



# The Indian Engineer

NEWSLETTER OF THE ENGINEERING COUNCIL OF INDIA

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September, 2017

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The Institution of Electronics and Telecommunications Engineers

**Dr. Kartic Chandra Sahoo**

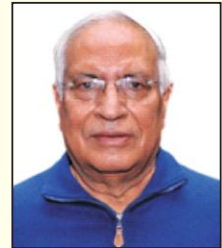
The Council of Engineering & Technology (India)

**Shri B. R. Jain**

Director

## Message from the Chairman

After the signing of the MoU with All India Council for Technical Education (AICTE), a number of universities have lined up seeking assistance of ECI for internship of their students to make them employable. Already ECI has signed MoU's with 4 Universities. Three of them being State Technical Universities and one a Private University. Others are also in the process of joining in. It is now time that all Member Associations should line up and chalk out further course of action. In this regard, a meeting is being planned in the month of October 2017.



The 1<sup>st</sup> Chhatra Vishwakarma Awards were distributed on 19<sup>th</sup> September 2017, in six engineering disciplines in a glittering ceremony in the main Auditorium of AICTE HQ. The Honourable Minister of State, Ministry of HRD, Govt. of India, Dr. Satya Pal Singh was the Chief Guest. 55 projects were chosen out of nearly a 1000 projects and out of these the awardees were selected by a Jury led by the eminent Industrialist Dr. B.D. Mundra. You may be glad to know that this award is being made an annual feature. Next year more streams of engineering shall be added.

It would not be out of place to take up the issue of Registration applications for the various categories of Professional engineers. I request all Member Associations to involve themselves in taking this initiative forward. ECI is always ready to help and support the MAs in any way needed.

It need not be emphasized that without the support and involvement of MAs this initiative cannot succeed. Hence all MAs need to create awareness, encourages engineers to apply, screen and recommend candidates for award of PE etc. As a first step the formation of National Committee of each MA needs to be expedited. Where these have been constituted, they need to start functioning.

These registered engineers have to accumulate at least 250 credit hours of skill and knowledge upgradation in their registered specialisation. These credit hours relate to various CPD Programs which they attend. Hence MAs have also to gear up these CPD Programs for them.

  
(Uddesh Kohli)

## ECI NEWS

- ECI signed MoU with Rajasthan Technical University (RTU) for the internship programmes.



- ECI signed MoU with Samrat Ashok Technical Institute (SATI) for the internship programmes.



- ECI signed MoU with Rajiv Gandhi Proudhyogiki Vishwavidyalay (RGPV) for the internship programmes.
- ECI signed MoU with Sandip University Nashik (SUN) for the internship programmes.



- ECI signed MoU with Gujarat Technical University (GTU) for the internship programmes.



## From the Editor's Desk



Today the Indian engineering fraternity is facing the crises of employability and unemployment. Our National manufacturing base is either stagnant or is in the contracting mode. Our young budding engineers face a bleak future due to shrinking job options. The career advancements opportunities for the already employed are also fast diminishing. It is a reported fact that 80% of Indian Industries close within 7 years of their start of operation.

On the other hand, the Indian market is growing at a very healthy rate. Then why is this growth not translating into increased job opportunities for the Indian engineering fraternity??? If we visit the Indian markets, today, they are flooded with imported goods. Hardly any Indian brands are available or seen. If they are available, either they belong to companies which have been taken over by foreigners or are in the low technological categories. It is disheartening to see that even Ganeshas are being imported.

Jobs which should normally go to Indian citizens have shifted to outside countries, as the products being sold in India are manufactured there. There is a need to analyse why it is happening so. It simply means that our products are not matching the imported items in quality, price and innovativeness. Why?? One of the main reason is that our engineers are not knowledgeable about the development taking place in the world, nor they develop skills to innovate. All technical persons can be classified in 4 categories, 1<sup>st</sup> level, the lowest, can just maintain the traditional way of working, the 2<sup>nd</sup> level can absorb a newer version of technology, which is being implemented. The 3<sup>rd</sup> level have the capacity to replicate a technology being used elsewhere, and the 4<sup>th</sup>, the highest category, have the competency to think out of the box, they can innovate, design new products and processes. In India we would like our engineers to be classified in the 3<sup>rd</sup> or 4<sup>th</sup> level, however, sad to state that they fall in the 1<sup>st</sup> and 2<sup>nd</sup> category and very rarely in the 3<sup>rd</sup> category. This is an offshoot of our tendency not to keep ourselves upgraded with the developments taking place in the world, in our area of specialisation. If we do not start rectifying this mistake immediately, then we are going to face even bleaker scenario in the times to come.

Not only our engineers working in our industries are affected but also the faculty members of a good number of our engineering educational institutions commit the same mistake. It is then quite evident that the engineers being produced by these educational institutions are already outdated, hence are very much unemployable. Hence to correct this situation, the faculty also need to keep upgrading themselves on a regular basis.

