



The Indian Engineer

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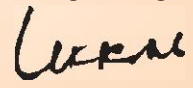
Message from the Chairman

At the outset, I wish to welcome and thank the members of the new Board of Governors (BOG) for the term 2016-18 (which took over on June 30, 2016) for nominating me as the Chairman for the term 2016-18. I am grateful to Member Associations and their representatives in the BOG for their support and confidence in me for providing continued leadership to the Council. I am sure, together, we can take ECI to new heights.



The 41st meeting of the BOG (previous one for term 2014-16) was held on June 30 morning where it approved the Annual Report and Accounts for 2015-16 for consideration by the Annual General Meeting (AGM). The AGM which followed the BOG meeting, adopted the Annual Report and Accounts. In both these meetings, the major item discussed was that of Registration of PEs by ECI jointly with the Member Associations (MAs). After we understood that the Ministry of HRD has decided not to process the Engineers' Bill for now and the Ministry indicated that the registration of engineers can be done by a registered society, the Registration of PEs was launched by ECI jointly with the MAs. It was noted that till June 30, 2016, the Board of Registration of Professional Engineers (BRPE), chaired by Mr. Mahendra Raj, has approved 902 candidates for registering as Sr. PEs, PEs and APes. In addition, 631 applications for Dip Student Engineer, Student Engineer, Jr App Engineer and App Engineer were approved by the National Committees. About 160 additional applications received in last 3-4 days were under scrutiny. It was also noted that only 2 MAs, namely, CIDC and ACCE(I), have constituted National Committees. Some MAs were either under process of forming new Boards or were having their Executive Councils meetings scheduled in the month of July/August to discuss and take decisions on this crucial matter of Registration of Professional Engineers. As such they had made requests for extensions of the discounted fee structure of the Registration Process to be further extended. In line with these requests, the BRPE has agreed to further extend this discounted fee structure by another three months till 30th September, 2016. There will be no further extension. I again requested that MAs should take the initiative now and make efforts so as to get large no. of engineers registered. ECI will provide all help to MAs in this regard. The MAs could invite ECI representatives to their internal meetings to explain the registration process, benefits etc. It was agreed that the MAs will make all efforts to take the registration process further in a big way so that the target of 7,500-10,000 registrations during 2016-17 is achieved.

I look forward to continued support from our Member Associations in achieving this target for Registration of PEs etc.


(Uddesh Kohli)



Annual Meeting of the General Body 2014-16 of Engineering Council of India, held on 30th June 2016 at IIC, Lodhi Road, New Delhi.

From the Editor's Desk



To enable the Indian Engineered products, compete and meet the world standards, our manufacturing Industry needs to constantly upgrade and keep abreast with the latest techniques and Technology. This is only possible if our engineers keep upgrading their skills. However, the effect of this campaign can only crystallise, if our Industry Doyens also rise and respond to the occasion. They need not only to ensure that their employed engineers actively participate, but also accord preference to such engineers who not only specialize in the industry's product domain but also keep upgrading their skills in that sector. The advantages and benefits accruing by following such a course are quite obvious.

The first part has already started, but the second aspect also needs to be given equal importance, if the overall aim of making our engineering fraternity meet the Nation's aspiration of becoming a global economic power is to be achieved.

The Member Associations can encourage their corporate members to start implementing HR policies on these lines, encouraging their staff engineers to register as Professional Engineers and continuously upgrade their skills by following a CPD Program, and preferring to engage further, Registered Professional Engineers having the required skill sets, over the others.


(B.R. Jain)

Engineering Council of India launches Registration of PEs, etc

Registration of Professional Engineers by ECI jointly with its Member Associations:-

1. Introduction

Registration of Professional Engineers (PEs), Associate Professional Engineers, Student Engineers, and some other categories on a voluntary basis has been launched by ECI on November 16, 2015. Criteria for registration in the National Registers and Code of Ethics have been laid and a Board of Registration for Professional Engineers (BRPE) has been set up by ECI. Discipline/field-wise National Committees are being set up by respective Member Associations which will screen the candidates in accordance with the Criteria. Half of the fee will be transferred to them by ECI.

