



The Indian Engineer

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Message from the Chairman

This Newsletter, though for March 2016, covers events till April 4, 2016 when ECI's Foundation Day was celebrated at Mirza Ghalib Hall, SCOPE Complex, Lodhi Road, New Delhi. Shri Suresh Prabhu, Union Minister of Railways was the Chief Guest who gave away the 2016 Eminent Engineer Awards to Dr. D V Kapur (Industry category) and Dr. Ashok Jhunjhunwala (Research and Consultancy category). A brief report on the event appears elsewhere in this Newsletter.



Shri Suresh Prabhu also distributed first 5 certificates to Sr. Professional Engineers registered by ECI. It will be recalled that the registration of Professional Engineers, Associate Professional Engineers, etc., on a voluntary basis was launched on November 16, 2015 at ECI's National Conference, as Engineers Bill was getting delayed. I have sent several emails to all Member Associations regarding this registration which is to be done jointly with them. The details of registration announcement, categories, forms, code of ethics, disciplines to be covered, etc., are available on our website www.ecindia.org. A Board of Registration for Professional Engineers (BRPE) has been formed under the Chairmanship of Mr. Mahendra Raj, the senior most practicing engineer in the country. National Committees to screen/evaluate the applicants in various disciplines and to make recommendations to the BRPE, are to be set up by respective Member Associations. By now we have received 680 Registration Forms for Sr.PE/PE/APEs and 630 Forms for other categories such as Student/Apprentice Engineers. Registration certificates have been issued to 430 Sr.PEs/PEs/APEs after approval by BRPE. A concessional fee @50% had been announced for registration till March 2016. This has been extended till June 30, 2016. There will be no further extension. Special provision and fee has been specified for Engineers with experience of 20-30 years or more under 'Grandfather' clause. Member Associations are requested to publicize and actively participate in this. This will become a major activity for ECI and its Member Associations.

The term of the present Board of Governors of ECI is till June 30, 2016. Soon the process for electing next Board of Governors will get started. Member Associations are requested to actively participate in it.

I look forward to continued support from our Member Associations.


(Uddesh Kohli)

"The Structure: Works of Mahendra Raj" by Shri Mahendra Raj, March 15, 2016

Shri Mahendra Raj, Senior Professional Engineer (ECI), senior member of CEAI and renowned Structural Engineer has designed many iconic structures, some of which are acclaimed all over the world. His important works have been compiled in a book. This book was launched in a function held on 15th March 2016 at India International Centre, New Delhi.


From the Editor's Desk



Monuments have been created for thousands of years, and they are often the most durable and famous symbols of civilizations. These are frequently used to improve the appearance of a city or location. Structures created for others purposes that have been made notable by their age, size or historic significance may also be regarded as monuments.

In India we have monuments signifying different historical periods, Taj Mahal, Delhi Red Fort, Fatehpur Sikri, etc, right down to the modern times like Lotus Temple, Hall of Nations at the Pragati Maidan. We have a basic duty to ensure that these monuments are conserved and protected for our future generations.

There is a campaign underfoot to bring down the famous 'Hall of Nations' situated at the Pragati Maidan in New Delhi, for the sake of building some other utilitarian structures. The "Hall of Nations" building signifies a very unique design which is not available nor evident anywhere in the world, today. To destroy it would be to create a vacuum which would deprive the future generations of an iconic structure of post independent India. An alternate solution being floated is that to build a mini Hall of Nations and bring down the original one. This mini representation would be conserved. However, this mini Hall of Nations can never take the place of the original one. Can a mini Taj Mahal have the same respect and pride what the original portends to the mind of an Indian? Let us all unite and request our Honourable Prime Minister, by sending individual submission to him, to instruct the concerned to let the iconic Hall of Nations stand and be conserved for posterity, as a symbol of post Independent India, for our future generations.


