# June 2019

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# MoU with The Institute of Cost Accountants of India

The Institution of Engineers (India) entered into a collaboration with The Institute of Cost Accountants of India (Statutory body established under Ministry of Corporate Affairs, Government of India) on May 27, 2019 at a function at Hotel Oberoi Grand, Kolkata for initiating a course on "Executive Diploma in Cost & Management Accounting for Engineers". This course will facilitate the Engineers of any discipline to acquire basic knowledge of cost and management accountancy, finance and corporate laws for working on commercial propositions like bidding & evaluations, maintenance, quality engineering and cost engineering. The Members of IEI will have the exclusive facility of availing this course at a discounted price. During this momentous occasion, Mr Manas Kumar Thakur, Past President, The Institute of Cost Accountants of India (ICAI) welcomed the august gathering. Dr T M

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## IEI Delegation visited Qatar Overseas Chapter at Doha

A delegation of the Institution lead by Dr T M Gunaraj, President of IEI visited Qatar Chapter of IEI at Doha during May 28-29, 2019. This initiative was taken to galvanize the Overseas Chapters of IEI and make them vibrant keeping in mind to observe Centenary Celebration. During the visit, Mr Abdul Sathar, Chairman of Qatar Chapter initiated to organize a series

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# From the **President's Desk.....**

In recent times, there has been considerable debate on the issue of employability of young engineers, especially in the manufacturing sector, with the advent of increased globalization and rapid technological innovation. This challenge has necessitated constant up-skilling of engineering professionals



calling for a 'steep learning curve'. This requires wider and continuous familiarization of existing industrial practices and design. I have earlier mentioned about the "Industry-Academia Interface" program, which has been initiated by IEI. Such events create better understanding among teachers and practitioners and are aimed to address the engineering curriculum and adaptability to shop floor requirements, of course within the framework of ensuring theoretical soundness. We are hopeful that such engagements would result in policy inputs for stakeholders, academicians, industry and Government.

During my recent visit to Qatar, I was happy to note the interest taken by our overseas chapter in organizing various activities involving the large Indian engineering community there. I had the occasion to interact with our alumni and Heads of Engineering Colleges. IEI would be organizing Centenary International Engineering Congress in Doha in September this year on "Smart Engineering" in the domain of petroleum technology and infrastructure development in the Gulf region. I look forward to the active participation of engineers working in the Gulf region as well as of our Corporate Members to make this prestigious event a grand success.

As I have mentioned earlier, we would be conducting several events and outreach programmes as part of Centenary Celebrations in addition to the regular activities conducted by our Centres. An International Conference on "Electronics & Communications, Renewable Energy and IoT: Vision 2040" would be held in Chandigarh on 7-8 September, 2019.

I earnestly look forward to your involvement by way of participation in the special events we have planned and your suggestions to make our Centenary Celebrations a very special one.

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# Inauguration of National Skill Development Forum, Shimla

National Skill Development Forum (NSDF) has been launched in a glittering Ceremony at Engineers Bhawan, Nigam Vihar, Shimla as Autonomous Forum of The Institution of Engineers (India) by Dr T M Gunaraja, President of IEI on May 1, 2019. The function was attended by eminent engineering personalities including Mr Sisir Kumar Banerjee, Immediate Past President, Mr S L Garg & Mr H C S Berry, Past Presidents, Mr A S Bakshi, Vice President, Mr S K Banerji, Mr P Rajamani, Mr Jagroop Singh, Prof T S Kamal, Mr J R Garg, Council Members and Maj Gen (Dr) S Bhattacharya, VSM (Retd.), Secretary & Director General of IEI. On this occasion, the Board of Governors of NSDF along with the Corporate Members of IEI also graced the occasion. Mr Suneel Grover was nominated as Chairman

of BOG-NSDF and Mr Vishwa Mohan Joshi was selected as Director of NSDF, Shimla. Earlier, Mr R K Sharma, Chairman of Himachal Pradesh State Centre of IEI welcomed the dignitaries and the guests. The experts present



during the program emphasized on up-skilling and re-skilling of practicing engineers especially in the area of skill enhancement, capacity building, cutting edge technologies etc.

# **New & Innovative Technologies** in Civil Engineering

**Goa State Centre** of the Institution organized All India Seminar on 'New & Innovative Technologies in Civil Engineering' under the aegis of Civil Engineering Division Board of IEI during March 15-16, 2019 at Goa. Mr Nilesh Cabral, Hon'ble Minister of Power, Government of Goa graced the occasion as the Chief Guest and inaugurated the Seminar. The Hon'ble Minister, in his inaugural speech appreciated the work done by IEI and stressed that it is

necessary to bring forth the new technologies in civil engineering to the door steps of engineers to have the best infrastructure in Goa. Earlier, Mr Chandrashekar Prabhudessai, Chairman of the Centre welcomed the gathering and explained briefly about various sessions of the Seminar. Dr Krupashankara M S, Principal, Goa Engineering College graced the function as the Guest-of-Honour. Dr Krupashankara, in his address highlighted the use of innovative technologies and research in day-to-day work. Mr Anil Hira, Director, Buro Happold, in his presentation, enlightened on the

importance of right structural concepts and optimization on design of tall buildings with shear wall and its connectivity with the peripheral columns. Dr H M Raje, Director, Raje Structural Consultant, Mumbai presented an

insight into various health related issues, faced by the civil engineering structures and explained several approaches for structural audit of the buildings. Mr Sayed Majid Hashmi, Managing Director, KMH Engineering, Hyderabad, illustrated the construction challenges in the design of tall buildings right from excavation and shoring system of basement including sheet pilling, diaphragm wall with anchors, innovative foundation system

and optimisation in design of piles, procedures of testing of piles etc. Mr Raghavendra D S, Manger, Satish Jain Consulting Engineers Mumbai enlightened the new and innovative Ultra High Performance Concrete (UHPC). Mr Aditya V S, Director, Tvasta Manufacutring Solutions, Chennai highlighted the latest technology used in construction. On this occasion, Mr Jose Manuel Noronha, Hon'ble Chairman of Goa Public Service Commission and Dr Neena Panandikar, Principal, Don Bosco College of Engineering, Goa also graced



the occasion. Large number of papers were presented during the Technical Sessions.

The Institution Of

# Role of Agricultural Engineering towards Global Food Security

Karnataka State Centre of the Institution organized International Conference on 'Role of Agricultural Engineering towards Global Food Security' under the aegis of Agricultural Engineering Division Board (AGDB) of IEI during April 11-13, 2019 at Bengaluru. Sri Sri Swami Veereshananda Saraswathi, President, Ramakrishna Vivekananda Ashrama, Tumakur inaugurated the

Conference by lighting the Lamp. Dr Ashok Dalwai. IAS. CEO. National Rainfed Area Authority, Ministry of Agriculture & Farmers Welfare, Govt. of India delivered the Keynote Address. Dr Rajendra Prasad, Vice Chancellor, University of Agricultural Sciences (UAS), Bengaluru and Dr M B Chetti, Vice Chancellor, University of Agricultural Sciences,



Dharwad graced the occasion with their august presence. The eminent scientists viz. Dr A B Patil, Advisor to Hon'ble Minister of Agriculture, Govt. of Karnaaka; Dr M R Dinesh, Director, ICAR- Indian Institute of Horticultural Research, Bengaluru; Dr B K Das, Director, ICAR- Central Inland Fisheries Research Institute, Barrackpore, Kolkata; Dr M M Parida, Scientist 'G' & Head, Foodomics for Food Safety and Food Defense, DRDO- Defence Food Research Laboratory, Mysuru; Dr Jaskarn Singh Mahal, Director

of Extension Education, Punjab Agricultural University, Ludhiana; Dr G S Sreenivas Reddy, Director, Karnataka State Natural Disaster Monitoring Centre, Govt. of Karnataka, Bengaluru; Dr C Shankaraiah, former Director of Instruction (Agriculture), UAS, Bengaluru; Dr Debasis Nag, former Director & former CPI, ZTM-BPD Unit, National Agricultural Innovation Project, ICAR-National Institute of Research on Jute and Allied Fibre Technology, Kolkata; Dr C R Metha, All India Coordinated Research Project on Farm Implements & Machinery, ICAR- Central Institute of Agricultural Engineering, Bhopal; Dr K P Sudheer, ICAR- National Fellow, Kerala Agricultural University, Thrissur; Dr K P Ramesh, Head, SRS, ICAR- National Dairy Research

Institute, Bengaluru and Dr M Mahesh Kumar, Head, Dairy Engineering, KVA&FS University, Bidar presented invited lead papers relevant to the food security. Dr G K Veeresh, former Vice Chancellor, University of Agricultural Sciences, Bengaluru also graced the occasion. Dr B V Patil, former Vice Chancellor, University of Agricultural Sciences, Raichur and Dr

H Shivanna, former Vice Chancellor, University of Agricultural Sciences, Bengaluru graced the occasion as Guests-of-Honour. Dr T M Gunaraja, President, IEI presided over the Valedictory Function. The Conference focused on the urgent requirements to tackle the challenges and issues of global food security through application oriented research on production, processing, preservation and distribution. Large number of papers were presented during the Technical Sessions.

# **Water and Sanitation Management**

**Telangana State Centre** of the Institution in association with Hyderabad Metropolitan Water Supply and Sewerage Board, Rural Development Forum and Sustainable Development Forum of IEI organized All India Seminar

'Water and Sanitation Management' under the aegis of Environmental Engineering Division Board of IEI during 19-20. March 2019 at Hyderabad. The Chief Guest on the occasion. Mr M Dana Kishore. Commissioner. Greater Hyderabad Municipal Corporation (GHMC) Managing Director, Hyderabad Metropolitan Water Supply & Sewerage Board, Hyderabad urged that it is very much essential to create awareness among the people about

among the people about the importance of water and sanitation. He further highlighted that water supply and sanitation should be in accordance with the population and their increasing needs. Dr P G Sastry, Director, Ramky Group, in his Keynote Address enumerated that sustainable development has become a widely recognised goal for human society ever since deteriorating environmental conditions in many parts of the world indicated that the sustainability of



human society may be at stake. Dr Sastry further explained that water is a critical natural resource where the water supply. wastewater & storm water systems are interlinked. Earlier. Mr T Aniaiah. Honorary Secretary of the Centre welcomed the august gathering. Dr G Rameshwar Rao, Chairman of the Centre presided over the inaugural function. Dr D Hanumantha Chary, Past Chairman of the Centre briefed about the

Seminar. Prof G Radhakrishna, Joint Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme. Large number of papers were presented during the Technical Sessions.

