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97 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENT FOR NATION-BUILDING

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## 32<sup>nd</sup> National Convention of Production Engineers, Ranchi

### Improving Competitiveness in Manufacturing – Make in India to Made in India

**Jharkhand State Centre** of the Institution in association with Centre for Engineering and Technology (SAIL), Ranchi, organized the Thirty-second National Convention of Production Engineers and National Seminar on the theme 'Improving Competitiveness in Manufacturing – Make in India to Made in India' during May 27-28, 2017 at Ranchi. The Chief Guest, Mr Atul Bhatt, Chairman and Managing Director, MECON Ltd, Ranchi, in his inaugural address, stressed on technological and operational excellence in Indian manufacturing industry. He briefly explained the principal aspects of 'Made in India' and 'Make in India' terminologies and emphasized on indigenous technologies. The Guest-of-Honour, Mr S K Saha, Executive Director (Safety), SAIL, Ranchi, highlighted the contribution of manufacturing industry in Indian economy. He explained manufacturing sector as a labour intensive sector where the customer requirement with respect



to cost-effectiveness, defined quality with proper delivery time are the principal criteria. In absence of Dr Deb Kumar Tripathy, Chairman, Production Engineering Division Board (PRDB), IEI, Dr Seeram Satyanarayana, Member, PRDB, IEI presided over the inaugural function. Dr Satyanarayana, in his address, mentioned that Indian manufacturing sector has its own capacity to employ people of various skills. He explained that based on manufacturing, other relevant sectors are build-up and employs more people. Dr Satyanarayana further stressed on 'Make in India', 'Skill Development Programme' and 'National Manufacturing Policy' of Government of India. He also explained various aspects of industrial revolutions, state-of-the-art machining, lean, flexible, agile and distributed manufacturing and applications of composite materials. The F W Taylor Memorial Lecture was delivered by Prof (Dr) Pradip Kumar Ray, Department of Industrial and Systems Engineering, IIT Kharagpur on the topic 'Total Performance Assurance in Indian Manufacturing Organization: Opportunities and Challenges'. The G C Sen Memorial Lecture was delivered by Mr Pradip Kumar Choudhury, Principal Technologist, National Jute Board, Ministry of Textiles, Government of India, on the topic 'Jute Jeotextiles and its Applications

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

IEI has recently celebrated the World Environment Day on the theme 'Connecting People to Nature' on June 5, 2017 all over the country. The theme encourages us to go outdoors and into nature, to appreciate its beauty and its importance and to take forward the call to protect the Earth that we share. This year's theme invites people to think about how they are part of nature and how intimately they depend on it. It challenges people to find fun and exciting ways to experience and cherish this vital relationship. IEI celebrated this day all over the country through its State/Local Centres. A brief report of the same has been incorporated in this issue.



It is my pleasure to inform you that this year on September 15, 2017, IEI is going to celebrate the 50th Engineers' Day through its State/Local Centres all over the country. You may recall that IEI is celebrating this event every year since 1967 to commemorate the birthday of the legendary engineer-statesman Bharat Ratna Sir Mokshagundam Visvesvaraya. This year Council of the Institution has selected the theme as "Role of Engineers in a Developing India" to mark the occasion. I hope that the deliberations by the experts in the field will help us in furthering the roadmap of "Make in India" to 'Made in India'.

Another major event, the Indian Engineering Congress, the apex activity of the Institution is scheduled to be organized at Chennai during December 21-23, 2017. The theme of the 32nd Indian Engineering Congress is 'Innovation in Engineering: Competitive Strategy Perspective'. Innovation in engineering can often but not always be product-oriented. However, it can also involve the development of new products or systems, new ways of training staff and new strategies for quality control. The capacity of an innovation is to influence the established systems of production and marketing. Innovation can take many different forms, depending on the industry.

I on behalf of the Institution invite all the members and other stake holders to attend these major events and actively participate towards furtherance of the engineering profession and contribute to nation-building.

## Joint Venture Programme of Tripura State Centre, IEI with The Institution of Engineers, Bangladesh

**Tripura State Centre** of the Institution is conducting Joint Venture Programme with other Centres of IEI and The Institution of Engineers in Bangladesh and Nepal. As a part of this programme, Tripura State Centre jointly with The Institution of Engineers, Bangladesh (IEB) organized following seminars at Chittagong, Dhaka and Comilla of Bangladesh.



The first Seminar on “Disaster Management and Sustainable Development” was organized jointly with IEB at Chittagong Centre on May 13, 2017. Md Nasimuddin, Mayor of Chittagong graced the occasion as the Chief Guest. Prof (Dr) Munaz Ahmed Noor, Vice Chancellor, Islamic University of Technology, Gazipur, Bangladesh, delivered keynote address while technical paper was presented by Mr R K Majumdar, Chairman, Tripura State Centre, IEI. Mr C Debnath, Honorary Secretary, Tripura State Centre, IEI also addressed the gathering. Mr Sadek Mohammed Chowdhury, Chairman, Chittagong Centre, IEB, presided over the Seminar Session. Earlier, Mr

Prabir Kumar Sen, Honorary Secretary, Chittagong Centre, IEB, welcomed the august gathering. The Second Seminar on the topic “Power Development: BBIN Scenario” was organized at Dhaka Centre, IEB on May 16, 2017 where Mr Nasrul Hamid, State Minister of Power, Energy and Mineral Resources, Bangladesh, was the Chief Guest. Mr Kabir Ahmed Bhuiya, President, IEB; Mr Khaled Mohammed, Chairman, Bangladesh Power Development

