



The Institution of Engineers (India)

U.P. State Centre

IEI NEWS

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

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Vol. XXVI

ISSUE: 6

June, 2017

FROM CHAIRMAN'S DESK



Dear Brother Engineers,

You are aware that the month of May and June were dedicated to telecommunication, Information and Environment. In this reference World Telecom and Information Society Day was celebrated on 17th May 2017 in which techniques to sort out problems by converting available big raw data on internet into useful information were discussed. The next and most important issues environment damage was deliberated for the existence of the living creatures by saving water, planting trees and curbing carbon percentage. In this reference the state centre had organized a workshop on 23rd April 2017 in regional language (Hindi) for the first time on the topic, VAN, JAL EVAM DHARTI: CHUNAUTIAN. In continuation of this 'World Environment Day' was celebrated on 5th June 2017 with the theme "Connecting People to Nature", once again emphasizing upon the importance of water, forestation and ecological balance.

We (IEI, UP State Centre in association with the Institution of Valuers) jointly organized a seminar on 18th June 2017. The topic was 'Use of new Building materials in Construction/new Techniques and its effect on valuation' and deliberated various issues with participants of large gathering.

At the end, I would like to congratulate and thanks to all conveners of the activities mentioned above and members / participants gathered in large numbers for the success of the programmes.

We are striving hard to organize more & more technical activities at the state centre in the coming months. Your active participation is solicited.

Prof. (Dr.) Bharat Raj Singh, FIE
Chairman

Forthcoming Events at IEI, U.P. State Centre

Sl.No.	Date	Event
1.	23, July 2017	One Day Seminar on 'Green Energy Potential in India & its Harnessing Plan'.
2.	Date to be announced	National Conference on 'Global Trends that Shape Tomorrow's Process Industry and R & D Organizations'.
3.	15 August 2017	Independence Day celebration.
4.	15 Sept. 2017	Engineers Day Celebration.

Report on 'World Telecommunication & Information Society Day-2017'

World Telecom and Information Society Day was celebrated at U.P. State Centre Lucknow on 17th May 2017. Er S.S. Sharma, Retd. DGM, HAL, Kanpur & keynote speaker on the occasion elaborated the theme "Big Data for Big Impact" and explained how big data available on internet can be converted into useful and actionable information in a developmental context. He also explained how data analytics uses various statistical techniques and mathematical algorithms and tools available to convert raw data into useful information to solve various problems. He informed that these tools, techniques and algorithms have been developed over decades by researchers in academia and Industry.



A view of Dignitaries

He also dealt in detail about using information from big data which can be used in achieving 17 nos. sustainable development goals before 2030 in India as well as neighboring countries. Er N. K. Nishad, Member SCC of the Institution convened the celebration. Prof.(Dr.) Bharat Raj Singh, Chairman and Er V.B. Singh, Council Member and Past Chairman also expressed their views on the subject. In the end Er R.K. Trivedi, Hony. Secretary thanked keynote speaker and the audience present.

Report on 'World Environment Day'

The Institution of Engineers (India), U.P. State Centre celebrated World Environment Day on 05TH June 2017 in its premises. Shri Ravi Bhargava, a noted environmentalist & Chairman, Ecomen Laboratories Pvt. Ltd was the Chief Guest said that we have to ponder on action needed to correct the alarming situation of environmental pollution. This year's theme of Environment Day - "Connecting People to Nature", is to explain and thus motivate us, to go outdoor and into nature. He further suggested to be with nature indoors too. He explained that an ecosystem is made of both living (biotic) & non-living (abiotic) components & ecosystem functions & services are crucial to human survival. An Ecosystem's components /surroundings define its Environment which includes natural resources, such as air, water, soil & atmosphere. All living organism (animals, plants, people), too built environment.



A view of event

Nature, in the broadest sense, is the natural, physical, or material world of universe. Natural environment will include Earth, Air, Water, Sun, Rainfall, Animals, Plants, Rocks, Forest etc. Although humans comprise only a minuscule proportion of the total living biomass on Earth, the human effect on nature is disproportionately large. Man made threats to the earth's natural environment include – Pollution, Deforestation & Disasters (Oil spill etc.). He said that if we understand nature and connect with it in day to day life & adopt Ecofriendly Life Style, – we will be Big Gainers. He further suggested being with Nature and enjoying blessings of the nature. One should assess Environmental Foot Print of our home. Everyone should also think to connect the younger ones with nature and environment. We should volunteer our services in our area of expertise to help students to implement the school learning into ground reality in the school campus, or their home or their colony. Another gift of nature - animals and birds have a very beneficial and healthy impact in our mind and soul. He further elaborated the topic and said Nature has given us many assets – air which is life sustainer. A person inhales oxygen equivalent to approx