# **Impact of Recent Policies** on Mineral Industries

**Telangana State Centre** of the Institution in association with Ramagundam Local Centre of IEI, Mining Engineers' Association of India (MEAI), Hyderabad Chapter, Osmania University and Kakatiya University organized All India Seminar on 'Impact of Recent Policies on Mineral Industries' under the aegis of Interdisciplinary Coordination Committee (ICC) of IEI during March 15-16, 2019 at Hyderabad. The Chief Guest on the occasion, Mr M Jagadeeshwar, IAS, Principal Secretary, Department of Women, Children, Disabled & Senior Citizen, Govt. of Telangana mentioned that Mining



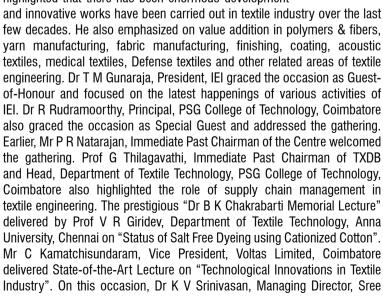
Industry in India has been playing a significant role not only providing livelihood to a large section of population directly or indirectly but also contributing significantly to the national exchequer. Mr Jagadeeshwar further enumerated that the development of natural resources is very much essential for sustaining the economy and also the Mining Industry provides employment opportunities. The Guest-of-Honour, Mr Arun Kumar Kothari, President, Mining Engineers' Association of India in his address stated that Mining Industry has an important role in the economy of the country and

has a huge potential for significantly contributing to the Indian economy. Dr T M Gunaraja, President of IEI while presiding over the function, mentioned that Telangana State Centre is a dynamic Centre in organizing several programs as a part of Centenary Celebration of IEI. Dr Gunaraja also highlighted that the year 2020 is a memorable year in the annals of IEI. Earlier, Dr G Rameshwar Rao, Chairman of the Centre welcomed the august gathering and Mr B Ramesh Kumar, former Chairman-cum-Managing Director, National Mineral Development Corporation Limited & Convener of the program briefed about the Seminar. Mr T Anjaiah, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function. Large number of papers were presented during the Technical Sessions.

Thirty-second National Convention of Textile Engineers, Coimbatore

# **Technology Innovations and Value Added Products in Textile Supply Chain**

Coimbatore Local Centre of the Institution organized the Thirty-second National Convention of Textile Engineers on "Technology Innovations and Value Added Products in Textile Supply Chain" during January 4-5, 2019 at Coimbatore under the aegis of Textile Engineering Division Board (TXDB). The program was inaugurated by the Chief Guest, Mr T Rajkumar, Chairman, Textile Sector Skill Council & Deputy Chairman, Confederation of Indian Textile Industry, New Delhi. Mr Rajkumar highlighted that there has been enormous development





Narasimha Textiles Pvt. Ltd, Premier Mills Pvt. Ltd. and Premier Fine Linens Pvt. Ltd, Coimbatore; Prof R Alagirusamy, Department of Textile Technology, IIT Delhi, New Delhi; Prof V Natarajan, Head, Food, Agriculture & Textile Machinery Research Centre, Advanced Research Institute, Dr M G R University, Chennai and Mr V Vasudevan, Executive Director, Manufacturing Operations, Himatsingka, Karnataka were felicitated as Eminent Engineers for their eminence and contribution to the profession of Textile Engineering. Dr Bipin Kumar, Assistant Professor, Department of Textile Technology, IIT Delhi, New Delhi; Dr Shamayita Patra, Assistant Professor, Department of Textile Technology, Shri Vaishnav Institute of Textile Technology, Shri Vaishnav Vidyapeeth Viswavidyalay, Indore and Dr Suresh Kumar S, Assistant Director-II (Quality Assurance), Department of Commerce and Industries (DGSND), New Delhi were awarded with IEI Young Engineers Award for their significant contribution in the field of Textile Engineering discipline. A Proceeding was released by the Chief Guest and other dignitaries during the inaugural function. Large number of papers were presented during various technical sessions of the Convention. Dr H Rammohan, Immediate Past Honorary Secretary of the Centre proposed the vote of thanks.

# Principles and Practices of Coal Bed Methane and other Unconventional Gases

**Durgapur Local Centre** of the Institution organized All India Workshop on 'Principles and Practices of Coal Bed Methane and other Unconventional Gases' under the aegis of Mining Engineering Division Board (MNDB) of IEI

during March 25-27, 2019 at Durgapur. The Chief Guest on the occasion, Mr Prem Sagar Mishra, Chairman & Managing Director, Eastern Coalfields Ltd., in his address spoke on Coal Bed Methane (CBM) viz. coal bed gas, coal seam gas, coalmine methane which is a form of natural gas extracted from the coal beds. Mr Mishra further enumerated that this vital industry-academia confluence is expected to crystallize the innovative solutions towards the efficient and cost effective CBM processes in the region. Prof Aiit Kumar Meikap. Director-in-Charge, NIT Durgapur graced the occasion as Guest-of-Honour, Mr D V Pichamuthu, Council Member & Past Chairman of MNDB. IEI also graced the occasion as Guest-of-Honour and expressed vividly about the production of coal bed methane and also stated the future prospect of CBM in India. Mr Pichamuthu further highlighted that the reserved resources will not sustain for a long run and on this aspect scientist community should think about the alternate resources for the development of the country through eco-friendly manner. The

Keynote Speaker, Mr V K Gupta, GGM and Asset Manager, CBM Asset, ONGC, Bokaro, in his address explained about the extraction of CBM prior to coal mining, which is practiced globally to facilitate the safe mining and reduce its emission to the environment. Mr Vilas Tawde, Managing Director & CEO, Essar Oil, CBM Project delivered lecture on 'Raniganj CBM Development

- Sustainable Venture'. 'Unconventional Sources of hydrocarbons such as Coal Bed Methane, Shale and Gas Hydrates are expected to contribute to India's long term energy requirement and are expected to offset the



environmental impact of coal and crude oil', Mr Tawde added. Earlier, Prof K C Ghanta, Chairman of the Centre, welcomed the gathering and highlighted the theme of the Workshop. Mr M K Biswal, Honorary Secretary of the Centre proposed the vote of thanks. Large number of papers were presented during the Technical Sessions.

# Design of Solar Photo Voltaic (PV) Power System for Rural Applications

Kanchepuram Local Centre of the Institution in association with the Department of Electrical & Electronics Engineering, SRM Institute of Science and Technology (SRM IST), Kattankulathur organized All India Workshop on 'Design of Solar Photo Voltaic (PV) Power System for Rural Applications' under the aegis of Electrical Engineering Division Board of IEI during March 28-29, 2019 at Kanchepuram. The Guest-of-Honour on the occasion, Mr B Tripati Patro, Executive Director, Visom Power Solutions Pvt. Ltd., Chennai, in his address enumerated that with the ever increasing demand for energy, the search for alternative energy sources has been increased. He further explained that the worldwide use of fossil fuels has led to the critical situation of global warming, significantly affecting the health, environment and climate. Mr Patro also mentioned that the extensive

emphasis has been put on the implementation of renewable energy sources. He highlighted on various applications of PV systems like, 'utility interactive systems' and 'stand-alone systems'. Earlier, Prof K Vijayakumar, Head, Department of Electrical & Electronics Engineering, SRM IST and Convener of the event welcomed the august gathering. Dr K Palanikumar, Chairman of



the Centre and Principal, Sri Sairam Institute of Technology welcomed the august gathering. Dr Palanikumar, in his address highlighted about various programs conducted by IEI which are aimed at the development of students and other stakeholders. Large number of papers were presented during the Technical Sessions.

### **IEI Celebrates**

# World Telecommunication and Information Society Day 2019



#### Theme: Bridging the standardization gap

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on May 17, 2019. Brief reports as received from various Centres are given hereunder.

#### **STATE CENTRES**

#### Gujarat



The Chief Guest on the occasion, Mr Nilesh Desai, Distinguished Scientist & Associate Director, Space Applications Centre (SAC), Indian Space Research Organisation (ISRO), Ahmedabad, in his address shared his personal experience of SAC. Mr Shamik Joshi from PWC India while speaking on the

theme, explained the need of standardization. Mr B S Patel, Council Member of IEI also graced the occasion and explained the importance of the day. Earlier, Mr H U Kalyani, Chairman of the Centre welcomed the gathering. Mr Shyam Varghese, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

#### Haryana

The Chief Guest of the function, Mr D K Gupta, former Additional Director, Technical Education, Haryana, deliberated the theme of the event and appreciated the Centre for organizing such event for the interest of engineering fraternity. Dr Vrinda Gupta, Department of Electronics & Communication Engineering, NIT



Kurukshetra, in her Keynote address, discussed about the significance of various standardizations and role of International Telecommunication Union (ITU) towards development of international standards. Earlier, Mr Ajay Mahajan, Chairman of the Centre welcomed dignitaries present on the occasion. Mr K C Sethi, Council Member, IEI also graced the occasion and briefed the role of IEI for the development of the nation. Mr A K Sharma, Honorary Secretary of the Centre proposed the vote of thanks.

#### **Jharkhand**



The Chief Guest of the function, Mr Amarendra Kumar, General Manager (EB), BSNL, Jharkhand Circle, Ranchi explained how telecommunication system developed rapidly for common people. The Guest-of-Honor, Mr M C S

Rao, Head, Department of Electronics & Telecommunication, Central Coalfield Ltd. (CCL), Ranchi, explained how analog and digital system implemented in the remote locations of CCL area, which played a vital role for increasing of coal production and productivities. Mr Rohit Kumar Singh, Project Coordinator, Vision Plus Global Security System, deliberated on the theme and spoke about the internet lease lines and networking system. He described the importance of standardization system of telecom structure in all corners of the world. Earlier, Mr A K Saxena, Past Chairman of the Centre, in his welcome address apprised about the importance of telecommunication system in day to day life. Mr Prasant Deva, Past Honorary Secretary of the Centre proposed the vote of thanks.

#### Kerala

The Speaker on the occasion, Dr M Manoj, Assistant General Manager, BSNL, Kerala



Circle explained about the digital divide among nations as well as urban and rural population in India by highlighting the performance indicators like total telephone connections, Tele density, Internet subscribers per 100 population and Smartphone penetration. Earlier,

Mr N Rajkumar, Immediate Past Chairman of the Centre welcomed the august gathering. Mr Asok Kumar K, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

#### Madhva Pradesh

The Chief Guest on the occasion, Dr Mahesh Shukla, Chief General Manager, BSNL, Madhya Pradesh, in his address elaborated the role & contribution of telecommunication and information technology for the development in



various fields by digital transformation. Mr S N Daga, former Executive Director, BSNL in his address elaborated in detail the present scenario of development in the entire field of telecommunication and its impact on the society in general. Mr Daga also stated that in the area of skill development, artificial intelligence must be taken care of. Earlier, Mr Neeraj Dave, Chairman of the Centre, welcomed theaugust gathering. Dr Bharat Modhera, Honorary Secretary of the Centre proposed the vote of thanks.

#### Manipur



The Theme Speaker on the occasion, Mr Th Prameshwor Singh, Executive Director, National Institute of Electronics & Information Technology emphasized that various standards in telecommunication play a key role in the development of National

and International infrastructures, economies and trade. He also stated that standardization has become an one of the most important components of innovation strategies in Europe, USA, China etc. Other distinguished dignitaries namely, Mr Th Joykumar Singh, former Chief Engineer, PWD; Mr M Lokendra Singh, former Chief Engineer, PWD; Mr Kh Temba Singh, Chief Engineer, PWD. Mr N Shyamsundar Singh, Chairman of the Centre welcomed the gathering. Dr N Monika Chanu proposed the vote of thanks at the end of the inaugural session.

#### Punjab & Chandigarh

Mr Rakesh Kapur, Life Member of International Telecommunication Union (ITU),

graced the occasion as the Chief Guest. Dr Labh Singh, former Advisor, Department of Telecommunication graced the function as the Guestof-Honour address the theme of the event. Mr A S Bakshi, Vice President,



IEI presided over the function, Earlier, Mr J R Garg, Chairman of the Centre welcomed the august gathering. Dr Jagtar Singh, Campus Director, Yadwindra College of Engineering, Talwandi Sabo highlighted various developments in telecommunication field over the last few years. Mr S S Mundi, Honorary Secretary of the Centre proposed the vote of thanks.

