



# The Institution of Engineers (India)

## U.P. State Centre

IEI NEWS

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

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### FROM CHAIRMAN'S DESK



Dear Fellow Engineers

Firstly, I would like to extend my good wishes to you and your family, on my own behalf and on behalf of the State Centre, a very happy and prosperous New year-2018.

You are aware that the UP State Centre is organizing various technical and social activities since the start of the year and few more activities are added in the month of November and December 2017. The 97th Annual General Meeting of the centre held on 19th Nov. 2017. On this day the Present State Centre Committee has also completed one year term with more achievements. The centre observed the 'Energy Conservation Day' and conducted lecture on the day to save energy by using energy saving devices & alternative sources of energy. A two day All India Seminar on 'Sources of Planet Energy, Environmental & Disaster Science: Glacier Melting & Its Challenges' (SPEEDS-2017) was also organised jointly by IEI, UP State Centre and School of Management Sciences (SMS) on 9th-10th Dec, 2017.

I congratulate and thank to all the conveners of the above mentioned events and the participants joined the said activities in large numbers for the success of the programmes.

We are striving hard to organize more technical activities at the state centre in the coming months of New Year 2018. Your active participation is solicited.

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

### Forthcoming Events at IEI, U.P. State Centre

| S.No. | Date                       | Event  |
|-------|----------------------------|--|
| 1.    | 26 <sup>th</sup> Jan. 2018 | Republic Day   |
| 2.    | 4 <sup>th</sup> Feb. 2018  | One Day Seminar on 'Engineering Intervention for enhancing profitability of Sugar Cane farmers |
| 3.    | 18 <sup>th</sup> Mar. 2018 | One day Seminar on Solid Waste Management & Technology   |

### Report on 'All India Seminar on 'Sources of Planet Energy, Environmental & Disaster Science: Glacier Melting & Its Challenges' (SPEEDS-2017)

A two day All India Seminar on 'Sources of Planet Energy, Environmental & Disaster Science: Glacier Melting & Its Challenges' (SPEEDS-2017) was organised jointly by IEI, UP State Centre and School of Management Sciences (SMS) on 9th-10th Dec, 2017.

Er R. N. Bhargava, Chairman ECOMEN Laboratories & an eminent Environment Engineer was the Chief Guest & Dr. Onkar Singh, Founder Vice Chancellor of Madan Mohan Malviya, Technical University, Gorakhpur was the Guest of Honour. Er S.N. Sahu, FIE, Senior Scientist at Telemetric & Telecommand Centre, ISSRO Lucknow was Keynote speaker. Prof. Bharat Raj Singh, Chairman UP State Centre & Director General (Technical), School of Managements Sciences welcomed the guests & spoke about limiting the global temperature within 2°C by the end of the century, which has been agreed upon at Paris Summit in the year 2015.



Release of proceedings

Chief Guest Er. R N Bhargava, in his address stressed about the need of stringent implementation of existing rules & regulations, which have been framed by Union & State Govt. so that people violating these rules & affecting environment will be imposed with punitive action. He also emphasized upon rain water harvesting & sewage treatment which

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should be done on top priority and no waste water should be disposed in drains without proper treatment.

The Keynote Speaker Er. S N Sahu elaborated about the use of remote sensing and space technology for the betterment of human kind & to convert the data into information to be used in containing green house gasses.

Dr. Onkar Singh, the Guest of Honour spoke about negative implication of climate change and sustenance of present and future civilization. He said that sensitization of the whole community is to be done on large scale to reduce global warming and green house gasses.

Few of the important papers /articles presented in the seminar are mentioned below:-

1. Urban Groundwater Management Challenge in Uttar Pradesh & Role of Aquifer Mapping by Dr. Venkatesh Dutta, BBACU, Lucknow.
2. Using Planet's Renewable Energy for Cleaner Environment by Dr Usha Bajpai, Centre of Excellence in Renewable Energy Education and Research University of Lucknow.
3. Conserving Natural Radiations Treasures Given by Ancient Science to 21th Century by Shrinkhala Srivastava & Saurabh Srivastava, Amity University.
4. Effect of Future Global Warming on Evaporation and precipitation Pattern: A Review and Future Prospects by Aga Mansoor, Shia P.G. College, Lucknow
5. Potential of Renewable and Clean Energy in India by Prof. Bharat Raj Singh, Chairman of UP State Centre & Director General (Technical), School of Management Sciences, Lucknow
6. Role of Liquid Crystals in Energy Harvesting by Prof. Vishal Singh Chandel, Integral University.
7. Glacier Melting Impact on Environment: How People Living In Countries Are Affected by Prof. Bharat Raj Singh & Prof Raghuvir Kumar.
8. Effect of Global Warming on Glacier Melting and its Challenges by Monica Mehrotra & Manisha Shukla, BBD Engineering College.
9. Hazards of Industrial Pollution and Demand for Clean Technologies: A Review by Prof. Amit Kumar Bhanja.
10. Effect of Environment on Building Materials: A Review by Rohit Maurya & Nishu Verma.

## Report on 'Energy Conservation Day-2017'

Energy Conservation Day was observed at UP State Centre of The Institution of Engineers (India) on 14 Dec. 2017. Er. S C Jha, Director Madhyanchal Vidyut Vitran Nigam Ltd., Lucknow was the Chief Guest and Er. Ashok Saxena, Superintending Engineer, Rajya Vidyut Utpadan Nigam Ltd., Lucknow was the Keynote Speaker.



*Chief Guest lighting the lamp*

In the beginning Prof. Bharat Raj Singh, Chairman of the State Centre welcomed the guests and participants & stressed upon the need to save energy by using energy saving devices & alternative sources of energy instead of energy generated by fossil fuel. Er Ashok Saxena, Keynote Speaker stressed the need for reducing generation of electricity through Diesel and Coal and shift to renewable energy such as Solar, Wind, Biomass & Hydro so that energy may be conserved for future generation.