The Certificates of Registration will have names and logos of ECI and the respective MA. Fee will be 50% for those registering till September 30, 2016

2. Benefits of Registering

The Registration, which is after dues process of screening, adherence to code of ethics and Continued Professional Development (CPD) would enhance the credibility and image of the Engineer. His/her acceptance by industry, institutions, clients and other organizations 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. The government departments, public sector organizations, local authorities (such as municipal bodies), industry associations will be informed regarding the National Register of Professional Engineers and advised to consider them for assignments. 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 would be listed on the website. (ii) The fact that PEs etc.,

commit to Code of Ethics, will enhance their image in the society and industry. (iii) Using the

Certificate of Registration as PE in the National Register as a part of CV. (iv) Better prospects for assignments/jobs after

this is publicized to client/ employer organizations. (v) Enhancement of knowledge/skills through Continuous Development Programmes

3. National Registers

There will be separate National Registers for (i) Professional Engineer (P.E), (ii) Associate Professional Engineer (APE), (iii) Student Engineer (SE). Some other categories have been added such as Apprentice/Graduate Engineer for Engineering Degree holders, B.Voc degree/Engineering Diploma students/holders. There will be 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.

4. Criteria for registering as Professional Engineer (PE):

The candidate (i) Has a Bachelors' Degree in

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 30th June, 2016 to 30th September, 2016. Thereafter there shall be no further extension under any circumstance.

Engineering / Technology from a recognized university/ institution or equivalent qualification as approved by the All India Technical Education / Government of India. (ii) Has relevant working experience of at least 7 years as an engineer, of which at least 2 years is in a responsible position of significant engineering activity. (iii) Is of good character (has not been involved in any case of moral turpitude). (iv) Is evaluated through written examination or interview, to be conducted by Engineering Council of India or its Member Associations. (v) Has maintained continued professional development since graduation at a satisfactory level. (vi) Undertakes to adhere to the Code of Ethics laid down by ECI. (vii) Makes a formal application with prescribed fee to the ECI Exemptions on Experience for PE. **i.** The candidate can be credited with 2 years of experience if he/she has a postgraduate engineering degree from a recognized institution. **ii.** The candidate can be credited with 3 years of experience if he/she has obtained a Ph.D. from a recognized institution. **iii.** Maximum exemption for higher education shall not exceed 3 years.

Exemption of Examination/Interview: For those having a total of 20 years of experience, of which at least 10 years is in responsible position- (Grandfather's clause). Those having 30 years' experience and admitted under this clause can be designated as Senior Professional Engineers.

Criteria for registering as Associate Professional Engineer (APE) - As for P.E. above, with experience reduced to 4 years. APE can register as PE after 7 years of

experience, of which at least 2 years is in a responsible position of significant engineering activity, without any further examination/ interview.

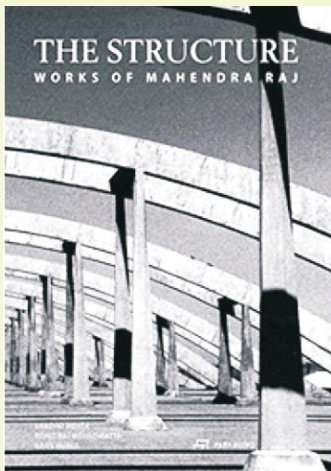
Criteria for registering as Apprentice Engineer (Ap.E) - As for P.E. above, with experience up to 4 years. Ap.E can register as APE after 4 years of relevant experience, without any further examination/ interview.

Criteria for registering as Junior Apprentice Engineer (JAp.E)- As for P.E. above, but with Engineering Diploma instead of a Engineering Graduate degree, and with experience up to 5 years. JAp.E can register as Ap.E after 5 years of relevant experience, without any further examination/ interview.

Special Provision for holders of Diploma or B. Voc. degree in Engineering Subjects :They can be registered as PE or APE, if they hold or have held the position as Assistant Engineer or above in Construction/Projects/Plants, with 5 years' additional experience over and above that specified for Engineering Degree holders.