#### Tamilnadu

Mr P V Karunanithi, Principal General Manager, BSNL, Tamilnadu Telecom Circle, Chennai graced the occasion as the Chief Guest. The Chief Guest in his address deliberated on the role of ICT in the research and development. Mr S Ramaswamy, Governing Council Member, IETE, Chennai read the message received from Secretary General, International Telecommunication Union (ITU) and delivered his Special Address. Dr Swarna Ravindra Babu, Immediate Past Chairman, IETE, Chennai highlighted about the theme of the day. Mr P Gomathi, Mr R P B Sundaram, Executive Committee Member, IETE, Chennai proposed the vote of thanks at the end of the programme.

#### **Uttar Pradesh**

The Chief Guest & Keynote speaker on the occasion, Prof Neelam Srivastava,



Director, Rajkiya Engineering College, Kannauj explained the need of standardization and its proper implementation in telecommunication sector in order to reflect the economic development along with the technical innovation. Earlier, Mr R K Trivedi, Chairman of the Centre welcomed

the august gathering. Mr J S Mishra, Past Honorary Secretary of the Centre and Convener of the event introduced the theme to the audience. Mr P K Chaurasia, Honorary Secretary of the Centre offered the vote of thanks at the end of the programme.

#### **LOCAL CENTRES**

#### **Agra**

The Chief Guest on the occasion, Mr R K Upadhyay, BSNL Mathura narrated about the function of ITU-T and its activities in telecommunication & communication sectors. Mr Pritam Singh explained about the e-earning and monitoring programmes that



bridging the gap between the developed and developing countries. Earlier, Mr D S Chaudhary, Immediate Past Chairman of the Centre welcomed the august gathering and presided over the function. Dr B D K Patro, Chairman and Dr Ashok Yaday, Honorary Secretary of the Centre also spoke on the occasion.

#### **Ahmednagar**

The Chief Guest of the function, Mr Ajatshatru Somani, Principal General



Manager, BSNL, Ahmednagar stated that technology change is so fast and cost effective that it is accessible to everybody. He further clarified that underdeveloped and developing countries should contribute for bridging the gap by adopting the change. While

discussing the challenges of bridging the gap in standardization, the Keynote Speaker Ms Prachi Pawar, Centre Head, SEED Infotech Ltd., Ahmednagar mentioned the infrastructural requirements for Internet of Things (IoT) implementation. Earlier, Mr Avinash D Kulkarni, Chairman of the Centre welcomed the gathering. Mr H B Thigale, Immediate Past Honorary Secretary of the Centre proposed the vote of thanks.

#### **Angul**

The Chief Guest on the occasion, Mr M P Mishra. Executive Director (S&P Complex), NALCO threw some light on the rapid technological strides in the field of telecommunication engineering in the recent years. He highlighted the importance of Information Technology



in all aspects of human life especially during the natural calamities such as cyclone "FANI", which recently devastated the state of Odisha. The Chief Speaker, Prof Subrat Kar, the Department of Electrical Engineering, IIT Delhi in his address explained about the evolution of human intelligence and experience which later led to a series of inventions in the field of science and technology. Prof Kar also focused on the upcoming 5G standards coupled with artificial intelligence for better communication. Mr Y Pattnaik. Vice President. Nava Bharat Ventures Limited-Ferro Alloy Plant, Dhenkanal, Odisha and other dignitaries from NALCO graced the occasion. Earlier, Mr S K Dogra, Chairman of the Centre welcomed all the dignitaries. Mr Rajnish Kumar Gupta proposed the vote of thanks.

#### **Anpara**

The Chief Guest on the occasion, Mr Deepak Kumar, General Manager, Anpara Thermal Power Station (ATPS), Anpara stated that the bridging of standardization

gap brought renaissance in the field of world telecommunication and helped immensely day by day for common people. The Guest-of-Honour, Mr Manoi Kumar Sachan, General Manager, ATPS stated that the standardization development gap is itself both a cause and manifestation of the wider



digital divide. Earlier, Mr Mukesh Kumar Singh, Honorary Secretary of the Centre welcomed the august gathering.

#### **Bareilly**

Mr Sovan Mohanty, Assistant Professor, Shri Ram Murti Smarak Institutions,



Bareilly, deliberated the theme and explained the impact of bridging the standardization gap as a whole in telecommunication sector. Earlier, Mr S C Mehra. Chairman of the Centre. welcomed the gathering and highlighted

that bridging the standardization gap is a fundamental part of International Telecommunication Union's mission to connect the world. Dr Pankaj Sharma, Honorary Secretary of the Centre proposed the vote of thanks.

#### **Bokaro Steel City**

The Chief Guest, Mr D N Mohanty, General Manager (Maintenance), SAIL-Bokaro Steel Plant, in his inaugural speech, elaborated the various aspects telecommunication sector. He further mentioned that ICT has become a vital part of daily life, which cannot be avoided. The Guest-of-Honour of the function, Mr S K Jha, Deputy General



Manager (Electronic & Telecommunication), SAIL- Bokaro Steel Plant emphasized the necessity of ITU & ICT to accelerate the sustainable development goals. Mr R K Ravi, Deputy Manager (Telecommunication), SAIL- Bokaro Steel Plant briefed about the function of International Telecommunication Union (ITU) and its utilization in Bokaro Steel Plant. Mr D P Jha, Honorary Secretary of the Centre the vote of thanks.

#### **Coimbatore**



The Chief Guest on the occasion. Ms R Uma Maheswari, Sub Divisional Engineer, BSNL, Coimbatore, in her address focused on the importance of standardization, which paved way for global interoperability & connectivity.

She further discussed about the benefits of standardization to varied masses viz. industries, community and individual. Earlier, Dr H Rammohan, Honorary Secretary of the Centre welcomed the august gathering and presided over the meeting.

#### **Dhanbad**

Mr Rakesh Kumar, Director (Technical), Projects & Planning, Bharat Coking Coal Limited (BCCL), Dhanbad graced the occasion as the Chief Guest and addressed the gathering. Mr B N Singh, Principal General Manager, BSNL, Dhanbad spoke on the occasion as the Guest-of-Honour. Earlier, Dr T N Singh, Past Chairman of the Centre presided over the function. Dr Satyendra K Singh, Honorary Secretary of the Centre introduced theme of the day. Mr Tushar Singh,



Head (E&T), BCCL also graced the occasion. Dr Lalan Kumar, Principal Scientist, CSIR- Central Institute of Mining and Fuel Research, Dhanbad & Convener of the event proposed the vote of thanks.

#### Durgapur

Dr P K Adhvaryyu, Principal, K K College of Engineering & Management, Dhanbad, deliberated the background of such celebration. The Guest Speaker on the occasion,



Dr A Chandra, NIT Durgapur elaborated the need of standardization and its impacts for a better communication. He further explained about the evolution of mobile communication from 1G to 5G and also elaborated on the Global ICT Standardization Forum for India (GISFI).

the Indian standardization body. The other Guest Speaker, Dr A Biswas, Kazi Najrul University, Asansol deliberated on 'Standardization of High Power-High Frequency Source'. He further discussed about the importance of terahertz wave, biomedical image applications etc. Earlier, Prof K C Ghanta, Chairman of the Centre welcomed the august gathering. Mr M K Biswal, Honorary Secretary of the Centre proposed the vote of thanks.

#### **Faridabad**

Dr H B Raghavendra, Vice Chancellor, North Cap University graced the occasion

as the Chief Guest. Dr Raghavendra, in his address, explained that there is a huge level of development over the last few decades on telecommunication engineering. Mr Rajat Gupta, Director, IP and Optics Business Division,



Nokia Corporation, highlighted about the evolution of telecom to Software Defined Networking (SDN). Earlier, Mr Subhash Chander, Chairman of the Centre, welcomed the gathering. Mr Sandeep Hanada, Honorary Secretary of the Centre deliberated on the theme of the day. Mr K R Gupta, Convener, Technical Committee of the event proposed the vote of thanks.

#### Ghaziahad

The Chief Guest of the function, Mr M K Seth, Chief General Manager, Advance Level Telecommunication Training Centre (ALTTC) dealt upon the use of artificial intelligence in planning network for making communication to be very fast. He cited the examples to show its role in all types of application. The Guest-of-Honor on



the occasion, Mr Subhash Chandra, Principal General Manager, ALTTC, deliberated on the preparedness of BSNL for early adoption of 5G Technology. He intimated that BSNL is the first telecom service provider in planning of 5G network and this 5G

and IoT will bring a revolutionary change in the lives of all. The Keynote Speaker, Mr Vikas Nigam, Assistant General Manager, ALTTC explained the meaning of 5G and its advantages in the communication -5G network will be utilized for making internet of things a reality when machine to machine, machine to man and man to machine communication will be very fast. Earlier, Mr Jai Pal Singh, Chairman of the Centre delivered welcome address. The convener of the function Brig V S Chaudhri introduced the theme of the day. Mr C K Tyagi, Honorary Secretary of the Centre proposed the vote of thanks.

#### Gorakhpur

Mr S K Gupta, Divisional Telecom Engineer, BSNL, Gorakhpur, graced the occasion

as the Chief Guest. Mr Gupta, in his address described that the role of telecommunication sector through BSNL has helped in spreading the knowledge of various latest technologies. Earlier, Mr M W Beg, Chairman of the Centre welcomed the Chief Guest and other



dignitaries. Mr V K Srivastava, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

#### Gwalior

The Chief Guest, Mr Vinay Shrivastava, SDOT, Guna, mentioned that ITU standards ensure interoperability, open up global markets and spur innovation and growth. He also added that in recent years, there has been significant



progress in artificial intelligence technology with big data analysis, machine learning, computing power, storage capacity and cloud computing. Mr M M Batra, Manager, National Fertilizers Limited and Mr V K Khatri, General Manager, GAIL Ltd. spoke on the theme. Mr Vinay Kumar Shukla, Honorary Secretary of the Centre focused on the importance of ICT standardization for achieving the sustainable development goals.

#### Kanyakumari



The Keynote Speaker, Mr R Saji Kumar, ITS, General Manager, BSNL, Nagercoil, in his address explained that how the telecommunication has been growing up from the ancient time. He also explained the development of telecommunication up to the level of 5G.

Earlier, Dr S Arumuga Perumal, Chairman, IETE- Nagercoil welcomed the gathering. Mr V Sivathanu Pillai, Chairman of the Centre, in his address deliberated on the theme. Mr V Muthum Perumal, Honorary Secretary of the Centre proposed the vote of thanks.

#### Kota

The Chief Guest of the function, Mr Sandeep Kumar Vijayvargiya, Senior General Manager, Bharat Broadband Networking Ltd. (BBNL), Kota focused on the digital India programme of Govt. of India under which BBNL provides



basic broadband facilities up to the Gram Panchayat level. The Keynote Speaker, Mr K K Agarwal, Founder & Managing Director, Kappa Internet Service Pvt. Ltd. elaborated on the new technologies arising in the field and its effect on life style. Earlier, Mr Anand Bardava, Chairman of the Centre welcomed the august gathering. Mr Sunil Bohra, Honorary Secretary of the Centre extended the vote of thanks.

