

ASSOCIATION NEWS

Activities of The Association of Engineers, India during July-December, 2014

The Association of Engineers, India has a total number of Corporate and Non-Corporate (i.e., Associates and Institutional) Members of 973 till today. The Association publishes its Journal regularly. During July-December 2014, important activities of The Association are briefed in the following.

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

- The Vocational Training course on ‘Construction Supervisor’ in its Advanced Level was successfully completed by 26 students in the month of June 2014, the course being affiliated to the West Bengal State Council of Technical Education.
- The course on Advanced Diploma in Industrial Safety was started in July 2014 with 30 students in the new batch 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 Level of the Vocational Training course on ‘Construction Supervisor’ affiliated to the West Bengal State Council of Technical Education.

Campus interview could be arranged for students of Advanced Diploma course on ‘Industrial Safety’ and ‘Construction Supervisors’. Companies like Sapoorjee Palanji and others conducted Campus Interviews at the Association office at Salt Lake City, Kolkata.

B. Events on Rain Water Harvesting

The AEI as a professional organization of engineers is endeavouring to propagate rainwater harvesting among masses since 2007. In this direction, one day seminars, one/two days training programmes, mass awareness programmes, etc. were and are being organized. Recently these efforts are further expanded.

- The Association of Engineers, India is now organizing discussion sessions on rainwater harvesting on second Sunday of every month from 10.30 to 11.30 am at the Training Centre at IA-11, Salt Lake, Sector-III, Kolkata- 700097 (near Tank No. 13). In order to attract participants, TV channel, Radio and local Newspapers were requested to broadcast/publish

the matter at appropriate places. The matter has been uploaded on rainwater harvesting page of the **AEI website (www.aeindia.org.in)** and of Facebook, a social networking site. Through the Journal of the Association of the Association of Engineers, India, it is tried to reach readers of the journal with an appeal to them to propagate the idea of rainwater harvesting among the masses.

- Three sessions have already been organized in the months of July, August, September and November 2014. With small group of participants, lively interactive sessions were held. Power point presentation using LCD projection system was made. 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 done at any place. Experts from the AEI discussed various issues related to erecting rainwater harvesting system and also demonstrated some experiments regarding water quality.
- Few days ago, there has been another very encouraging session. It was in BJ Park of Salt Lake. Participants were all morning walkers numbering sixty five. Rainwater harvesting was explained in details. Rainwater quality was discussed with particular reference to the research works carried out at the Association. Er. S. Nag presented some experiments on water samples collected from different sources. The session was very interactive and lively. There were about 20 questions on different aspects and all were answered satisfactorily. The session ended with a vote of thanks to the AEI expert.

C. Report on a One Day Seminar on Safety Awareness in Industries

On September 20 2014, a One Day Seminar on ‘Safety Awareness in Industries’ was organized by the Association at its Training Centre, Kolkata. This programme was conducted as requested by students of Elite Polytechnic Institute, Mogra, West Bengal. Large number of students along with staff and faculty members attended the event. Er. S.N. Basuray, the Honorary Secretary, Prof. Dr. Santanu Das, the Editor, and Prof. Dr. Madhusudan Bhattacharyya, the President of the Association were on the dais during the Inaugural Session. Er. S.N. Basuray and Prof. Dr. Santanu Das, Professor and Head, Department of Mechanical Engineering, Kalyani Govt. Engineering College, addressed the gathering and outlined the importance of attending such a seminar on an important topic involving safety aspects. They also stated the activities of the Association of Engineers, India which is the oldest professional organization of Engineers in India. Prof. Dr. Santanu Das made a call to associate with the Association of Engineers, India by taking membership, etc.

In the 1st Technical Session, Er. C. Chatterjee, retired Joint Chief Inspector of Factories, Govt. of West Bengal, and Er. S.N. Nan, retired Deputy Chief Engineer of West Bengal State Electricity Board delivered lectures on different safety related issues and prospects of undertaking course on safety. They also shared some of their experience during their tenure in different industries. 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 different Safety considerations to follow in day-to-day activities and in a plant. Few glimpses of fatal accidents and reasons for the same were also highlighted. The need of appointing Safety Engineer in every large-size plant is now made mandatory by a law. This raises good employment opportunity to a budding engineer, he reiterated. The prospect of the Advanced Diploma course on 'Industrial safety' conducted by the Association was also mentioned. Next speaker was Prof. Dr. Madhusudan Bhattacharyya, retired Professor of the Department of Mechanical Engineering of Jadavpur University and the President of the Association. He welcomed the participants to the Training Centre of the Association, and shared his long standing experience in industrial consultancy reference to few mishaps due to unconsciousness and ignorance about different safety norms must to follow. He stated 'SAFETY' is nothing but 'SAFE To You'. He invited queries from the participants with regard to anything related to safety aspects, etc. There were lively interactions with the speakers and the audience.