*Contd. on Page 5*



## Distinguished Engineer : Prof. Anil Dattatraya Sahasrabudhe

Prof. Anil Dattatraya Sahasrabudhe, Professor of Mechanical Engineering at Indian Institute of Technology (IIT), Guwahati joined All India Council for Technical Education (AICTE) as Chairman on 17th July 2015. Prof. Anil D. Sahasrabudhe graduated from BVB College of Engineering and Technology, Hubli affiliated to Karnataka University, Dharwad, Karnataka in Mechanical Engineering with First Rank and Gold medal in 1980. Subsequently, he obtained Master's and Doctoral (with UGC Fellowship) degrees from Indian Institute of Science (IISc), Bangalore in 1982 and 1989 respectively.



Prof. Anil D. Sahasrabudhe in his illustrious career of 31 years held several important Academic, Research and Administrative positions. He started his career as Scientific Officer, at Indian Institute of Science, Bangalore in 1983 and moved to Tata Consulting Engineers (TCE) as Engineer in the same year. He served as Lecturer and Assistant Professor at North Eastern Regional Institute of Science and Technology (NERIST), Itanagar (Arunachal Pradesh) from 1987-1988 & again from 1989-1995, before joining IIT Guwahati as Associate

Professor in 1995 and has been serving as Professor since 1999. Also, he served as Director, College of Engineering, Pune (CoEP) since 2006 on deputation from IIT, Guwahati prior to joining as AICTE Chairman. As an Academician and Researcher in NERIST and IIT Guwahati, and as an Administrator in the capacity of Director, CoEP, he has taken up several new initiatives for Academic, Curricular & Co-curricular activities, Entrepreneurship, Research and Good Governance.

Prof. Anil D. Sahasrabudhe is presently working as Chairman & Expert Member on various National Level Committees. Some of these include; Chairman, Basic Scientific Research (BSR), Empowered Committee of UGC, SWAYAM Board and Chairman BOG of NIT Itanagar. As a Member/Fellow he is actively involved in the activities of many Professional Bodies/Societies, such as ISTE, ASME, ASEE, ASI, IET, Institution of Engineers (IE).

He was awarded with "Maha-Intrapreneur Award-2011" of Praj Industries, Pune for his Leadership and Innovative abilities in the area of Technology Development and Entrepreneurship initiatives.

## Distinguished Engineer : RAdm Shekhar Mital, Chairman & Managing Director, Goa Shipyard Limited

Rear Admiral Shekhar Mital (Retired, Indian Navy) is an expert in the field of Shipbuilding, defence weapons, missiles and electronic systems and Policy formulation in 'Warship building & acquisition of defence system'. He currently serves as the Chairman and Managing Director of Goa Shipyard Ltd, a Defence PSU.



RAdm Mital, an alumnus of NIT, Surat and IIT Kharagpur, did Postgraduate Diploma in Management from the College of Naval Warfare, Mumbai and M.Phil in Defence Studies from National Defence College, New Delhi.

Before joining Goa Shipyard Ltd., RAdm Mital served as Additional Director General for Quality Assurance at Indian Navy, New Delhi, Chief Staff Officer (Technical) of Technical Head Division at the Eastern Naval Command at Vizag and prior to that Director General, Naval Design, New Delhi and several other positions in the Indian Navy.

RAdm Mital has worked with Indian Navy for over 33 years in various operational, technical and project management roles. He has the unique distinction of working in both Shipbuilding and Submarine Design Directorates at apex positions. He headed the Submarine

design in Indian Navy. He has dealt with multiple large scale strategic projects at Ministry of Defence involving induction of state-of-the-art weapon, electronic and engineering systems and ships and has contributed immensely in building indigenous capabilities in strategic manufacturing in defence field within the country. He has headed cross functional teams for over two decades and has excelled in heading independent operations. He is an expert in techno-commercial negotiations and running units/ projects as independent profit centres with strong strategic thinking, leadership skills and financial acumen in running business efficiently.

RAdm Shekhar Mital took over the shipyard as CMD of Goa Shipyard Ltd. in Feb 2014 and transformed from its operational decline and massive loss in 2013-14 to the 'fastest growing shipyard' in the country. The company in the last 03 years has clocked over 100% growth in revenue coupled with over 500% growth in Operational Profits.

RAdm Mital received several awards and accolades including the prestigious Nau Sena Medal for Devotion to Duty from the President of India. The sterling performance of the company has earned him the sobriquet of 'The Turnaround Man' in the ship building industry. The turnaround has been further recognized by the SCOPE Awards 14-15 to GSL, the only company

*Contd. on Page 5*

## First AICTE-ECI Internship Framework Program

First Internship Program under AICTE-ECI Internship Framework "IndSTT-DCI Walkover Tracker Training Program" was inaugurated on 3rd of July 2017 and concluded on 22nd August 2017.

- Walkover Tracker Training Program was for the duration of 45 days and the minimum qualification is diploma in the following streams Civil, Electrical, Electronics, Instrumentation & Mechanical engineering students. Program is included in the AICTE-ECI Internship framework so that the trained individuals gain credit for technical training under this program. Details about AICTE-ECI MoU are available on [www.aicte-india.org](http://www.aicte-india.org) & [www.ecindia.org](http://www.ecindia.org).
- Current Internship was being conducted through the efforts of sponsoring organization and implementing agency. Their details are as follows : Sponsoring Organization : DCI India Private Limited, Implementing Agency : INDSTT
- **Selection Procedure :** The candidates were selected through a two stage of screening process organized by Indian Society for Trenchless Technology (INDSTT).
  - a. **Written Test :** Aptitude & mathematical ability test.
  - b. **Interview :** Personal interactions of the qualified candidates



were conducted & trainees were selected.

