



The Institution of Engineers (India)

U.P. State Centre

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

IEI NEWS

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From Chairman's Desk



Dear Eminent Engineers,
We are aware of severe climate change because of Global warming. Global warming is the effect of utilizing our resources on so called development, without considering its effect on environment. Use of excessive conventional fossil fuel is also one of the reasons. In this reference an All India Workshop has been organized on, 'Skill Development in Renewable Energy Sector'

on 4th-5th March 2017, in which eminent experts and specialist discussed the various challenges before us as an engineer and use of Renewable Energy.

Emphasis was given on skill gap in this sector and the challenges before the Institution and Industry Considering the Hon. Prime Minister's call for skill India and the electricity generation target of 1Lakh MW by 2022 from 20000 MW at present, the academicians, Institutions and industries must have an integrated approach towards use of Renewable Energy.

The next programme in this reference was World Water Day, which was celebrated on 22nd March 2017 on the Theme 'Wastewater'. Global Warming has severely affected the availability of drinking water and thus wasting water is not only a social evil but a crime too and every effort should be made to treatment for industrial waste water in a cost effective and user friendly method.

In the series the state centre organized a Workshop on 23rd April 2017, in regional language (Hindi) for the first time at the state centre. The topic was '*Van, Jal evam Dharti: Chunautiyan*'.

Removal of Jungle Area by cutting trees, wasting drinkable water and hunting of wild animals for pleasure have ultimately resulted into the present day crisis of environmental imbalance. It is necessary that priority must be given in framing the rules regarding the common problems of livelihood and strict compliance must be monitored at every level of the Government and the Society.

I invite you to forthcoming events of World Telecommunication and Information Society Day and World Environment Day and request you to participate in large numbers. I once again request all members to come forward in organizing events at the centre.

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

Forthcoming Events at IEI, U.P. State Centre

| Sl.No. | Date | Event |
|--------|-----------------------------|---|
| 1. | 17 th May, 2017 | World Telecommunication and Information Society Day |
| 2. | 5 th June, 2017 | World Environment Day |
| 3. | 18 th June, 2017 | One day Seminar on 'Use of new building Materials in Construction/new Technology and it's effect on Valuation'. |
| 4. | July 2017 | National Conference on 'Global Trends that Shape Tomorrow's process Industry and R & D Organizations'. |

Report on All India Workshop on 'Skill Development in Renewable Energy Sector' (March 4-5, 2017)

The Institution of Engineers (India), UP State Centre organized a two day All India Workshop on Skill Development in Renewable Energy Sector on March 4-5, 2017. The Workshop was inaugurated by Prof. (Dr.) D. S. Yadav, Former Pro-Vice Chancellor, UP Technical University who said that there is enormous scope for skilled youth to be employed in renewable energy sector which is the fast developing area as it is the only answer to the impending environmental threat to nature by energy being presently generated through conventional ways utilizing fossil fuel.



Release of Technical Volume cum Proceedings

The need of hour is to properly train them in skills needed by the sector. He also expressed concern on rising level of air & water pollution which is posing threat to bio-diversity. Dr. B. R. Singh, Chairman of The Institution of Engineers (India), UP State Centre while welcoming guests said that we Indians are fortunate to have vast potential of solar energy as we get abundance of sunlight and also have huge tidal & wind energy scope



A Section of audience

being surrounded by sea on three sides. Mr. V B Singh, Council Member & Convener while giving overview of the Workshop said that India is a country today with 65% of its youth in the working age group. If ever there is a way to reap this demographic advantage, it has to be through skill development of the youth so that they add not only to their personal growth, but to the country's economic growth as well. Youth of the country have to be empowered with skill sets which make them more employable & more productive in their work environment. The renewable energy sector needs a large number of skilled persons.

