



The Indian Engineer

NEWSLETTER OF THE ENGINEERING COUNCIL OF INDIA

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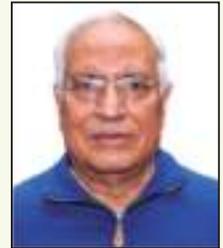
Director General, Indian Society for Trenchless Technology

Shri B. R. Jain

Director

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 2018-20 (which took over on July 2, 2018) for nominating me as the Chairman for the term 2018-20, which I humbly accepted. 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 45th meeting of the BOG (previous for term 2016-18) was held on July 2 morning where it approved the Annual Report and Accounts for 2017-18 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 involvement of the Member Associations (MAs) in ECI activities. At present ECI has taken up 3 main initiatives, along with their associated activities, which have been articulated to all Member Associations: (i) Registration of Engineers in the National Register of Professional Engineers, (ii) Industrial Internship of the students of the Technical Educational Institutions under the AICTE-ECI MoU, and (iii) National Proficiency Evaluation Test (NPET).

I had written to all Member Associations (MAs) in the beginning of June, requesting their suggestions as how to increase their involvement in ECI's initiatives and activities During the BOG meeting and AGM. It was agreed by all members that there should be greater involvement of Member Associations in the activities of ECI, which is their own organisation. It was also agreed that the MAs should display ECI's logo in all their events, brochures and activities. Also, ECI shall be strong only if its members are strong. Some of the activities such as registration of PEs, Internship programmes, are revenue generating and can make MAs financially strong, in addition to technical strength. As regards PEs, we need to encourage preference for PEs in project/industrial Activities. One way is to try to include a clause in the contracts so that some percentage of engineers to be employed by contractors are of PEs. Mr Ratnavel as President ACCE(I) have taken a lead in this instance and has advised all their constituents the following clause among others:

“That preferential hiring would be given to engineers registered by Engineering Council of India (ECI)/ Institution of Engineers (India) in their National Register.”

The details of activities of ECI are continuously communicated to MAs. I look forward to their feedback and suggestions. I again request all MAs to join hands with ECI and make all initiatives of ECI above successful which will make ECI as well as MAs strong.

(Dr. Uddesh Kohli)

From the Editor's Desk



Of the Fifteen hundred thousand engineers that graduate annually, only 18.43% of them are employable for the Software Engineer-IT services role, while a dismal 3.95% are appropriately trained to be directly deployed on projects. For core jobs in mechanical, electronics/electrical and civil engineering only a mere 7.49% are employable. In contrast, 53% engineers have software role as the most preferred job, whereas 44% prefer core engineering jobs. This means 97% engineers want jobs either in software or core engineering. Here also there is an appreciable dip in the number of employment opportunities for fresh engineers.

Firstly, an economy with a large percent of unemployable qualified candidates is not only inefficient, but socially unstable. Secondly, there is a large mismatch in the aspirations of graduating engineers and their job readiness, which can create large-scale dissatisfaction and disillusionment. More than 90% of the engineers coming out of the Indian Institutions are not industry ready. The key reason behind such paltry employability percentages is inadequate preparation in the domain area. These concepts and principles are there in college curriculum, however there is a gap in teaching and learning pedagogy being followed in a majority of colleges.

There is a much larger stress on theoretical aspects in India. The overall course content, for most parts, is larger in India as compared to equivalent courses in USA. Examinations, in India, are far more stressful. In USA, there is, in general, a much larger continuous assessment component and serve as a comprehensive parameter of judging the understanding of the subject. There are assignments throughout the semester, and students do take them much more seriously than India. They work through the assignments much harder than most Indian students. The laws against plagiarism are much stricter. In case of exams, the Indian system is much more rigorous. In USA, a lot of exams are open-book and/or open-notes (and in some cases, open internet access as well!). Thus, the need to learn formulae is way lower! In India, this does happen, but to a much smaller extent. Understanding of a subject is the main goal in the academic curriculum designed in US. Every course has specific objectives and once the course is completed, the students are supposed to have learnt at least the key ideas. This process takes time and instructors are quite meticulous in making sure that every student gains something from the courses they have registered in. Recitations and tutorials are continuously improved. After some lectures a review lecture is delivered which summarizes the topics learnt till then. Examinations and quizzes are regular. In the Indian Technical Educational Institutions, the curriculum is poorly designed. The instructors don't care whether one learns anything from the course. Barring a few courses most of the courses will have unrealistic targets. Tutorials are neglected, lectures are cancelled. The instructors are poorly trained and most of the lectures are delivered impromptu. After the first few lectures the courses begin to lose their directions and in the end the students end up learning almost nothing. The mid semester and the end semester examinations are just copies of question papers from earlier years, the answers of which one can easily mug up in 2-3 days prior to exams. The students generally lose interest in the course after a couple of weeks and then go to the classes only for the sake of attendance. The entire objective of learning is kept on the back burner and full emphasis is given on the completion of the course. Though, the courses are always completed on paper, their efficacies on the academic lives of students remain entirely questionable.