#### Kozhikode



Ms Vigneshwari V, Sub-Collector & Sub Divisional Magistrate, Kozhikode graced the occasion as the Chief Guest. She stressed upon the need to make available the use of latest telecommunication technology to the

common man. Mr Pramodh K J, Sub Divisional Engineer, BSNL, Kannur delivered the theme lecture. Earlier, Mr C Jayaram, Honorary Secretary of the Centre welcomed the august gathering. Mr Bhaskaran K, Chairman of the Centre enlighten on the theme. Mr Harshan K G, Committee Member of the Centre proposed the vote of thanks at the end of the programme.

#### Meerut

The Chief Guest of the event, Mr A K Bajpai, Chief General Manager BSNL, Meerut explained that due to rapid growth of technology, network openness, network

rexplained that due to rapid growth of neutrality, protection of intellectual property rights, protection of data & privacy, information & network security, internet governance etc. will help in Bridging the Standardization Gap. The keynote speaker, Dr Pradeep Teotia informed that all standard organizations



are interconnected to each other to make standards more effective and qualitative. Mr Varun Kaushik, Assistant Professor, Meerut Institute of Engineering and Technology, Meerut highlighted on the development stage of 5G technology and also focused its influence in day to day life of human beings. Earlier, Mr C P Gupta, Chairman of

the Centre welcomed the august gathering. Mr M L Jain, Honorary Secretary of the Centre proposed the vote of thanks.

#### Muzaffarpur

Mr B S Chaudhary, Assistant Director (Engineering), Doordarshan Kendra, Muzaffarpur graced the occasion as the Chief Guest. He stated that adequate awareness programs on latest developments of communication system



should be arranged for common people. Dr Shishir Kumar, I S College, Muzaffarpur graced the occasion as the Guest-of-Honour and addressed the gathering. Earlier, Dr Anjani Kumar Mishra, Chairman of the Centre welcomed the gathering. Dr J N Jha, Principal, Muzaffarpur Institute of Technology also graced the occasion.

#### Mysore



The Guest Speaker on the occasion, Mr Phani Kumar Golapalli, Sub Divisional Engineer, Regional Telecom Training Centre. BSNL, Mysore explained that IoT is an emerging area of modern technology, which impacts the governance system, education, business, manufacturing, entertainment,

transportation, infrastructures, health care etc. He also emphasized that essentially IoT has brought vast industrial revolution and helped to automate many processes within the organizations. Mr M Chinnaswamy, Immediate Past Chairman of the Centre presided over the function. Earlier, Mr Dinesh Kumar D K, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

#### **Palghat**

The Guest Speaker on the occasion, Dr Sindhu S, Head, Department of Computer Engineering, NSS college of Engineering, Palakkad pointed out that in telecommunication system, standards as formulated by ITU are essential. Dr Sindhu also highlighted that 5G standards coupled with artificial



intelligence will support a new range of applications, which will soon be taken for consideration. Earlier, Dr Devi V, Chairperson, IETE, Palakkad welcomed the gathering. Mr K Unnikrishnan, Chairman of the Centre delivered the address on the theme. Mr A Ramesh, Honorary Secretary of the Centre proposed the vote of thanks.

#### Pune

The Chief Guest, Mr Gaurav Saxena, Principal Consultant, Infosys, Pune mentioned that while doing the networking development, the use and preservation of natural



resources should be observed carefully with respect to environment. He further emphasized on the role of telecoms in the economic growth and looked forward for a bright future for the country in this field. The Guest-of-Honour, Dr Ashok Deshpande from University of California

& University of New South Wales, speaking on the theme and elaborated that the augmentation in technology is based on the standards that are prevailing. Earlier, Prof G S Mundada, Convener of the event, in his welcome address mentioned the need of interdisciplinary approach through communication technology. Prof K K Ghosh, Chairman of the Centre highlighted about various activities of IEI, Prof A A Deshmukh, Honorary Secretary of the Centre proposed the vote of thanks.

#### Roorkee

The Keynote Speaker on the occasion, Mr Vijay Kumar, CEO, Record Tech Electronics, Roorkee highlighted on the communication of data from remote location to data centre. He further highlighted the recent advancements in the area of telecommunication and the use of technology for online monitoring systems. Earlier,

Dr Achal K Mittal, Chairman of the Centre, in his welcome address emphasized the benefits of telecommunication & information technology. Dr M A Iqbal, Honorary Secretary of the Centre proposed the vote of thanks.



#### Rourkela

The Speaker on the occasion, Mr Manoj Kumar Mallick, Assistant General Manager, BSNL, Rourkela, spoke about the digital divide standardization gap and participation relationship. He further explained that a central part of ITU's mission is to develop

technical standards that make it easier to spread the benefits of information communication technologies worldwide. He also explained about the improvement upon different generation of technology. Earlier, Dr H M Jena, Honorary Secretary of the Centre



welcomed the august gathering and introduced the theme of the day. Mr Harjit S Kanvel, Committee Member of the Centre proposed the vote of thanks.

#### Saurashtra



The Theme Speaker, Prof (Dr) Dhaval Bhojani, Assistant Professor, E C Department, Govt. Engineering College, Rajkot explained about the benefits of 5G Technology. Other Theme Speaker, Mr R S Tanna, Lecturer, E C Department,

AVPTI, Rajkot cited some examples on the theme 'Bridging the standardization gap'. Earlier, Dr A S Pandva, Chairman of the Centre welcomed the august gathering and presided over the function. Mr R K Babaria, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

#### Silchar

Prof F A Talukdar, Head, Department of Electronics & Communication Engineering, NIT Silchar inaugurated the function. The speaker on the occasion, Prof Debamalaya Ghose, Department of Management and Business Administration, Assam

University spoke on the theme and elaborated the need of standardization. Earlier, Mr Nikhil Ranjan Choudhury, Chairman of the Centre, in his welcome speech highlighted the tremendous developments in ICT area over last



few decades. Mr Gautam Dutta Choudhury, Past Honorary Secretary of the Centre proposed the vote of thanks.

#### **Tiruchirappalli**

Mr P Manoharan, Deputy General Manager (CFAI), BSNL, Tiruchirappalli graced the



occasion as the Theme Speaker and addressed the gathering on the theme of the day. Mr S Samidas, Former Chairman, Dr N Kumaresan, Chairman and Mr A Anand, Honorary Secretary, Tiruchirappalli Local Centre were also present and spoke on the occasion.

#### **Trichur**

Mr V G Sankaranarayanan, Chairman of the Centre welcomed the august gathering and presided over the function. Mr C Rajendran, ITS, Principal General Manager, BSNL, Thrissur. graced the occasion as the Chief Guest



and spoke on the theme. Mr Sasidharan Achari M N, Honorary Secretary of the Centre proposed the vote of thanks.

#### **Upper Assam**



The Chief Guest on the occasion, Mr Aditya Kumar Sharna, Managing Director, Assam Gas Company Ltd., Duliajan described the growth of technology in day to day life by using

video calling, voice mailing, WhatsApp etc. Mr Dilip Kumar Das, CGM (Projects), Oil India Ltd. presented a brief on information technology, which is closely related to the telecommunication sector, Earlier, Mr Amitava Dasgupta, Chairman-in-Charge of the Centre, in his welcome address spoke briefly about the observation of the day and its recognition given by United Nations General Assembly and International Telecommunication Union (ITU). Mr Diganta Goswami, Honorary Secretary of the Centre proposed the vote of thanks.

### **News-in-Brief**

The following is a brief account of Technical Activities organised by various Centres and Overseas Chapter of the Institution

#### **STATE CENTRES**

#### Goa

Lecture on 'Non Destructive Testing (NDT) Methods' delivered by Mr Pritesh Chodankar, Proprietor, Indo Veritas Inspection & NDT Training and Services, Taleigao, Goa on March 25, 2019.

#### **Jharkhand**

Celebrated 'World Earth Day 2019' on April 22, 2019.

#### Karnataka

Lecture on 'National Highway Network and Construction in Karnataka' delivered by Mr R K Surya Wamshi, General Manager, Technical, Regional Head, National Highway Authority of India, Bengaluru on May 22, 2019.

#### Kerala

Lecture Meeting on 'Coastal Erosion Control by Using Pervious Concrete Armor' delivered by Mr R Ramakrishnan, Assistant Professor, and Dr N Narayana Pillai, Professor Emeritus, Amrita School of Engineering, Coimbatore on May 1, 2019.

Lecture on 'Humans in Space - The Legacy of Yuri Gagarin' delivered by Mr C Jasper Lal, Group Head (Retd), VSSC/ISRO on May 8, 2019.

Lecture on 'Effect of Piling on Adjacent Structures' delivered by Dr Jaya V, Professor, Department of Civil Engineering, Govt. Engineering College, Barton Hill, Trivandrum, on May 22, 2019.

Lecture on 'Five Years of Corporate Social Responsibility' delivered by Mr P Vijayachandran, Certified Corporate Director, World Council of Corporate Governance and Past Chairman of the Centre on May 29, 2019.

#### Maharashtra

Celebrated World Telecommunication and Information Society Day 2019 on May 17, 2019.

#### Manipur

Workshop on 'Earthquake Resistant Construction' during May 10-12, 2019.

#### Tamilnadu

Lecture on 'Road Safety' delivered by Mr K M Nagulan, Deputy Director, Southern Region, PCRA and Mr A arasimmamani, External Faculty, Southern Region, PCRA on January 10, 2019.

Lecture on 'Innovative Agriculture Marketing Infrastructure Projects' delivered by Mr M Nageswara Rao, Deputy General Manager, NABARD on January 31, 2019.

Lecture on 'Importance of Power quality and need for Model Power Quality Regulations in India 2020' delivered by Dr C Sharmeela, Associate Professor, Department of EEE, Anna University, Chennai on February 27, 2019.

Observed 'World Water Day' on March 20, 2019.

Lecture on 'Advancements in Looms & Energy Efficient Innovative Methods in Loom Conversions' delivered by Mr K R Nandagopal, Assistant Professor, Department of Textile Technology, Indian Institute of Handloom Technology, Salem and Mr Ravinder Vannam, Audit Energy on March 27, 2019.

#### **LOCAL CENTRES**

#### **Ahmednagar**

Lecture on 'Financial Planning for Engineers' delivered by Mr Swapnil Karwande, Financial Advisor, Managing Director of M/s Shriram Investments on May 10, 2019.

#### **Bokaro Steel City**

Lecture on 'Solar PV Grid Power Policies and Incentives' delivered by Mr Akhilesh Bumb on May 22, 2019.

Lecture on 'Project Implementation' delivered by Mr C P Sahay, former Deputy General Manager, SAIL, Bokaro Steel Plant on May 31, 2019.

#### **Bramhapur**

Celebrated 'Water Resources Day 2019' on April 22, 2019.

#### Durgapur

Observed 'National Technology Day' on May 11, 2019.

#### Ghaziabad

Organized Technical Visit to '100 Cusec Ganga Jal Water Supply Project' on May 11, 2019.

#### Kanyakumari

Lecture on Solar Power on the topic 'The Reliable and Economic Energy on Substitute' delivered by Mr Ranjith Thomas, Director, Droidic Energy Pvt Ltd, Trivandrum on May 15, 2019.

#### Kochi

Celebrated World Telecommunication and Information Society Day 2019 on May 17, 2019.

#### Kollam

Observed 'World Water Day 2019' on March 17, 2019.

#### Meerut

Lecture on 'Power System Management' delivered by Mr C P Gupta, former Chief Engineer, UP Power Corporation on May 12, 2019.