(B.R Jain)

Registration of Professional Engineers

- 1) **Introduction:** Registration of Professional Engineers, Associate Professional Engineers, Student Engineers, and some other categories on a voluntary basis is going on since 16th November, 2015. Member Associations (MAs) have a major role to play as they call for applications, screen them through their set up National Committees (NCs) for respective fields/disciplines of engineering. These NC give their recommendations to the Board of Registration of Professional Engineers (BRPE) set up by ECI.
- 2) **Benefits of Registering :** The Registration, enhances the credibility and image of the Engineer. His/her acceptance by industry, institutions, clients and other organisations goes up when he/she mentions the fact of this registration as PE (or APE or SE) which distinguishes him/her from those who are not registered. We are informing the various government departments, public sector organisations, local authorities, industry associations regarding the National Register. Specifically, it will result in:
 - (i) Better credibility and possibility to make use of the branding of ECI and concerned Member Associations, as the names are being listed on the website
 - (ii) Using the Certificate of Registration as PE in the National Register as a part of CV, and
 - (iii) Better prospects for assignments/ jobs after this is publicised to client/employer organisations.
- 3) **National Registers :** There are separate National Registers for (i) Professional Engineer (P.E), (ii) Associate Professional Engineer (APE), (iii) Apprentice/ Graduate Engineers (ApE), (iv) Junior Apprentice Engineer (JrApE), (v) Student Engineer (SE) and (vi) Diploma/B.Voc Student Engineer (DiSE). There are separate National Registers under each category for different engineering fields/disciplines: Construction, Consulting, IT, Computers/Telecom/Civil/Electrical/Mechanical/Chemical/Mining/Metallurgy/Industrial/Aeronautical Engineering, etc. The details and Criteria for registration under each category, Disciplines and Code of Ethics which the applicant has to sign, are given on the web site www.ecindia.org.
- 4) **Categories and Fee:** Initial registration fee is Rs. 3000 for PE, Rs. 2000 for APE, Rs 1000 for SE and DiSE. And for other categories, the fee is Rs 2000. Fee will be 50% for those registering till June 30, 2016. A special concessional fee of Rs. 1000 will be applicable for those applying for PE under 'Grandfather' category till June 30, 2016. The fee structure is subject to change in future. The registration is subject to renewal after 5 years.
- 5) **Continuous Professional Development (CPD):** Each PE/APE is expected to meet minimum CPD requirement before being considered for renewal of registration. Nature of the programmes constituting CPD activities and credit hours to be earned are given on the web site www.ecindia.org. It is the aggregate of credit hours earned in 5-years that will determine as to whether a PE has secured at least 250 credit hours within his/her five years' registration validity period or not, for re-registration. MAs have a major role in organizing the CPD programmes for respective disciplines

Distinguished Engineer : Dr. Ajay Mathur

Dr. Ajay Mathur has experience across all stages of the technology cycle, and various cross-cutting aspects of technology commercialization. Dr Mathur is a chemical engineer, and obtained his Masters as well as Doctorate from University of Illinois, USA.

He started his career in the US and right from the beginning was deeply interested in all aspects of energy.

He is widely known for his contribution in:-

Policy : Standards & Labeling for energy-efficient appliances; Perform, Achieve & Trade programme for energy-intensive industries; Energy Conservation Building Code for commercial buildings; Market Transformation to LED lighting

Financing : Integration of clean-energy technologies in World Bank financing; utilization and mainstreaming of GEF and Montreal Protocol funds; business model framework of the Green Climate Fund; Aggregation and bulk procurement of LED lights for market transformation; Creation of a Partial Risk Guarantee Fund and a Venture Capital Fund to stimulate investment in energy efficiency



Shri N. Chandrasekaran

Institutional Development: Development of Energy Engineering Division at TERI; Vision, Approach and Operations of the Bureau of Energy Efficiency; Business Model Framework and Institutional Policies of the Green Climate Fund; Setting up and operationalization of a CDM business in Suzlon Energy Ltd.

International Negotiations : Lead Indian (and G-77) negotiator on issues related to the development & transfer of technology in the climate change negotiations, 2007-2011, leading to the successful creation of the Technology Mechanism and the Clean Technology Centre & Network

Research : Design, characterization and development of fluidized bed boilers, and of fuel cells

Prototyping & Commercialization : Double-blast cupolas for foundries and gas-fired furnaces and recuperators for glass industry

Assessment : Wind turbine performance; effectiveness of technologies to phase out ozone-depleting substances

Production & Marketing : Wind energy turbines.

Dr Mathur presently is the Director General of The Energy and Resources Institute(TERI) Darbari Seth Block, New Delhi.

