



The Institution of Engineers (India)

U.P. State Centre, Lucknow

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

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From Chairman's Desk



The 28th Indian Engineering Congress hosted by Tamilnadu State Centre was successfully held on Dec. 20-22, 2013 at Chennai. The Congress was inaugurated by **Hon'ble President of India Shri Pranab Mukherjee**, for the 2nd consecutive year which shows the importance given by **Hon'ble President** to the IEI. While delivering inaugural address, he said – "Engineers, from time immemorial, have evinced their capability for great technological feats to transform human lives. We now look for a cascade of engineering advancements that will enable us to face the challenges of accelerated nation building. We need to create that technology which can help fulfill our dream of a developed India. The potential of Engineering & Technology to contribute to economic upliftment & sustainable development has engaged the attention of many today. I compliment The Institution of Engineers (India) for conducting this year's Congress on a theme of true contemporary value, which is "Engineering Advancements and Accelerated Nation Building". He further applauded the Institution for all its achievements and urged to keep up the good work. At this juncture I exhort fellow engineer members to work with full devotion in order to fulfill the dream of our Hon'ble President.

Our **Kanpur Local Centre** has been awarded the **Best Local Centre Award** for all –round performance for the year 2012-13 at the 94th AGM held at Chennai. I congratulate Chairman Prof. (Dr.) Pradeep Kumar & Hony. Secretary Er. P. P. Agarwal of Kanpur Local Centre along with their team for this achievement and look forward other Local Centres of the State to join the race in coming years.

The State Centre was full of activities during the period under reference. A **Lecture Meeting** on "Urban Water Supply-Issues & Challenges" was organized on Jan. 11, 2014, which was very well attended. **Er Ravindra Kumar**, Advisor, WWF India & Former Drinking Water Expert, SWARA was the speaker. **One day Workshop** on "Water & Food Security" was successfully organized on Jan. 18, 2014 which attracted a large gathering. Two experts from **Water Management Forum**, Ahmedabad, a peripheral body of IEI presented their talks. The Workshop proved to be very interactive and useful for the members. **Er Jamal Nusrat**, Convener deserves high appreciation for organizing the Workshop. The **65th Republic Day** was celebrated with great fervor & enthusiasm on Jan. 26, 2014. A **Lecture Meeting** was organized on "Professional Excellence" on Feb. 13, 2014 which was very well attended. **Er. P. D. Saraswat**, D.G.M., SIDBI was the speaker who gave very useful tips on the subject. A **Lecture Meeting** was organized on "Water Conservation-Future of Tomorrow". **Dr. D. D. Ojha**, Retd. Senior Scientist, Ground Water Department, Jodhpur was the speaker. The event attracted a good number of members. Thanks to **Er. B K Dubey**, Convener for organizing the activity.

Finally I extend goodwishes for Happy Holi to all of you. May the festival of colours bring Joy, Peace & Prosperity to all of you.

V. B. Singh, FIE

Forthcoming Events at IEI, U.P. State Centre

S.N.	Date	Event	Convener
01.	March 08, 2014	Workshop on Disaster Management: Towards Building a National Response System	Er. Ravindra Kumar
02.	March 22, 2014 (05.00 pm)	World Water Day Theme : Water and Energy	Prof. (Er.) Jamal Nusrat
03.	March 29-30, 2014	All India Seminar on Heritage to Modern Building Structures : Appreciating Sustainable Architectural Engg. Solutions	Ar. S B Bhargava
04.	March 29, 2014 (06.30 pm)	Holi Milan	-

Report on Workshop on Water for Food and Security

A Workshop was organized by the UP State Centre of The Institution of Engineers (India) under the aegis of Water Management Forum – a peripheral body of IE(I) with HQ at Ahmedabad on January 18, 2014 at Lucknow. Chief Guest Er Kaptan Singh, FIE, Ex MD, UP Project Corporation, Ex. Chairman, INDEF and Chairman, Gramin Kalyan



Chief Guest Er Kaptan Singh inaugurating the workshop by lighting lamp.

Sansthan, UP while delivering inaugural address, advised to study intelligently the quality and quantity of water, to have honesty in its measurement, justice in its use, worship like action in its conservation and goodwill in its distribution and also punish the wrong doors. Er Jagdish Mohan, Council Member emphasised the proper management and elaborated the motive and activities of WMF. He also enumerated its achievements.