#### **Palghat**

Observed 'National Technology Day' on May 11, 2019.

#### Rourkela

Observed National Technology Day on May 13, 2019.

#### Solapur

Workshop on 'Norms, Specifications of RERA and Technical issues to be considered by Civil Engineers' on April 7, 2019.

#### South Gujarat

Workshop on 'Renewable Integration with Grid, Power Quality Scenario and Active Distribution Networks' during May 6-11, 2019.

#### Tiruchirappalli

Lecture on 'Advancements in Friction Stir Welding' delivered by Dr S SiddharthME, Visiting professor, University College of Engineering, Anna University, Tiruchirappalli on March 26, 2019.

Lecture on 'Local Post Weld Heat Treatment – Methods' delivered by Dr N Raju, Senior Deputy General Manager, Welding Research Institute, BHEL, Trichy on April 2, 2019.

Lecture on 'Machine Learning and its Applications' delivered by Mr R Rengaraj, Assistant Professor, Department of Information Technology, Saranathan College of Engineering, Tiruchirappalli on April 9, 2019.

Lecture on 'Civil Aviation - An Engineering Perspective' delivered by Mr C T Praveen Kumar, (Former Air India Service Engineer), Assistant Engineer, DTG, BHEL, Tiruchirappalliis on May 7, 2019.

Lecture on 'Behaviour Based Safety in Industries' delivered by Mr P Balasuramanian, Deputy Manager, Safety Management, BHEL, Tiruchirappalli on May 21, 2019.

#### Visakhapatnam

Observed 'National Technology Day' on May 11, 2019.

Organized 216th Birthday Celebration of Sir Arthur Thomas Cotton on May 15, 2019.

#### **West Bengal**

Seminar on 'Innovative Technologies for Fluid Systems and Smart Materials & Manufacturing' on May 9, 2019.

Lecture on 'Seven Glorious Decades of Corporate Excellence with Social Responsibility: Generation and Distribution of Electricity in Chemical, Pharmaceutical and Agriculture Industries' delivered by Dr Prabir K Mukhopadhyay, Member Secretary and Chairman, Damodor Valley Corporation (DVC) on May 25, 2019.

# **EL DIARY**

#### **Aerospace Engineering Division**

All India Seminar on "Bluff Body Aerodynamics" Kolkata, September 06-07, 2019

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [26: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### All India Seminar on "Issues and Challenges in **Aviation Industry**"

Jaipur, September 21-22, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [26: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

#### One Day Seminar on "Emerging Technologies in **Aerospace Engineering**"

Tiruchirapalli, September 27, 2019

The Honorary Secretary, IEI, Tiruchirapalli Local Centre, BHEL Main Office Road, Tiruchirapalli 620014 [28: 0431-2554285; Fax: 0431-2520383/2520775; e-mail: tiruchirapallilc@ ieindia.org]

#### Thirty-third National Convention of Aerospace Engineers on "Emerging Technologies in Aerospace Structures, Materials and Propulsion System"

Pune, November 15-16, 2019

The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhayan, 1332, J M Road, Shiyaiinagar, Pune 411005, Maharashtra [28: 020-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia. org]

#### Thirty-fourth National Convention of Aerospace Engineers on "Advances in Aerospace Engineering"

Kanpur, November 9-10, 2020

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTI East Campus, Nawabganj, Kanpur 208002 [Telefax: (0512) e-mail: kanpurlc@ieindia.org] 2560034;

#### **Agricultural Engineering Division**

#### One Day Seminar on "Sustainable Management of Water Resources in Agriculture"

Kolkata, July 05, 2019

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [**1**: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### Thirty-third National Convention of Agricultural Engineers on "Commercial Crops Processing and Value Addition"

Agartala, August 10-11, 2019

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P. O. Kunjaban, PB No 139, Agartala 799 006 [28: 0381-2304700; Fax: 0381-2304700; e-mail: tripurasc@ieindia.org]

#### All India Seminar on "Sustainable Agrifood Systems"

Hosur, August 29-30, 2019

The Honorary Secretary, IEI, Hosur Local Centre, No. 69, Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Hosur 635109, Tamilnadu [e-mail: hosurlc@ieindia.org]

#### National Conference on "Smart Village and Agriculture"

Bengaluru, February 07-08, 2020

The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [28: 080-22264698; Telefax: 080-22256191; e-mail: karnatakasc@ieindia. org; www.ieiksc.org]

#### **Architectural Engineering Division**

#### All India Seminar on "Structural Aspects of **Architectural Engineering**"

Jaipur, August 17-18, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [26: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

#### All India Seminar on "Architecture for Sustainable **Development**"

Raipur, September 14-15, 2019

The Honorary Secretary, IEI, Chhattisgarh State Centre, National Institute of Technology Campus, G E Road, Raipur 492010 [Ph: (0771) 2254625: e-mail: chattisgarhsc@ieindia.org: website: www.ieicg.org]

#### International Conference on "Architectural Innovations: Engineering, Technology and Materials"

Jaipur, November 27-29, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [26: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

#### **Chemical Engineering Division**

Thirty-fifth National Convention of Chemical Engineers on "The Food-Energy-Water (FEW) **Nexus- Challenges for Chemical Engineers**"

Guwahati, September 06-07, 2019

The Honorary Secretary, IEI, Assam State Centre, Panbazar Overbridge, East Lane, Guwahati 781001 [2: 0361-2548742; Fax: (0361) 2630368; e-mail: assamsc@ieindia.org; website: ieiasc. org]

#### **Civil Engineering Division**

All India Seminar on "Structural Design Special Reference to Seismic Effect on High Rise Buildina"

Gorakhpur, July 06-07, 2019

The Honorary Secretary, IEI, Gorakhpur Local Centre, 176 Siddharth Nagar Colony, Opp GDA Centre, Bharwaliya Buzurg, Taramandal, Gorakhpur 273017 [e-mail: gorakhpurlc@ieindia.

#### One Day Seminar on "Application of Rapid **Transit System for Medium Cities"**

Chennai, July 13, 2019

The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology - ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [e-mail: kanchepuramlc@ieindia.org]

#### All India Seminar on "Energy Efficient Design of Buildings with Special Reference to Energy Conservation Building Code (ECBC)"

Lucknow, July 13-14, 2019

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [Telefax: (0522) 2526322; e-mail: upsc@ieindia.org; website: www.ieiup.org.

#### All India Seminar on "Imperatives to Create the Future of Green Buildings"

Jabalpur, July 20-21, 2019

The Honorary Secretary, IEI, Jabalpur Local Centre, Visvesvaraya Marg, South Civil Lines, In Front of RTO Office, Jabalpur 482001 [Telefax: (0761)2678929; e-mail: jabalpurlc@ieindia.org]

#### All India Seminar on "Evolving Trends in Structural Monitoring and Rehabilitation"

Coimbatore, August 09-10, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [28: 0422-2580733; e-mail: coimbatorelc@ieindia.org]

#### Thirty-fifth National Convention of Civil Engineers on "Restoration and Maintenance of Structures and Water Bodies for Sustainability".

Ahmedabad, September 01-02, 2019

The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Near Law Garden, Law College Road, Ahmedabad 380006 [28: (079) 2640 0811; Telefax: (079) 2656 1825; e-mail: qujaratsc@ ieindia.org; website: www.ieigujarat.org]

#### International Conference on "Building the Disaster Resilient Society in S-E Asia: Roll of Nations"

Agartala, November 22-24, 2019

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P.O.: Kunjaban, PB No. 139, Agartala 799006, Telefax: 0381-2304700; e-mail: tripurasc@ieindia.

#### Thirty-sixth National Convention of Civil Engineers on "Innovation, Mechanisation and Modern Techniques in Civil Engineering",

Ranchi, September 8-9, 2020

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Doranda, Ranchi 834002 [26: (0651) 2491344; e-mail: jharkhandsc@ieindia.org; website: www. ieijsc.org]







#### Computer Engineering Division

All India Workshop on "Practical Approach towards Deep Learning"

Chandigarh, July 11-12, 2019

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg, Sector 19-A, Chandigarh 160019 [ : (0172) 2775418; Fax: (0172) 2540133; e-mail: pcsc@ieindia.org]

## International Conference on "Opportunities and Challenges of Blockchain Technology"

Chennai, September 13-15, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [☎: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

# All India Workshop on "Software Testing, Audit and Quality Assurance using Open Source Tools"

Chandigarh, November 21-22, 2019
The Honorary Secretary, IEI, Punjab & Chandigarh
State Centre, Madhya Marg, Sector 19-A,
Chandigarh 160019 [☎: (0172) 2775418; Fax:
(0172) 2540133; e-mail: pcsc@ieindia.org]

# Thirty-third National Convention of Computer Engineers on "Applied Computational Intelligence and Informatics"

Jaipur, February 15-16, 2020

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [2: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

#### **Electrical Engineering Division**

### All India Seminar on "Power Quality Enhancement in Distributed Generation"

Tiruchirappalli, July 19-20, 2019

The Honorary Secretary, IEI, Tiruchirapalli Local Centre, BHEL Main Office Road, Tiruchirapalli 620014 [26: 0431-2554285; Fax: 0431-2520383/2520775; e-mail: tiruchirapallilc@ieindia.org]

### All India Seminar on 'Smart Grid for Rural Development Challenges and Solutions'

Kanchepuram, July 25-26, 2019

The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology - ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [e-mail: kanchepuramlc@ieindia.org]

# Thirty-fifth National Convention of Electrical Engineers on "Storing Energy for a Sustainable Future: Future Energy in any Isolated World" Chennai, November 8-9, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [2: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

### International Conference on "Impact of Changing Energy-mix in Power Sector"

Kolkata, November 23-24, 2019

The Honorary Secretary, IEI, West Bengal

State Centre, 8 Gokhale Road, Kolkata 700020 [28: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### All India Seminar on "Policies of Governments, Paradigms Challenges and Opportunities of Sustainable Electrical Power in India"

Hyderabad, January 11-12, 2020

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [22: 040-23314969; e-mail: telanganasc@ieindia.org; website: ieitsc.org]

### All India Seminar on "Load Management in Electrical Power Systems in India"

Hyderabad, February 01-02, 2020

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [28: 040-23314969; e-mail: telanganasc@ieindia.org; website: ieitsc.org]

#### **Electronics & Telecom. Engineering Division**

### National Workshop on "Single Board Computer for Real-Time Applications"

Surat, July 5-6, 2019

The Honorary Secretary, IEI, South Gujarat Local Centre, Mahida Bhavan, Ichchhanath, Surat 395 007, Gujarat [2: 0261-2227340; e-mail: sglc@ieindia.org]

### All India Seminar on "Signal Processing, Statistics and Analysis"

Hosur, July 08-09, 2019

The Honorary Secretary, IEI, Hosur Local Centre, No. 69, Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Hosur 635109, Tamilnadu [e-mail: hosurlc@ieindia.org]

### All India Seminar on "Internet of Things for Smart Applications"

Madurai, July 18-19, 2019

The Honorary Secretary, IEI, Madurai Local Centre, Er T M Jambulingam Bhavan, No. 1, Vivekananda Nagar, 120 Feet Road, Surveyor Colony, K Pudur, Madurai 625007 [2: 0452-4373067; e-mail: madurailc@ieindia.org]

# All India Seminar on "Role of Geospatial Technology for Precision Agriculture"

Coimbatore, July 29-30, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [28: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

