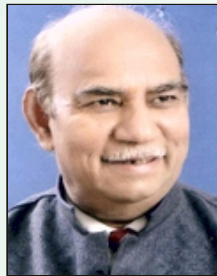
Er. K.B. Agarwal, FIE

Er. H.C. Gupta, FIE

Er. A.K. Mittal, MIE

Mrs. Chhavi Sharma, AMIE

Our New National President of The Institution of Engineers (India), Kolkata. Mr. Narendra Singh, FIE



Er Narendra Singh has a degree in Civil Engineering from MNNIT Allahabad and Post Graduation in Irrigation & Hydro from University of Roorkee. Er Narendra Singh served Govt. of Uttar Pradesh & Uttarakhand Irrigation Department with distinction and has vast experience in project implementation ranging from small and medium scale hydro projects and major hydraulic structures such as cross regulator & composite falls on Madhya Ganga Canal Project.

Er Narendra Singh was instrumental in successful rehabilitation of rural and urban families affected by the construction of Tehri Dam Project (1000 MW). His considerable efforts during his tenure with THDC India Limited have won accolades specially for his deft handling of this sensitive issue in the laid down timeframe. Based on his experience he has authored a popular book titled "Rehabilitation and Resettlement : Tehri Dam and other Major Hydro Power Project in India – An Approach for Future".

Er Narendra Singh has rendered exceptional service to The Institution of Engineers (India) in various capacities. He is the founder Chairman of Uttarakhand State Centre and is credited with the construction of a modern building for the Centre in cooperation with the Govt. of Uttarakhand and PSUs. Er Narendra Singh has contributed significantly and added value while serving on many important Committees and the Council of the Institution. He has been a major contributor in various initiatives undertaken in enhancing the role, relevance and image of the Institution. Er Narendra Singh displayed exceptional ability in organizing five Council Meetings of the Institution at various venues. Er Narendra Singh has been Vice President of the Institution for the period 2012-13.

Er Narendra Singh is also credited with focused efforts in promoting regional languages by first time publishing "Abhiyantu Bandhu"- a multi lingual yearly Journal of engineering papers as well as a life sketch of Bharat Ratna Sir M Visvesvaraya in Hindi.

Er Narendra Singh has been recognized, through various awards, for his contribution to the engineering profession as well as for his involvement in social causes and community development. He has travelled widely on work and leisure. He is actively involved in various professional bodies and had been Executive Member of All India Engineers Federation and Member of National Institute of Hydrology (India) as Life Member. He is active in the education sector and interests include horticulture focused on creating a green environment.

He has been unanimously elected as the President of The Institution of Engineers (India) for the session 2019-2020 by the Council of the Institution which is a testimony and recognition of his sterling and long standing contribution to the Institution and the engineering profession.

Our New Chairman Er. Sudhir Kumar Gupta, FIE



He accomplished BE and PGD from IIT, Roorkee (then University of Roorkee) in 1983 and 1984 respectively, Joined Jeep Industrial Syndicate Ltd. In 1984, Allahabad for a very short stint of four months wherein designed Material Handling System of Zinc section, product conveyor system, suggested and implemented Value Engineering concepts in finished products' packaging and performed method and work study to improve the productivity.

Later he joined Bharat Petroleum Corporation Ltd., New Delhi & was involved in the Construction and Installation of Air craft hydrant fueling system at Indra Gandhi International Airport.

After successful commissioning in 1987, he later moved to Maharashtra and Independently constructed an LPG Filling Plant in Jal Gaon.

Finally he resigned from BPCL from Ahmedabad sales Division & started his own business venture in the field of Petroleum.

Presently he owns an LPG Distribution, Real Estate Company & Two Wheeler Dealership.

Additionally, he is also a Consultant to various Industries in and around Bareilly by virtue of being Chartered Engineer.

Our New Honorary Secretary Er. Saheb Singh Verma, FIE



Er. Saheb Singh Verma, FIE (F-120146-4 CV), accomplished B.Sc. Engg. (Civil) from Aligarh Muslim University, Aligarh in 1978.

He joined as Assistant Engineer, Rajasthan Public Works Department (PWD), Jaipur in 1979 and in 1980-82 worked as Assistant surveyor of works in Post and Telegraph Department Ahmedabad, Gujrat.

In 1982-1983 worked as Assistant Engineer in Gujrat Public Works Department, Gandhinagar. From 1984 worked in Uttar Pradesh Public Works

Department till 2013. He was elected Honorary Secretary of Assistant Engineers Association, PWD Uttar Pradesh in 1985. He was awarded as person of the year 2010 for Samajseva in TIMES Magazine.

After retirement, he is working as a Director Technical in Sobti Infratech Limited, Bareilly.

Significant excerpts from the report of 9th Annual General Meeting (AGM)

The Meeting was presided over by Er. Subhash Mehra, FIE Chairman held at Bareilly Club, Bareilly on 31st October, 2019.