3 cylinders per day. 1 oxygen cylinder is Rs 700/-. For three cylinders, it is Rs 2100/-, that means Rs 7,66,000/- per annum, considering the average life of a person as 65 years it course to approx Rs 5 crore. That is the value of air, which we get free from nature. Water is divine elixir (Amrit) which is also life sustainer. Nature has gifted us Trees, Plants with numerous, varied uses. It has been observed that wherever a green cover has been created, there is rise in ground water level. It is estimated that 10,000 ha of good forest/greenery, helps in percolating as much water as in the Bhakra-Nangal Reservoir. Most of us live, along the road in front of our home, exposing us to Dust, Gases and Noise. By utilizing nature, we can prevent & reduce pollution by planting relevant plants, properly. One neem tree is equal to ten air conditioners and worth 24000 to 30,000 US dollars in the economic service it renders in its life time. Moreover, use of neem controls pests in a Gandhian way. The neem plant is a source of "village medicine" due to its wide range of benefits to human health and the environment. Peepal is a veritable storehouse of pure air, emitting oxygen round-the-clock. Tulsi is also a very environment-friendly plant. Tulsi can rightly be termed as one of the most commonly and widely used ingredients in many Indian home remedies. Are you aware that your health could be seriously threatened in your own home? The indoor air system remains pretty much polluted as it is – with all contaminants trapped inside. Unfortunately a common person remains woefully ignorant of the hazards he faces at home. Proper indoor plants are very effective at removing numerous pollutants. Birds are called the "avian litmus paper", the health of their population mirrors the soundness of the broader ecosystems and environment in which they live and we live. NATURE has a perfect system of GIVE & TAKE. If we connect with it, we can share its beauty & bounty like Energy, Medicines & Eatables for Health & Happiness. Or We opt to Perish by Global Warming. An easy, effective & essential first step to connect with Nature is to 'PLANT TREES', not only on World Environment Day but always, wherever & whenever possible. Earlier Prof.(Dr.) Bharat Raj Singh, Chairman of the Institution of Engineers (India), U.P. State Centre welcomed the guests and the participants and informed about the objectives of celebrating the World Environment Day and also alarm the entire society to Save Life and Save Earth. Convener, Er. V. B. Singh, Council Member & Past Chairman of the State Centre further elaborated the importance of the Day and informed that World Environment Day is celebrated since 1974 every year on 5th June as per direction of UNO to create awareness in general masses about the threat of Environmental Pollution. He further expressed concern about the decision of USA to pull out from Paris Agreement. The celebration ended with a vote of thanks by Er. R. K. Trivedi, Honorary Secretary.

Report on One Day Seminar on 'Use of new Building Materials in construction/new techniques and its effect on Valuation'

The Institution of Engineers(India), UP State Centre and The Institution of Valuers, Lucknow Branch jointly organized a Seminar on the topic 'Use of new Building materials in construction/new techniques and its effect on valuation' on 18th June 2017 at the UP State Centre. The Seminar was inaugurated by Er, Saleem Ahmed , Chief Engineer, UP Housing Board who urged the participants to use new technology and materials for construction of low cost & good quality energy efficient Green Buildings . Prof. (Dr.) Bharat Raj Singh, Chairman, UP State Centre, while welcoming the guest & participants, described the activities of the Institution as well. Thereafter Er. Khajan Chandra, Chairman, The Institution of Valuers, Lucknow Branch delivered the inaugural address on the topic. He described the various new cost effective building materials such as Autoclave Aerated Cement (AAC) Blocks, Ready Mixed Concrete, vitrified tiles for floors, Marble and granite stone flooring, Aluminum cladding with structural glazing and various pipe fittings besides G. I. Pipes.



A view of Inaugural by the Chief Guest

Er V.B. Singh, Member, National Council of IEI and Convener of the Seminar emphasized upon the construction of Green Buildings in accordance with the new provision of a chapter in National Building code which describes the optimum use of natural light and air in the building.

He also urged to make the rain water collection system as mandatory. Overall 10 papers were presented during the technical session by experienced fraternity including Er. A.L.Kalra, FIE, FIV; Col. S.R.Prasad, FIE, FIV; Dr. Ashok Kumar Jain; Er. M.K.Goel; Er. O.P.Sharma, FIE, FIV and National Council Member of the Institution of Valuers; Er A.N.Dubey, Secretary, the Institution of Valuers and others. Various topics



A view of the gathering

were covered by the Speakers and discussed by the Members which included the low carbon cement for sustainable construction, Petroleum Plant scrap valuation, effect of automation and modern machines on valuation of plants & machineries, use of Eco-friendly new buildings materials increasing the value of the property. The Seminar ended with a vote of thanks by Er. R.K.Trivedi, Hony. Secretary, The Institution of Engineers (India), UP State Centre.