This sector holds vast potential to train & employ large number of youths in our country. A technical volume cum proceedings was also released by the Chief Guest on the occasion. Prof. S K Shukla from IIT, BHU in his Keynote address emphasized the use of renewable energy in mobility and health care sectors and importance of skill development in these sectors. Prof. Usha Bajpai, Coordinator, Renewable Energy, Centre of Excellence in Renewable Energy Education and Research of the University of Lucknow called upon the society to adopt renewable energy system to bridge the gap of energy supply and demand as well as climate change. She identified the skill gaps in renewable energy sector and the challenges in academic, institution and industry to overcome these skill gaps by working together. This will encourage the renewable energy sector's contribution emphatically in Indian energy scenario. Prof. Bajpai in her address encouraged the entrepreneurship in renewable energy and innovations. Prof. Imran Ullaha Khan from Integral University spoke on ocean renewable energy technology. Er A K Jaiswal from Urja Gasifiers (P) Ltd spoke on the use of bio gas in cremation. Dr. Suresh C. Bajpai, Director (Technical), Futuris Energy Pvt. Ltd while highlighting the outcome of the National Solar Mission, informed that the government has revised the target of electricity generation from 20,000 mw to 1,00,000 MW by 2022. He analyzed the efforts being taken to meet the target by 2022. Mr R. K. Trivedi, Hony. Secretary proposed Vote of Thanks. Recommendations that emerged : *The Training Institutes must identify the sector specific needs of the Industry ; Govt. may refurbish the Industrial Training Institutes; New Skill Development Centres may be opened for training & preparing youths for Renewable Energy Sector.*

Holi Milan

Holi Milan was celebrated at the Engineers Bhawan, The Institution of Engineers (India), UP State Centre on 18.03.2017. Dr. Bharat Raj Singh, FIE, Chairman of the Centre welcomed the members and their families with great pleasure and the members present with their family exchanged the holi greetings



A Section of audience

by putting 'Gulal' on each other's forehead. On this occasion the Chairman Dr. Bharat Raj Singh and members Er. D K Srivastava, Er. K. Sahai, Er. Tribhuvan Singh along with family members Mr. D. K. Menghi, Mr. A. K. Sinha & Mr. Rajjan Lal etc. entertained the audience with their songs, poems and Jokes in accordance with the Holi mood celebration.

The cultural program was convened by our member Er D. K. Srivastava also a member of Suraagan Kala Kendra very successfully. The program ended with a vote of thanks by Er R. K. Trivedi, Honorary Secretary.

जल, वन एवं धरती : चुनौतियां पर संगोष्ठी आयोजित

इन्स्टीट्यूशन आफ इन्जीनियर्स की उत्तर प्रदेश भाखा में प्रथम बार हिन्दी भाषा में जल वन एवं धरती : चुनौतियां विषय पर एक भव्य संगोष्ठी का आयोजन दिनांक 23 अप्रैल 2017 दिन रविवार को प्रदेश सेंटर पर किया गया। इसकी अध्यक्षता इं० वी०बी० सिंह कौंसिल सदस्य एवं अध्यक्ष, अखिल भारतीय क्षेत्रीय भाषा समिति, दि इन्स्टीट्यूशन आफ इन्जीनियर्स (इण्डिया), ने करते हुए कहा कि वर्तमान समय में आज की ज्वलन्त समस्याओं पर जन सामान्य तक जा कर वस्तु स्थिति को बताया जाय तथा जल, वन तथा धरती के प्रति हो रहे अन्याय और तदनुरूप आवश्यक युक्तियों पर ध्यान आकृष्ट करने पर विशेष बल दिया। उन्होंने कहा कि यदि हम अभी भी चूक गये तो भूल सुधार सम्भव न होगी। उन्होंने उपस्थित सदस्यों का आवाहन भी किया कि जन सामान्य से जुड़ी समस्याओं के विषय में क्षेत्रीय भाषाओं में भी आवश्यक संगोष्ठियां होनी चाहिए एवं उनकी संस्तुतियां भी सभी सामाचार पत्र एवं अन्य भाषाओं में भी भेजी जानी चाहिए, जिससे इन्स्टीट्यूशन के इस निर्णय से यथोचित लाभ मिले। श्री मोहम्मद अहसन पूर्व मुख्य वन संरक्षक, उत्तर प्रदेश ने अपने मुख्य संबोधन में वन की परिभाषा, कारक, उ०प्र० में वन के प्रकार, वनों से प्रत्यक्ष एवं अप्रत्यक्ष लाभ पर अपने विचार व्यक्त करते हुए हमारे लिये चुनौतियां एवं वन सुरक्षा तथा वन के घनत्व एवं हरीतिमा संवर्धन पर बल देते हुए कहा कि पूर्व में बहुत गलतियों की गई। पेड़ काटना, जल की बर्बादी एवं वन्य जीवों को मारना एक खेल बना लिया गया था। अब स्थिति कुछ नियन्त्रण में आ रही है परन्तु कार्य अभी भी बहुत है।