The following points were discussed during the course of AGM

Opening of the 9th Annual General Meeting:

The Meeting was presided over by Er. Subhash Mehra, FIE, Chairman. The following points were discussed and decided:

1. To read & confirmation of Minutes of 8th Annual General Meeting held on 28-10-2018:

The Minutes of previous Annual General Meeting held on 28th October, 2018 were readout by the Honorary Secretary Prof. (Dr.) Pankaj Sharma, FIE, which were confirmed unanimously.



I.P. Chariman, Er. Subhash Mehra, FIE, Presenting bouquet to Chairman Er. Sudhir Kumar Gupta, FIE

2. To receive the Annual Report of the Activities of IEI, Bareilly Local Centre during the year 2018-2019:

Annual report for the year 2018-2019 was readout and presented by Honorary Secretary Prof. (Dr.) Pankaj Sharma, FIE while iterating the achievements of Committee during the year 2018-19. It was applauded by



I.P. Honorary Secretary Dr. Pankaj Sharma, FIE, Presenting bouquet to Honorary Secretary Er. Saheb Singh Verma, FIE

all members present. Later it was duly adopted by the house.

3. To receive the Audited Balance Sheet; Income & Expenditure Account of IEI, Bareilly Local Centre for the year ending 31st March, 2019:

Audited accounts of F.Y. 2018-19 and comparative statement with respect to F.Y. 2017-18 were readout and presented by Honorary



Honouring Mr. Anupam Kapoor, Chairman, SSVGI, Bareilly

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

4. To appoint the Auditor for the year 2019-2020 & fix their remuneration:

M/s Shivam Gupta & Associates were appointed as auditors for the year 2019-20 at the remuneration of Rs. 4000/- plus GST per annum.

5. To announce the name of the Chairman & Honorary Secretary for the period 2019-2021 and to take charge:

In accordance with the IEI Bye Laws & Regulations the Chairman and Honorary Secretary were elected for two ensuing sessions 2019-20 & 2020-21 as following during the Committee Meeting held on 29th



September, 2019 for the purpose which has already been confirmed by the minutes of meeting circulated to all Committee Members.

Chairman Elect : – Er. Sudhir Gupta, FIE (F-122107-4, PR), 70 – B / 5 – 3, Greater Green Park, Bisalpur Road, Bareilly -UP- 243006, Email:rajgas_bareilly@rediffmail.com, Mobile: 9359101346.

Honorary Secretary Elect: – Er. Saheb Singh Verma, FIE (F-120146-4 CV), House No 25, Sector No – 3, Greater Green Park, Bareilly UP 243006, Email: sahebsinghverma@yahoo.com, Mobile: 9639011401.

To comply with the clause 7 (a) of IEI, Bye Laws & Regulations so elected Chairman and Honorary Secretary shall take over the charge from the present Chairman and Honorary Secretary respectively.

6. To note the report and announce the names of Bareilly Local Centre Committee for the Sessions 2019-2021:

BAREILLY LOCAL CENTRE (COMMITTEE SESSION 2019-21)



Chairman
Er. S K Gupta, FIE (F-122107-4) PR
Mob.: 93591-01346
E-mail : rajgas_bareilly@rediffmail.com



Honorary Secretary
Er. Saheb Singh Verma, FIE (F-120146-4) CV
Mob.: 96390-11401
E-mail : sahebsinghverma@yahoo.com



I.P.Chairman
Er. Subhash Mehra, FIE (F-006005-0) EN
Mob.: 94122-90125
E-mail : sumehra99@gmail.com



IP Honorary Secretary
Dr. Pankaj K Sharma, FIE (F-121994-0) ET
Mob.: 98972-89812
E-mail : pankaj354518@yahoo.com



Member
Er. Harish C Gupta, FIE (F-016130-2) CH
Mob.: 76074-29832
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Member
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Member
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E-mail : akjain453@gmail.com



Member
Er. Hemant Yadav, MIE (M-146147-2) CP
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E-mail : hemant.pooja22@gmail.com



Member
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E-mail : bajwa150153@gmail.com



Member
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E-mail : contact_id_mittal@yahoo.co.in



Member
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Member
Er. (Mrs) C Sharma, AMIE (AM-094394-3) ET
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Member
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E-mail : paramengineers@yahoo.com



Member
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Member
Er. M. K. Agrawal, FIE (F-123914-3) TX
 Mob.: 98105-53438
 E-mail : agarwalmk16@gmail.com

EX-OFFICIO MEMBERS



Chairman UP SC
Er. Rajesh Kumar Trivedi, FIE (F-017319-5) CV
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 E-mail : rajeshtrivedi4@gmail.com



Hony. Secy. UPSC
Er. P. K. Chaurasia, FIE (F-108923-0) MC
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 E-mail : prabhatkiranchaurasia@gmail.com



Council Member
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 Mob.: 80042-88301
 E-mail : vbsingh51@gmail.com



Member
Er. K B Agarwal, FIE (F-116491-7) MC
 Mob.: 93591-00713, 78950-84449
 E-mail : kbagarwalbly@gmail.com

Er. Shailendra Deva, MIE, Convener, Board of Scrutineers, presented his report on the election for the Sessions 2019-20 and 2020-21 and declared following names as members of forthcoming Committee 2019-21:-

7. **Any other permissible business (Matter of technical interest and adhere strictly to the Agenda only) with the permission of the Chair.**

♦ All Members present appreciated hard work done by The Chairman, Honorary Secretary & Organizing Committee of Engineers' Day -2018 and termed this year's venue, function, Seminar, Innovation Expo & Souvenir as best in 8 years of existence of Bareilly Local Centre. All applauded and specifically congratulated Chairman, Honorary Secretary, Er. Sudhir Gupta and Er. K.B. Agarwal for their efforts and thanked members.