- Written test was conducted on 28th March 2017 in CIDC /INDSTT Training Center, Plot No. 18, Sector 20 A Faridabad, Haryana, in which 128 students appeared. INDSTT developed the merit list of candidates desirous of seeking financial assistance from amongst the enrolled candidates & provided the same to sponsor (DCI) who selected the 25 candidates for the grant. Depending on the grant offered, the candidates are provided the assistance in their training.

### Program Conclusion :

29 candidates have undertaken the program successfully. Program was concluded on 22nd August 2017. Successful candidates were awarded the prescribed "Walkover Locator Training Program Certificates" by Prof. (Dr) Niranjana Swarup, Director General, Indian Society for Trenchless Technology.



*Contd. from Page 2 (From the Editor's Desk)...*

The National Register of Professional Engineers created by Engineering Council of India (ECI) with its Member Associations aims to do just that. One of the main features of this process is that each registered engineer has to compulsorily accumulate a minimum of 250 credit hours of skill and knowledge upgradation in his chosen or registered specialisation, just to maintain his category, otherwise he would lose it or be downgraded. Therefore, in the interest of the nation, ourselves and the generations to follow, let us en masse adopt and join the registration process initiated by ECI and its Member Associations, and comply with its tenets.

  
(B.R. Jain)

*Contd. from Page 3 (Distinguished Engineer)...*

among 244 PSUs, for Excellence in turn around, conferred by Hon'ble President of India. He has also been conferred with Raksha Mantri's Award for 'Best Performing Shipyard' and 'Best Performance in Export' on 30 May 2017. Under his dynamic leadership, the shipyard has earned the unique distinction of delivering every ship 'On time' at 'Fixed cost' during last 41 months. He has been conferred with the 'Distinguished Alumnus Award' by IIT Kharagpur on 06 Aug 2017.

RAdm Mital is member of several national and international bodies, among them are Lloyds Register South Asia Advisory Committee. He chairs the Managing Committee of Indian Shipbuilders Association (ISBA) and Society for Industrial and Technical and Education of Goa (SITEG) and is a board member of IR Class.



## News from the Member Associations

### a) Institution of Electronics and Telecommunication Engineers (IETE)

- Prof (Dr) K T V Reddy is the new IETE President (Elect) for the year (2017-18), the youngest President in the history of IETE, from 17th September, 2017. He received M Tech and PhD from Electrical Engineering Department with specialization in Communications from IIT Bombay. He possesses 25 years of Teaching, Research and Administration experience. ECI and its family accord him a very warm welcome as a valued family member, and wish him all success.



- Prof N S Nagaraja Memorial lecture was delivered by Dr. M Nageshwara Rao, Assoc Dir, ISRO Satellite Centre, Bengaluru on "An Indian Satellite for Navigation Applications" on 25<sup>th</sup> Jun 2017 at IETE Bangalore Centre. President IETE, Lt Gen (Dr) AKS Chandele (Retd) also addressed the gathering and distributed IETE-IRSI (83) Awards to awardees.



- IETE Amravati Centre arranged a one-day workshop with hands on training on "Computer and Internet" on 12th Jul 2017 at the Dept of IT of ISF - Vidarbha Youth Welfare Society's Prof Ram Meghe Institute of Technology & Research Badnera, Amravati. Dr P V Ingole, HoD/IT, was the resource person. The workshop was targeted for the women candidates, who work as cleaning and maintenance staff within college campus. Coordinated and conducted by Prof SP Thakare with the assistance of Prof (Ms) S I Saudagar, Asst Prof, it was a great success.



- Two batches of Internship Training Program organized by the IETE Palakkad Centre during 3rd-



7th&10th-14th Jul 2017 with the support of Kerala Technical University (KTU).

- With an attempt to familiarize rural women with digital literacy, an event "Digital Literacy for rural Women" was organized on 20th Jul 2017 by IETE Students' Forum Banasthali Chapter under the IETE Jaipur Centre. The event was led by Dr Seema Verma, Convenor IETE, Banasthali University chapter. A team of five IETE students accompanied by Ms Suneeta, Ms Pooja Shrivasta and Ms Vartika Kulshreshta went to Banasthali village to educate women on digital literacy. The event was attended by over fifty rural women. Ms Suneeta highlighted the importance of having bank accounts, safety while using ATMs and internet banking. She spoke on the use of mobile applications for net banking.



- A special talk on "Role of ICT in Development of Smart Cities" was delivered by Prof (Wg Cdr) Pradeep Prabhakar (Retd), IETE Governing Council Member & Zonal Coordinator (North) at Akashwani Shimla on 1st Aug 2017.



- Brigadier Lakshman Singh, VSM (Retd) (DF-043034), has been elected as the Distinguished Fellow (2016-17) of the Institution of Electronics and Telecommunication Engineers. He has been actively associated with IETE for over 2 decades. He has served Indian Army for over three decades and retired as Dy Director General from Signals Directorate, Army Headquarters in 1985.



