

The Institution of Engineers (India)

U.P. State Centre

IEI NEWS

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

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September, 2016

FROM CHAIRMAN'S DESK



We all know that month of August is very pious month for Indians and we celebrated our Independence day. The detail report is given in this issue elsewhere. I know that our members are also involved in other organizations but it was disheartening to see the presence of few members

only at the time of our National Flag hoisting ceremony. There was a Lecture meeting on the topic, "Textile: Yesterday, Today and Tomorrow" and was very informative about the textile industry scenario. The report is published in this magazine at appropriate place

This month started with Teej, then Nag Panchami, Independence Day, Raksha Bandhan and ended with the Janmashtami festival, the birth ceremony of Lord Krishna. I am sure that now you are prepared to celebrate the Engineer's Day to commemorate the birthday of the legendry engineer Bharat Ratna Sir Mokshagundam Visvesvaraya. The topic of this year is-"Skill Development for Young Engineers to Reform the Core Sector: Vision 2025". I hope that your presence with your spouse in large numbers will make the celebration a grand success.

You might be observing that the State Centre is passing through a financial crisis at present because of unavoidable and urgent payments of arrears and so you are once again requested to take initiative for organizing technical activities as well as be active in membership drive to mitigate the present crisis.

(A.K. Gupta) FIE

Forthcoming Events at IEI, U.P. State Centre

- 15.09.2016 49th Engineers Day
- 03.10.2016 World Habitat Day
- 14.10.2016 World Standard Day

REPORT ON 'TEXTILE: YESTERDAY, TODAY AND TOMORROW'

A technical lecture meeting was held on 31st July 16 on the topic *Textile Industry: Yesterday, Today & Tomorrow* at the Institution of Engineers, UP State Centre. Sri Mukesh Kumar Singh, Professor in UPTTI, Kanpur was the speaker. He told that earlier days quality of cloths were substandard and the productivity was also less in traditional weaving methods.



Quality and functionalities were not the prime criterion of traditional textiles. Cotton, wool and silk were major constituent fibres before nineteenth century. The weft insertion rate of traditional hand loom was only 40-50 meters per minute. Day by day, increasing population of the world has compelled the scientific community and textile machine manufacturers to enhance the productivity of current fabric and machine manufacturer to invent new methods of fabric formation with higher productivity. Consequently, the airjet loom at present is capable of 3000 meter per minute weft insertion. So many new fibres has been invented and commercialized successfully. Spectra and Dyneema, both Ultra high molecular weight polyethylene (UHMWPE) fibre, are many times stronger than steel fibre. Today, textiles are not only the means to cover the body but also the way to represent the individuality and personality in every field, e.g in home furnishing, packaging, automobile, medical, agriculture, defense, etc. The clothes of today are more comfortable than ever before because science helps us to understand the science of comfort in better way. The need of comfortable fabric for a human body is established and the clothes have become smart clothes. The Phase Change Materials (PCM) are loaded on textiles items by microencapsulation technique. Consequently, clothes are able to normalize the environmental

Cond. page 2 colmn 1

fluctuation, to keep the body temperature near to body comfort zone. Therefore, these types of clothes help the Wearer in both summer and winter by absorbing and releasing the heat. Wide variety of fancy yarns has been manufactured to develop various fancy and functional clothes.

Three dimensional woven fabrics are seamless, hence provides seamless forms for various composite structures, like aero-planes including war-planes. Uses of micro-electronic instruments in the clothes are being used to produce GPS reliable clothes and the clothes for defense personnel are modernized using these techniques.

He also informed that not only the clothes, which can absorb water of our body and able to destroy the bacteria, are produced now-a-days, but also clothes which can transmit fragrance of Rose, Sandalwood, marigold and other flowers are produced. He told that even human organs, like urinary bladder, knee cartilage and blood vessel are also being produced with the help of tissue engineering by using various fibres. Bacteria resistant stitches are also used to avoid infection and it also leave no scars afterwards.

Earlier, Er A K Gupta Chairman welcomed the vast gathering of senior and eminent guests. Sri C B Gupta introduced Sri Mukesh Kumar Singh and conveyed about his contribution in the Textile field. At the end Sri Praveen Malhotra, Hony. Secretary delivered vote of thanks.