♦ All Members Congratulated Chairman for his efforts making 5 Nos Institutional Membership (IM) this year for first time in history of Bareilly Local Centre. This is highest in India barring 2 - 3 big Centers.

♦ It was felt that some social work related to Engineering / Industry be undertaken by Bareilly Local Centre so as to connect with people of Bareilly.

INNOVATION EXPO – 2K19 on “Various Technical Exhibits – Operational Models & Conceptual Software” & TECHNICAL SEMINAR on “Engineering for Change” at Rajshree Institute of Management & Technology, Bareilly on 14th September, 2019.



Lighting the lamp and garlanding of 'Bharat Ratna Sir M. Visvesvaraya's portrait.

There are seventeen Engineering Colleges that 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 2K19 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.



View of Dias

Total teams participated were 20 numbers

Congratulations for winning:

1st Prize (Rs. 5000/-) in the **INNOVATION EXPO – 2019** project titled **“AUTOMATIC SPRAY MACHINE”** from Rajshree Institute of Management & Technology, Bareilly.

1. Mr. Anuj Singh
2. Ms Shraddha Dubey
3. Mr. Achal Singh
4. Mr. Shivendra Gupta

2nd prize (Rs.3000/-) project titled **“FUTURE INFINITY”** Future Institute of Engineering & Technology, Bareilly

1. Mohd. Bilal
2. Mr. Karan Harit
3. Mr. Sushil
4. Mr. Tinku

3rd prize (Rs.2000/-) project titled **“SMART BLIND STICK”** from ANA College of Engineering and Management Studies, Bareilly

1. Mr. Swapnil Chandra
2. Mr. Tanishq Jaiswal
3. Mr. Vishal Trivedi



A view of participants busy with their gadgets

Er. N. C. Upadhyay, FIE, Chief Engineer, Level-1, Irrigation, Bareilly was the Chief Guest & Guest of Honour. **Er. Pramesh Gupta**, Chief Engineer, PWD, Bareilly were welcomed by the Chairman, Honorary Secretary and other dignitaries, by presenting bouquets and 'Mementos'.

Technical Seminar started with the welcome address by **Er. Subhash Mehra, FIE, Chairman, IEI, Bareilly Local Centre** and told that **Engineering for Change (E4C)** is an online platform and international community of engineers, scientists, non-governmental organizations, local community advocates and other innovators working to solve global development problems.



Er. N. C. Upadhyay, FIE, Chief Engineer, Label-1, Irrigation, Bareilly presenting Inaugural words on Seminar

Technical Seminar started with the presentation by:

a. Er. Hemant Yadav, MIE, Director, KCMT, Campus-2, Bareilly. He delivered presentation on the topic **"The Paradigm Shift in Engineering for Next Generation"**. The past fifty years or so, technology has followed a fairly predictable path. We squeeze more transistors onto



Er. Hemant Yadav, MIE, Director, KCMT, Campus-2, Bareilly conducting the Technical Seminar on 51st Engineers Day-2019



silicon wafers, which makes chips more powerful and devices smaller. Manual processes become automated, productivity has increased and life has got better.

b. Mr K K Rana Sr. Manager (Instrument) and Mr. Shivanshu Pathak Dy. Manager (Instrument) Kribhco Fertilizer Ltd. Shahjanapur delivered his presentation on **"Engineering for Change"** wherein, They explained the normal urea is rapidly converted to ammonical nitrogen and subsequently to nitrite and nitrate forms. Nitrogen in these forms, besides being absorbed by plants, is also rapidly lost from the soil due to leaching, run off, volatilization and de-nitrification. When Neem coated urea is applied to soil, the Neem oil inhibit the activity of nitrifying bacteria results in delayed transformation of ammonical nitrogen into nitrite nitrogen.

c. Er. K.B. Agarwal, FIE, Founder Chairman, IEI, BLC. He delivered presentation on the topic **"Emerging Trends in Affordable Housing – GFRG Technology"**. He explained that Rapid population growth is leading to a major demand for new infrastructure in many large cities in Africa, South America, and India, which all have a housing shortage of tens of millions of apartments. People need safer and more comfortable places to live, and prices need to be reasonable. GFRG (Glass Fiber Reinforced Gypsum panel technology) is a cost-efficient, fast and sustainable building technology for large housing projects that doesn't compromise on quality. India is presently facing shortage of about 2 crore houses. With the escalating prices, the houses are becoming very expensive with present construction technology and hence we need to explore other types of construction system to reduce the cost of construction.

52nd Engineers' Day – 2019 (Cultural EVE) at Future Institute of Engineering & Technology, Bareilly on 15th September, 2019.ERSITY

The 52nd Engineers' Day was celebrated by Bareilly local centre with great enthusiasm, by all Engineers.