### b) Association of Consulting Civil Engineers (ACCE(I))

#### 1) Coimbatore Chapter

- Engineers' Day Appreciation Award Presented to Two of our senior Engineers Er. T. Rangarajan and Dr. S. Kanagasundaram for their meritorious

contribution to the Civil engineering Field over four decades. Er. V. Gopalakrishnan, Chairman and other Office bearers of the Association of Consulting Civil Engineers (I) Coimbatore Centre Presenting the award. Sri. T.N. Sivakumar, Electrical consultant was the Chief Guest.



ii) Certificate of Appreciation presented to 13 Engineering Institutions for forming ACCE(I) Student chapter in their Institutions. Heads of department of Civil Engineering with the Office Bearers of ACCE(I) Coimbatore Centre.



2. The Madurai Centres of ACCE(I) and ICI are jointly conducting a Two Day National Seminar on Effective Use of Construction Chemicals for Durable and Sustainable Built Environment to be held on October 7th & 8th 2016 at Hotel Fortune Pandiyan, Madurai.

3. The seminar will cover various types of construction chemicals such as Waterproofing and Joint Sealants Corrosion Control, Repair and Rehabilitation Chemical Anchoring Plasticisers and Admixtures for Enhancing Concrete Behaviour Flooring Improvement Protective Coating Fibre Wrapping, etc.

- Registration form and brochure are attached herewith for the same. For those engineers who have registered as Professional Engineers with the Engineering Council of India, this event is accredited by ECI and participation in the programme will contribute significantly to the Continuous Professional Development (CPD)

requirement of the same. Details from [https://www.acce.in/event-knowmore.php?event\\_id=30&center\\_id=13&event\\_type=Past](https://www.acce.in/event-knowmore.php?event_id=30&center_id=13&event_type=Past).

c) **Construction Industry Development Council (CIDC)**

- 1) **10TH CIDC VISHWAKARMA AWARDS 2018 UPDATES**: Starting with the 10th CIDC VKA, 2018, two regional rounds with a separate regional jury for each. Regional award ceremonies will be held one each at Kolkata on 10th February, 2018 for North Region (Comprising of North + East) and 24th February 2018 at Amravati, Andhra Pradesh (Comprising of South + West). The winners for the National Ceremony will be chosen by the National Jury from amongst the regional winners (only those who receive the trophy at the regional level will be eligible) and shall be felicitated at New Delhi on 7th March 2018.

**10th CIDC VISHWAKARMA AWARDS 2018**  
7th MARCH 2018, STEIN AUDITORIUM INDIA HABITAT CENTRE, NEW DELHI

**KOLKATA (North + East Zone): 10th Feb, 2018**  
**AMRAVATI (South + West Zone): 24th Feb, 2018**  
**NEW DELHI (Grand Finale): 7th Mar, 2018**

**16 CATEGORIES**  
NO PARTICIPATION FEE  
SITE VISITS PART OF DUE DILIGENCE PROCESS  
WOMEN ARE ENCOURAGED TO APPLY!

**Objectives of the Awards**  
To recognize and honour valuable contributions and work of the Indian Construction Industry that has significantly enriched the construction domain and has helped bring about a positive change in our construction practices.

**Awards Categories**

1. Achievement Award for Industry Doyen (1 Award)	Code A	8. Achievement Award for Best HR Practitioner (1 Award)	Code H
2. Achievement Award for Creating Social Development and Impact (1 Award)	Code B	9. Achievement Award for Construction Health, Safety & Environment (2 Awards)	Code I
3. Achievement Award for Public Office (1 Award)	Code C	10. Achievement Award for Construction Skill Development (1 Award)	Code J
4. Achievement Award for Scientist/Academic/Technologist/Innovator (1 Award)	Code D	11. Achievement Award for Construction Education (1 Award)	Code K
5. Best Professional Managed Company from Construction, Materials Supply/Handling & Services (1 Award)	Code E	12. Achievement Award for Best Maintained Structure (1 Award)	Code L
Category - I (Turnover > Rs. 1000 Cr)	Code E1	13. Achievement Award for Best Pre-Engineered Building (Including Pre-Cast) (1 Award)	Code M
Category - II (Turnover > Rs. 500 Cr to Rs. 1000 Cr)	Code E2	14. Achievement Award for Best Archived Project (1 Award)	Code N
Category - III (Turnover < Rs. 500 Cr)	Code E3	15. Achievement Award for Best News Coverage of Construction Industry (1 Award)	Code O
Category - IV (Entrepreneur/Start-ups and Individual Enterprise with turnover < Rs. 50 Cr)	Code E4	Best Journalist	Code Na
6. Achievement Award for Best Construction Projects (2 Awards) (Roads & Highways, Bridges, Dams, Flyovers, Power, Transportation, Oil & Gas, Mining, Shipping & Ports, Airport, Urban Infrastructure, Social Infrastructure, Buildings (Residential/Commercial), Health/Institution and any other construction activity)	Code F	Best News Channel	Code Nb
7. Achievement Award for Artists & Supervisors (2 Awards) Artists (1 Award)	Code G	Best Magazine	Code Nc
Supervisors (1 Award)	Code G1	Best TV Channel	Code Nd
	Code G2	Best Website Publication	Code Ne
	Code G3	16. Achievement Award for Best Young Capitalist & Inhouse / Risk Manager (1 Award)	Code O
	Code G4	Best Young Capitalist (1 Award)	Code Oa
	Code G5	Best Young Risk Manager (1 Award)	Code Os

**Who Can Apply**  
The Awards cover the entire spectrum of Indian Construction Industry. All stakeholders from public and private sectors including NGOs are encouraged to participate in the process and send in their nominations under the categories mentioned. For further details please visit [www.cidc.in](http://www.cidc.in) or email to us.