The above only emphasis that our present technical education system is good and fit to produce technicians rather than engineers.

(B.R. Jain)

Distinguished Engineer : Shri T. Suvarna Raju

Shri T. Suvarna Raju joined HAL as a Management Trainee in June 1980 and grew up the ladder with varied experiences of manufacturing, overhaul and upgrade of several fleets including Jaguar and Mirage. He saw through the production of Hawk Mk-132 for the Indian Air Force and Indian Navy well ahead of



schedule, right from establishing its manufacturing facilities. Having worked through Aircraft and Overhaul Divisions in various capacities, he rose on the portals of HAL as General Manager, Aircraft Division and then to the post of Director (Design & Development) with additional charge as Managing Director (Helicopter Complex). Shri T. Suvarna Raju is now heading the Navratna PSU and largest Defence equipment manufacturing company of India as Chairman and Managing Director. In addition, he is the Chairman of the 'Aerospace and Aviation Sector Skill Council' (AASSC) and first Member Secretary of the 'Design and Development Management Board' (DDMB) established by Ministry of Defence.

Shri T. Suvarna Raju has been instrumental in taking HAL forward leaps and bounds in its endeavour to make it a significant global player in the field of aviation by developing technology to manufacture P8I aircraft weapon bay doors, configuration control production of aircraft structures, assemblies for Boeing USA, Airbus France and IAI Israel.

Shri T. Suvarna Raju is a firm believer that "Best of technology can never be bought, it can only be developed". To transform the company into a technology power house, he has taken various path breaking measures to make R&D set up in the company more competitive. He has put in an R&D Policy in place for the same and has brought in all R&D centres of HAL under a Committee of Institutional Network (COIN) to synergise learning across the organisation. In order to create an IPR wealth for the company, he has been instrumental in registering more than one thousand patents in the last three years. He has not only pioneered the concept of Performance Based Logistics and is keenly pursuing its early implementation for the military assets in order to 'Maximise' their availability for the operations.

He has successfully developed and demonstrated the Light Utility Helicopter, the Hindustan Turbo Trainer 40 known as HTT 40 and an indigenously upgraded Hawk aircraft to prove HALs prowess in the field. In addition, a 25 kilo-Newton engine, under development, has already achieved its 100% RPM speed with success.

A 1200 kilo- Watt turbo shaft Engines is fast progressing its development. A new Indian Multi Role Helicopter (IMRH) prototype has been unveiled in the recently concluded Aero India 2017. These projects have tremendously boosted the confidence of Indian aviation industry and propelled the "Make in India" Initiative of Hon'ble Prime Minister of India.

Shri T. Suvarna Raju fellow/member of the various apex professional bodies in the country, has brought in engineering excellence in the field of Aerospace manufacturing in the country. He has contributed immensely to put India as the sixth nation in the world capable of designing helicopters with manufacturing and putting them in to operations with the countries defense services. Shri T. Suvarna Raju's efforts have not only progressed the company march ahead with continued 'Excellent' ratings, but motivated the country's engineering and manufacturing giants to venture into Defense Aerospace Manufacturing to strengthen India's 'Self-reliance'.

The Outstanding contribution in taking HAL forward leaps and bounds in its endeavor to make it a significant global player in the field of aviation.

Shri T. Suvarna Raju has brought in engineering excellence in the field of Aerospace manufacturing in the country. His performance and actions have, both directly and indirectly, motivated the youth of the company to believe in self and work for self-reliance as far as possible. The Achievements in the area of Design and Development under the leadership of Shri. T. Suvarna Raju, on Design and Development front, HAL has achieved unprecedented success in achievement of major milestones of key projects, enumerated like The Hindustan Turbo Trainer (HTT-40) aircraft, Light Utility Helicopter (LUH), Light Combat Helicopter (LCH), Hawk-I, Jaguar Darin-III Upgrade, Dornier-228 Civil variant Aircraft, Hindustan Turbo-prop Fan Engine-25 (HTFE-25), 1200 KW Turbo Shaft Engine(HTSE-1200), Indian Multirole Helicopter (IMRH), UAV Programs, Design and Development of Universal Structural Test Rig for full Aircraft Strength Test, Indigenous Design and Development of Iffmkxii System for Indian Naval Ships, Indigenous Design and Development of Automatic Flight Control System (AFCS).