INDEPENDENCE DAY CELEBRATED

Independence Day was celebrated with fervor and enthusiasm. Er. A.K.Gupta, Chairman of the State Centre hoisted the National Flag followed by National Anthem. On this occasion Sri Tribhuwan Singh recited a poem on Nationality and the present scenario. Sri J M L Jaiswal reminded us about our duties towards the betterment of the Nation. Sri R P Katiyar reminded about the history of our Independence and then he continued his speech quoting the 'Nishkam Karma Yog', from 'Sri Madbhagwadgita', a principle of selfless living with love and affection towards all creature of this Universe which can be attained through proper practice of Yog.

NEWS FOR ACTION REQUIRED

REQUEST FOR INVIGILATION WORK FOR AMIE EXAMS

Interested Members are requested to send their willingness for invigilation Work in AMIE Winter Examinations, to be held from 3rd to 9th Dec. 2016 (Remuneration Rs 400/- per meeting of 3hrs.)

Praveen Malhotra, FIE
Honorary Secretary

AMIE COACHING CLASSES

The UP State Centre of the Institution of Engineers (India) may start AMIE coaching classes at it's office building at River Bank Colony, Lucknow, provided sufficient no. of students enroll themselves in particular branch. The interested T/ST members may contact personally in the office or on our phone no. 0522-2625322 during office time from 12:00 to 07:00 PM.

Praveen Malhotra, FIE
Honorary Secretary

FACULTY POSITIONS IN ENGINEERING COLLEGES OF UTTAR PRADESH

Members of IEI, who have retired from services and possess necessary qualifications, may offer their services 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.

Praveen Malhotra, FIE
Honorary Secretary

PROJECT GUIDE FOR SECTION 'B' STUDENTS

Interested Members are requested to send their application along with their BIO-DATA for becoming Project Guide for Section 'B' Students of the Institution of Engineers (India). (Remuneration Rs 800/- per student).

Praveen Malhotra, FIE
Honorary Secretary

CALL FOR PAPERS FOR 'ER V S CHAUHAN-MRS. RAJYASHREE CHAUHAN AWARD'

Original & unpublished Technical Papers are invited from the members/non-members on Environmental Engineering. Papers may be on Applied research, General Topic or Construction Management. The best paper will be presented with 'Er V S Chauhan-Mrs. Rajyashree Chauhan Award' which carries a cash prize of Rs5000/- and a certificate. The award will be given in the next AGM of UP State Centre, scheduled to be held in the last week of November 2016. The technical papers should be neatly computer typed on A-4 size sheets, leaving proper margin. Technical papers are to be submitted in Duplicate. The last date for receiving papers is 30.09.2016.

CALL FOR PAPERS FOR 'DR. P S NIGAM POWER SECTOR AWARD'

Original & unpublished Technical Papers are invited from the members/non-members on Power Sector preferably Hydropower Engineering & Technology with special reference to Uttar Pradesh. The best paper will be presented with 'Dr. P. S Nigam Power Sector Award' which carries a cash prize of Rs2500/- and a certificate. The award will be given in the next AGM of UP State Centre scheduled to be held in Nov. 2016 The papers should be neatly computer typed on A-4 size leaving proper margin and submitted in Duplicate. The last date for receiving papers is 30.09.2016.

CALL FOR PAPERS FOR ANNUAL TECHNICAL SESSION 96TH AGM

Technical Papers are invited from the members /non-members on any discipline of engineering or interdisciplinary in nature. Only original & unpublished papers presented in person during Annual Technical Session to be held along with 96th AGM in Nov. 2016 shall be considerate for the following awards:-

1. Er. Hari Mohan Memorial Award: This award carries a cash prize of Rs.2500/- and a certificate and will be awarded to the best paper.
2. The Institution Award: This award carries a cash prize of Rs2500/- and a certificate. The award will be given to 2nd best paper.
3. Er Musaddi Lal Memorial Award: This award carries a cash prize of Rs1000/- and a certificate and will be awarded exclusively to the best Civil Engineering Paper not covered under any other award.

The papers should be neatly computer typed on A-4 size leaving proper margin and submitted in duplicate.

The last date for receiving papers is 30.09.2016

FELICITATION OF PLATINUM JUBILEE MEMBERS

Members attaining 75 years of age in the year 2016 who have not been felicitated earlier, will be felicitated during 96th AGM of UP State Centre to be held in Nov. 2016 . Such members are requested to send their names along with membership no., grade, branch of Engineering & brief bio-data latest by 30.09.2016 for making necessary arrangement.

