



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 started the activities this year with a lecture meeting on 'Non-Destructive Tests of Concrete' on 20th January 2017, in which Er Sanyal, Executive Director and an expert in the field of testing of concretes, described the various methods of

Non-destructive Concrete tests and demonstrated the use of test hammer tool. After this programme the Republic Day was celebrated at the centre with fervor and enthusiasm, in reference to current National Scenario of *Swachha Bharat Abhiyan* as well as the effect of demonetization to check the corruption, a major problem of Republic of India.

During the month of February we organized a presentation on 'Techniques of Memory Skills Improvement' on 25th February, in which Dr Sunil Ji Garg, MD, Sunmitra Education Technology described the various techniques which can improve our memory skills. He performed exercise too of peg method and almost everyone remembered the things to be remembered in the same sequence.

Dear Members, we are facing financial crisis and request you all to contribute generously towards building fund. I convey Best Wishes on my behalf and on behalf of the state centre Committee members for HOLI, a festival of colours to enjoy all colours of life without differentiation.

**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 its effect on Valuation'.
4.	July 2017	National Conference on 'Global Trends that Shape Tomorrow's process Industry and R & D Organizations'.

Lecture on 'Non-Destructive Tests of Concrete'

A lecture meeting was organized on 20th January, 2017 by the U.P. State Centre of The Institution of Engineers (India). Er. Gautam Sanyal, Executive Director, Arun Soil Lab Pvt. Ltd., Lucknow delivered the lecture. Er. V.B. Singh, past Chairman of the State Centre and presently a member of the Council of The Institution of Engineers (India), welcomed the guests and the members present before the presentation of the Paper. He informed that though various tests are done during the construction period of a building for maintaining the quality of the building or the structure, but one might not be sure of designed quality. So to ensure the quality after the construction, the non-destructive tests of the concrete has been developed.

Er. Sanyal emphasized upon the need of the Concrete testing, after it becomes hard, to ensure its quality and strength to hold the force in accordance with the designed parameters and purpose of use. These tests may be done for new as well as old structures. He said that rebound test hammer is a mechanical device used for performing rapid, non-destructive quality testing on materials for evaluating compressive strength according to the desired specifications. The device measures the rebound value R, which has a specific relationship with the hardness and strength of the concrete. For accuracy of the results, it is very important to take care of the direction of the impact, which should be exactly put horizontally and vertically upwards /downwards. For this test the thickness of the concrete should be more than 100mm with a maximum particle size of 32mm. It is also important to take care of the age of the concrete, size and shape of the comparison sample (cube cylinder).

Er. Sanyal arranged to demonstrate the use the test hammer tool. He also spoke about the ultrasound pulse velocity test and Pile Integrity test.

The meeting was well attended by the Engineers from different departments. The meeting ended with a vote of thanks by the Honorary Secretary, U.P. State Centre

Report on 'Republic Day celebration'

The Institution of Engineers (India), UP State Centre celebrated 68th Republic Day on January 26, 2017. The National Flag was hoisted by Dr Bharat Raj Singh, Chairman, IEI, UP State Centre at Engineers' Bhawan, Lucknow. In his address he urged the engineers to work hard with sincerity & honesty in order to make our country vibrant one. The gathering was also addressed by other members. At the end Er R K Trivedi, Honorary Secretary also urged the gathering to take new heights by your efforts and thanked the members who were present on the occasion.

Report on presentation on 'Techniques of Memory Skills Improvement'

The Institution of Engineers (India), UP State Centre, Lucknow and MNNIT Alumni jointly organized a paper presentation on "Techniques of Memory Skills Improvement" at the State Centre on 25th February, 2017. The event formally started with lighting of the lamp, as a token of the journey from Darkness to Light of wisdom, by the dignitaries on the dais. Thereafter Dr.B.R. Singh, Chairman of the state Centre welcomed the main speaker Dr. Sunil Ji Garg, Managing Director, Sunmitra Education Technology. Er. V.B. Singh, past Chairman and council member, IEI; Members of IEI and their family members present; members of MNNIT Alumni and the guests. He briefly informed about the Institution and its activities at the centre. Er. V.B. Singh gave brief introduction about the speaker Dr. Garg.



Chief Guest inaugurating the meeting

Dr. Garg informed that Human being possesses about 100 billion Neurons and each of them has hundred of connections to other Neurons. These connections are responsible for keeping information in our memory. According to him if memory is equated with the hard disk of the computers, it will be like one hundred computers of one terabyte memory each. He further opined that if we use some techniques like Mnemonic major system, Journey Method, Memory Palace Method, Memory pegs etc. to improve our memory skills we can remember lot of the things, we always wanted to remember. He ensured that a person can easily remember dictionary, religious epics and even whole text books by using techniques. For memorizing things one should keep the following things in mind.

1. One must have a belief that he can remember
2. Pay attention at the things to remember at immediate moment
3. Make association of the things to remember with other things, even with absurd concepts and emotions
4. Picture based visualization be done
5. Make a story sequence
6. Make rehearsal (repetition) at certain specific intervals

Dr. Garg emphasized that more use of Brain develops stronger memory. He also described the types of related senses as phonological, Visualization and other sensory as taste, touch, and smell which must match to remember the things for long time memory (Permanent) for explicit recall at required time.