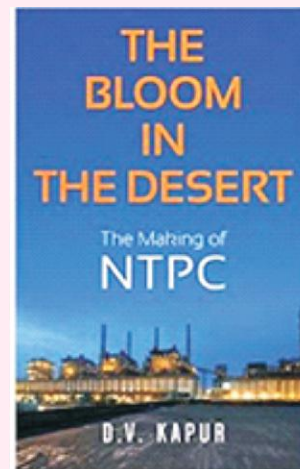
Criteria for registering as Student Engineer (SE) - Enrolled as a student in Bachelors' Degree or Diploma in Engineering/Technology in a recognized university/ institution or equivalent qualification as approved by the All India Technical Education / Government of India. The SE can enroll as Ap.E/ JAp.E after graduation, after undergoing an examination/ interview.

For detailed information, forms etc., go to website www.ecindia.org



The Structure

Works of Mahendra Raj explores the oeuvre of Mahendra Raj's sixty prolific years of practice as a structural engineer. His unusually inventive and intuitive work reveals bold and pioneering engineering solutions for buildings in exposed concrete over the years. Most of his structures are now artefacts that narrate the energetic period of nation building in post-independent India.



The Bloom in the Desert : The Making of NTPC

CHRONICLING the history of power major NTPC, its founding chairman and managing director D.V. Kapur has put in perspective the surging demand for power in the country and how guided by some able officers, NTPC has evolved into one of the leading power producers in the region.

Eminent Engineers

Dr. DharamVir Kapur graduated with honours in Electrical Engineering in 1951 from, Jadavpur, Calcutta. He has wide experience in Power, Capital Goods, Chemicals and Petrochemicals Sectors.

After varying stints from 1951 to 1962, as an electrical engineer in Hirakud Dam project, Punjab State Electricity Board and Indian Railways, he served with distinction in various positions in Bharat Heavy Electricals Limited. Most remarkable achievement of his career was establishment of fast growing systems oriented National Thermal Power Corporation (NTPC) of which he was the founder Chairman-cum-Managing Director (CMD). As CMD, NTPC, Dr. Kapur was described as a Model Manager by the Board of Executive Directors of World Bank. As a technocrat Dr. Kapur also has the rare distinction of serving in Indian Embassy in Moscow as First Secretary/Counsellor to coordinate economic relations and wide ranging industrial collaborations.

As Secretary to the Government of India in the Ministries of Power, Heavy Industry and Chemicals & Petrochemicals during 1980-86, Dr. Kapur was actively involved in establishing "Maruti" in collaboration with Suzuki of Japan and setting up a state of art automobile plant. He also made significant contributions by introducing new management practices and liberalization initiatives including "Broad Banding" and "Minimum economic sizes" in industrial licensing. He was also associated with a number of National Institutions as Member, Atomic Energy Commission; Member, Advisory Committee of the Cabinet for Science and Technology; Chairman, Board of Governors, IIT Bombay (1983-94); Member, Board of Governors, IIM Lucknow and Chairman, National Productivity Council. Dr. Kapur was also member of various government committees.

In recognition of his "services and significant contributions in the field of Technology, Management and Industrial Development", Jawaharlal Nehru Technological University, Hyderabad, conferred on him the degree of D. Sc. In March 2010 Dr. Kapur delivered 'Dr. Triguna Sen Memorial Lecture' and the National Council of Education, Bengal conferred its "Fellowship" on him. He is recipient of "India Power, Life Time Achievement Award" presented by Council of Power Utilities, for his contributions to Energy and Industry sectors. ENERTIA Awards 2010 also conferred Life Time Achievement Award on Dr. Kapur. Project Management Associates, India adopted Dr. D.V. Kapur as Mentor during its 20th International Conference in December 2013. Dr. Kapur is also recipient of "Meritorious Services Award" for "exemplary services to Indian Energy Sector" presented by India Energy Forum.

He has served as an independent director on the boards of directors of Honda Siel, Tata Chemicals, L&T, Ashok Leyland, Reliance Industries and DLF and as Chairmen of subsidiaries of Jacobs Engineering Consultants (USA) and GKN plc (UK). He was also founding Chairman of Reliance Power Limited.