The evening session of the Engineers' Day was celebrated at Future Institute of Engineering & Technology, Bareilly from 07:00PM onwards followed by DINNER.

Shri Umesh Gautam, Mayor, Bareilly, (Chief Guest) & Dr. Arun Kumar, MLA, Bareilly (Guest of Honour) was welcomed by the Chairman, Honorary Secretary and other dignitaries, by presenting bouquets and a 'Memento'.

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 enlightening the lamp and garlanding of **'Sir M. Visvesvaraya's'** portrait.

Bareilly Local Centre, IEI souvenir **'SRISHTI'** for 52nd Engineers' Day 2019 was released by the Chief Guest and other dignitaries.

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



Chairman/ Honorary Secretary & other eminent Engineers Inaugural Cultural EVE by lighting the lamp

The programme was organized by Er. S.K.Gupta, FIE & Er. S. S. Verma, FIE. All these programmes were enjoyed and applauded by the fully packed auditorium, which included about 200 nos. of Engineers & their family members.



Felicitations of Sr. Engineers

The stage was handed over to **Future Institute**, Bareilly for presenting Cultural programme. It was started with 'Shri Ganesh Vandana' and followed by various entertaining programmes included folk dances, solo dances by Children, Drama and various Melodius songs etc.



Release of Souvenir – "SRISHTI" by Dr. Umesh Gautam - Mayor, Bareilly Mr. Sudhir Gupta, Founder Chairman, MIT Moradabad, Mr. I.C, Jha Sr. GM, IFFCO, Bareilly, Mr. Pramesh Gupta-CE, PWD, Bareilly and other Eminent Engineers

The cultural programme ended with vote of thanks by Dr. Pankaj Shrmar, FIE, Honorary Secretary, thanking the Chief Guest, Guest of Honour, VIPs, all participants and audience from various departments, Industries, Institutions, Chairman Er. Subhash Mehra, FIE, Enigneers' Day Organizer Er. S. K. Gupra, FIE.



Cultural Program

All the artists of the cultural program were honoured with token gifts. Special honour was expressed to all participants with mementoes, by Chairman and Honorary Secretary.



Eminent Engineers presenting a Plaque (Institutional Membership) to Shri Mukesh Gupta, Chairman, Future Institutions by Dr. Arun Kumar-MLA and other Eminent Engineers.



One Day Seminar on 21st September, 2019 on "Alternate Energy – Solar & Solar PV" at SRMS CET Bareilly

This one day national seminar on "Alternate Energy – Solar & Solar PV" Organized by SRMS CET Bareilly in the collaboration of Institution of engineers India (IEI) Bareilly local chapter Bareilly is started at 9:00 am on 21th sept. 2019 with the inaugural session in the presence of The Chairman " Shri Dev Murti Sir ,SRMS Trust administrator and Chairman IE(I) 'Er. Subhash Mehra', Dean Academics 'Dr. Prabhakar Gupta', Chief Guest 'Dr. Ravi Saxena' Secretary IE(I) 'Dr. Pankaj Sharma' ,Head MBA/MCA/TDP 'Dr. Anuj kumar', Director of Pharmacy 'Dr. Lalit Singh', HOD EN 'Dr. Rajesh Tyagi' and Event coordinator 'Er. Sanjeev Kumar'.

♦ It began with the blessings of Maa Saraswati, our traditional lamp lighting ceremony.



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

- ◆ Welcome Address given by Dr. Prabhakar Gupta and he told us about the world's largest solar power plant in united Nations and that will be inaugurated by our PM.
- ◆ Trust Administrator Er. Subhash Mehra in his address spoke about need & applications of Solar Energy. Then he appreciated this National Seminar Organized by EN department in his speech.
- ◆ The next address was given by Dr. Rajesh Tyagi he said about



Dr. Ravi Saxena, Associate Prof. G B Pant, delivering keynote address

- Indian's accomplishment in world with Solar Power
- ◆ Our Chief Guest / key note speaker told about the relevance & need of Solar Energy and India's various schemes for Solar Power.
 - ◆ After that Chairman of IE(I) Er. Subhash Mehra Honoured chief guest & dignitaries by presenting memento.
 - ◆ The vote of thanks was proposed by event co-ordinator. Er. Sanjeev kumar
 - ◆ The first session was taken by key note speaker Dr. Ravi Saxena (Associate Prof. GBPant). In his session he explained solar spectrum. He also explained the impact of fossil fuels consumption, distribution of solar radiation and pyranometer and pyrliometer he also explained advantage and disadvantages of Solar Energy with its applications,
 - ◆ After the key speaker Research Student of SRMS CET" Shashwat Dwivedi" M.Tech Scholar explained types of Solar Energy and Solar Cells.
 - ◆ The second session started by Er. Inayat Hussain Asst. Professor SRMS CET Bareilly. He explained about Solar Powered Air Conditioning System that and development of renewable energy is on the rise worldwide because of the growing demand on energy, high oil prices, and concerns of environmental impacts.
 - ◆ After this Er. Pranjal saxena Asst. Professor FET MJPRU Bareilly explained about 'Renewable energy grid integrating issues.'
 - ◆ Next speaker after him was Dr. Atul Sarojwal Asst. professor FET MJPRU Bareilly. He explained about Solar Energy and Photovoltaic, Solar photovoltaic energy or PV solar energy directly converts sunlight into electricity, using a technology based on the photovoltaic effect.