**CALL FOR NOMINATIONS**  
**LAST DATE FOR ENTRIES**  
**31st OCTOBER 2017**

Mr. B R Rao, Sr. Manager      Mr. Suresh Lala, Sr. Advisor  
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Mr. Ashutosh Bhardwaj, Director - Corporate Affairs  
+91 98285 66517

Construction Industry Development Council (CIDC)  
(Established by the Planning Commission Govt. of India & the Construction Industry)  
B-1, Market Chakras, 85, Nehru Place, New Delhi - 110028  
cidc@cidcmail.com, cidc@cidc.org      Phone: 011-26489933, 26489934, 26489935  
Fax: 011-26489934, 1 Visit us at [www.cidc.in](http://www.cidc.in)

d) **Indian Association of Structural Engineers (IAStructE):**

1. **Technical Lectures & Presentations**

- i. Technical Lectures & Presentation (on the top according to date) Geotechnical Monitoring and Risk Management in Tunnelling by Dr. Florian Krenn, Managing



Director, Geoconsult India Pvt Ltd on 28th September 2017 at New Delhi.

ii. Importance of Wind Engineering in the Design of Structures by Dr Prem Krishna, Former Professor, IIT Roorkee on 24th August 2017 at New Delhi.

2. National Workshop on "NBC 2016 & Recently Revised Seismic Codes - Impact on Structural Design, Construction & Safety Buildings", on 27-28 June 2017 at Delhi.

**Details from :** Secretariat: K-69 A, Basement, Kalkaji, New Delhi 110019 Tel : 011-45794829, E-mail: iastructe@gmail.com, Website: www.iastructe.co.in.

3. Indian Association of Structural Engineers (IAStructE) is organizing a Technical Discussion on "Structural Design Using Bamboo--Code of Practice" (Draft IS 15912) on October 24th, 2017 between 4:00 PM to 6:00 PM at K69A, Basement, Kalkaji New Delhi 110019. There is no participation fee, however prior confirmation is required at iastructe@gmail.com to participate.

4. Indian Association of Structural Engineers IAStructE-S C Mehrotra National Technical Paper Competition Open to all Civil/Structural Engineering Professionals & Academicians, THEME: - "Earthquake Resistant Analysis and Design of Iconic Structures: Bridges, Multi-storey buildings, Industrial Structures (R.C.C. or Steel)".

The last date of paper submission by Authors: 28th February, 2018, Announcement of results: 30th April, 2018, Prizes will be distributed during the Annual General Meeting of IAStructE.

**Details :** Secretariat: K-69 A, Basement, Kalkaji, New Delhi 110019, Tel : 011-45794829, E-mail: iastructe@gmail.com, Website: www.iastructe.co.in.

IAStructE - S C Mehrotra National Technical Paper Competition for Undergraduate/Post Graduate Students of Civil/Structural Engineering. THEME: - "Technological Solutions for Affordable Housing".

The last date of paper submission by Authors 28th February, 2018, Announcement of results 30th April, 2018.

Prizes will be distributed during the Annual General Meeting of IAStructE.

**Details :** Secretariat : K-69 A, Basement, Kalkaji, New Delhi 110019. Tel: 011-45794829,

E-mail: iastructe@gmail.com, Website: www.iastructe.co.in.

#### e) Consulting Engineers Association of India

1) CEAI successfully organised Training Courses on "Practical Use of the FIDIC Conditions of Contracts" on 30-31 May 2017 at Bengaluru and 1-2 June 2017 at Chennai. The attendance at both the venues were very good.

2) *Seminar On "managing Physical Assets To Deliver Business Outcomes Cost Effectively"* Ceai, in conjunction with the Institute of Asset Management (IAM), United Kingdom, is organizing a seminar on Physical Asset Management on 12<sup>th</sup> October 2017 at Vivanta by Taj President, Mumbai, with the aim of raising awareness and accelerating the adoption of the ISO 55000 standards and best practices in India.

For more details about the Seminar, please contact @ Mumbai: Mr Jeffrey Nambiar, Hon. Secretary & Treasurer, CEAI Western Region Centre. Ph 022-28596350, 28508313. Email: Jeffrey&chemproindia.com and @ New Delhi : Capt Prerana Dubey, Dy Director, CEAI. Ph: 011-26139658. Email ceai.ceai@gmail.com, info@ceai.org.in

3) *Seminar on Kolkata East West Metro-unique Construction Challenges*

A Seminar on "KOLKATA EAST WEST METRO-Unique Construction Challenges" is being organised by CEAI Eastern Region Centre in association with Kolkata Metro Rail Corporation on 14<sup>th</sup> October 2017 at Williamson Nagar Hall of the Bengal Chamber of Commerce.