Er PC Vyas, Director, Water Management Forum informed in his presentation that nearly a sixth of the world's population suffer from chronic hunger. Hunger weakens immune system and stunts child development. Food cannot be transferred from surplus to deficit due to poor roads, barriers at border and import-export policies. Demand for food is projected to increase by 50% over the next 20 years. On other end agricultural faces threats from climate change, scarce water supplies and competition for energy from industry and urbanization. Water is though enough, but in disparity. There is imbalance between poor and rich, village and city. Water and food security is one subject. These are two faces of the same coin. The Food and Agriculture Organization (FAO) of the United Nations defines food security as – "a condition in which all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life".

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Holi Milan

The members with their families are cordially invited to join Holi Milan organized on March 29, 2014 (Saturday) at 06.30pm which will include cultural/entertainment programme followed by dinner.



Er. P C Vyas, Director, WMF giving his Power Point Presentation

Sustainable food system focuses on environmental health, economic vitality, human health and social equity. The arable land per person is decreasing. On other end water requirement for food productions is increasing. In India, total arable land is 56.78% of the total land. India enjoys the second position in world in the terms of agricultural production. The share of farming and associated industries in GDP is around 16%. In spite of above bright side, food security is not achieved yet. Reasons - huge wastage due to poor storage facility, public distribution system is not properly operated, lack of balance in import and export, uncontrolled pricing mechanism, uneven water distribution, soil erosion, decrease in average size of operational holding, low water use efficiency, over and irrational use of chemical fertilizers, decline in water level, pollution in water bodies and soil due to industrial waste, climate change and junk food utilization. Solutions of above problems will lead to food security. In water resources sector think globally-work locally. Water conservation at local level by checkdams, bandhara, ponds plays crucial role. At the same time modernization of existing command, inter basin transfer, efficient on farm application etc. are equally important. Ground water recharge is also important as it increase ground water level.

Er RG Bhatt, Past Director, Water Management Forum, gave a vivid presentation of saving water through a very appealing film and also gave success stories through implementation of methods advised.

Er V B Singh, Chairman of IE(I) UP State Centre welcomed the guests & members who joined in spite of severe cold in the early hours of the day and expressed the need of water for production of food grains which is the security of humanity. He further suggested to change our food habits in such a way as to have balance of vitamins, proteins, and carbohydrates. Er Jamal Nusrat, Coordinator of the workshop desired improvement in irrigation in cultivations besides bringing more land under agriculture to increase the production of food grains. He also told to improve the revenue policy which indulge in court cases unwarrantedly thereby reducing the land under cultivation. He also alarmed about the rise of population.

Many members joined the question session. Looking at the success of workshop, need was felt for a detailed seminar on the subject. Er. J. S Mishra the Hony. Secretary proposed the votes of thanks.

65th Republic Day Celebrated

The Institution of Engineers (India), UP State Centre celebrated 65th Republic Day on January 26, 2014. The National Flag was hoisted by Er. V B Singh, Chairman, IEI, UP State Centre at Engineers' Bhawan, Lucknow in the presence of Er. J S Mishra, Hony. Secretary, Er. Arun Kumar, SCC member, other members and staff. Er V B Singh, Chairman urged the engineers to work hard with sincerity & honesty in order to make our country vibrant one. The gathering was also addressed by Er. J S Mishra, Er. Arun Kumar, Er. J M L Jaiswal & Er. C P Mahalwala. Er J S Mishra, Hony. Secretary thanked the members who were present on the occasion.

Report on Lecture on "Urban Water Supply : Issues and Management"

A Lecture Meeting was organized by the U.P. State Centre of The Institution of Engineers (India), UP State Centre on Jan. 11, 2014 at Lucknow. Er. Ravindra Kumar, Advisor, WWF India and Formerly Drinking Water Expert, SWARA, U.P. Govt. delivered talk on "Urban Water Supply: Issues & Management". In his talk he apprised the audience about the role of the next generation smart water meters - Automatic Meter Reading (AMR) in water sector giving examples of success in Navi Mumbai & Delhi Municipal Corporations. He said that the Advanced Meter Infrastructure (AMI) is being established by different Municipal Corporations under Jawahar Lal Nehru



(L-R) Er. J S Mishra, Er. V B Singh & Er Ravindra Kumar

National Urban Renewal Mission (JNNURM) with the objectives of

- Creating Water efficiencies by reducing water consumption & non-revenue water
- Improving revenue by reducing fraudulent behavior & with multi-tariff
- Improving operational / financial performance by traditional meter reading costs.
- Improving cash flow by more frequent billing & reducing bad debts/overdue payment