Eminent Engineer Award 2016 was conferred on Dr. D V Kapur, by Engineering Council of India, vide the hands of Mr Suresh Prabhu, Honourable Union Cabinet Minister of Railways, Govt of India, on 4th April, 2016, 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.



Dr. DharamVir Kapur

Dr Ashok Jhunjunwala, after graduating from Indian Institute of Technology, Kanpur in Electrical Engineering, obtained his MS and PhD degrees from University of Maine, USA. After a short stretch as an Assistant Professor at Washington State University, he joined IIT Madras in 1981, in due course rising to the status of an Institute Professor.



Dr Ashok Jhunjunwala

Dr Ashok Jhunjunwala is well known nationally and internationally for his expertise in Telecommunications, Computer Networks and Fibre Optics, Solar PV systems and ICT based Education & Health Care.

In addition to his many administrative and policy making functions, including Teaching, he had a stint being, Chairman, Technology Committee of Board of SBI, 2005-2011, Chairman, DIT Committee to draft 12th Five Year Plan for Electronics R&D and Manufacturing, 2011-2012, Chairman, Committee to draft 12th Five Year Plan for Telecom Research, Development and Innovation 2011-2012, Chairman, Technology Advisory Committee of SEBI, 2012-2013, Chairman, Committee to formulate Rules and Strategy for Telecom Manufacturing Promotion Fund, Telecom Research Promotion Fund and Telecom Entrepreneurship Development Fund, 2012-2013 etc.

Currently he is Chairman of Technology committee of Bureau of Indian Standards LVDC committee, IEEE's LVDC forum for standardization, DEITY committee on White Space Broadband Communications, MHRD Committee for Reforms in Technical Education in Institutes other than IITs and NITs, Faculty In-charge and Board Members of IITM Research Park, IITM Incubation Cell, Rural Technology and Business Incubator and Telecom Centre of Excellence (TCOE), Chairman, HTIC and Chairman, TIFAC's vision 2035 for Electronics and IT. He is on board of several public and private companies as well as educational institutes and has been responsible in starting several of those.

Notables from a long list of awards bestowed on him, are: Padma Shri in 2002 for distinguished service in Science, Engineering, Telecommunications, Dr. Vikram Sarabhai Research Award for the year 1997, Shanti Swarup Bhatnagar Award for Outstanding Contributions in the field of Engineering Science for the year 1998, Millennium Medal by CSIR during Indian Science Congress, 2000, H.K. Firodia Award for excellence in Science & Technology for the Year 2002, UGC Hari Om Ashram Trust Award-Outstanding Social Scientists, Shri Om Prakash Bhasin Foundation Award, 2006 and 'Bernard Low Humanitarian Award,' 2009.

Eminent Engineer Award 2016 was conferred on Dr Ashok Jhunjunwala, by Engineering Council of India, vide the hands of Mr Suresh Prabhu, Honourable Union Cabinet Minister of Railways, Govt of India, on 4th April, 2016, for his contributions in carrying out numerous technological innovations and commercialization towards making Telecom, IT and Power available and affordable to Indian people and for being the pioneer in promoting industry-academia interface and university based incubation in India.

News from the Member Associations

Computer Society of India (CSI)

- 1) CSI has partnered with CeBIT India 2016 for the Conference cum Exhibition with the theme:-CeBIT INDIA 2016 - Discover The Business Of Technology Innovation!

See how collaborative disruption is changing tomorrow's innovation. at Bengaluru from 8th to 10 December 2016. Other details on :

<http://cebit-india.com/home.html#cebit2016> and on CSI website www.csi-india.org.

Association of Consulting Civil Engineers (India) (ACCE)

- 1) ACCE (India) Bangalore Centre is organising the REDECON (Recent Development in Design and Construction Technologies) Conference and Exhibition in Bangalore from 9th to 12th November 2016. REDECON 2016 Conference will deliberate on the evolution of tall structures, structural systems and the technological driving force behind their developments. REDECON 2016 is intended to bring together Architects, Structural Engineers, PMC consultants, contractors, practicing engineers, scientists, specifiers, researchers, manufacturers, applicators and others from around the country & abroad to share their knowledge and experience on current developments in Tall Structures. More details on web site of ACCE (India) <http://www.accehq.net>.