#### Further Events :

Date/Time	Event
15/11/2017	: CEAI National Awards 2017
6:00 pm	: CEAI Centre, Vasant Kunj, New Delhi
01/12/2017	: 9:00 am - 6:00 pm
- 02/12/2017	Workshop on "NBC 2016 & Recently Revised Seismic Codes"
	Williamson Magor Hall, BCCI, 6 N S Road, Kolkata - 700001, Kolkata

**Details from : Consulting Engineers Association of India**

CEAI Centre, OCF Plot No 2, Pocket 9, Sector B, Vasant Kunj, New Delhi 110070.

Tel: +91-11-26134644 Telefax: +91-11-26139658

E-mail: info@ceai.org.in,

Website: www.ceai.org.in.

#### f) The Institution of Civil Engineers (India) (ICE)

ICE celebrated Engineers' Day on 15<sup>th</sup> September, 2017 at A. P. Shinde Symposium Hall, NASC, Pusa Complex, DPS Marg, New Delhi - by organizing National Seminar on "Enhancing Opportunities Through Social Engineering" & holding its Annual Convocation.



Details from : **The Institution of Civil Engineers (India)**  
"Career House" Bindra Complex, Model Town, Near Tikona Park, Ludhiana Punjab

Phone : +91 (161) 5014629, Fax : +91 (161) 245 3807  
Website : ice.net.in, E-mail : info@ice.net.in

#### g) Indian Geotechnical Society

1) IGS-Indore Chapter, A Career orientation program was organized in Shri Govindram Seksaria Institute of Technology and Science, Indore on 20th June 2017 for the final year students. This was conducted under the Aegis of IGS New Delhi and IGS Indore Local Chapter. The students were rewarded for their performance in the duration of four years in college.



2) IGS Baroda Chapter, National Seminar on Engineering & Forensic aspects of Structural Foundation (EFSF-17) was organised jointly by applied mechanics department, M S University of Baroda & Structural engineers association, Baroda on 25th June, 2017.



3) IGS Bhubaneswar Chapter, has in association with IIT Bhubaneswar organized a one day National Seminar on 8.7.2017 at the Institutions of Engineers on 'Issues and Challenges in Geotechnical Engineering'.



#### 4. 211th NEC Meeting at Bhubaneswar

This meeting was conducted on the same day at the conference hall of the Institution of Engineers (India) Odisha State centre, Bhubaneswar soon after the National Seminar by 5.00 PM.

#### Fourthcoming Events of IGS

1) IGS-Kanpur Chapter, Indian Institute of Technology Kanpur and IGS Kanpur Local Chapter will host the workshop on "Sustainable Geotechnics" during October 13-14<sup>th</sup>, 2017 at IIT Kanpur, Uttar Pradesh.

Contact Information : Website: <http://www.iitk.ac.in/civil/geotech/index.html>; E-mail : [igskanpurchapter@gmail.com](mailto:igskanpurchapter@gmail.com), Telephone: (91-512) 259 7623 (Prof. N.R. Patra, President); (91-512) 259 7022 (Prof. P. Ghosh, Vice President)

2) IGS-Chandigarh Chapter, PEC University of Technology, IGS Chandigarh Chapter and IGS Ludhiana Chapter will host the workshop on Geotechnology for Sustainable Development on October 28<sup>th</sup>, 2017, PEC University of Technology, Chandigarh, Punjab. Contact Information: E-mail: [sksingh@pec.ac.in](mailto:sksingh@pec.ac.in), Prof. S.K. Singh, Chairman, IGS Chandigarh Chapter (M: 09888695126), Dr. Naveem James, Secretary, IGS Chandigarh Chapter (M: 09482519897)

#### h) Indian Institute of Chemical Engineers

1) **7, 8 July 2017** : IICChE Head Quarters organised a national seminar on 'Project Management – Objectives and Challenges' in Kolkata. Details from the website of IICChE.

2) **18 August 2017**: Northern Regional Centre of IICChE organised a Lecture Series under the theme 'A Perspective on Refining' at Gurugram, Haryana. Details from the website of IICChE.

#### Forth-coming Event

1) **7, 8 October 2017**: 13th Annual Session of Students' Chemical Engineering Congress (SCHEMCON - 2017) is being organized by the IICChE Students Chapter of the Department of Chemical Engineering, National Institute of Technology, Rourkela under the aegis of Rourkela Regional Centre of IICChE on October 7 and 8, 2017 at National Institute of Technology Rourkela, Odisha. For details, interested may visit : <http://schemcon2017.nitrkl.ac.in/>.



## **i) Indian Institution of Bridge Engineers (DSC)**

Directorate General Border Roads, an Institutional Member of Indian Institution of Bridge Engineers (DSC) is organising a seminar on, "Challenges In Planning, Investigation, Design and Construction of Highways Tunnels In Himalayan Region" on 2<sup>nd</sup> and 3<sup>rd</sup> Nov 2017 at Manekshaw Centre, Delhi Cantt. The Tunnel Designers, Engineers, Geologists, Tunnel Building Contractors and Consultants, Suppliers of Products and Services for Tunnelling Construction including Ventilation, Fire Fighting System, Research Institutes and Funding Agencies may attend the same to benefit themselves in the field.

### **Call For Papers/Case Studies**

#### **A) Planning of Highway Tunnels.**

- I. Planning of Tunnels in High Altitude areas subject to intense Avalanches and Snow Fall activities.
- II. Planning of Tunnels in lower and middle Himalayan Regions.
- III. Planning of Under Water Tunnel.