# All India Workshop on "Optical Fibre Technology and Photonic Integrated Devices for Communication & Industrial Application"

Tiruchirapalli, Augurst 09-10, 2019

The Honorary Secretary, IEI, Tiruchirapalli Local Centre, BHEL Main Office Road, Tiruchirapalli 620014 [2: 0431-2554285; Fax: 0431-2520383/2520775; e-mail: tiruchirapallilc@ieindia.org]

# All India Seminar on "Overview on Image Processing and Cyber Security"

Hyderabad, August 10-11, 2019

The Honorary Secretary, IEI, Telangana State

Centre, Visvesvarya Bhavan, Khairatabad, Hyderabad 500004 [28: 040-23314969; e-mail: telanganasc@ieindia.org; website: www.ieitsc.org]

# International Conference on "Electronics & Communications, Renewable Energy and IOT-Vision 2040"

Chandigarh, September 07-08, 2019

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg, Sector 19-A, Chandigarh 160019 [2: (0172) 2775418; Fax: (0172) 2540133; e-mail: pcsc@ieindia.org]

### All India Seminar on "Artificial Intelligence: An Aplication Perspective"

Coimbatore, September 20-21, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [28: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

# Thirty-fifth National Convention of Electronics & Telecommunication Engineers on "Intelligent Electronics Systems for State-of-the-Art Healthcare System"

Kurukshetra, October 19-20, 2019

The Honorary Secretary, IEI, Haryana State Centre, E-13, Ashoka Nursery, Kunjpura Road, Karnal 132001 [☎: (0184) 2266176, e-mail: haryanasc@ieindia.org]

#### **Environmental Engineering Division**

### All India Seminar on "Environmental Pollution Issues in Urban Areas"

Jaipur, July 06-07, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [2: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

# All India Seminar on "Environmental Sustainability of the Iron and Steel Industry through New Technologies"

Ranchi, August 10-11, 2019

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Doranda, Ranchi 834002 [(: (0651) 2491344; e-mail: jharkhandsc@ieindia.org; website: www.ieijsc.org]

# Thirty-fifth National Convention of Environmental Engineers on "Green Technology for Clean & Green India"

Bangalore, August 17-18, 2019

The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [2: 080-22264698; Telefax: 080-22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

# All India Seminar on "Solid Waste Management: An Industrial Perspective"

Bokaro Steel City, September 21-22, 2019
The Honorary Secretary, IEI, Bokaro Steel City
Lecal Control Abbitranta Physical Sector V A. Rokaro

Local Centre, Abhiyanta Bhawan, Sector V-A, Bokaro Steel City 827006 [2: 06542-267227/288972; e-mail: bokarolc@ieindia.org]









Hyderabad, November 22-24, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [ : 040-23314969; e-mail: telanganasc@ieindia.org; website:ieitsc. org]

# Thirty-sixth National Convention of Environmental Engineers on "Waste Recycling and Reuse" Kochi, August 07-08, 2020

The Honorary Secretary, IEI, Kochi Local Centre, Govt. Homeo Hospital Road, Near Pullepady Railway Over Bridge (East Side), P.O. Kaloor, Kochi 682017 [2:0484-2403838/3993 e-mail: kochilc@ieindia.org; website: www.ieikochi.org]

#### **Marine Engineering Division**

# All India Seminar on "Dredging Technology in Remediation and Environmental Protection Application"

Jaipur, August 03-04, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [2: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

# Thirty-third National Convention of Marine Engineers on the theme "A Safe and Environment Friendly Maritime Sector: Vision for Future" Kochi, August 30-31, 2019

The Honorary Secretary, IEI, Kochi Local Centre, Govt. Homeo Hospital Road, Near Pullepady Railway Over Bridge (East Side), P.O. Kaloor, Kochi 682017 [2:0484-2403838/3993; e-mail: kochilc@ieindia.org; website: www.ieikochi.org]

#### **Mechanical Engineering Division**

### One Day Seminar on "Smart Manufacturing using IoT"

Coimbatore, July 03, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [☎: 0422-2580733; e-mail: coimbatorelc@ieindia.org]

# All India Seminar on "Manufacturing Application of Micromachining for Automobile Components"

Kanchepuram, July 12-13, 2019

The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology - ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [e-mail: kanchepuramlc@ieindia.org]

# All India Seminar on 'Advances in Manufacturing Systems and Composites Fabrication'

Jaipur, July 13-14, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [2: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

### All India Workshop on 'Additive and Advanced Manufacturing'

Bengaluru, July 29-30, 2019

The Honorary Secretary, IEI, Karnataka State Centre, 3, Dr B R Ambedkar Veedhi, Bangalore 560001 [2: (080) 22264698; Telefax: (080) 22256191; e-mail: karnatakasc@ieindia.org; website: www.ieiksc.org]

### All India Seminar on "Scope and Opportunity of Hydropower and Wind Power in NER"

Mizoram, August 02-03, 2019

The Honorary Secretary, IEI, Mizoram State Centre, National Institute of Technology, Chaltlang (Dawrkawn), Aizawl 796012, Mizoram [e-mail: mizoramsc@ieindia.org]

### All India Seminar on "Tribology as Energy Saver for Mining & Heavy Industries"

Ranchi, August 24-25, 2019

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Doranda, Ranchi 834002 [26: (0651) 2491344; e-mail: jharkhandsc@ieindia.org; website: www.ieijsc.org]

#### All India Seminar on "Reverse Manufacturing " Kanpur, August 24-25, 2019

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTI East Campus, Nawabganj, Kanpur, 208002 [Telefax: (0512) 2560034; e-mail: kanpurlc@ieindia.org]

# Thirty-fifth National Convention of Mechanical Engineers, on "Trends and Developments in Automotive Industry"

Hosur, September 04-05, 2019

The Honorary Secretary, IEI, Hosur Local Centre, No.69, Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Tamilnadu, Hosur 635109 [e-mail: hosurlc@ieindia.org]

# Thirty-sixth National Convention of Mechanical Engineers, on "Innovations in Thermal Science and Engineering"

Agartala, September 05-06, 2020

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P. O. Kunjaban, PB No 139, Agartala 799 006 [2012]: 0381-2304700; Fax: 0381-2304700; e-mail: tripurasc@ieindia.org]

# Thirty-seventh National Convention of Mechanical Engineers on "Application of IoT and Big Data in Manufacturing and Associated Field"

Delhi, September 10-11, 2021

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, 2 Bahadurshah Zafar Marg, New Delhi 110002 [ 11-23379052 / 23379948; e-mail: delhisc@ieindia.org; website: www.ieidsc. in]

#### Metallurgical & Materials Engg. Division

International Conference of Metallurgical & Materials Engineers on "Synthesis, Characterization and Application of Nanomaterials (SCAN)"

Kolkata, November 01-03, 2019

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [**雷**: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### Mining Engineering Division

International Conference of Mining Engineers on "Mining – Present and Future : Investments, Issues and Challenges"

Hyderabad, October 23-25, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [2:040-23314969; e-mail: telanganasc@ieindia.org; website:ieitsc.org]

#### **Textile Engineering Division**

One Day Workshop on "**Technical Textile**" Solapur, July 20, 2019

The Honorary Secretary, IEI, Solapur Local Centre, Textile Department, Government Polytechnic, Akkalkot Road, Solapur 413006 [26]: (0217) 2727707 / 9764200502; e-mail: solapurlc@ieindia.org]

#### Interdisciplinary

### All India Seminar on "Combating Climate Change – An Integrated Action Plan"

Imphal, August 04-05

The Honorary Secretary, IEI, Manipur State Centre, Government Polytechnic Campus, Takyel, Imphal, Manipur 795001 [e-mail: manipursc@ieindia.org]

# All India Seminar on "Role of Embedded Systems in Industry 4.0: The Fourth Industrial Revolution" Coimbatore, August 30-31, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [☎: 0422-2580733; e-mail: coimbatorelc@ieindia.org]

### All India Seminar on "Green Energy Technologies for Sustainable Environment"

Pune, October 12-13, 2019

The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [☎: 020-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia. org]

# International Conference on "Innovative Engineering for Smart Cities, High Speed Transport and Infrastructure"

Chennai, November 18-20, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [28: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

#### **Overseas Chapter**

Centenary International Congress on "Smart Engineering: State-of-Art Technologies in Oil & Gas and Infrastructure Development"

Doha, September 26-27, 2019

The Honorary Secretary, IEI, Qatar Overseas Chapter, P.O. Box. No. 18523, Doha, Qatar [Telefax: +974 4427673; e-mail: ieiqatar@ieindia.org]

# TWENTY-SEVENTH IEI CONVOCATION AND TECHNICIANS'/STUDENTS' CONVENTION

**Jaipur, November 16-17, 2019** 

Theme: Industry 4.0 – Transforming Industrial Productivity

#### Technical papers are invited on following sub-themes:

- Process Improvement in Manufacturing Industry
- Applications of Radio Frequency Identification (RFID) Technology in the Logistics and Supply Chain Industry
- Plant Process Optimization with Internet of Things (IoT) Application
- Efficient Utilization of Industrial Process with Robotics Application
- Total Productive Maintenance (TPM) Application in Industries

With this in focus, papers are invited from Technician/Senior Technician members, students of polytechnics and engineering colleges students chapters for presentation in the All India Technicians'/Students' Convention to be held on 09 Nov 2019 at Jaipur, Rajasthan. The papers shall be on innovative ideas, design, prototype and technology development, case studies, survey details augmenting innovations, etc. pertaining to the theme so as to reach at Rajasthan State Centre latest by 30 Sep 2019.

#### Organized by: The Institution of Engineers (India)

Hosted by: Rajasthan State Centre

#### For further information, please contact:

The Organising Secretary (Convocation 2019)

The Institution of Engineers (India), Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, Rajasthan

Phone: (0141) 2706327; Telefax: (0141) 2700413 E-mail: ieiconvocation2019@gmail.com

**50**TH

# All India Student Design Competition - 2019

National Design and Research Forum (NDRF) of The Institution of Engineers (India) (IEI) has been formed to promote Design and Research in various branches of engineering.

NDRF handles, on behalf of IEI, the schemes relating to the National Design Awards and the All India Student Design Competitions. As part of this, NDRF conducts annually national level design competition for students. The competition is intended to give students an opportunity to exhibit their individual engineering skills and talents and earn recognition, while promoting engineering design and research.

In keeping with this, NDRF is happy to announce 50th All India Student Design Competition - 2019. The competition is open to students studying in final/pre-final year leading to BE / B.Tech / ME / MTech /MS or equivalent courses in engineering or have passed section 'A' Examinations of the IEI.

Entries are invited in the following disciplines from the student community. The Last date for receiving entries is 10 August 2018.

- Aerospace Engineering Agricultural Engineering Architectural Engineering Chemical Engineering Civil Engineering Computer Engineering Electronics & Telecommunication Engineering Electrical Engineering Environmental Engineering Marine Engineering
- Mechanical Engineering
   Metallurgical and Materials Engineering
   Mining Engineering
   Textile Engineering
   Production Engineering

For more information, contact National Design and Research Forum, The Institution of Engineers (India), # 3, Dr. B. R. Ambedkar Veedhi, Bangalore – 560 001.