इं० भरत राज सिंह, अध्यक्ष, इन्स्टीट्यूशन आफ इन्जीनियर्स उत्तर प्रदेश सेंटर ने अतिथियों एवं सदस्यों का स्वागत किया तथा आवाहन किया कि हमें वास्तविक रूप से घटते जल स्रोत, खराब होती धरती तथा काटे गये वनों को पुनः उचित स्तर तक स्थापित करना होगा अन्यथा भविष्य दुरुह होगा। प्र० जमाल नुसरत, संगोष्ठी संयोजक, ने सदस्यों एवं मीडिया से जल, वन एवं धरती के प्रति अनाचार को रोकने के लिए आम जनता को समुचित जानकारी दिये जाने पर बल दिया। आवश्यक नीतियों का पालन सुनिश्चित हो। उन्होंने दुःख व्यक्त किया कि अनावश्यक विषयों को तो प्राथमिकता है परन्तु प्रत्येक भारतीय से जिन समस्याओं का सरोकार है उन पर वरीयता कम है। उन्होंने इस स्थिति में सुधार के प्रति निवेदन भी किया। तीन सत्रों में सम्पन्न एक दिवसीय इस संगोष्ठी में इं० रवीन्द्र कुमार, जल एवं धरती विशेषज्ञ, सलाहकार विश्व बैंक परियोजनाएं, इं० रमाकान्त आर्या, जल विशेषज्ञ, इं० ए० के० सिंह पूर्व मुख्य अभियन्ता, उ०प्र० पावर कार्पोरेशन लि० सम्प्रति समाजिक जागरूकता के प्रति सक्रिय कार्यकर्ता, ने भी बहुमूल्य जानकारी सदस्यों को उपलब्ध कराई। अन्त में प्रश्न सत्र में सदस्यों की शंकाओं एवं जिज्ञासाओं का समाधान संबंधित विशेषज्ञों ने किया एवं सदस्यों ने बहुमूल्य जानकारियां प्राप्त की। समापन सत्र में संस्तुतियों का आकलन करते हुए संस्तुतियों को राज्य एवं देश के जिम्मेदार अधिकारियों को प्रेषित करने का निर्णय लिया गया। इं० आर० के० त्रिवेदी, मानद सचिव ने सभी अतिथियों एवं सदस्यों को धन्यवाद देते हुए उनके प्रति आभार व्यक्त किया कि उनके कारण ही देश में क्षेत्रीय भाषाओं की प्रथम संगोष्ठी सफलीभूत हुई।

Report on World Water Day 2017

The World water Day was celebrated at UP State Centre on March 22nd 2017. The function was inaugurated formally by lighting the lamp jointly by Er. A.K. Singh, an Environmental consultant and Chief Engineer (Retd.), U.P. Rajya Vidyut Utpadan Nigam; Dr. B.R. Singh, Chairman, UP State Centre; Er. V.B. Singh, Council Member, IEI and Past Chairman, UP State Centre; Er. R.K. Trivedi, Honorary Secretary, UP State Centre and Er. Ahmad Husain, Convener of the Function. Dr. B. R. Singh, while welcoming the Speaker, Other guests and the members present, informed that considering the importance of pure Drinking Water and its scarcity, UNO decided in 1992 to celebrate world water Day every year on 22nd of March to aware the people along with experts in Science and technology in this field. He said that water is the basic need for life of living things and so it is necessary to keep our natural resources of water free from contamination and to recycle the waste water for drinking purpose.