Foundation Day of ECI on 4th April, 2016

Eminent Engineer's Awards instituted by Engineering Council of India were presented by the Chief Guest, Hon'ble Union Minister of Railways, Shri Suresh Prabhu to Dr. D V Kapur in the Industry category for his visionary leadership in systems oriented management of power sector with technology innovations and in dissemination of project management culture in industry and infrastructure and to Dr. Ashok Jhunjunwala in Research/Consultancy category for his contributions in carrying out numerous technological innovations and commercialization towards making Telecom, IT and Power



Dignitaries on the Dias



Dr. D.V. Kapur Being Honoured as an Eminent Engineer, by the Honourable Railway Minister Shri Suresh Prabhu

available and affordable to Indian people and for being the pioneer in promoting industry-academia interface and university based incubation in India. Shri Suresh Prabhu also gave first five Senior Professional Engineer Certificates to the recipients. Registration

of Professional Engineers on voluntary basis has been recently initiated by ECI

Speaking on the occasion, the Minister said that Dr D.V. Kapur and Prof A. Jhunjunwala are living examples of what can be achieved through vision, planning, hard work and effective leadership. He stressed on the increasing importance of greater professionalization of the fraternity and called upon the gathering to come forth and contribute to government's flagship programs like "Make in India", "Digital India" and "Skilling India". He said that to plan and implement projects, we require high quality engineers. Expressing his appreciation, the Minister said he was glad to know that ECI, along with its member Associations, has initiated a system of Registration of Professional Engineers who are experienced and capable, and are recognised after proper screening. Such a voluntary effort by ECI should help in strengthening the engineering profession and getting it necessary recognition in the society till an Act of Parliament provides legal backing, as in other professions.

Dr Kirit Parikh, Chairman of the Jury outlined the process of selection of Eminent Engineers.



Dr A. Jhunjunwala Being Honoured as an Eminent Engineer, by the Honourable Railway Minister Shri Suresh Prabhu

News from the Member Associations

i) Computer Society of India

- 1) **Date - 23 April 2016** : International on "Advances in information Technology and Computer Science and Engineering" at Uttaranchal University, Dehradun.

Contact : Mr. Sumit Chaudhary, Mob: 09917155889, iimtsumit@gmail.com

- 2) **10-11 May 2016** : National Conference on Recent Trends in Computer and Communication Technology (RTCCT 2016) at sarvajanic College of Engineering and technology, Surat, Gujrat. www.rtct.rtcct2016.scet.ac.in

Contact : info.rtcct16@scet.ac.in, Phone : 0261-2240145-158

- 3) **28-30 May 2016** : International Conference on Computational Intelligence and Informatics (ICCII-2016) by Dept. of CSE, JNTUH College of Engineering, Hyderabad www.iccii.net

- 4) **30 May - 1 June 2016** : National Workshop On Applicable Mathematics to Engineering and Science (NWAMES) at Jayee University of Engineering and technology, Guna www.juet.ac.in

Contact : Dr. H. K. Mishra, hkmmnit@gmail.com, 9407570623, Dr. Anuj Kumar, anujkumar.jiet@gmail.com

ii) IETE

8, 9 & 10 April 2016 : Governing Council Meeting & MTS-2016 on Theme "Modern Information & Communication Technologies For Digital India (MICTDI-2016)" at IETE Building, Sec30-B, Chandigarh (India), CSIR-CSIO, Sec30-C, Chandigarh (India). (Details in Brochure)

iii) Indian Society for Technical Education

- 1) **45th ISTE Annual National Convention** : The 45th Annual National Convention of ISTE and International Conference was successfully conducted at HVPM's College of Engineering and Technology, Amravati during 9th, 10th & 11th January, 2016. The main theme of the Convention was Challenges & Opportunities in Technical Education in the Era of Sustainable Development.

- 2) **ISTE Student Awards - Notification** : Nominations are invited from the ISTE student members of all Government, Aided and Unaided Institutions for the various ISTE STUDENTS AWARD. Details regarding each Awards are being sent to the Head of Institutions separately. Please contact the Head of Institution for these details. These forms are also available in the website "www.isteonline.in". Therefore, all Head of the Institutions/Chapter

Chairmen/Faculty Advisors are requested to kindly advise the students of the ISTE Students Chapters to visit ISTE Website, download nomination form, read the instructions carefully and send their nomination to ISTE New Delhi before the last date. Last date for submission of all the nominations to ISTE Hqrs., New Delhi is September/October, 2016. The Awards will be given to winners during the 19th ISTE Students Annual National Convention during September/October, 2016.

iv) Construction Industry Development Council

- 1) CIDC announces Case Study Oriented Set of Six Courses for PPPs in Roads & Highways between April' 2016 to June'2016 (Based on UN recommended curriculum) with Special Session with International Experts, Conducted by Centre of Excellence for PPP Projects in Roads & Highways, formed jointly by United Nations Economic Commission for Europe & CIDC.