#### **B) Geo-technical Investigation, Engineering classification and characterization of Rock mass.**

- I. Planning of Geo-technical and Geo-physical investigation and extent thereof.
- II. Advanced Geo-physical Techniques for Rapid Surface Investigation and Interpretation of Geological data.
- III. Engineering Classification and Characterization of Rock Mass.

#### **C) Design of Highway Tunnels.**

- I. Methods for Structural Design of Tunnels both empirical and analytic including Convergence-Confinement method, Finite Element method. etc.
- II. Design of support system, Face stabilization including permanent Linings and its long term durability in mountainous Tunnel.
- III. Determination of In-situ Stress for Underground Structures having high overburden.
- IV. Design of Tunnels in squeezing ground condition, Fault Zones with Water Bodies, Natural Hazard, Seismic Action etc.
- V. Influence of Construction Methods in Design Approach.

## **D) Construction Technologies and Equipments**

- I. Construction Methodology for various ground conditions (Drill & Blast, NATM, Norwegian Tunnelling method).
- II. Tunnel Boring Machines and its applicability for Himalayan Region.
- III. Cost Optimization in Tunnel Construction – Assessment of new developments and cost saving in Excavation, construction equipments, single shell lining system, spray applied water proofing membranes etc.
- IV. Instrumentation for monitoring of deformation and stresses.

#### **E) Ventilation, Lighting, Fire and Other Safety measures :**

- I. Effective Ventilation in Tunnels and Practices.
- II. Fire Safety Arrangement and Measures in Tunnels.
- III. New Developments – Lighting in Tunnelling.

#### **F) Contractual practices and Case studies**

- I. Costing and Contractual Practices in Tunnel and Underground Works including Aspects of Measurements and Payments.
- II. Engineering, Procurement and Construction Mode.
- III. Risk Analysis and Decision making Techniques for Underground Projects.  
(a) Abstract - 30 Aug 2017  
(b) Full paper - 30 Sep 2017

#### **Contact Details :**

In case of any clarifications on the subject, the following officials may be contacted.

<b>Shri Anil Kumar</b> Chief Engineer Tele : 25686859 Mob : 8415945533 Email : bro-br@nic.in	<b>Lt Col Manish Kapil</b> Tele: 25687113 Mob: 9419981684 Email: bro-br@nic.in
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## **j) Mining Engineers Association of India**

- 1) International Conference Expo on "Mining Industry Vision 2030 & Beyond" from December 6-8, 2017 at Radisson Blue Hotel, Nagpur. Details from <https://www.meai.org/Nagpur%20Conference.pdf>.
- 2) Seminar on New Paradigms in Exploration and Extraction of Oil and Solid Fuels from 15-17,

December, 2017 at Mining Welfare Centre, Off Shipra Path, Mansarovar, Jaipur-302020, Rajasthan, India, India Hosted by MINING ENGINEERS' ASSOCIATION OF INDIA and Organized by MEAI Rajasthan Chapter-Jaipur. Details from <https://www.meai.org/Brochure Oil.pdf>.

**k) The Institute of Marine Engineers (India) :**

Call for Papers to be presented at the WMT Conference at Shanghai , December 2018. The deadline for submission of the Abstracts for the WMT Conference papers is 30 November 2017. Detailed information about the event is to be found at [WMT18.ssnname.com.cn](http://WMT18.ssnname.com.cn).

**l) Indian Association of Structural Engineers (IAStructE)**

*Technical Lectures & Presentations*

1. Technical Lectures & Presentation (on the top according to date) Geotechnical Monitoring and Risk Management in Tunnelling by Dr Florian Krenn, Managing Director, Geoconsult India Pvt Ltd on 28th September 2017 at New Delhi.
2. Importance of Wind Engineering in the Design of Structures by Dr Prem Krishna, Former Professor, IIT Roorkee on 24th August 2017 at New Delhi.

Extradosed Bridges - State of the Art by Mr. Alok Bhowmick, Managing Director, B&S Engineering Consultants Pvt Ltd and Honorary Secretary IAStructE on 27th July 2017 at New Delhi.

Indian Association of Structural Engineers (IAStructE) is organizing a Technical Discussion on "Structural Design Using Bamboo--Code of Practice" (Draft IS 15912) on October 24th, 2017 between 4:00 PM to 6:00 PM at K69A, Basement, Kalkaji New Delhi 110019. There is no participation fee, however prior confirmation is required at [iastructe@gmail.com](mailto:iastructe@gmail.com) to participate. Please click here for more details.

IAStruct E-S C Mehrotra National Technical Paper Competition open to all Civil/Structural Engineering Professionals and Academicians on the theme "Earthquake Resistant Analysis and Design of Iconic Structures: Bridges, Multi-storey buildings, Industrial Structures (R.C.C. or Steel)". Please click here for more details and guidelines to participate in the contest.

IAStructE-S C Mehrotra National Technical Paper Competition for Undergraduate/Post

Graduate Students of Civil/Structural Engineering on the theme "Technological Solutions for Affordable Housing". Please click here for more details and guidelines to participate in the contest.