Under the able leadership of Shri T. Suvarna Raju, Company has progressively taken up various innovations in the field of aeronautics. Few of them are like Light Combat Aircraft (Tejas), Fifth Generation Fighter Aircraft (FGFA), Integration of Brahmos Missile on Su-30 MKI Aircraft, Integration of Indigenous Radar Warning Receiver (RWR) (Tarang MK-1B) on various IAF Platform.

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 1 December, 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, App. E & Jr. App. E and Rs. 1000 for SE plus applicable GST. And for other categories, the fee is Rs. 2000. plus the applicable GST. 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 registration or 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.

Internship

Today, employability is a problem for the student of a technical educational institution. The solution is Internship. Engineering Council of India (ECI), and its member associations, are assisting the educational institutions, on request of AICTE, to improve the employability by formatting and modulating the Internship of these students. The internship modules of ECI are as under: -

1. When the last semester (i.e. the 8th semester) is fully designated for this purpose, the 1st month or a month and a half depending upon the requirement of the particular student, would be used to provide him a basic industry orientation so that he becomes capable to complete his balance period of internship constructively. This interalia would include brushing up his knowledge of the

requirements of the industry, which had been taught to him during his academic years earlier.

2. When the student has to carry out his internship during the summer vacation, which are in between his academic years in three instalments of 2 months each. Here for each 2-month instalment, the orientation would be for a week and thereafter the balance of 2 months would be spent with the industry.

3. In case the student desires to do the internship in still smaller instalments, the internships could be carried out in modules of 2/3 days' duration. Assuming that he has to put in 150 days over a six-month period, then he could do 75 modules of 2 days each.

His balance period, for 1 and 2 above, would be under a Mentor, who would be in addition to the student's industry lead, to monitor him and guide him along with

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the industry management, where he is posted. A student is free to choose any of the above 3 modules depending upon the time slots available with him.

The inputs being provided to him during the brushing up period are to make him recall what he has been taught during his curriculum, revise and format them to the requirement of the industry where he shall be doing the balance internship. In addition to the technical knowledge's some essential soft skill knowledge would also be brushed up, during this brushing up period.

The advantages to a student as well as the industry are quite evident:

A) Student:

- 1) The student brushes up the knowledge acquired during his academic period and is able to translate them into practice.

- 2) He acquires skill and knowledge which enables him to analyse an industrial process as an engineer, and makes him a doer and not just a follower. These are highly beneficial to an industry.

- 3) Provides him an opportunity to fine tune his career preference.

B) For an Industry:-

- 1) Obtains a candidate who is ready with the basic skill sets required by that industry, so that the industry is spared the time and cost to retrain him.

- 2) The industry obtains a person who could be further groomed to take up the higher engineering functions, to its advantage.

- 3) It provided a time slot to identify and select the person/s, it wants to retains.

Chhatra Vishwakarma Award

All India Council for Technical Education (AICTE), Ministry of Human Resource Development, Govt. of India, Engineering Council of India (ECI), and the Indian Society for Technical Education (ISTE), are jointly holding a competition "AICTE-ECI-ISTE Chhatra Vishwakarma Awards-2018" for the students of AICTE approved Degree & Diploma level Technical institutions.

The Awards are aimed for motivating young individuals, inspiring leaders and institutions/ organizations to raise their performance in their specific domains leading to significant contribution towards the growth and development of the nation.

To recognize and honour innovative work of the students displaying exceptional skills by providing the innovative solution on the given theme.

Applications will be short listed based on their conformity to the guidelines and information furnished by nominees for specific categories. The recipients will be finalised based on the Recommendation and NOC forwarded by the institute and scrutiny of the applications by the jury & practical demonstrations by the contestants.