For any further query or in case you wish to have the courses conducted in-house, you may please contact undersigned or Ms. Adesh Kumari on +91-9999935755 or email at uneceindia@gmail.com. Please Register early. Limited seats available.

Sunil Mahajan, Addl. Director General, CIDC +91 9711106001.

- 2) The 4th Phase registrations in the CIDC National Database are now open. Competent and experienced Consultants, Manufacturers for supplying Materials, Accessories, Consumables, etc., and Contractors for providing Services, or Manpower for construction projects for river, highway bridges, tracks for railways, sports stadia, industrial buildings, residential and commercial complexes, integrated projects for power generation and distribution systems, air conditioning systems, finishing/interiors works, piling etc at various locations across India and other South Asian nations are encouraged to enlist in the database.

The Database is hosted on www.cidcdatabase.com and is accessible to all project owners & stakeholders. Applications for Registration are also invited for Consultants and Suppliers of Services for PPP Projects in Roads and Highways.

- 3) CIDC every year on its Foundation Day, 7th March, awards Vishwa Karma Awards in various categories of the Construction Sector. Right from basic artisans to Corporate owners, Projects, Intelligentsia etc. These awards have become a much sought after prize and a mark of excellence in the Construction Sector. This year also on 7th March 2016, more than 150

awards in various categories were awarded, in a glittering ceremony at India Habitat Centre, New Delhi.

v) Consulting Engineers Association of India (CEAI)

<i>Date/Time</i>	<i>Event</i>
22/04/2016 5:00 pm	Talk/Presentation on "Impact on Pollution in Delhi due to Odd-Even Policy - Case Study" at CEAI Centre, Vasant Kunj New Delhi
26/04/2016 5:00 pm - 6:00 pm	CEAI Webinar on "Rehabilitation and Strengthening of Major Structures - Important Issues for Engineers" at CEAI Centre, New Delhi

vi) Institute of Urban Transport

Conference on *Urban Mobility India 2016*

Schedule : 08 Nov - 11 Nov 2016,

Venue : Mahatma Mandir, Gandhinagar, Gujarat

vii) IPE

1) "Two Days National Seminar on 'practical Vibration Analysis & Predictive Maintenance'"

Date : 20th & 21st August 2015

Time : 9.30 AM to 5.30 P.M.

Venue : The Atria Hotel, No.1, Palace Road, Bangalore - 560001.

viii) MEAI

Nominations are invited for the year 2015 for the following awards:

- MEAI : Sitaram Rungta Memorial Award for the best paper on Mining related issues during the year 2015.
- MEAI NMDC Award for significant contribution to Iron Ore Industry during the year 2015.
- MEAI Simminds Award for significant contribution to limestone industry during the year 2015.
- MEAI Smt. Bala Tandon Memorial Award in recognition of contribution to Mining Industry for improving ecology, environment and afforestation during the year 2015.
- MEAI Abheraj Baldota Memorial Gold Medal Award(Mining Engineer of the year 2015) in recognition of significant contribution to Mining Industry by a Mining Engineer with 20 years of experience in the Industry.
- MEAI Abheraj Baldota Memorial Gold Medal Award(Young Mining Engineer of the years 2015) in

recognition of significant service to Mining Industry by an Young Mining Engineer who has not completed 35years of age as on 31st March 2016.

- MEAI-SRG Informational Technology Award for the year 2015 in recognition of significant contribution to Mining Industry adopting Information Technology during the year.
- MEAI- Smt. Gullapalli Saraladevi Memorial Award (Life Achievement by a Mining Engineer) during the year 2015.
- MEAI Master Tanay Chadha Memorial Geologist Award for the year 2015 in recognition of significant contribution by a geologist in the field of Mineral Exploration, quality control and production, mine planning etc. during the year.
- MEAI- Smt. Veena Roonwal Memorial Award for the year 2015 to a Mining Engineer/Geologist/a qualified person involved with Mining Industry with 10 years experience for presenting a paper during the year in a seminar/symposium workshop organized by MEAI on "water Management in and Around a Working Mine" or "implementation of new/latest Technology in Mining and Allied Subjects.
- MEAI - Smt. Kiran Devi Singhal Memorial Award for the year 2015 only to a person (MEAI Member/Non member- need not necessarily be from mining discipline) for his/her contribution in the field of "Development and Conversation of Minerals and Environment" in and around Metalliferous mines (excluding Coal and oil) during the year.
- MEAI Award to a Best paper on Eco-Friendly Mining Published in the Mining Engineers' Journal in the year 2015, instituted by Dr. M.L Jhanwar, Jaipur.
- MEAI-SCCL Coal Award for the year 2015 to a Mining Engineer for meritorious contribution to the Coal Industry.
- MEAI- SCCL Coal Award for the year 2015 to a Geologist for meritorious contribution to the Coal Industry.
- MEAI- SCCL Coal Award for the year 2015 to a Mechanical Engineer for meritorious Contribution to the Coal Industry.
- MEAI - SCCL Coal Award for the year 2015 to a Foreman/Over man for meritorious Contribution to the Coal Industry.