**m) Indian Society of Technical Education**

*AICTE-ISTE Induction/Refresher Programmes for Teachers in Technical Institutions.*

ISTE is very happy to inform that the MoU has been signed between AICTE and ISTE on 04-05-2017 at AICTE Hqrs., New Delhi to conduct the Induction/Refresher Programmes for teachers in technical institutions for their professional refinement. AICTE has kind enough to sanction 100 refresher courses and 50 induction courses with a grant of Rs. 3.0 lakhs per programme. Similarly, AICTE has also sanctioned 100 refresher courses and 50 induction courses to be conducted on Self-Finance basis through ISTE. All these programmes will be considered for Career Advancement Scheme of AICTE.

- 1) 20th ISTE Students' National Convention 2017:- The 20th ISTE Students' National Convention 2017 will be held at Regional Institute of Science and Technology, Ri-Bhoi, Meghalaya - 793 101 during 28th - 29th October, 2017. The theme of the convention is "Technological Transformation: A Futuristic Approach."

**Important Dates :**

Submission of Full Paper : 4th October, 2017

Notification of Acceptance through mail : 10th October, 2017

Regional form and DD should reach on or before 20th October, 2017

Last Date of Registration : 28th October, 2017

For more details and online registration please visit the websites : [www.rist.ac.in](http://www.rist.ac.in) / [www.ustm.ac.in](http://www.ustm.ac.in)

- 2) Nominations are invited for the ISTE National and Regional Awards 2017. Last date for receiving the nomination at ISTE Hqrs. is October 31, 2017. These awards will be presented to the winners during the ISTE Annual National Convention 2017. *Details from:* The Executive Secretary, Indian Society for Technical Education, Shaheed Jeet Singh Marg, Near Katwaria Sarai, New Delhi - 110 016, Phone : 011-26513542, 26963431, Email : [istedhq@vsnl.net](mailto:istedhq@vsnl.net); Website : [www.isteonline.in](http://www.isteonline.in)



#### n) ICE(I) celebrates Engineers' Day

ICE(I) celebrated Engineers' Day on 15th September, 2017 at A P Shinde Auditorium, NASC Complex, PUSA, Delhi-12. It was a daylong programme comprising National Seminar on "Enhancing Opportunities through Social Engineering" which was inaugurated by Sh. Mukhtar Abbas Naqvi, Hon'ble Minister of Minority Affairs, Government of India.



Inaugural Session of Engineers Day Celebrations - 2017

### ECI's 15th National Conference on 'Preparing Engineers / Technologists for Role in Industry' on 10th November, 2017 in New Delhi

Engineering Council of India (ECI), is holding its 15th National Conference, with All India Council for Technical Education (AICTE) as the Principal Supporting Organisation, in the Auditorium of AICTE HQ, at Nelson Mandela Marg, Vasant Kunj, New Delhi, on 10th November, 2017. The Conference would be beneficial to students and faculty of technical educational institutions, engineers and technologists working at different levels in industries, government and defence organizations, power, transport and other utilities, research and development organizations, and consultancy organizations.

**For Details Contact :** Engineering Council of India, 1304 -Hemkunt Chambers, 89-Nehru Place, New Delhi-110019. Ph. : 011-41783281, 26283282, 26283281, Fax : 011-26283283, E-mail : eci@ecindia.org, singhald@gmail.com, director@ecindia.org. Website: www.ecindia.org.

#### Events of Engineering Colleges

- International Conference on Sustainable Engineering and Technology (IconSET 2018), organised by ACS College of Engineering, Bengaluru in association with Raja Rajeswari College of Engineering, Bengaluru during 19-20 April, 2018. For details contact The Organising Team (IconSET 2018). Email: acsce.energy@gmail.com
- International Conference on Intelligent Communication and Computational Techniques (ICCT'17), organised by Manipal University, Jaipur, December 22-23, 2017. For details contact : Alka Chaudhary, Assistant Professor, Dept. of IT. Mobile : 09571658111; Email: alka.chaudhary@jaipur.manipal.edu
- International Conference on Soft Computing and Mathematical Modelling (ICSCMM-2017), organised by KIET Group of Institutions, Ghaziabad, U.P., December 22- 23 December, 2017. For details contact: Dr. C.M. Batra, Convener, ICSCMM. Phone: 09873725677; email : cm.batra@kiet.edu.
- International Conference on New and Renewable Energy Resources for Sustainable Future (ICONRER 2017), 2- 4 February, 2018, organised by Dept. of Mechanical Engineering, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur. For details contact : Shri Ashish Nayyar, Convener (ICONRER-2017). Phone: 09785449998. Email : iconrer2017@skit.ac.in.
- Third International Conference on Cognitive Computing and Information Processing (CCIP 2017), 15-16 December, 2017, organised by Dept. of Computer Science & Engineering and Information Science & Engineering, JSS Academy of Technical Education, Bengaluru. For information email at: ccip2017b@gmail.com.
- 10th NABS-National Conference on Recent Trends in Life Science: Research, Practices and Application for Sustainable Development, September 7 & 8, 2017, organised by Department of Botany and Zoology, Bharathiar University, Coimbatore. For details email : lifescienceconference2017@gmail.com; secretarynabs@gmail.com.

#### ENGINEERING COUNCIL OF INDIA

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