- ◆ After him Er. Sovan Mohanty Asst. Professor SRMS CET Bareilly delivered his presentation on solar spectrum.
- ◆ In the Valedictory session the certificate were distributed to the participants and Vote of thanks given by the HOD of Electrical department Dr. Rajesh Tyagi. B.Tech Students of all branches and faculty members of EN, EC, ME attended this seminar.

**All India Seminar on 27th & 28th September, 2019
on "Artificial Intelligent Systems and Emerging
Technologies" at Rajshree Institute of
management and Technology (RIMT), Bareilly**

All India Seminar on the theme "Artificial Intelligent Systems and Emerging Technologies" was organized at Rajshree Institute of Management & Technology, Bareilly, from 10:30AM to 05:00 PM. Total 55 Engineers & 118 Students attended the seminar.

The Seminar was inaugurated by garlanding the portrait of 'MAA SARASAWATI' and lighting of lamp by eminent Engineers, who presided over the session and other dignitaries.

The Seminar Started with welcome address by Er. Subhash Mehra, FIE, Chairman, Bareilly Local Centre, who presided the Seminar.



Dias View Inaugural

Shri Rajendra Kumar Agarwal, Chairman, Rajshree Group, Bareilly, Bareilly was the Chief Guest for this function welcomed by the Er. Subuash Mehra, FIE, Chairman, Bareilly Local Centre, and other dignitaries presenting bouquets and a memento.

Dr. Anil Kumar, Director (Academics), Rajshree Institute, Bareilly introduced the activity and field of studies of the RIMT. Dr. Saket Agarwal, Dean (Academics), Rajshree Institute, Bareilly put the relevance of the Seminar to the august gathering.

Bareilly Local Centre, The Institution of Engineers (India)'s 'CD & SOUVENIR' was released by the Chief Guest, Chairman and others dignitaries.

1st session started with the presentation by :

- a. Dr. Jyoti Agarwal**, gave her lecture on the topic "Application Areas of Artificial Intelligence and Challenges for Society". She explained that Artificial intelligence (AI) is any task performed by program or machine, which otherwise human needs to apply intelligence to accomplish it. It is the science and engineering of making machines to demonstrate intelligence especially visual perception, speech recognition, decision-making, and translation between languages like human beings. The AI is all about science, technology, and algorithms which mostly people are unaware of, which makes it difficult for them to trust it
- b. Dr. Raveesh Agarwal & Mr. Vipin Kumar** gave his lecture on the topic 'Role of Artificial Intelligence in Indian Health Care Industry'. Wherein, they explained that India is battling the ever-perpetual healthcare challenges of affordability and accessibility. While there are

talks and many initiatives by the government, like the ambitious Ayushman Bharat scheme, the mammoth task of implementation still hovers given the scale of India's population.



Release of CD Souvenir

c. **Er. Sovan Mohanty, MIE and Er. Baibaswata Mohapatra** (Member, IEEE), SRMS CET, Bareilly gave their presented on the topic '**Low Profile Dielectric Resonator Antenna For Millimeter Wave Wireless Link**'. They explained that This paper represents the design of a compact dielectric resonator antenna (DRA) for the future fifth generation (5G) applications. The antenna consists of a cylindrical-ring dielectric resonator (DR) mounted on a low-cost FR-4 surface, and a full ground plane.

2nd session started

a. **Dr. Nitin Saxena**, Assistant Professor, RIMT, Bareilly gave his presented on the topic '**Effect Of Food Adulteration on Human Life**'. He explained that food adulteration is a punishable offense in India. We had laws governing the same from the past itself. The Prevention of Food Adulteration Act was passed in 1954. However, this act was repealed by the Food Safety and Standard Act passed by the parliament in 2006. Penalties and punishments are imposed based on the seriousness of the offense. One can get three months to six years imprisonment with monetary penalties if the offense is serious.



Release of Souvenir

b. **Mr. Archit Sharma and Mr. Shivendra Awasthi**, gave presented on topic '**Utilization of Waste Plastic in Construction of Flexible Pavements**'. They explained that Polymer modified bitumen is emerging as one of the important construction materials for flexible pavements. Use of plastic waste in the construction of flexible pavement is gaining importance because of the several reasons. The polymer modified bitumen show better properties for road construction & plastics waste, otherwise considered to be a pollution menace, can find its use in this process and this can help solving the problem of pollution because most of the plastic waste is polymers.

c. **Ms. Pratiksha** presented on the topic '**Thermal Sensors Using Nano-Technology: Water Environment**'.

d. **Mr. Sushil kr. Gangwar**, presented on the topic '**A Review Paper on "IOT" & It's Smart Applications.**'

e. **Mr. Rakesh Kumar, Mr. Harvendra Kumar and Mr. Sushil Kumar**, RIMT, Bareilly presented on the topic '**A Survey of AI in Healthcare.**'

2nd Day 28th September, 2019 Valedictory Function:

The 2nd day of the All India Seminar was started from 10:00AM. More than one hundred ten Engineers and Students participated on the final day.