REVISED RATES FOR AUDITORIUM AND GUEST HOUSE ETC.

Auditorium

- i. Auditorium including front and side lawns with AC Rs. 16000/- per day
- ii. Auditorium including front and side lawns without AC Rs. 13000/- per day
- iii. Auditorium only with AC Rs. 13000/- per day
- iv. Auditorium only without AC Rs. 10000/- per day
- v. AC Committee Room Rs. 7000/- per day
- vi. Reading Room/Dormitory Rs. 3000/- per day

Guest House

- | | <u>Member</u> | <u>Non-Member</u> |
|-----------------|-------------------|-------------------|
| i. AC Room | Rs. 500/- per day | Rs. 990/- per day |
| ii. Non-AC Room | Rs. 300/- per day | Rs. 600/- per day |

Note: Service Tax will be extra as applicable.

NOTIFICATION FOR R&D GRANT-IN-AID (2016-17)

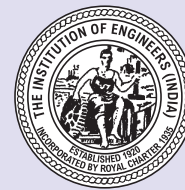
The Institution of Engineers (India) invites applications, as per the format available on our link <http://www.ieindia.org>, for grant-in-aid in support of industry-oriented R&D projects for the session 2016-2017 for supporting students (Diploma/B Tech/M Tech/Research Scholars) working under the guidance of faculty members who should be Corporate Member of IEI. After filling up the application as per the given format send the application through email to research@ieindia.org and one printed copy of the same to the following address:

Director (Technical)
The Institution of Engineers (INDIA)
8 Gokhale Road, Kolkata 700 020

Applications received in format other than given in the above link will not be accepted. Application should be forwarded through the Guide, Head of the Department and Head of the Institution. Please note that preference will be given to projects received from Institutions who are members of The Institution of Engineers (India), projects dealing with industry-oriented/applied research with matching grant from industry. In case of project proposal from UG and Diploma students it is desirable that he/she be a member of the Students' Chapter of the IEI, if available at his/her institution. In case of proposals from PG and PhD scholars, the applicants should be members of IEI. The grant is not intended for the faculty members who have access to other avenues for research funding. Proposals received will be scrutinized and the recipients of R&D Grant will be informed accordingly.

IEI Industry Excellence Award 2016

The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020



Recognising Industry Leaders
Applications are Invited from Industries
Last date : Extended to August 31, 2016

For Information Brochure & Application form please visit <http://www.ieindia.org/indexcel2016>

Award will be presented at
31st Indian Engineering Congress
during December 16-18, 2016 at Kolkata

For further query contact :

Mr Tanmoy Chakraborty, Executive (Technical)

Phone : (033) 40106259/Mob : 9804461661

E-mail : award@ieindia.org / iei.technical@gmail.com



31st INDIAN ENGINEERING CONGRESS

Kolkata, December 16-18, 2016

Theme:

**SMART Technologies for Natural Resource
Conservation and Sustainable Development**

Organized by:

The Institution of Engineers (India)

Hosted by: West Bengal State Centre

TWENTY-FOURTH IEI CONVOCATION AND TECHNICIANS'/STUDENTS' CONVENTION

Pune, October 22-23, 2016

Sub-themes:

- Building and Construction — Low Cost Housing, Construction Material, Techniques, etc.
- Energy Services — Distributed Generation using Renewable Sources like Solar, Wind, Biomass, Mini Hydel — based Energy Sources, etc.
- Water Supply — Low Cost Water Treatment Techniques
- Sanitation Services
- Irrigation
- Food Production, Preparation and Preservation
- Transportation — Zero Emission Vehicles
- Information and Communication
- Environmental Conservation and Protection
- Human Comfort

With this in focus, papers are invited from Technician/Senior Technician members, students of polytechnics and engineering colleges for presentation in the All India Technicians'/Students' Convention to be held on 22 Oct 2016 at Pune. The papers shall be on innovative ideas, design, prototype and technology development, case studies, survey details augmenting innovations, etc. pertaining to the theme so as to reach at Pune Local Centre latest by 25 Sep 2016.

Organized by: **The Institution of Engineers (India)**

Hosted by: **Pune Local Centre**

For further information, please contact :
Organising Secretary (Convocation 2016)
The Institution of Engineers (India)

Pune Local Centre, 1332 Shivaji Nagar, J M Road, Pune 411 005

Phone : (020) 2553 3376, Fax: (020) 2553 0150

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