Ph: 080-22264336; E-mail: ndrf@ieindia.org or visit NDRF website at www.ndrf.res.in

# 52nd ENGINEERS' DAY

# Theme: "Engineering for Change"

September 15 is celebrated every year in the country since 1967 as "Engineers' Day" to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred "Bharat Ratna" on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on economic planning in India, Planned Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A

theme of national importance is chosen every year by the Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the 52nd Engineers' Day will be celebrated all over the country and the Council of the Institution has selected the theme as "Engineering for Change" to mark the occasion.



Bharat Ratna Sir M Visvesvarava

'Change' is the most important challenge faced by the engineers of a developing India. They are further being challenged by the changing climate and ever increasing population. Extensive research is being carried out in all engineering disciplines to cope with such emerging challenges. Information and communication technology and Electronics are playing

a key role in several initiatives such as Digital India, Make in India, Startup India and Smart Cities. Keeping in view of the rapid transformation and innovation at international level, engineers of our country should be prepared to cope-up with the changes. The complexity further increases

> due to environmental concerns and actions needed for sustainable development. Engineers now cannot restrict themselves to a particular discipline. Good understanding of interdisciplinary innovations, design, planning and undertaking of researches and projects on that is the need of the hour.

Renewable energy has become the key notion of all Electrical as well as Environmental engineers as we have to move away from fossil fuel to save the environment. Wind energy and solar PV energy are now finding place amidst the conventional energy supply of the nation and interconnectivity of those with the main grid is being looked into. To facilitate the mobility of the huge population of our country, 'Green transport' is required to be implemented for all mass transport system.

Therefore the theme "Engineers for Change" calls upon the engineers to be the harbinger for the change by exploring the disruptive technologies in all engineering sectors to enable India to lead the crusade of mitigation of climate change.

The theme 'Engineering for Change' is chosen for Engineer's Day 2019 celebrations to address all these aspects.

# MoU with The Institute of Cost Accountants of India

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Gunaraja, President, IEI briefly acquainted the gathering with the vision of IEI to address the professional needs of engineers in the country. He also emphasized on the focus of IEI on creating an eco system of learning which will contribute to the continuous professional development during the entire spectrum of professional career of an engineer. Mr Amit Anand Apte. President, ICAI also shared his thoughts and highlighted that it is crucial for engineers eyeing a leadership role to understand the framework of costing, accounting system etc. in various decision making processes. Keeping the importance of embarking upon a digital learning platform for Corporate Members, President, IEI and President, ICAI formally signed the Memorandum of Understanding and mementos were exchanged as a token of remembrance. The event was concluded by Maj Gen (Dr) S Bhattacharya, VSM (Retd.), Secretary & Director General, IEI with a vote of thanks. Earlier, a Press Meet was organized at IEI Headquarters where various activities of IEI, International linkages and the vision of IEI were highlighted. Dr Gunaraja, President, IEI announced that IEI is marching towards its 100 years of glorious contribution to national development.

## IEI Delegation visited Qatar Overseas Chapter at Doha

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of important Meetings. IEI delegation interacted with Dr Khalifa N Al-Khalifa, President, College of North Atlantic, Qatar; Mr P Kumaran, Indian Ambassador to Qatar; Qatar Foundation (Qatar Science & Technology); Dean, College of Engineering, Qatar University and IEI alumni at Qatar. These interactions will strengthen in functioning the Chapter as well as enhance more number of technical activities in the region. During interactive sessions, The Qatar Chapter of IEI in collaboration with Qatar University has shown interest to host a Centenary International Engineering Congress on 26-27 September, 2019 at Doha, Qatar on the topic, "Smart Engineering: State-of-Art Technologies in Oil & Gas and Infrastructure Development". There were various other issues have been deliberated during the meetings included joint Certification Program for practicing engineers. On this occasion, Maj Gen (Dr) S Bhattacharya, VSM (Retd.), Secretary & Director General of IEI also graced the occasion.

# The Institution of Engineers (India) REVISED PROCEDURE FOR CONDUCT OF ELECTION

(Approved by the Council at its 689th meeting held at Ahmedabad, on 02-03 April, 2016 and amended at its 690th Meeting held at Durgapur on 26 Jun 2016 and at its 691st Meeting held on 24-25 Sep 2016 at Haridwar)

- 1. The procedure of appointment of BOS, election of Convener, issuance of election notice, seeking of nominations, obtaining consent of the nominees, finalization of the list of contestants for respective election and finalization of the Bio data of contesting candidates remains unchanged.
- 2. The proposer shall submit alongwith his nomination any of the acceptable identity proof document, i.e., PAN Card or Driving License or Photo ID Card issued by State / Central Govt. bearing signature or Photo ID Card of the IEI bearing signature or first page of passport bearing signature duly self attested.
- 3. The personalized ballots for the election shall be printed as Optical Readable with encrypted bar code. The ballot shall have pre-printed detachable identification slip with particulars of individual voter including address with space for signature, e-mail and mobile number of the voter. The ballot shall be sent in window envelope along with the following (specification of envelopes are placed at **Appendix 1A**). A sample of ballot is also attached at **Appendix 1B**.
- (i) Instruction to voters
- (ii) Ballot paper with identity slip
- (iii) One small envelope with the name of Division printed rubber stamped on it for return of ballot. (Name of Division is to be printed for Division elections only)
- (iv) One self-addressed large envelope identical for all Divisions, to accommodate the smaller one containing the ballot paper, detached identity slip of the voter and self-signed photocopy of specified document, (see 5 below) attached to the smaller envelope externally.
- (v) Bio data of candidates, if applicable [see (23) below].
- (vi) In case elections to the Council from State Centre under Regulation 26 is held along with elections to the Divisions, then the other envelope in which the ballot for Council seat is to be returned, should have COUNCIL prominently marked on the ballot envelope, in which the ballot for Council seat is to be returned. This envelope shall not be opened along with the envelopes containing ballot papers of the Division seats.
- 4. The Corporate members on the roll of the Institution as on 31 Mar of the year in which elections are due shall form the electorate college for the elections which will be prepared and supplied by the HQ IEI to the respective Centres. Those Corporate members can exercise their voting right in any of the following modes:
- a) Either through paper Ballot which shall be issued to the Corporate members by speed post or registered post.

b) Or by electronic system in which the log in credentials for online voting shall be issued to the Voters who are electronically reachable by mobile / e-mail. However, log in credentials for online voting shall be sent through e-mail only to the Corporate Members residing abroad in addition to the paper Ballot.

A provision for test scanning of ballots based on standard random sampling method with sample size 3% of ballots to be printed needs to be adhered to. As such 3% of the ballots have to be mandatorily test scanned (for each Divisions / Council Seat separately) by BOS prior to despatch for ensuring accurate alignment of printed ballots. Software will not allow election window to open without this test scanning. The envelope containing ballot papers etc shall be despatched to eligible voters on their recorded address by speed post or registered post and record of all such despatch shall be maintained. In case of large number of such envelopes, posting be done from multiple post offices in the city.

- 5. The voter would be required to attach any of the identity proof document (PAN Card or Driving License or Photo ID Card issued by State / Central Govt. bearing signature or Photo ID Card of the IEI bearing signature or first page of passport bearing signature) and self attest it. In case the name in the specified document is written differently from the identity slip e.g (SURENDRA KUMAR BHAGAT Vis-a-Vis S K BHAGAT), a certificate that both names belong to same person is to be provided on the photocopy by the voter. The signature on the photocopy shall be compared with the signature on the identity slip during scrutiny.
- 6. The envelope containing closed ballot envelope, identity slip and signed photo copy of specified document shall be returned to the BOS by post in a pre-printed Business Reply Envelope issued to the Voters by the Headquarters/Centre as the case may be for which the postage shall be paid by the Headquarters/Centre.
- 7. The ballot shall be returnable in not less than 45 days from the last date of posting the ballot to voters. Duplicate ballots shall be issued against written request whenever received by convener of BOS and shall be sent on recorded addresses of the voter by speed post or registered post. Record of such issues shall be maintained. It should be duly marked as "DUPLICATE" on detachable identity slip.
- 8. The postal ballot shall be returnable by the Voters by post only to the designated post box or post bag or to the Centre's address printed on the reply envelope and not by any other mode. The BOS will make appropriate arrangement for proper receipt of the ballots received at the Centre's office. Use of stationery other than the stationery officially supplied by the BOS shall invalidate the same.

- 9. The BOS shall authorize two or more of themselves to collect envelopes containing ballots from the post office (if Post Box /Post Bag is used). The envelopes containing the ballots should be dated and numbered serially. The envelopes shall remain unopened as they are received and a record of the ballots collected each day shall be maintained. The envelopes containing voting papers returned as undelivered (collected from the Post Office, if applicable) shall also be numbered separately and a record kept. The final collection shall be made immediately after the last date and time specified for return of the ballots. The envelopes received at Centre or in the Post Box / Post Bag after closing date and the time would not be counted under any circumstances.
- 10. The envelope shall be lodged each day in a ballot drop box which shall be housed in a room under lock and key and shall not be accessible to any one other than the BOS and shall not be removed from the said room under any plea whatsoever and shall be in the custody of BOS. Before dropping any ballot in the ballot drop box, it shall be locked and sealed in presence of the BOS after ascertaining that it is empty. The envelopes containing the ballots should be dropped into the box through the drop slit which shall be sealed under the signature of member of BOS each time after envelopes are dropped.
- 11. The BOS shall, after expiry of the said 45 days and on the day designated for counting votes, open the ballot box and arrange to scrutinize the voting papers with the assistance of other Corporate Members and / or the employees as may be approved by them. Scrutiny of ballots and counting of votes shall be supervised by at least three members of BOS.

#### **Scrutiny of Ballots:**

- 12. The BOS shall inform the candidates about date of counting of votes and shall permit the candidate or a Corporate Member as his representative duly authorized in writing to be present during counting of votes. The counting time shall be suitably finalized so as to account for the manual scrutiny of documentary proofs of voters.
- 13. For scrutiny, outer envelope shall be opened and inner envelope together with the identity slip of the voter and signed photo copy of specified document as mentioned in paragraph 5 above shall be sorted division-wise, rejecting all such envelopes which are found to be irregular or defaced, tampered with or found to be interfered with unwarrantably or obliterated in any way or where the signature on the identity slip does not tally with signature on the photo copy of the specified document, or is illegible or correcting fluid has been used, to make corrections.
- 14. Total number of smaller envelopes shall be compared with the record of collection from the post office or received at the Centre. Any discrepancy shall be recorded and sorted out to the satisfaction of the BOS before opening smaller envelopes.
- 15. The identity slip and signed photocopy of the voter shall then be detached and separated out. Envelopes, containing the ballot paper would be opened division wise / council wise and the ballot papers scrutinized for any irregularity or tampering and only the valid ballots shall be scanned for counting.

16. Manual counting of votes is not permissible. Counting of the ballot division-wise shall be done through scanning. The computer connected to the scanner and loaded with the special software shall give count of votes secured by each contestant. In unlikely event of two or more ballots from the same voter, the system will reject all votes of such voter and the detail of such voter, without details of the votes cast, shall be available. During the process of mediation, the total number of ballots scanned should tally with total of number of counted ballots displayed on computer. In case of discrepancy, if any, all ballot papers should be checked by physical count and rescanned, if necessary. There is no provision of manual entry of votes in the scanned data. The result of paper ballot shall be uploaded by the BOS by using their individual log-in ID and password to the specified election site. A specified minimum number of members of BOS would needed to log-in through their individual password in succession to upload the data.