The Seminar Started with welcome address by Bareilly Local Centre Honorary Secretary Dr. Pankaj Sharma, FIE, who presided the Seminar. Following speakers presented their papers:

a. **Ms Priyanka and Ms. Kavita, Shivani** gave their presented on the topic '**Impact of Robotics on Various Industries In Terms of Employment, Productivity and Economy.**' They explained that The economy is being lifted by the new concept of robotics, but we cannot be sure of all the possible benefits. At this early stage, it therefore becomes important to find out the possible benefits/limitations associated with robotics, so that the positives can be capitalized, established, and developed further for the employment and motivation of employees in the health care sector, for overall economic development. The negatives should also be further studied and mitigated.



Eminent Engineers Presenting memento to participants

b. **Ms. Kavita Gangwar and Ms Priyanka**, SRMSCET, Bareilly gave their presented on the topic '**Study of Artificial Intelligence In E-Commerce.**' They explained that The internet has opened the door for revolutionizing various sectors. E-commerce sector is one of them. E-commerce sectors have unlocked new opportunities and scope for retailers. Retailers also have never seen such a growth in their sales. Artificial intelligence is taking E-commerce to the next level.

c. **Mr. Abhishek Kumar and Mr. Arvind Sharma**, RIMT, Bareilly gave their presented on the topic '**Evaluation of Circuit Parameters of Multistage Impulse Generator by Particle Swarm Optimization.**' They explained that a cost effective off-line method for equivalent circuit parameter estimation of an induction motor using hybrid of genetic algorithm and particle swarm optimization is proposed. It inherits the advantages of both genetic algorithm and particle swarm optimization. The parameter estimation methodology describes a method for estimating the steady-state equivalent circuit parameters from the motor performance characteristics, which is normally available from the nameplate data or experimental tests.

d. **Er. Narendra Pal Singh, AMIE and Mr. Bhavesh Gupta**, ANA, Bareilly gave their presented on the topic '**Wireless Sensor Networks "Applications & Security Issues Counter Measures.**' They explained that Wireless Sensor Network is used to provide communication between sensor nodes in a wireless medium. It is a network of electronic devices also known as nodes which can gather information from the environment and communicate the information with distributed nodes in the network.

The data is transmitted to other nodes via multiple hops until it reaches its destination.

e. **Mr. Neeraj Kumar Singh**, presented on the topic ‘**Artificial Intelligence And Its Application In Different Areas.**’

f. **Mr. Ramakant Gangwar and Mr. Chaman Kumar**, presented on the topic. ‘**Artificial Muscle Intelligence System with Deep Learning for Post-Stroke Assistance and Rehabilitation.**’

g. **Mr. Bhavesh Gupta and Er.Narendra Pal Singh**, MIE, ANA, Bareilly presented the topic ‘**Recent Improvements In Mobile Grid-Network And Cloud Computing Evolutions.**’

h. **Mr. Mohit Kumar and Mr. Himanshu Garg**, presented on the topic ‘**Trends in Distributed Artificial Intelligence.**’

All the speakers were honoured by presenting the ‘Mementoes’ by Chairman, Honorary Secretary and other eminent Engineers. All presentations were enjoyed by all participants with keen interest.

World Habitat Day on 7th October, 2019 on theme Frontier Technologies as an innovative tool to transform waste to wealth ’ at Shri Siddhi Vinayak Group of Institutions - [SSVGI], Bareilly (Institutional Member) :

Started with the Welcome Address by Er. Subhash Mehra, Chairman, Bareilly Local Centre and suggested that this year, World Habitat Day is calling attention to the issue of waste, wishing to change the discourse into a positive one, where waste is presented as an opportunity to bring about wealth and change in the communities and cities where we live.

The proceedings of World Habitat Day was conducted and introduced the theme as received from Head Quarter by Er. Sudhir Gupta, FIE, IP Honorary Secretary, Bareilly Local Centre, Bareilly.

Following speakers & Students presented their papers and Models on the World Habitat Day 2019’s theme, along with practical examples, which were applauded whole heartedly by the audience:

Er. Sudhir Gupta, IP Honorary Secretary, Bareilly Local Centre,



View of Dias

Bareilly describes on the topic Frontier Technologies as an innovative tool to transform waste to wealth”: He explained that according to the World Economic and Social Survey 2018, frontier technologies hold immense potential to improve how people work and live, as well as to significantly accelerate efforts to achieve the Sustainable Development Goals and address climate change. Frontier technologies, such as automation, robotics, electric vehicles, renewable energy technologies, biotechnologies and artificial intelligence, can possibly transform the social, economic and environmental spheres. They offer the potential of better, cheaper, faster, scalable and easy to use solutions for every-day problems, including waste management.