Awards will be given in following Categories for Degree and Diploma Students (including students from AICTE approved Community College):

Category-I : Outstanding Innovative Team Award (Degree and Diploma)

Category-II: Outstanding Teacher Award for mentoring Students Project

The Problem : The participants need to provide and innovative solution to following problem:

"Empowerment of Villages through Technologies"

For the holistic development of villages under the above theme, the following 8 sub-themes have been shortlisted:

1. Water & Irrigation
2. Sanitation & Solid Liquid Waste Management
3. Rural Infrastructure
4. Tourism
5. Agriculture & Food
6. Education, Skill Initiative & Startups
7. Rural Craft & Livelihood
8. Any other Rural Appropriate Technologies

Who Can Apply?

The Awards cover the students of AICTE approved Degree and Diploma Technical Institutions and Polytechnics. It also includes students from AICTE approved Community Colleges.

Nominations/Applications from all girls teams are especially encouraged....!

- Online application will start from:10-07-2018
- Last date to submit the application:10-08-2018

For further details please visit: <http://www.initiatives.aicte-india.org/vishwakarma/index.php>

News from the Member Associations

1. Association of Consulting Civil Engineers (India) (ACCE(I))

ACCE(I) Annual Awards 2018- ACCE(I) honors individuals and/or Organizations, for achieving excellence in various domains of Civil Engineering by presenting awards. These awards, which have been instituted by esteemed individuals and organizations in collaboration with ACCE(I) for recognizing excellence in the field of Civil Engineering, was held on 2 June, 2018. For more details, please contact: A-21, A-Block, 2 Floor, Brigade MM Industrial Complex, K R Road, Near Yediyur Circle, Bangalore -560 070 Tel: 080-26770365, 26770366, website: www.acce.in.

2. Consulting Engineers Association of India (CEAI)

- i) Western Region Centre (CEAI-WRC) is proud to announce that it had organised a seminar on contractual issues and resolving disputes – “Arbitration-Time to Relook” on 15th June 2018 at the Vivanta by Taj President, Cuffe Parade, Mumbai. Details from CEAI website.
- ii) Seminar on 'River Action Plan, Flood Management and Basin Development' on 27th and 28th July, 2018 at Shangri-La Eros Hotel, New Delhi-1. More details from CEAI's website www.ceai.org.in.

3. Construction Industry Development Council (CIDC)

- i) The 6th Task Force meeting of “National Database” (CIDC - Construction Industry Database) for providing support and services to industry for efficient utilization of resources including products, services, capital, manpower etc. is scheduled to be held on 13th July 2018 (Friday) Time: 6:00 pm – 8:00 pm at Civil Services Officer's Institute, Vinay Marg, Chanakyapuri, New Delhi – 110021. Details from CIDC website www.cidc.in.
- ii) The 7th Phase registrations in the CIDC National Database was open till 30th June, 2018. 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. Details from CIDC website www.cidc.in.

4. Indian Association of Structural Engineers (IAStructE):

- I. IAStructE organized a half day Seminar on “Introduction to New Seismic Guidelines on Highway Bridges (IRC:SP:114-2018)” on 23rd June 2018 at PHD House, New Delhi. In view of limited available seats, the registration was done on first come first served basis. Participation Fee was Rs. 750/- for IRC, Rs 1000 for others and for IAStructE members it was free. Details from iastructe@gmail.com.
- II. IAStructE is organizing Refresher Course on “Concrete Bridge Design Using Code of Practice for Concrete Road Bridges (IRC 112)” starting from 18th August 2018, on every Saturday from 9.00 AM to 01.15 PM (with 15 mins. Tea break in between). till 06 October 2018. The venue:-PHD Chamber of Commerce & Industry, PHD House, 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110016. Course fee : i) Rs. 7,500/- for IAStructE / IRC members, ii) Rs.10,000/- for non-members. For details contact : Mr. Vikas Verma, Manager IAStructE, Tel: 011-45794829, Email: iastructe@gmail.com.
- III. International Seminar on Earthquake/Wind Resilience in Buildings and Bridges with Vibration Control – Base Isolation and Dampers on 14-15 September 2018 at CSOI, Chanakyapuri, New Delhi. Registration fee : Rs. 8000/- for IAStructE members, Rs. 5000/- for Students and Rs. 10,000/- for non-members. For Details contact IAStructE Secretariat (iastructe@gmail.com) or visit www.iastructe.co.in for downloading the brochure.

5. Mining Engineers Association of India (MEAI)

National Council Meeting, 45th Annual General Meeting & National Workshop on "Ease of Doing Business - A Challenge for Mining Sector" at Jaipur was held on 1st July, 2018, at Mining Welfare Center, Near Parishkar College, Mansarovar, Shanthi Nagar, Mansarovar, Jaipur, Rajasthan 302020, India.