Construction Industry Development Council (CIDC)

- 1) 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.
- 2) CIDC has also floated an Employment Exchange (Construction Industry Employment Exchange) to facilitate employment in the Construction Sectors for needy persons. The details can be had from CIDC web site www.cidc.in
- 3) **4th Task Force Meeting of "National Database" (CIDC - Construction Industry Database)**

The 4th Task Force meeting of "National Database" (CIDC - Construction Industry Database) was held on 5th May 2016 at Lecture Room No. 2, IIC Annexe Building, India International



Centre, 40, Max Mueller Marg, New Delhi - 110 003. Speaking on the occasion, the Chief Guest for the evening Shri Divakar Garg, Director General, CPWD praised the efforts of CIDC for building this database and encouraged

the vendors to use this platform for raising awareness about their products & successes.

- Professional Engineer Certification Ceremony at DRDO, New Delhi on 25th May 2016.
- 4) Executive Development Program on "Arbitration & Dispute Resolution" was conducted at Defence Research & Development



Canadian Immigrant Integration Program at Madurai on 31st May 2016

- A Fruitful Session conducted by British Columbia on the process of immigration to Canada and work in province of British Columbia as licensed engineers, under the program titled 'Canadian Immigrant Integration Program (CIIP) organized with the help of Engineering Council of India.
- Professional Engineers Day, Certificate Distribution Day at Madurai on 31st May 2016:



Consulting Engineers Association of India (CEAI)

- 1) A Training Course on "Practical Use and Administration of FIDIC Conditions of Contract" on 17th & 18th August, 2016 at India International Centre, New Delhi. The training coordinator is Mr. Bogdan Oprea. and the training is aimed at providing a broad insight into Project Contracting Strategy, Key Areas for Management of Projects, Financial Aspects, Risks, Claims and Management of Disputes as per FIDIC documents. Details at www.ceai.org.in.
- 2) CEAI is organizing 7th Student Essay Competition for Undergraduate/Post Graduate Students of Civil/Structural Engineering **Theme : Emerging Technologies In Structural Engineering**. Last date for submission is 31st July, 2016. Details on <http://www.iastructe.co.in>

Indian Concrete Institute (ICI)

Details from website of ICI : <http://www.indianconcreteinstitute.org/>

- 1) CSIR-Central Building Research Institute, Roorkee is organizing a National Workshop on "Advances in Repair

and Rehabilitation of Concrete Structures" during September 22-23, 2016 at Roorkee.

- 2) "7th International Conference of Asian Concrete Federation (ACF 2016)" - Hanoi, Vietnam, Oct 30 - Nov 2, 2016.
- 3) IIT Madras is organizing "International Conference on Advances in Construction Materials and Systems - ICACMS 2017" between Sep 2 and 7 as part of 71st Annual RILEM Week at IIT Madras, Chennai. More info visit: www.concrete2017.org.

Indian Geotechnical Society (IGS)

- 1) International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues on September 23-24, 2016, to be held at Ramada Powai Hotel and Convention Centre, Saki Vihar Road, Powai, Mumbai 400087, India.
- 2) Indian Geotechnical Conference IGC 2016, from 15-17 December 2016, IIT Madras, Chennai, India, Theme:- Geotechnology towards Global Standards. Conference venue - IIT Madras, Chennai, India. For details see <http://www.igc2016.in>.
- 3) The prestigious IGS-FerrocoTerzaghi Oration (IFTO Oration), the 5th in the series, is scheduled on 8th October at Kochi to be organized by IGS-Kochi Chapter. The oration is being delivered by the eminent Professor William Van Impe, an authority in Geotechnical Engineering, on the topic "Engineering Geotechnics and Research Challenges with respect to Crushable Sands". Details on <http://www.igs.org.in>
- 4) Department of Civil Engineering, IIT Kanpur is pleased to announce a short-term course on "Recent Advancement in Soil Dynamics" from September 13 - 17, 2016, focuses on various aspects and issues related to dynamic properties of soil, wave propagation, vibration screening and isolation, seismic microzonation, seismic hazard analysis, liquefaction analysis and design of machine foundation. In addition, concept of geotechnical centrifuge modeling will be addressed. Contact : Email: priyog@iitk.ac.in / hsrajesh@iitk.ac.in, Contact No. 0512-259-7022/6054