The BOS can access the BOS Control Panel software only after they log-in with their membership number as log-in ID and a password. This password shall be made available to them by the Administrator. Before the first log-in, they will be required to change their password. BOS members have to create their own password and have to keep it strictly confidential.

#### **Electronic Voting:**

- 17. (a) Computer auto generated log-in credentials for online voting shall be sent through the mobile / e-mail to the electronically reachable members as on 31 Mar of the year on the opening day of the election.
  - (b) An eligible voter visiting the Institution website www.ieindia.org will be guided to the election portal. The voter can access the voting page of the relevant election by using log-in ID and password for voting online. A system generated One Time Password shall be sent to the registered Mobile / e-mail for casting of vote electronically. The One time Password shall have a validity of fifteen minutes. Separate One time Password shall be issued for all elections. The vote cast by a voter shall be encrypted and not available to anyone. The details of the voter by his membership number shall be available in the system. The electronic voting details cannot be downloaded and vote cast is encrypted. The bio-data of the contestants will be available for voters reference in the election portal, as well. In case of voting by both Ballot and online, the voting by Ballot will be considered valid for counting.
  - (c) In case a voter misplaces his password or has not received it for any reasons, he can request for computer auto-generated log-in ID and password from the HOME page of the IEI election web site which can be accessed through www.ieindia.org, which shall be sent to his mobile / e-mail.
  - (d) In case of members residing abroad who have registered their e-mail id, they will be provided the login credentials through his e-mail only.

#### **Security:**

- 18. A voter can log in using his / her password issued to him in his / her registered mobile / e-mail on the starting day of the election. However, while casting the vote, a system generated One Time Password (OTP) shall be sent to his / her registered mobile / e-mail. Voter has to use that password for casting his / her vote. The validity of the OTP shall be for fifteen minutes only or till its first successful use whichever is earlier.
- 19. The election Web service provider is to provide the source code under sealed cover to the Secretary and Director General for the purpose of record and safe custody. The Source Code is not to be opened and is to be kept sealed. Also a provision is to be incorporated in the software which will allow any changes whatsoever, only after simultaneous logging of two persons out of the President / The immediate Past President / Past President (depending upon their availability) and additionally the Secretary and Director General. The software is to have provision for generating an audit trail of such changes. The software is to also have feature of automatic logging out if no activity takes place for 10 minutes. After automatic logging out, re-logging by all three to access the site is to be made mandatory.
- 20. Voting web site shall close at 1700 hours simultaneously with the date specified for return of ballot and no voting on web can be done thereafter.

#### **Final Counting:**

21. On uploading the count of paper ballot to voting site, the system shall integrate count of paper ballot votes and web-based votes and final result, after eliminating dual voting or duplicate paper voting by a voter, shall be available to BOS instantly. The system shall automatically invalidate all duplicate paper Ballots found. Also in case of duplicate of votes between paper Ballot and online vote, the paper Ballot will be considered for counting. The details of duplicate voting, shall be available to the BOS after mediation of the results without voting particulars. In the event of a tie, the BOS shall decide the result by toss of coin or by drawing lots, as per the existing provision.

#### Bio data:

- 22. The Bio data of the contestant if furnished, as finalized by the BOS, shall be uploaded on the election site. This shall be available in public domain. It shall also be available for view to the voter while casting the vote on web.
- 23. The Bio data of the contestants shall also be published in the Centre's Newsletter. Additionally, the Bio-data as finalized by the BOS in printed sheet shall accompany the paper ballot. [Ref 3(v) above].

#### **Result:**

24. The BOS shall print the report on the result of the voting which shall be signed by the members of the BOS present and present the report along with connected papers to the Chairman of the Centre and forward a copy of the report to the Honorary Secretary of the Centre and also to the Secretary & Director General of the Institution for necessary action.

25. The Honorary Secretary shall immediately communicate official results of the election to the Secretary & Director General. The voting papers shall be sealed and kept by the Chairman of the Centre till 30 days after the ensuing AGM of the Centre whereafter they shall be destroyed, as per the existing proviso. The identity slips, with e-mail and mobile number written therein, shall be preserved separately and sent to HQ for updating the record of the members after expiry of the retention period of election papers before destruction.

For election to Council under Bye-law 4(a)(iii) the voting papers need to be preserved till 30 days of the Institution's AGM, whereafter they shall be destroyed. The identity slips with e-mail and mobile number written therein, preserved separately, shall be sent to HQ for updating the records of the members after expiry of the retention period of election papers, before destruction, similarly details of all the web voting shall be dealt with by the Administrator.

- 26. The BOS shall conduct all business of election from the premises of the Centre. In no case activities of election can be carried out from premises other than the Centre.
- 27. The Chairman and the Honorary Secretary in the office and the Chairman-elect and Honorary Secretary-elect shall not be members of the BOS.
- 28. No person shall be member of BOS for more than two consecutive elections.
- 29. The Chairman / Honorary Secretary of the Centre, without involving himself in operational activities of the BOS, shall oversee the functioning of the BOS to ensure that the procedure is not violated inadvertently.

In case the Chairman / Honorary Secretary himself is a candidate in any of the elections being conducted at the Centres of which he is the Chairman / Honorary Secretary and candidate(s) in the election to the Council from the Division Board, he should not be involved in any of the activities relating to the election process at the Centre. In such case, the State/Local Centre Committee may resolve to authorize an appropriate available noncandidate corporate member preferably past Chairman to oversee the functioning of the BOS without involving himself in operational activities of the BOS.

- 30. The Chairman of the Centre shall apply well in advance to the postal authority for allotting a Post Box / Post Bag, as applicable.
- 31. As decided by the Council at its 691st meeting held on 24-25 Sep 2016 at Haridwar, the candidate who desires to contest in the elections of IEI shall deposit the following earnest money:
- a) Election to the Council Seat Rs.10,000/-
- b) Election to the State Centre Committee Rs.5,000/-
  - Election to the Local Centre Committee Rs.3,000/-

#### Appendix 1A

#### **Specification of Envelopes**

The details of three envelopes for procurement/manufacture and printing for conduct of the election are as below. Please ensure that dimensions of the envelopes are not changed.

#### (a) **Dimensions:**

Outer Window Envelope (EV1) : 18 x 15 cm

Business Reply Envelope (EV2) : 17 x 14 cm

Ballot Envelope (EV3) : 16 x 13.5 cm

#### (b) **Printing on Envelopes:**

#### **EV1**: Window Envelope (craft / thick paper)

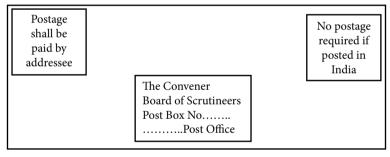
- 1. The address on the ballot identity slip visible from window shall act as address of addressees.
- 2. Senders Address on the left bottom

"Convener"

**Board of Scrutineers** 

The Institution of Engineers (India)

#### EV2: Business Reply Envelope (White Paper)



#### EV3: Ballot Envelope (Blue Paper)

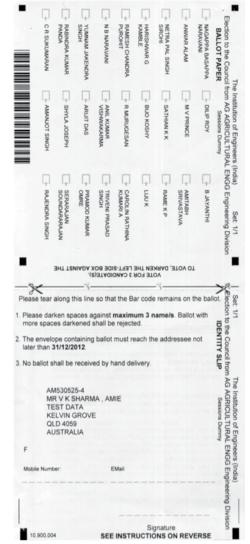
Print or Rubber Stamp, **Division Name** and "**BALLOT ONLY**", nothing else should be written / printed on this envelope. In case of election to the COUNCIL, print / rubber stamp word 'COUNCIL'.

BALLOT ONLY DIVISION NAME

Appendix 1B

#### **Sample Ballot:**

- (i) A sample of the ballot is placed below. It contains the instructions to the voters on the reverse of the ballot.
- (ii) The Ballot paper has to be printed on perfect pre-cut stationery of the specified size (11.69" X 5"), on a paper to ensure proper/accurate scanning.
- (iii) The Ballot shall be pre-printed with instructions for voters and cut mark for the identity slip, in a press, before the ballots are printed by BOS in the laser printer.



#### INSTRUCTIONS FOR VOTERS

- 1. Tear the Identity Slip from the Ballot at the perforated mark provided.
- 2. Fill-in or correct the E-mail address and Mobile number and sign the Identity Slip.
- 3. Make a photocopy of any of the identity proof document (PAN Card bearing signature or Driving License bearing signature or Photo ID Card issued by State/Central Govt. bearing signature or Photo ID Card of the IEI bearing signature or first page of passport bearing signature) and self-attest it with your signature. In case your name on the relevant signature bearing Photo ID proof is written differently, please certify on the photocopy that names in the Identity Slip and relevant ID document are of the same person.
- 4. Darken properly the required number of square boxes by pencil, in blue ink or black ink on the Ballot. Place the Ballot in the small envelope **without folding it** and then seal the envelope.
- 5. Place the Identity Slip, self attested photocopy of your signature bearing ID document and small sealed envelope containing the Ballot, all three in the **Business Reply Envelope** and post it. No postal stamps need to be affixed.
- 6. Please **DO NOT USE** pin or staple on the ballot.

# Punjab & Chandigarh State Centre Felicitates President and Vice President, IEI



Punjab & Chandigarh State Centre of the Institution felicitated Dr T M Gunaraja, President and Mr A S Bakshi, Vice President, IEI, on April 30, 2019. Mr Sisir Kumar Banerjee, Immediate Past President; Mr H C S Berry and Mr S L Garg, Past Presidents, IEI; Mr K C Sethi, Prof T S Kamal and Mr Sujit Kumar Banerjee, Council Members, IEI; Mr Janak Raj Garg, Chairman of the Centre and other eminent engineers also graced the occasion with their august presence.

# IEI Industry Excellence Award 2019 Request for Participation

The IEI Industry Excellence Award has been instituted to recognize industry leaders for their innovation, excellence in engineering operations and thereby, to lead their industry in competitive manner. The benchmarks created by the industries in India have included productivity, quality, safety and performance assurance thereby giving India the rightful place in the global markets. Realizing that such industries can provide the leadership to a large number of other industries in the country, it has been considered appropriate by the IEI Council to institute the IEI Industry Excellence Awards in the year 2008.

Applications are invited under following categories

#### (a) Engineering Manufacturing & Processing (EMP)

Category EMP-A: Organisations having turnover of Rs. 5000 cr. and above

Category EMP-B: Organisations having turnover of Rs. 1000 cr. and above but below Rs. 5000 cr.

Category EMP-C: Organisations having turnover of Rs. 500 cr. and above but below Rs. 1000 cr.

Category EMP-D: Organisations having turnover of Rs. 100 cr. and above but below Rs. 500 cr.

Category EMP-E: Organisations having turnover below Rs.100 cr.

#### (b) Engineering Services and Consultancy (ESC)

Category ESC-A: Organisations having turnover of Rs.500cr. and above

Category ESC-B: Organisations having turnover of Rs.100cr. and above but below Rs.500cr.

Category ESC-C: Organisations having turnover of Rs. 25cr. and above but below Rs100cr.

Category ESC-D: Organisations having turnover below Rs. 25cr.

Applications in specified format (visit link: https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award) are invited from prospective applicants for IEI Industry Excellence Award 2019. The last date of receipt of application for the Award 2019 is **July 31**, **2019**. Interested applicants are requested to send their applications (3 hard copies & 1 soft copy in CD/Pendrive) to the below mentioned address.

The Director (Technical)

The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020



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