D. Report on Teacher's Day Celebration

On September 21 2014, Teacher's Day was celebrated by the students of Advanced Diploma in Industrial Safety course at its Training Centre, Kolkata the Association. All the teachers of the said course were invited to participate in this programme. Students welcomed teachers participated in the event with flower bouquet and a plaque with the photograph of Dr. Sarvapalli Radhakrishnan. Amidst a gleeful, solemn atmosphere, teachers present spoke about the significance of Teacher's Day and shared glimpses of their student life. Students conducted some surprise-extempore contest among the teachers. Few students performed recitation, etc. for celebrating the event in a befitting manner.

E. Report on a Paper Meeting

On October 18 2014, a Paper Meeting was arranged on 'Application of Grinding Fluid: Improvement towards Eco-Friendly Manufacturing'. Large number of students along with staff and faculty members attended the event. Prof. Dr. Madhusudan Bhattacharyya, the President of the Association, presided over the event and discussed about the relevance of the topic to the

audience. Shri Sirsendu Mahata, Assistant Professor of the Department of Mechanical Engineering, Kalyani Govt. Engineering College, delivered the first lecture on 'Grinding Fluids and their Application Methods'. He discussed on salient features of grinding, and thermal-related problems experienced in grinding. He reviewed different coolants and bio-degradable fluids that can be applied in grinding. He shared his experience on the influence of mist cooling, flood cooling and cooling with the use of a specially-designed multi-nozzle developed at Kalyani Govt. Engineering College on grinding performance. He reported better grinding performance using a multi-nozzle than the other conditions tested. There were lively interaction session after the lecture.

Next Prof. Dr. Santanu Das, Professor and Head, Department of Mechanical Engineering, Kalyani Govt. Engineering College, spoke on 'Application of Grinding Fluid: Improvement towards Eco-Friendly Manufacturing'. He introduced the process of surface grinding in detail and the difficulty experienced in conventional flood cooling systems due the presence of a stiff air layer surrounding the rotating wheel periphery. He discussed different methods of interfering the air layer to facilitate supply of grinding fluid inside the grinding zone to control grinding temperature. Next he reviewed the potential problems regarding environmental pollution and health problems faced by an operator when using synthetic and mineral oil during grinding. He shared his experience based on the experiments done under his supervision on this aspect. Use of quite small quantity of fluid leading to minimum quantity lubrication (MQL) was reported to be an area of investigation along with cryogenic cooling application. Use of bio-friendly vegetative oil is also another way of avoiding pollution and health hazard. Lot of works was reported to have been being carried out to achieve environment-friendly manufacturing ensuring sustainable development. There was a question-answer session after the lecture. At the end, Dr. Sanchayan Mukherjee of the AEI gave a vote of thanks.

- F. There is a proposal for conducting one- or two- day course/ seminar on Modern Power Plants, High Voltage DC Transmission and National Grids, Electrical safety, and Machine Tools during January-February 2015. Interested persons may follow the AEI website for further detail.
- G. The new website of the Association, **www.aeindia.org.in**, is being revamped with a new look having different information. 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.	Er. Ahin Banerjee	LAM	25.6.2014
2.	Er. Gopal Sadhukhan	M	25.6.2014
3.	Er. Bimalendu Pal	LAM	21.8..2014
4.	Er. Chandan Das	F	20.9.2014
5.	Er. Ajit Mondal	LAM	20.9.2014

COURSES OFFERED

By The Association of Engineers, India

Sr. No.	Course details	Duration	Session Starts
1.	Post Diploma Programme (a) Part time Diploma in Industrial Safety	18 months	Contact AEI
2.	Short Term Vocational Training Programme (a) Construction Supervisor 'O' Level (b) Construction Supervisor 'A' Level	Six Months Six Months	Affiliation Awaited

Dear Members,
Should you desire to conduct a programme on behalf of us, contact us with details.
Please lend your valued assistance in advertisement-collection for our ACCREDITED Journal.
Your suggestion for improvement of our activities are welcome.
Please induct one new member; members are our assets.

Sincerely yours



president

07-06-14