Indian Institute of Chemical Engineers (IIChE)

- 1) **CHEMCON-2016** will be organized by the Chennai Regional Centre, during 27-30 December 2016 in Chennai. The event will be held in collaboration with AC College of Technology, Anna University, Chennai and Central Leather Research Institute, Chennai. The central theme of this year's CHEMCON will be "*Chemical Engineering - Emerging Dimensions and Challenges Ahead*".

For more details please visit www.chemcon2016.com.

- 2) "**Advances in Chemical Engineering 2016**" to be jointly organized by IIChE and Applied Chemistry Alumni Association, Calcutta University, Mumbai Chapter in association with Board of Research in Nuclear Sciences. Date: 3rd September 2016. Venue: Homi Bhabha Centre for Science Education, Mumbai.

For details contact: Dr D Mandal. E-mail : dmandal10@gmail.com, Ph. No: 09969102839(M), 022-25593938/25594937/25594929.

Indian Society of Agricultural Engineers (ISAE) :

- 1) 51st Annual Convention of Indian Society of Agricultural Engineers (ISAE) and National Symposium on the theme Agricultural Engineering for Sustainable and Climate Smart Agriculture (February 16-18, 2017) organised by Indian Society of Agricultural Engineers (ISAE), New Delhi & College of Agricultural Engineering and Technology, CCS HAU, Hisar (Silver Jubilee Year of the college 2017) & Northern Region Farm Machinery Training and Testing Institute Ministry of Agriculture and Farmers' Welfare, Government of India, Hisar Venue Chaudhary Charan Singh Haryana Agricultural University Hisar, Haryana (India) The information regarding ISAE awards 2017 is available on ISAE Web site : <http://www.isae.in>.
- 2) Announcement for 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. Details on <http://www.isae.in>.

The Institute of Electrical and Electronics Engineers (India) (IEEE)

- 1) "M V Chauhan Student Paper Contest 2016". Last date for Full Paper Submission extended to 30th July 2016, Review Process: 31st July to 15th August 2016, Prize Declaration : First: Rs. 12000; Second: Rs. 8000; Third: Rs. 5000 in UG and PG each category. Travel allowances (limited) in addition to local economical stay will be given to the final shortlisted presenters (first authors only). The first authors of the top five papers in each category shall be invited for presentation during AISYC at LNMIIT at Jaipur/Indicon 2016 to be held in Bengaluru. After the presentation of all papers, the final prizes will be awarded. The paper and scanned copies of supporting documents should be submitted electronically through email and to be uploaded on <https://easychair.org/conferences/?conf=mvpc2016>

The Institute of Marine Engineers (India)

- 1) Oil Spill India 2016, 4th International Conference & Exhibition, on 11th & 12th August 2016, Venue:-J W Marriot, Sahar, Mumbai, India. Details can be had from:- <http://imare.in>

Indian Society for Technical Education (ISTE)

- 1) KLE Dr. M.S. Sheshgiri College of Engineering and Technology, Belagavi conducted two days National Conference on Recent Innovations in Process Engineering and Sustainability (RIPES-2016) on 22-23 April, 2016. The conference was conducted to who cast the advances in core Chemical Engineering as well as allied fields through invited lectures by researchers of national repute and dissemination of latest research in the form of paper presentation with participation from academia, research organisations and industries.
- 2) **NOMINATIONS** are invited from the ISTE student members of all Government, Aided and Unaided Institutions for the various ISTE STUDENTS AWARD 2016. These forms were available in the website

www.isteonline.in. Last date for submission of all the nominations to ISTE Hqrs., New Delhi is August 31, 2016. The Awards will be given to winners during the 19th ISTE Annual Students Convention to be held during October, 2016.

