

## ASSOCIATION NEWS

### Activities of The Association of Engineers, India during December, 2014 to May 2015

The Association of Engineers, India has, at present, a total number of Corporate and Non-Corporate (i.e., Associates and Institutional) Members of 974 till today. The Association publishes its Journal regularly. During December 2014 - May 2015, important activities of The Association are briefed as follows.

#### A. Details of regular courses that were conducted by the Association during last six months are given below:

- With the admission of 30 students in the new batch in July 2014, the course on 'Advanced Diploma in Industrial Safety' is being continued with the affiliation of West Bengal State Council of Technical Education.
- In July 2014, a new batch of 10 students was admitted in the Ordinary, 'O', Level of the Vocational Training course on 'Construction Supervisor' affiliated to the West Bengal State Council of Technical Education.

Conducting campus interviews is a regular feature for students of the above-mentioned courses. Companies like Sapoorjee Palanji and others conducted Campus Interviews at the Training Centre of the Association at Salt Lake City, Kolkata.

#### B. Events on Rain Water Harvesting

The Association of Engineers, India is trying to spread the practice of rainwater harvesting among people since the year of 2007 considering the imminent problem of usable water scarcity. In this direction, one day seminars, one/two days training programmes, mass awareness programmes, etc. have been being organized.

- The Association of Engineers, India, at present, conducts **discussion sessions on Rainwater Harvesting on the Second Sunday of every month from 10.30 to 11.30 am** at its Training Centre at IA-11, Salt Lake, Sector-III, Kolkata- 700097 (near Tank No. 13). Sessions have been organized in the months of December 2014, January, February, March and April, 2015. With small group of participants, lively interactive sessions were held. Participants were taken to rainwater harvesting installations at the AEI to show them rainwater harvesting structures and to have the feeling that this could be easily implemented at any place. Experts from the AEI discussed various issues related to erecting rainwater harvesting system and also demonstrated some experiments regarding water quality.
- In order to attract participants, TV channel, Radio and local Newspapers are being involved to broadcast/ publish the need of rainwater harvesting. The matter has been

uploaded on rainwater harvesting page of the AEI website ([www.aeindia.org.in](http://www.aeindia.org.in)) and of Facebook, a social networking site. Through this Journal of the Association of Engineers, India, it is tried to propagate the idea of rainwater harvesting to readers of the journal.

### **C. Report on a One Day Seminar on ‘Electrical Safety’**

On February 07 2015, a One Day Seminar on ‘Electrical Safety’ was organized by the Association at its Training Centre, Kolkata. Large number of students of Elite Polytechnic Institute, Mogra, West Bengal and some others along with few members of the AEI attended the event. Er. S.N. Basuray, the Honorary Secretary of the Association, made a short introduction about the Association and requested Er. D. Bhadra to deliver the Welcome Address. Er. Bhadra briefed on the topic and welcomed the participants for showing their interest to undertake such an important topic.

In the 1st Technical Session, Er. B. Mukhopadhyay, former Resident Manager, Loss Prevention Association of India, delivered a lecture on “Hazardous Area Classification in Manufacturing Industries and Selection of Appropriate Electrical Equipment & Appliances”. Next speaker in this session was Er. S.N. Nan, retired Deputy Chief Engineer of West Bengal State Electricity Board. He spoke on “Importance of Earthing System in Electrical Power Distribution Practices”. They discussed about different safety related issues and prospects of undertaking the course on safety offered by the Association.

After a short break, 2nd Technical Session was conducted. Er. S.K. Alley, retired Deputy General Manager of Steel Authority of India Limited, discussed on “Safe Use of Electricity in Industries”. He stated about different safety considerations to follow in day-to-day activities and in a plant. Cases of few fatal accidents and reasons for the same were stated. He reiterated that as there is a mandatory requirement of appointing Safety Engineer in every large-size plant, there is good employment opportunity existing in this area for a budding engineer. The prospect of the Advanced Diploma course on ‘Industrial safety’ conducted by the Association was also mentioned. At the end, Prof. Dr. Madhusudan Bhattacharyya, retired Professor of the Department of Mechanical Engineering of Jadavpur University and the President of the Association of Engineers, India, briefly shared his long standing experience in association with large number of industries regarding few mishaps occurring due to unconsciousness and ignorance of people about different safety norms. ‘SAFETY’ is nothing but ‘SAFE To You’. He urged the participants to be careful about following the safety practices.

### **D. Report on a One Day Seminar on “High Voltage D.C. Transmission and National Grid”**

On February 22 2015, a One Day Seminar on “High Voltage D.C. Transmission and National Grid” was organized at the Training Centre of the Association. Prof. Dr. Madhusudan Bhattacharyya, the President of the Association, addressed the gathering in the inaugural session. He spoke on the economical aspects of using the AC or DC

transmission. He stated that most of the electrical machines and appliances are DC driven, but AC transmission is economical within few kilometers, and beyond that DC transmission is profitable. He stressed on the knowledge to acquire by the students on this area. Prof. Dr. Santanu Das, Professor of the Department of Mechanical Engineering, Kalyani Govt. Engineering College, and the Editor of the Association of Engineers, India, welcomed the participants for coming to the Association to learn about the important topic of electrical transmission systems. He expressed the hope that after this day's deliberations, attendees would have some clear idea about this topic.

Er. S.N. Nan, retired Deputy Chief Engineer of West Bengal State Electricity Board, was the first speaker of the technical session. He made a quick review on High Voltage (HV) transmission systems, their merits and demerits and availability of such HVDC lines. Next he talked on the basics of grid, power grid, transmission lines, and the history and evolution of grids in India. He mentioned Smart grid and Intelligrid to be the latest grid technology. Grids promote power trading of states and neighbouring countries. Next speaker was Prof. Dr. Krishnendy Chakrabarty, the Principal, Kalyani Govt. Engineering College. He spoke on the fundamentals of DC power generation, role of brushes and armature. He stated that AC transmission loss can be as high as 30% due to skin effect. However, DC power loss is minimal, DC line needs less insulation, has no dielectric loss, has no synchronization or stability problem and needs less metallic wire. Next, he reviewed the electrical equipment needed in a HVDC transmission system. There were lively question- answer session at the end and during the deliberations.

- E. There is a proposal for conducting one- or two- day course/ seminar on Machine Tools, and Modern Power Plants in the coming days. Interested persons may follow the AEI website or contact the AEI Office for further detail.
- F. The new website of the Association, [www.aeindia.org.in](http://www.aeindia.org.in), is being revamped. Detail of different short courses, custom-made training programmes, workshops and lecture seminars may please be found out in the website. Invitation to different meetings conducted time to time can also be found out in the website.

Honorary Secretary

#### NEW ENROLMENT

Sl. No.	Name	Grade	Date of Election
1.	Subhas Bhadra	F (For one year)	08.1.2015
2.	Kashinath Saha	LF (Transferred from F)	20.4.2015