A Section of audience

Dr. Garg briefly described the Peg Memory method and successfully performed exercises with the audience. The presentation was very informative, educative and useful for all and was well accepted with applaud by the vast gathering. The presentation ended with a vote of thanks by Er. R.K. Trivedi, Honorary Secretary.

Appeal

In view of grave financial position of State Centre, it has been decided that :-

1. All member of SCC will contribute Rs10,000/- each so as to make payment of Rs3.5 lac as Water Tax of IE(I), UP SC building, which is pending for the last six months.
2. All other members are also requested to contribute generously.

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

In view of the present financial crisis, it was decided in the 1st SCC meeting held on 8th January 2017 to contribute the Centre, through 'DONATION'. In this reference the following SCC members have contributed:-

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

2. Er. V. B. Singh, Council Member
3. Er. Ajit Kumar Asthana, Chairman Gorakhpur Local Centre
4. Er. J. S. Mishra, SCC Member
5. Er. R. K. Trivedi, Hony. Secretary
6. Er. Jaswant Singh, SCC Member

Contribution to Building Fund by the Members of IEI, UP State Centre

The following members have contributed to the Building Fund of the IEI, UP State Centre

1. The Institution of Engineers (India), Gorakhpur Local Centre - Rs30,000/-
2. Er. Shiva Prakash Singh, FIE, Past Council Member, IEI - Rs10,000/-
3. Er. Vimal Chandra Keshari, M-1469635, - Rs.1100/-

News from Head Quarter

IEI YOUNG ENGINEERS AWARD 2017-18

With a view to promote the pursuit of excellence in the field of engineering, IEI has instituted "**IEI Young Engineers Award**". The purpose of the Award is to recognize outstanding achievements/contributions made by young engineers in engineering research, excellence in engineering technology development, technology transfer, etc. Any engineer citizen of India **not older than 35 years** of age as on **March 31, 2017** is eligible for the Award. The IEI Young Engineers Award is presented to awardees for all the 15 Engineering Divisions of IEI during the respective National Conventions. The awardees attending the National Convention will be provided with free accommodation and their traveling expenses (AC-3 Tier train fare by shortest route) will be reimbursed on production of original documents.

The Award consists of a plaque and a certificate. The recipient(s) of Award for each engineering discipline will be handed over the plaque and certificate during the respective National Convention, the dates of which will be communicated to the recipient(s) appropriately.

We request you to kindly disseminate this amongst the young engineers and encourage them to apply for the Award and also display the attached notice at your Work Place or other places as deemed appropriate.

For Notification, Guidelines and Application Proforma please see the link: <https://www.ieindia.org/yngaward.aspx>. Soft copy of the filled-in application proforma should be forwarded to award@ieindia.org by **March 31, 2017**. Further, six copies of the printout of the dully filled application proforma along with all supporting documents should be sent to the **Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020** so as to reach us by **April 10, 2017**. The envelope containing the application should be superscribed at the top with "**IEI Young Engineers Award 2017-18**" and name of the engineering division under which the applicant desires to be considered for the Award.

Certificate of Competency for Professional Engineers

Dear Sir / Madam,

Under the mandate of the Royal Charter, conferred on 13 Aug, 1935, The Institution of Engineers (India) grants Certificate of Competence to the engineers by way of Professional Engineer Certification known as **P.Eng. (India)**.

Professional Engineer (PE) Certification enables engineering professionals to advance their career inspiration and in wide ranging ways. The Institution of Engineers (India) has a laid down process to certify Professional Engineers after assessing the competency of the engineers as per criteria of eligibility and as per the assessment process.

Considering the high standards required of competence for the engineering profession, **PE Certification** not only enhances an engineering professional's stature, but also makes them suitable to attain higher levels of authority and responsibility. The contribution to career advancement is among the most important benefits of **PE certified** professional.

It is envisaged that due to the growing requirement of competent engineers in the Country, in future, only a professional engineer may prepare, sign, seal and submit engineering plans and drawings to a public authority for approval, or to seal engineering work for public and private clients. With the growing economy and massive expansion of technological infrastructure, the market demand of PE certified engineers are expected to be much higher. Rising to the occasion, The Institution of Engineers (India) has taken up this important responsibility of certifying the competency of engineers by way of **Professional Engineers (PE) Certification** and in short will be called as **P.Eng. (India)**. The Register for **PE Certified** Engineers shall be maintained by IEI at national/regional level for benefits of various stakeholders. Also **P.Eng. (India) Certification** enables an engineer to become an independent consultant, a government engineer or an educator.

In view of above you may like to obtain **P.Eng.(India) Certification**, which will help in value addition to your profile as an engineer:

This is important to mention that no other Professional Body in the country is associated with The Institution of Engineers (India) in the matter of PE certification.

We look forward to your participation in this endeavour to significantly enhance the professional standards of Engineers. The interested candidates may contact:

**PE Cell,
Office of Deputy Director General,
The Institution of Engineers (India),
8 Gokhale Road, Kolkata 700020.**

Phone: 033 - 4010 6300 / 4010 6232

Mob: 8961080218,

[Email:pe@ieindia.org](mailto:pe@ieindia.org)

The complete details of PE Certification, certification process, the guidelines and the forms are available on IEI website, www.ieindia.org, under the link

<https://ieindia.org/Prof.aspx>

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I, R. K. Trivedi, hereby declare that particulars given above are true to the best of my knowledge.

R. K. Trivedi, FIE
Hony. Secretary

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