Chief Guest Er S. C. Jha, elaborated the various ways to save energy such as using Solar light, CFL Bulb, LED and using energy efficient devices approved by Bureau of Energy Efficiency. He also said that consumers using more energy should be levied extra taxes so that it acts as disincentive for excess energy consumptions.

Convener of the event was Er J S Mishra, Past Hony. Secretary. In the end Er R K Trivedi, Hony. Secretary proposed vote of thanks.

*Season's Greetings &  
Best Wishes for the New Year  
2018*

## Report on 97<sup>th</sup> Annual General Meeting

The 97th Annual General Meeting of the Institution of Engineers (India), UP State Centre was held on 19th November 2017 (Sunday) at Engineers' Bhawan, River Bank Colony, Lucknow.



*A view of Dias*

Prof.(Dr.) Bharat Raj Singh, FIE, Chairman, IEI, UP State Centre heartily welcomed the members present and inaugurated the 97th AGM with a brief speech on the progress of UP State Centre with the cooperation of all the members, attached to the centre.

Er R K Trivedi, FIE, Hony. Secretary read out the pre-circulated notice and Agenda of 97th AGM and also read out the minutes of 96th AGM which was confirmed by the house. The Hony. Secretary then presented the Annual report of the UP State Centre for the fiscal year 2016-17. It was followed by general discussion on the activities mentioned by members present. The members in general expressed their pleasure at the activities of the centre. The Hony. Secretary presented the Audit Report of UP State Centre for the Financial Year 2016-17 and the house approved the same. The house decided to re-appoint M/s S. BAIJAL & CO., Chartered Accountants as the auditor of UP State Centre for the Financial Year 2017-18.

Two new members of S.C.C., Er. S. C. Mehra, FIE Chairman, Bareilly Local Centre and Dr. B. D. K. Patro, FIE, Chairman of Agra Local Centre were introduced to the members present in the AGM. Some of the members also shared their views to enhance activities of the centre by raising membership, participation & organizing events more frequently.

At the end, Er R. K. Trivedi, FIE, Hony. Secretary proposed vote of thanks.

## Head Quarter News

### IEI Service Spectrum for Engineering Community

- The range of engineering and technological knowledge to all members, planning and organising activities that impact engineering such as continuation of education courses, seminars, symposia, workshops, conventions, conferences, etc at both national and international levels.
- Providing access to R & D activities and engineering practices across multitudes of engineering and technological disciplines
- Focusing on new developments, techniques, products, processes and other issues of topical interest to boost professional growth
- Communication emerging engineering and technological scenario through IEI News, the institutional journal published monthly and insightful discourses and reviews on specialized engineering issues in IEI's annual publication Technorama' as well
- Providing advanced library services as well as knowledge interfaces at the IEI Headquarters and State and Local Centres
- Fostering national and international cooperation to promote new age excellence in engineering and technology
- Acting as an accreditation body for courses in engineering
- Acting as a qualifying body and conducting examinations for its non-formal education programme catering to aspirations of prospective entrants to the profession
- Supporting and rewarding individual pursuits and achievements in furthering that art and science of engineering and technology

### International Professional Engineers' Certification

By virtue of being a member of the international Professional Engineers Agreement (IPEA) since 2009. The Institution of Engineers (India) represents India and is empowered to establish and maintain the India section of the International Professional Engineers (IntPE) Register.

Details are available at [https://www.ieindia.org/Intr\\_Prof.aspx](https://www.ieindia.org/Intr_Prof.aspx)

### 'Professional Engineers' Certification

The Institution of Engineers (India) renders certificate of Competence to engineers by way of Professional Engineers Certification known as P. Eng (India). Professional Engineers (PE) Certification not only enhances the engineering

professional' stature, but also makes them suitable to maintain higher levels of authority and responsibility, enabling an engineer to become an independent consultant, government engineer or an educator.

Details including the Guidelines, Application Form, etc. are available at IEI website: [www.ieindia.org](http://www.ieindia.org)

### IEI Membership

The corporate membership of the Institution is open to any person with an accredited engineering degree with required professional experience. The membership portfolio based on accumulated professional experience and level of responsibilities includes: Associate Member, Member and Fellow grades, subjecting to strict scrutiny by a nominated high level Committee at IEI, HQ, Kolkata. For details and online application for IEI membership, visit: <http://www.ieindia.org>

### Membership Fee Structure (Inclusive of GST) Grade-wise

Fellow for Direct Enrolment : ₹ 12980

Member for Direct Enrolment : ₹ 4897

For Transfer :

MIE to FIE : ₹ 10620, ₹ 8567, ₹ 7505

AMIE to FIE : ₹ 10738, ₹ 9275, ₹ 7505

For Transfer :

AMIE to MIE : ₹ 2006, ₹ 2596, ₹ 2172

Associate Member : ₹ 4189

Student Member : ₹ 1500

Member Technologist : ₹ 4012

Associate Member Technologist : ₹ 3481

Institutional Member Membership Free : ₹ 1,77,000

### For further details, Please contact Director (Membership)

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### Call for Nomination for IEI Young Engineers Award 2018-19

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, 2018 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 travelling 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.

The Application Proforma may be downloaded from our website [www.ieindia.org](http://www.ieindia.org). Soft copy of the filled-in application should be forwarded to [award@ieindia.org](mailto:award@ieindia.org) by March 31, 2018. 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, 2018. The envelope containing the application should be super- scribed at the top with "IEI Young Engineers Award 2018-19" and name of the engineering division under which the applicant desires to be considered for the Award.

### EDITORIAL BOARD

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