Er. Sovan Mohanty Department of Electronics and Communication



Engineering SRMS CET, Bareilly. He explained that Product design needs to include the environmental impact over the entire lifecycle so that scarce resources including the fossil fuels used during manufacture are preserved and emissions of harmful greenhouse gases are avoided.

Er. K. B. Agrawal FIE, Founder Chairman, IEI, Bareilly, who expressed that technology has great potential to improve how people work and live, to significantly accelerate efforts to achieve the Sustainable Development Goals and address climate change. Frontier technologies, such as automation, robotics, electric vehicles, renewable energy technologies, biotechnologies and artificial intelligence can transform the social, economic and environmental spheres.

Er. H. C. Gupta, FIE, described on this topic that The United Nations designated the first Monday of October of every year as World Habitat Day to reflect on the state of our towns and cities, and on the basic right of all to adequate shelter. The Day is also intended to remind the world that we all have the power and the responsibility to shape the future of our cities and towns.

Er. S. S. Verma, FIE, Dr. Rajat Mehrotra, MIE and faculty / Students of SSVGI, Bareilly also shared their views and experiences on the theme.

One Day Workshop on 10th October, 2019 on “IOT USING RASPBERRY PI” at Rajshree Institute of Management and Technology (RIMT), Bareilly

The One Day Seminar on “**Iot Using Raspberry Pi Workshop**” was conducted successfully with a very good response of 75 registrations.

The inaugural session started with Deep Prajwalan and Saraswati Vandana followed by presentation of Saplings and badges to dignitaries. A very motivating welcome speech was given by Dr. Pankaj Sharma, Honorary Secretary of The Institution of Engineers (India), Bareilly Local Centre.

This was followed by the address from Dr. Jyoti Agrawal, Convener of the program, who explained the seminar theme with its necessity and



Photo of Technical Session

application in today's era. The next part was a very inspirational speech by Professor Dr Anil Kumar Agarwal, Dean Academics



The first session was started by **Mr. Sushil Kumar Gangwar** Computer Science and Engineering Department Rajshree Institute of Management and Technology, Bareilly who delivered a lecture on **'The Internet of Things (IoT) & It's Smart Applications'**. He introduced that The future of IoT is more fascinating than this where billions of things will be talking to each other and human intervention will become least. IoT will bring macro shift in the way we live and work. I hope you had fun reading about all these powerful and promising applications of Internet of things. There are many more areas where IoT is making an impact. Networked Toys is one application of IoT which will change the playing experience of your kids. IoT can also be used in the detection of environmental issues.

Ms. Sangeeta Lalwani, gave her lecture on the topic **"Internet of things (IoT)."** She explained that The Internet of Things (IoT) is the network of physical objects or "things" embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data. IoT allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration between the physical world and computer-based systems, and resulting in improved efficiency, accuracy and economic benefit.

The second session was conducted by **Ms Shivangi Maurya**, RIMT, who initiated a detailed discussion on **Internet of things**. He explained that the Internet of Things is an emerging topic of technical, social, and economic significance. Consumer products, durable goods, cars and trucks, industrial and utility components, sensors, and other everyday objects are being combined with Internet connectivity and powerful data analytic capabilities that promise to transform the way we work, live, and play.

The workshop was interactive as well as hands on, with simultaneous practical sessions conducted by resource person. The objective of this workshop was to deliver important programming skills which would be beneficial to students with regards to their future final year projects. Students were encouraged and challenged to create their own mini projects and come up with innovative project ideas.

Thus, a very interactive and successful One Day workshop was conducted which will prove to be very useful and helpful for the students interested in the field of internet things.

World Standards Day on 15th October, 2019 on theme 'International Standards and the Fourth Industrial Revolution' & Birthday of Dr. A P J Abdul Kalam as Students Day-2019

World Standards Day on the theme "Video standards create a global stage" was organized at the Committee Hall of Bareilly Local Centre, IEI.



View of Dias

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

The Seminar on this Statutory Day & Students 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 Video is the modern medium of expression. Advances in the technology have changed our world, revolutionizing entertainment, connecting friends and families across the globe, enriching our communications experiences and enabling major improvements in medical care and education.



View of Participants

Er. S. K. Gupta, FIE, I.P.Honorary Secretary, Bareilly Local Centre, IEI, Bareilly. He showed a video and gave some views that the innovation of recent decades has driven a huge leap forward in video quality. And video has also become more accessible, helping people worldwide to share their stories in vivid, moving pictures. These gains in both the sophistication and accessibility of video are built on International Standards.

Er. K.B. Agarwal, FIE, Founder Chairman, IEI, BLC, Bareilly. He told about Dr. A P J Abdul Kalam that Dr. A P J Abdul Kalam, known as people's President and 'Missile Man of India'. He was born on 15 October 1931 on Pamban Island, Rameshwaram, Tamil Nadu. In 2015, the UN declared his birthday as **World Student's Day**. He discussed 13 Interesting Facts about A P J Abdul Kalam, on his 88th Birth Anniversary that you should not miss about him.