Er. Ahmad Husain introduced the speaker to the audience. Er. A.K. Singh said that Water is an important and vital issue, not only for India but for the whole World. Most of the river basins in India are closing and experiencing moderate to severe water shortages because of unplanned agricultural growth, industrialization and urbanization. Most of us would have noticed that the color of water in most of the rivers, especially small rivers, have lost its transparency and become dark because of pollution of waste water discharges in those rivers.

He said that an estimated 38354 MLD sewage is generated in major cities in India but available treatment capacity is only 11786 MLD. According to him only 60% of Industrial Waste Water is treated. He further added that even state owned treatment plants are not complying with prescribed standards. Thus effluent from the treatment plants is usually not suitable for household purposes and the reuse of wastewater is mostly restricted to agricultural and some industrial purposes. Though waste water irrigated fields generate employment opportunities to agricultural laborers but it is associated with the risk of human health and environment.

He emphasized upon proper treatment of wastewater for environmental protection, saving the aquatic life and providing Safe River and ground water. We must accept the challenge before us to find out cost effective and user friendly, with lesser technicality, treatment methods so that we may not be dependent wastewater livelihood and may protect our valuable natural resources as well.

The celebration commenced with a vote of thanks by the honorary Secretary.

Chartered Engineer

Eligibility Criteria for Chartered Engineer

Any Life Corporate Member of the Institution of Engineers (India) can designate himself as a Chartered Engineer (C Eng).

A special certificate specifying as Chartered Engineer (C Eng) can be obtained on payment of Rs. 7500/- only

(for applicants from India / Nepal) and US\$ 750 only (for applicants from other countries). This is applicable only to the Members who have paid Composite Subscriptions / Life Compounding fees in full.

However, Corporate members already in possession of Chartered Engineer Certificate applying for the same after upgradation / transfer of membership or more than once for any other reason, the fee will be Rs. 2,000.00 (for applicants from India /Nepal) and US \$ 200 (for applicants from other countries). Such Corporate Members should apply with a copy of existing Chartered Engineer Certificate.

The proforma application for Chartered Engineer Certificate is available at our website(www.ieindia.org/chartered.aspx).

Address for Communication : The Director (Membership), Membership Department, The Institution of Engineers (India) 8 Gokhale Road, Kolkata 700 020, e-mail : membership@ieindia.org

Revised charges of Auditorium and Guest House

Dear Members,

It is for your information that the auditorium charges for Technical Seminars and other such related programmes are Rs35000/- per day. In addition Rs7000/- per day chargeable as electricity charges and Cleaning of the area + Service Tax as applicable. In addition a refundable security of Rs10000/- will have to be deposited by the allottee, to be refunded on no objection certificate against any damage/ defacing in auditorium and surrounding area.

Rent for conducting examination and other related works is Rs10000/- per day in addition to Rs3000/- as electricity charges. It is requested to explore the maximum utilization by the Government Deptts., NGOs, etc.

Er R. K. Trivedi
Hony. Secretary

Request for Invigilation Work for AMIE Exams

Members are requested to send their willingness for Invigilation Work in AMIE SUMMER-2017 Examinations to be held from 3rd to 9th June, 2017. A remuneration as sanctioned from the HQ shall be paid.

Er R. K. Trivedi
Hony. Secretary

Contribution to Building Fund of SCC Members of IEI, UP State Centre

In continuation of contribution, through 'DONATION' to Building Fund of SCC Members of IEI, UP State Centre, the following name added:

1. Er. Nirendra Kumar Nishad, SCC Member

Revised Membership Fees w.e.f. 01 April 2017

| Grade | India & Nepal (Rs) | US \$ for SAARC Countries | US \$ for other countries |
|---------------------------------------|--------------------|---------------------------|---------------------------|
| Fellow (FIE) | 6450 | 300 | 680 |
| Member (MIE) | 4100 | 200 | 465 |
| Associate Member (AMIE) | 3500 | 170 | 405 |
| Student Member (SMIE) | 1500 | 88 | 150 |
| Member Technologist (MTIE) | 3400 | 175 | 440 |
| Associate Member Technologist (AMTIE) | 2950 | 145 | 380 |
| Senior Technician (ST) | 6900 | 460 | 640 |
| Technician (T) | 6900 | 455 | 615 |

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