Automated meter reading allowed consumers to dramatically reduce their water consumption. Billing on actual consumption effects to consumer satisfaction. Cyble RF technology allowed for enhanced information, such as monthly readings, leakage data & backflow information. Radio benefits opens accessibility to 100% of meter indexes- even when the consumer is absent, reduces manual reading error, reduces intrusion in consumer's premises, enhances data acquisition speed. The radio features are alarms (fraud, battery, electronic) with last 5 alarms with date & time stamp, 90 days consumption profile, fixed date readings and instant current flow rate. The life span of such meters is 10 years. Use of such smart water meters will certainly reduce water consumption and increase revenues of the water utilities. Earlier while welcoming the guests Er. V B Singh, Chairman, IEI, UP State Centre laid emphasis on importance of water and urged for its judicious use. A good number of senior members were present in the meeting who actively participated in discussions. Finally Er. J S Mishra, Hony. Secretary proposed vote of thanks to all present who came in large number in spite of chilling cold.

Report on Lecture on "Ancient Science of Professional Excellence"

A Lecture Meeting was organized by the UP State Centre of The Institution of Engineers (India) on Feb. 13, 2014 at Lucknow. Er P. D. Saraswat, Dy. General Manger, Small Industries Development Bank of India(SIDBI) delivered talk on 'Ancient Science of Professional Excellence' giving live examples from his personal and professional life and also by the research work undertaken in Brahma Verchus Research Institute, Haridwar. He said



(L-R) Er J S Mishra, Er. V B Singh & Er P D Saraswat

that the materials such as Thorium, Uranium, and Titanium have negligible power in their inert state but by way of nuclear fission and fusion, not only electricity is generated, rather a Nuclear Bomb can also be manufactured. Similarly, our seers and sages were capable of developing super natural powers by way of activating their dormant energy channels by practicing ancient science of breathing currents, meditation, eternity of sound and sublimation of materials considering their body as a laboratory. Er. Saraswat gave an example of German Scientists to explain the eternity of sound, that German Scientists had developed a weapon during World War-I which used to produce sound waves of a frequency higher than 105 vib/sec which could ruin a target in less than 1 sec. because the resultant sonic waves could destroy neurons of the target at a rate faster than a high power direct electric shock.

The science of breathing currents is a deep science of breathing, bioelectrical signals and geo-magnetism. The apparently simple practices and applications of this science are derived from the rare knowledge of how the cosmic magnetic forces, the positions of planets, the biological clock, certain metabolic and physiological functions and the mental state, affect the breathing patterns. Everything in this universe is interconnected. Everything influences each other. The duration of years, months, day & night has been fixed by our ancient sages after minutely studying the cosmos. Our body itself is a miniature cosmos. It has a particular breath pattern which signifies the condition of our health. If our body is harmonized with the cosmos, we are able to diagnose and control of ailments and disorders in body-mind functions, attain mental peace and calmness, quick decision making power, guidance for appropriate time management, to initiate important task to get success. Earlier Er. V B Singh, Chairman, IEI, UP State Centre welcomed the guests and introduced the speaker. Finally Er. J S Mishra, Hony. Secretary proposed vote of thanks to all present.

Project Guide for Section 'B' Students

Members are requested to send their application giving their BIO-DATA to take up the Project Guide work for Section 'B' Students of the Institution of Engineers (India), if interested. Rs. 800/- shall be paid per student as remuneration.

J. S. Mishra, MIE
Hony. Secretary

Report on Lecture on "Water Conservation - Future of Tomorrow"

A Lecture Meeting was organized by the Institution of Engineers (India), UP State Centre on Feb. 22, 2014 at Lucknow. The function was started with the lighting of lamp by the Chief Guest of the function Shri P K Ashudani, Managing Director, UP Jal Nigam. In his address he emphasized that awareness on all aspects of water and its judicious use in industrial and agricultural field is 'demand of time'. The Keynote speaker of the event Dr. D D



Inauguration of Lecture Meeting by Chief Guest

Ojha, Chief Scientist (Retd.), Ground Water Department, Jodhpur said that the crisis of water is existing all over the world in spite of availability of 146 crore cubic km. water in universe. In Indian tradition water is treated an important part of Indian culture and civilization. Our body consists of 60 to 70 percent of water. Water creates diseases and also provides it's cure. At present the main reasons of water crisis are population growth, more dependency on ground-water, negligence of traditional water resources, water pollution and lack of education on water. He also pointed out that the conservation of water is our fundamental responsibility and this work should have been done through the participation at domestic level, community level and Institutional level. He also informed about its medicinal properties.