The Institution of Electronics and Telecommunications (IETE) :

- 1) A seminar was held on 11 & 12 JUNE 2016, at IETE Hyderabad Centre, SOUTH ZONE ZONAL SEMINAR AND ZONAL ISF CONGRESS, ON "IOT FOR SMART LIVING".
- 2) IETE is organizing its 59th ATC on the theme "MAKE IN INDIA- PRODUCT DESIGN/IPR IN ICT" on 23rd -25th Sep 2016 at IETE HQ, New Delhi. This Annual Technical Convention aims at providing a platform for researchers to share fresh results, call for comments or collaborations and exchange of innovative ideas, concepts, knowledge and skills under a single umbrella for a successful innovative product design for achieving twin objectives, one of fulfilling the needs of a society and second of achieving higher goals of establishing a prosperous nation.

Important Dates : Full Paper Submission 31st August, 2016, Notification of Acceptance 12th September 2016, Camera Ready Paper Submission 15th September 2016.

Indian Institute of Metals

- 1) IIM Non-Ferrous Best Performance Awards, 2016, shall have awards in 3 categories. Category I : Large integrated manufacturing plants. Category II : Secondary processing/fabrication plants (other than casting and forging) and Category III : Units engaged in casting & forging operations. Last date for application submission is 31st July 2016. Other details on website of IIM.
- 2) The Ferrous Division of the Indian Institute of Metals is inviting entries for the National Sustainability Award in the Iron and Steel Sector for 2015 - 16 under three categories: 1 Integrated Steel Plants 2 Secondary Steel Plants /Alloy Steel Plants 3 Pig Iron /DR Plants /Major Re-rolling Units. The Deadline for submission of the application [i.e. completed questionnaire] in five copies to the address below is 31st July 2016, to IIM head OFFICE at Kolkatta.

Indian Society for Non-Destructive Testing

- 1) NDE Seminar 2016, Thiruvananthapuram, 15th, 16th and 17th December, 2016, at Al Saj Convention Centre, Thiruvananthapuram, Jointly Organised by ISNT Head Office and ISNT Thiruvananthapuram Chapter. Details from:- www.nde2016.com.

- 2) INNOVEX Asia 2016 : Inspiring Innovation Excellence, Details on :-<http://www.isnt.org.in>



- 3) The Slovenian Society For Non-destructive Testing is organizing The 14th International Conference On Application Of Contemporary Non-destructive Testing In Engineering during September 4-6, 2017. Details from:- tomaz.kek@fs.uni-lj.si.

Broadcast Engineering Society

- 1) Broadcast Engineering Society, Hyderabad Chapter, is organizing one day seminar on 10th July, 2016 on 'Challenges in Mobile and Digital TV', at Hyderabad. For details see http://www.besindia.com/PDF/BESSiverJubileeSeminarBrochure_10July16.pdf.

Indian Institution of Industrial Engineering

- 1) 1st International Conference on "Emerging Trends in Mechanical Engineering (Icetime 2016)" on 23rd and 24th September, 2016 at Hyderabad. Details at http://www.iiie-india.com/IIIE/uploads/events/ann_1455881173.pdf.
- 2) **IIIE National Essay Competition 2016**, Organised by IIIE Jaipur Chapter, on Topic "Smart Strategies For Digital World: An Industrial Engineering Perspective." The best essay in each category will be awarded a Gold Trophy / Medal and Runner Up would get Silver Trophy / Medal. Last Date 30th July, 2016. For more details : Dr. Gunjan Soni, Mobile: 09549654559 Email: gunjan.mnit@gmail.com
- 3) The American Society for Quality (ASQ)'s, Local Member Community (LMC) Institute of Management & Indian Institution of Industrial Engineering are jointly Organizing the 6th Annual National Conference on Quality and Improvement Theme "transforming Organization Through Lean" On 27th November, 2016 (Sunday) At Nirma University, Ahmedabad.

For More Details : Prof. Parth Raval, (M) 094284 08250 / E-mail : parthbvn@gmail.com.

ENGINEERING COUNCIL OF INDIA

1304, Hemkunt Chamber, 89, Nehru Place, New Delhi-110019 • Tel. : 26283281, 26283282, 65640356 • Fax : 26283283
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