6. Indian Society of Technical Education (ISTE)

- i) International Conference on Computer Networks, Security & Computing-2018 (ICCSC-2018), May 4-5, 2018, organised by Dept. of CSE & ISE, Sri

Venkateshwara College of Engineering, Bangalore. For details contact : Srinivas G., Asst. Prof., Dept. of CSE, SVCE, Bengaluru. Phone: 09480017917. Email: srinivas.cse@svcengg.com, gsrinivasa11@gmail.com

- ii) International Conference on "Sustainable Engineering and Technology (IconSET 2018), 19-20 April, 2018, organised by ACS College of Engineering, Bengaluru. For details contact: Dr. M. Eswaramoorthy, Conference Chair; Mobile : 08762085909; Email : rmeswar@gmail.com

7. Institution of Electronics and Telecommunication Engineers (IETE)

IETE International Conference THEME ON "IETE-Recent Trends in Sustainable Technologies(IETE-ICRTST-2K18) At Mumbai IETE Centre" at 74-B, IETE House Collectors Colony, Chembur Mahul Road, Mumbai- 400 074 on 14th and 15th July, 2018. Details form IETE website.

8. Indian Institution of Bridge Engineers (DSC) (IIBE (DSC))

A "Conference on Innovative Technologies for Bridges" was held on 25th & 26th May, 2018 at Vishveswaraya Bhawan, Lucknow, Uttar Pradesh on :

- i) Innovative Bridge Technologies
- ii) Cable Supported Bridges
- iii) Special Bridge Devices
- iv) Bearings, Expansion Joints & Special Seismic Devices
- v) Bridge Foundations
- vi) Speedy Construction of Bridges
- vii) Economisation of Bridge Cost with Modern Design
- viii) Health Monitoring & Evaluation of Bridges
- ix) Rehabilitation of Bridges.

9. Aeronautical Society of India (ASI)

National Aerospace Conceptual Design Competition was open to teams of undergraduate students of Aeronautical or Aerospace Engineering department from IITs, IIST, or any NAC or UGC accredited institutions in India. Each team consisted of max. 05 (five) members, and one Faculty mentor. The role of the Faculty mentor was purely administrative in nature, and to liaise with the competition organisers on all policy matters. When: August 31, 2017 – June 30, 2018, Where: Mumbai. Details from ASI.

10. Broadcast Engineering Society (India) (BES)

BES EXPO 2019 : For details regarding BES EXPO 2019, please contact

- a) For Conference: The Chairman Conference Committee, BES EXPO 2018, 912, Surya Kiran Building, 19, Kasturba Gandhi Marg, New Delhi-110001, Tel: 91-11-23316709 Fax: 91-11-23316710, E-mail : conference@besindia.com, bes@besindia.com
- b) For Exhibition: The Coordinator BES EXPO 2018, F-6 Shopping Complex, Madan Lal Block, Asian Games Village, New Delhi-110049, Tel: 91-11-26492444, Fax: 91-11-26492888, E-mail: exhibition@besindia.com

11. Indian Concrete Institute (ICI)

2 days Conference on 'Evolving Trends in Tall Buildings'- Date: 12 & 13 July, 2018 Venue: Convention Center, L&T Campus, Manapakkam, Chennai. Details from INDIAN CONCRETE INSTITUTE No.201, First Floor "Ten Square Mall", No.64, Jawaharlal Nehru Road, Koyambedu, Chennai - 600 107. Phone: +91-44-24792602 Fax: +91-44-24795148, E-mail: iciconferences@gmail.com

12. Indian Institute of Metals (IIM)

- i) NMD ATM 2018-KOLKATA 56th National Metallurgists' Day (Under the aegis of Government of India, Ministry of Steel) & 72nd Annual Technical Meeting of the Indian Institute of Metals, on November 14 -16, 2018 at Kolkata, India. Details from IIM.
- ii) 7th International Conference and Exhibition on 'Indian Aluminum Industry-Status, Strategies and way forward for accelerated Growth' on September 5-7 at Mumbai. IBAAS Office International Bauxite, Alumina & Aluminum Society (IBAAS), India Web site: <http://www.ibaas.info/Office> E-mail: info@ibaas.info,

Contact Persons:

- a) Mr. Vinod Sood, Cell No.: +91 9870269851
vinod.sood@ibaas.info
- b) Mr. H. Mahadevan, Cell No.: +91 9963611125
h.mahadevan@ibaas.info
- c) Dr. Ashok Nandi, Conference Convener Cell No.: +919823015772 ashok.nandi@ibaas.info
- d) Ms. Mohini, Cell No.: +919860240380
info@ibaas.info
- e) Ms. Megha, Cell No.: +91 8983145387
info@ibaas.info

13. Indian Society of Agricultural Engineers

The American Society of Agricultural and Biological Engineers, in collaboration with the Indian Society of Agricultural Engineers is organizing a conference on "Global Water Security Conference for Agriculture and Natural Resources" on Oct 3-6, 2018 at Taj Krishna Hotel in Hyderabad, India. Details from ISAE's website.

ISAE in association with DST organized one day "Brainstorming Meeting to Identify New Areas of Researchable Technologies with respect to Agricultural Engineering" on 18 June 2018 at NASC Complex, New Delhi. The major objective of this meeting was to bring together different stakeholders including technologists, policy makers, farmers, manufacturers and funding agency to identify the areas of research and development in Agricultural Engineering along with the potential institutions and researchers. Details from ISAE's website.

14. Indian Institute of Industrial Engineering (IIIE)

2nd IEOM European Conference on Industrial Engineering and Operations Management is organising at Paris, France, from July 26-27, 2018. For further details please visit www.ieomsociety.org/paris2018/ or Submission Link: <https://www.xcdsystem.com/IEOM/abstract/index.cfm?ID=JxqPV50> and Registration Link: <https://www.xcdsystem.com/IEOM/attendee/index.cfm?ID=GqwUjpd>.

IIIE, Mumbai is organising a National Convention of IIIE and International Conference on 27th to 30th September 2018 on the theme ROLE OF INDUSTRIAL ENGINEERING IN INDUSTRY 4.0 PARADIGM at Bhubaneswar. For details please contact:

Professor D. N. Thatoi

Convener-ICIEIND
H.O.D, Mechanical Engineering,
Telephone : 7381036068
E-mail : icieind18@gmail.com

Professor Saroj Kumar Acharya

Co-Convener-ICIEIND
ITER Professor, Mechanical Engineering, ITER
Telephone : 9776524335

15) Institution of Marine Engineers (IME)

The Institute of Marine Engineers (India)

IMEI HOUSE, Plot No.94, Sector-19, Nerul, Navi Mumbai.
Tel. : 2770 1664, 2770 6749 Telefax : 27711663 (Direct),
E-mail : training@imare.in. Website : www.imare.in

MEO Cl. I (FG) 2 months course commencing on 2nd July 2018 / 1st September and will be followed by Diesel Engine Gas combustion Simulator course in the same premises

MEO CLASS III (NCV_CEO) UPTO 3000kW -STCW 2010 - 2 months course - 2nd July 2018/1st September 2018

MEO Cl. III (NCV_SEO) Part-A - STCW 2010 - 2 months course - 1st June 2018

MEO Cl. III (NCV_SEO) Part-B - STCW 2010 - 4months course - 2nd May 2018

MEO CL. II (FG) - 4 months Prep. Course commencing on 1st August/1st Sep. 2018/1st Oct. 2018/1st Nov. 2018/1st Dec. 2018

MEO CL. IV (NCV) 4 months Course Commencing on 1st June 2018

Security Training for Seafarers with Designated Security Duties - On request

Ship Security Officer Course - On request

MEO Cl. IV(FG) non mandatory course (2months duration) - On request

2 weeks Induction course for Naval candidates - on request

Revalidation course For Engineer Officers commencing shortly

Note: Payment can be done through the ICICI Bank (IFSC Code: - ICIC0000151) on A/C No. 015101031872 in the name of "The Institute of Marine Engineers (India)" only after confirming the availability of seats.

Please make the payment from saving bank account only not from NRI/NRE account

For enquiries contact on 022-27711663 between 1400-1700 hrs.

Features: Experienced Faculty, Air Conditioned Class Rooms, Well-Stocked Library, Individual Attention; special tutorials for orals.

ENGINEERING COUNCIL OF INDIA

1304, Hemkunt Chamber, 89, Nehru Place, New Delhi-110019
Tel. : +91-11-41783281, 41783282, 26283281 • Telefax : 26283282
E-mail : eci@ecindia.org, dir@ecindia.org Website: www.ecindia.org

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