The water supply in-charge of Lucknow area Er A. K. Gupta, Project Manager, UP Jal Nigam in his address focused on management of drinking water supply. Earlier Er. A K Mittal, Chairman, IWWA welcomed the guests. A good number of senior members were present in the meeting who actively participated in discussions. Finally, Er. J S Mishra, Hony. Secretary, the Institution of Engineers (India) proposed vote of thanks. The event was conducted by Er B K Dubey, Hony. Secretary, IWWA.

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I, J. S. Mishra, hereby declare that particulars given above are true to the best of my knowledge.

J. S. Mishra, MIE
Hony. Secretary

IEI Young Engineers Awards (2014-15)

With a view to encourage the pursuit of excellence in the field of engineering, The Institution of Engineers (India) has instituted "IEI Young Engineers Award" consisting of Rs10,000/- and a Citation. Any engineer citizen of India not older than 35 years of age as on March 31, 2014 is eligible for the award. The Application Proforma is to be filled online which is available on IEI website www.ieindia.org. Six copies of printout of the duly filled application proforma is to be sent to Director (Technical), The Institution of Engineers (India), 8, Gokhale Road, Kolkata-700020 latest by March 31, 2014.

Request for Invigilation Work for AMIE Exams

Members are requested to send their willingness for Invigilation Work in AMIE SUMMER 2014 Examinations to be held from 7th to 13th June 2014. A remuneration of Rs300/- shall be paid per meeting of 3hrs.

J. S. Mishra, MIE
Hony. Secretary

AMIE Coaching Classes

The UP State Centre of the Institution of Engineers (India) has started AMIE coaching classes at its office building at River Bank Colony, Lucknow. The interested T/ST members contact personally our on phone no. 0522-2625322 during office hours from 12.00 noon to 07.00 pm for details.

J. S. Mishra, MIE
Hony. Secretary

Faculty Positions in Engineering Colleges of Uttar Pradesh

It is proposed to utilize the services of members of IEI who have retired from services and possess necessary qualifications required for teaching as Guest Faculty in Engineering Colleges / Institutes of Uttar Pradesh. Interested Members may apply giving their qualifications, branch of engineering and subjects along with choice of place and contact numbers.

J. S. Mishra, MIE
Hony. Secretary

Important Notice for Corporate Members

All Corporate are requested to update their present address along with e-mail id/mobile number in order to enable them to exercise their voting rights from 2014 onwards as the Council of IEI has decided that the IEI elections from the year 2014 would be totally on online system.

Er. J S Mishra, MIE
Hony. Secretary

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Members in News

Dr. Onkar Singh (Fellow), SCC member of UP State Centre and Professor & Head, Harcourt Butler Technological Institute(HBTI), Kanpur has been appointed first Vice Chancellor of Madan Mohan Malviya University of Technology, Gorakhpur, Uttar Pradesh.



The Limca Book of World Record has included the name of Dr. B R Singh, FIE, Director, SMS – IT Campus & Former Managing Director, UPRNN as the first innovator of Air-O-Bike Motorcycle.



Er V. B. Singh, FIE, Chairman, IEI, UP State Centre has been conferred *Abhiyanta Ratna Award* by Uttar Pradesh Rajya Vidyut Parishad Abhiyanta Sangh on January 23, 2014 in recognition to his long and outstanding services to the engineering fraternity.



Er. Jamal Nusrat, FIE, received the prestigious Urdu Academy's SULAIMAN NADVI Award 2013 on his book *Rahmatein* in Urdu. This book deals with the Technical Importance on the orders given by Almighty on Air, Water, Fire, Sky, Land and Knowledge.



The Institution of Engineers (India) congratulates all the above members for their felicitation / honour conferred upon them.

Appeal to Members for Building Fund

IE(I), UP State Centre building requires extensive repairs. We are not getting requisite funds HQ. It can not be done without your generous financial support. Any contribution above Rs.1000/- will be highly appreciated. Your cooperation is very much solicited. Cheque/DD may be drawn in favour of "The Institution of Engineers (India), U.P. State Centre". The contribution will qualify for I.T. exemption u/s80G.

J. S. Mishra, MIE
Hony. Secretary

To

If undelivered please return to:
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