A galaxy of speakers was present to express their views during the Seminar organized on 15th October, 2019 at Centre, BLC, IEI, Bareilly, as listed:

1. Er. Yatish Vats, FIE
2. Er. Sauresh Chandra Sundrani, FIE
3. Er. Saheb Singh Verma, FIE

Energy Conservation Day on 14th December, 2019 at Elite Beauty Studio, Bareilly :



Mr. S. K. Suri, conducting the seminar on 'Energy Conservation Day-2019.'

Statutory Day 'Energy Conservation Day' Scheduled on December 14th 2019 was celebrated as Lecture Series on this topic.

The proceeding of Energy Conservation Day was conducted by Er. Saheb Singh Verma, FIE, Honorary Secretary, IEI, Bareilly Local Centre. The Lecture Series situated with inaugural words by founder Chairman Er. K. B. Agrawal, FIE, IEI, Bareilly Local Centre, Bareilly and suggested that Energy conservation day in India is celebrated to aware people about the importance of energy as well as saving or conserving the more energy by using less energy. The exact means of energy conservation is using less energy by avoiding the unnecessary uses of energy.

Following speaker was present to express their papers on Energy Conservation Day along with practical examples, which were applauded whole heartedly by the audience:



Galaxy of participants attending Guest Lecture on 'Energy Conservation Day-2019.'

1. **Er. K.B. Agarwal, FIE**, describes on the topic that energy conservation day is celebrated every year using particular theme of the year by keeping in mind some goals and objectives to make more effective all over the country among people.

2. **Er. H. C. Gupta, FIE**, gave presentation of the topic that Each and every citizens of the India must aware about how to use efficient energy, how to save the energy for their own future safety and many more ways. They should follow all the rules, regulations and policies implemented by the Government of India in order to support the energy efficiency.

3. **Mr. S. K. Suri, Chairman, INSTITUTE OF EHS STUDIES, Bareilly**. He explained that Government is trying to focus on the Energy Conservation and it is possible when every people makes 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. Yatish Vats, FIE, Er. Neeraj Sharma, BSNL, Er. A. K. Jindal, FIE, Er. B. S. Bajwa, FIE, Er. A. K. Jain, MI and others also shared their views and experience on the topic.

Er. Saheb Singh Verma, FIE, Honorary Secretary of IEI, Bareilly Local Centre thanked all the participants and the speakers for sparing their

valuable time and making the program a grand success. He appreciated all speakers for their sincere efforts to prepare and present their papers in the Statutory Day.

CONDUCTED AMIE SECTION A (DIPLOMA STREAM) WINTER EXAMINATION 2019

The Institution of Engineers (India), Bareilly Local Centre conducted AMIE Section A (Diploma Stream) winter examination - 2019 successfully at Government Polytechnic, C. B. Ganj Bareilly from 7th December, 2019 to 10th December, 2019.



The examinations were supervised by Er. Anil Kumar Jain, MIE (Officer-in-Charge) and Er. Narendra Singh (Superintendent). We congratulate them and extend our sincere thanks and gratitude for conducting the winter examination successfully.

VISIT OF DIGNITARIES TO THE LOCAL CENTRE

1. **Er. V.B. Singh, FIE**, Council Member, IEI, UP State Centre & Chairman, Civil Engineering Branch, IEI, Kolkata on 31st October, 2019.

BAREILLY LOCAL CENTRE FELICITATES PRESIDENT, IE (I), KOLKATA.

BLC Founder Chairman & UPSC Committee Member Er. K. B. Agarawal, FIE, visited Hyderabad for attending '34th Indian Engineering Congress' on 27th - 29th December, 2019.

During the course of the event he took the opportunity to felicitate the incoming President Er. Narendra Singh by garlanding, offering the shawl and presenting a memento alongside Er. V. B. Singh, FIE (Past UPSC Chairman) & Er. R. K. Trivedi, FIE (Chairman, UPSC).

Er. Narendra Singh promised for his whole-hearted support and guidance to Bareilly Local Centre, Bareilly and expressed his gratitude to Bareilly Local Centre for felicitating.

FORTHCOMING EVENTS (FOURTH QUARTER) JANUARY TO MARCH 2019-2020

1. **Technical Quiz – 2k20**
2. **Tech Tazuwa – 2k20**
3. **World Water Day on 22nd March, 2020**

List of Newly enrolled Members Attached to IE (I), Bareilly Local Centre during July to December - 2019

1. **MR PUNEET SHAMSHERY, FIE (F-125901-2 MC)** 42, KANOONGOYAN MORADABAD U.P. 244001 Mob: 9897777083 Email: puneetshamshery@yahoo.com
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.....From Editor's Desk



Change is the eternal truth and for sure and in the present scenario the Technology is proving it effectively and truly. In line with the advancement / change of Technology we have to keep our selves abreast with the current in formations. To keep ourselves informed, once again this issue of News Bulletin is being intended to impart an insight of various Technical Activities which took place at Bareilly Local Centre. It gives me an immense pleasure in preparation of this issue of News Bulletin. I extend my sincere gratitude to colleague, Committee Member, Corporate Members for their contributions to this Bulletin and looking forward to get their contributions in future as well.

Hope the reader would find the content informative and interesting.

Er. Hemant Yadav, MIE

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