ix) Indian Society for Non-destructive Testing:-

- NDE Seminar 2016, Tiruvananthapuram on 15th, 16th and 17th December, 2016 at AI Saj Convention Centre, Trivananthapuram.

Jointly Organised by : ISNT Head Office and ISNT Tiruvananthapuram Chapter. NDE 2016 is the 26 national seminar organized by ISNT. An international exhibition of NDE equipments and systems is also arranged concurrently to provide an exposure to latest developments in the field of NDE.

The theme of the seminar is 'Non-Destructive Evaluation -Enabling Excellence'. Classic examples of Indian space, defense and nuclear programme stand as a testimony to the theme. Considering the range of coverage and potential of business growth, the proposed seminar is definitely going to establish a new benchmark.

Details on ISNDT web site.

- 2) **INNOVEX Asia 2016** : Inspiring Innovation Excellence.

x) Indian Concrete Institute

- 1) "MANTHANA-2016" Two-Day National Conference on "Recent Advances in Civil Engineering" RACE is being organized by S.J.C. Institute of Technology, Chickballapur, Karnataka on 21st & 22nd April 2016.
- 2) National Conference on Challenges of Civil Engineering Innovations (NCCCEI-2016) is being organized by ICI-Students Chapter of Sri Venkateshwara College of Engineering, Bengaluru on May 4th and 5th 2016.
- 3) "7th International Conference of Asian Concrete Federation (ACF 2016)" - Hanoi, Vietnam, Oct 30 - Nov 2, 2016.

xi) Indian Society of Agriculture Engineers

- 1) 10th International Conference on Controlled Atmosphere and Fumigation in Stored Products to be held during November 7-11, 2016 at Hotel The

Ashok, New Delhi. ISAE is a co-organizer/co-sponsor.

xii) Indian Institute of Metals

- 1) 10th Dr. Dara Antia Memorial Lecture on "An Obsession with Zr-Nb Phase Diagrams" by Dr. Srikumar Banerjee on 1st March, 2016, 4:00 PM, Venue : Mini Auditorium, College of Engineering, Pune.
- 2) A National Seminar on "Technology Thrusts on Materials and Manufacturing Sector in India" is being organised by the Kolkata Chapter with support from Central Glass and Ceramic Research Institute (CSIR-CGCRI) and Millennium Institute of Energy and Environment Management. July 28-29, 2016 at Meghnad Saha Auditorium, CGCRI, Jamshedpur, Kolkata.

Details at www.iim-kolkata.com.

- 3) IIM Delhi Chapter organised Technical Talk on 'Ultralight, Energy absorbing, Self-healing and Self-lubricating Materials for Transport Systems' on 12Mar.2016 at Chapter premises. Prof. Pradip Rohatgi Professor at State Univ. of Wisconsin at Milwaukee, USA, made this presentation.
- 4) The Indian Institute of Metals-Delhi Chapter celebrated Chapter NMD Celebrations on 16 Jan. 2016 in the Auditorium of Delhi Chapter building at Tughlakabad Institutional Area. 'NMD Celebrations Report' may be seen for detailed programme.

xiii) The Institution of Civil Engineers (India) (ICE) :

ICE hosted the Asian Engineering Coordinating Council (ACECC) 30th ECM in New Delhi, India on 25th -26th March, 2016. Representatives from a total of 11 nations, including India, from all over the world, participated in the deliberations. The foreign guests were felicitated in a grand style and they had a very enjoyable time.

The 50% concessions in the registration fees for the various categories, for applying for registration in the National Registers of Professional Engineers have been extended from 31st March till 30th June, 2016. Thereafter there shall be no further extension under any circumstance

ENGINEERING COUNCIL OF INDIA

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