Recommendations:

1. AAC (Autoclave Aerated Cement) Blocks should be used in partition walls.
2. Ferro Cement prefabrication structure should be used to make the building cost effective and reduce construction time.
3. Rain water harvesting should be provided in every building whether residential or non residential, in order to recharge the depleting ground water. It should be made mandatory.
4. Low carbon cement should be used in construction to reduce the carbon footprint.

News from Head Quarter

IEI AWARDS

The Steel Authority of India Ltd (SAIL) had instituted two Awards, namely, SAIL AWARD and DR M VISVESVARAYA AWARD to be given away every year during the Indian Engineering Congress to author/s of the articles adjudged best on selected topics. The topics for the year 2017 are given hereunder.

SAIL AWARD

'Growth of India's Steel Sector Amidst Global Overcapacity: Challenges for 300 MT Steel Vision '

DR M VISVESVARAYA AWARD

'Sustainability of Steel in the Transition to a Low Carbon Economy'

The Coal India Ltd (CIL) had instituted an Award to perpetuate the memory of Late J G Kumaramangalam, its first Chairman

to be awarded every year during the Indian Engineering Congress to author/s of the articles adjudged best on a selected topic. The topic for the year 2017 is given below.

**COAL INDIA (J G KUMARAMANGALAM MEMORIAL)
AWARD**

**'Safety Culture Promotional Strategy for
Large Coal Mining Company – Indian Perspective'**

Intending contributors are requested to submit their articles (visit www.ieindia.org/jourtechdwnlds.aspx for guidelines) in quadruplicate to Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020 by July 31, 2017.

**STUDENT MEMBERSHIP (SMIE) –
NEW GRADE FOR UNDERGRADUATE B.TECH STUDENTS**

The Council at its 689th meeting held at Ahmedabad approved a new grade of membership – Student Membership (SMIE) - meant for undergraduate students pursuing BE/B.Tech (AICTE approved) or equivalent qualification, completion of which will make them eligible for Corporate Membership. The salient points regarding this new membership grade are given below:

Benefits of Student Membership (SMIE):

- Student Members (SMIE) are entitled to enjoy following benefits regarding IEI journals: i) Make free e-access by logging in through www.ieindia.org ii) Can avail the journal hard copies at a concessional rate.
- Student Members (SMIE) may access the IEI Library (Sir R N Mookerjee Engineering Information Services Centre) at the headquarters as well as State and Local Centres of IEI.
- Student Members are entitled to receive the monthly colour tabloid 'IEI NEWS' free of cost.
- Opportunity to participate in technical events e.g. Seminars, Symposia, Conventions, Workshops etc. organized by various IEI centres at State, National and International levels at concessional rate.
- Student Members may avail the opportunity of staying in any of the IEI guest houses.
- Student groups consisting of SMIEs only will be given preference in release of grants for their final year project/thesis work.

Validity of Student Membership (SMIE):

Student Membership is a Non Corporate Membership and will be valid for six years w.e.f. the date of enrolment. Student Membership fee:

Fee for Applicants from India/Nepal	Fee for Applicants from SAARC Countries	Fee for Applicants from any other Countries
Rs. 1500	US\$ 88	US\$ 150

The application proforma is already available at IEI website at the URL: <https://ieindia.org/membership1.aspx>.

In case of any further query regarding Student Membership (SMIE) please contact: (033)40106248 / (033)40106246 / (033)40106268 / (033)40106251 or email at : dibyendu.bhowmick@ieindia.org

**CONTRIBUTION TOWARDS BUILDING FUND BY THE
MEMBERS OF IEI, UP STATE CENTRE**

The following members have contributed towards the building fund of the IEI, UP State Centre

- The Institution of Engineers (India), Gorakhpur Local Centre - Rs. 30,000/-
- Er. Shiva Prakash Singh, FIE, Past Council Member, IEI - Rs. 10,000/-
- Er. Vimal Chandra Keshari, M-1469635, - Rs. 1100/-

All other members are also requested to contribute generously.

**CONTRIBUTION TOWARDS BUILDING FUND BY THE SCC
MEMBERS OF IEI, UP STATE CENTRE**

Following 7(Seven) SCC members have donated Rs10,000/- as per decision in SCC meeting on 08th January 2017. Remaining members are also requested to contribute their share at earliest:-

- Prof. (Dr.) Bharat Raj Singh, Chairman
- Er. V.B. Singh, Council Member
- Er. Ajit Kumar Asthana, Chairman Gorakhpur Local Centre
- Er. J.S. Mishra, SCC member
- Er. R.K. Trivedi, Hony. Secretary
- Dr. Jaswant Singh, SCC Member
- Er. N.K. Nishad, SCC Member

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