Board; Mr Md. Abdus Sabur, Honorary General Secretary, IEB and Mr Sudin Chattopadhyaya, Vice President, ONGC Tripura Power Company Ltd., Palatana, graced the occasion as Special Guests. Mr R K Majumdar and Mr C Debnath, Chairman and Honorary Secretary, respectively, Tripura State Centre, IEI and Mr Aminur Rashid Chowdhury, Honorary Secretary, Dhaka Centre, IEB, addressed the gathering. Dignitaries, namely, Mr Bikash Dewan, Chief Engineer, Bangladesh Power Development Board, Dhaka; Prof. (Dr) Ajoy Kumar Chakraborty, Head and Mr Saptadip Saha, Assistant Professor, Electrical Engineering Department, NIT Agartala, presented technical papers and discussed various aspects of power development. Mr Mesbahur Rahman Tutul, Chairman, Dhaka Centre, IEB, presided over the seminar programme. The third Seminar on “Flood Management and Sustainable Development” was organized at, Comilla Centre of IEB on May 19, 2017. Mr A K Sarifulla, Director, Bangladesh Academy of Rural Development graced the occasion as the Chief Guest. Mr Khandakar Murshed, Vice President; Mr Md Abdus Sabur, Honorary General Secretary and Mr Mamun, Assistant General Secretary, IEB, were the Special Guests. Mr C Debnath, Honorary Secretary, Tripura State Centre, IEI and Mr Md Rahamatulla, Vice Chairman, Comilla Centre, IEB, also spoke on the occasion. Mr R K Majumdar, Chairman, Tripura State Centre, IEI and Dr Mrinal Kanti Debbarma, Head, Department of Computer Science and Engineering, NIT, Agartala, presented papers embracing the theme of the Seminar. The session was presided by Mr Abdus Salam, Chairman, Comilla Centre, IEB. Earlier, Mr Kamal Kumar Ghosh, Honorary Secretary, Comilla Centre, IEB, welcomed the august gathering.

## Industrial Flow Measurement

**Karnataka State Centre** of the Institution in association with the Departments of Chemical Engineering & Biotechnology, Siddaganga Institute of Technology (SIT), Tumakuru, Karnataka, organized a two-day All India Seminar on the theme ‘Industrial Flow Measurement’, under the aegis of Chemical Engineering Division, IEI during March 10-11, 2017 at Tumakuru. The Chief Guest Dr S G Sreekanteshwara Swamy, Executive Secretary, Karnataka State Council for Science and Technology, in his inaugural address, stressed on the role of flow measurement in industries and the application of various instrumentation techniques in measurement of fluid flow. Dr M N Channabasappa, Director, SIT also addressed the gathering. Earlier, Dr B S Gowrishankar, Head, Department of Biotechnology,



welcomed the dignitaries and the participants. Dr S Murthy Shekhar, Head, Department of Chemical Engineering, proposed the vote of thanks. Technical papers on various sub-themes of the Seminar were presented and discussed during technical sessions. Mr Debojit Chowdhury, Deputy General Manager, Endress Hauser, spoke about flow technologies that are available today compared to conventional flow meters which were available earlier days. Some of the important flow meter technologies viz., magnetic flow meter, coriolis flow meter and thermal flow meters etc were also discussed. Mr T V Balasubramanyam, Principal Consultant, Q-Metrics, appraised the audience about the usage of flow meters and special features of vortex meter and coriolis flow meter. He highlighted the technique of how to know if flow meter has high failure rate and the causes of failure. Mr P K Sivakumar, Manager- Process Engineering, Edge Solutions, Bangalore, highlighted the application of flow meters in a process industry viz., for utilities, reactor control and process variables. He also spoke about the variation in batch flow and continuous flow process systems. Mr Srisha, Manager, Business Development, Yokogawa, elaborated the selection and analysis of flow meters. He explained the selection of flow meter with the help of flow meter selection guide wherein various parameters, such as, pipe size, nature of fluid, flow velocity and pressure range are taken into account. Mr P T Raghuram, Principal Scientific Officer, IISc, Bangalore, spoke about conventional flow measurement techniques viz., venturimeter, orificemeter and laboratory flow devices and working principles of wet gas flow meter. On this occasion, industrial visit to Kaleesuwari Refinery Private Limited, Tumkur, was arranged. The participants visited the industry to know the industrial scenario and the technologies adopted in the industry with regard to process operations and the flow measurement technique.

# World Environment Day 2017

Theme : **Connecting People to Nature**



World Environment Day was celebrated by the Centres of the Institution all over the country on June 5, 2017. Brief accounts of the celebration as received from various Centres are reported hereunder

## STATE CENTRES

### Delhi

Mr Devendra Gill, Chairman of the Centre, welcomed the dignitaries and the participants and highlighted the importance of the day. He felt that environment can be protected only when common people get associated with this mission. The Chief Guest, Dr Chandan Ghosh, Professor & Head, Geo-Hazard Risk Management Division, National Institute of Disaster Management (Ministry of Home Affairs, Govt. of India), in his address, narrated that the growing of Vetiver hedges on contours and adopting tillage practices between them has proved to be an effective method to reduce runoff and soil loss and increase in-situ moisture, thereby obtaining higher crop yields. He also mentioned some of the uses of Vetiver grass, such as, harvesting rainwater and protection of infrastructure, coastlines, waterways, farmland, flood-prone areas, etc. Mr Praveen Kumar Singh, Honorary Secretary of the Centre, proposed the vote of thanks.



### Karnataka

Prof (Dr) N Chikkanna, Chairman of the Centre, presided over the function. Mr Jasmal Singh, Honorary Secretary of the Centre, welcomed the gathering. Prof (Dr) T V Ramachandra, Co-ordinator, Energy & Wetlands Research Group, Center for Ecological Sciences, Indian Institute of Science, Bangalore, in his key-note address, focussed on understanding the nature and water linkages and benefits to the society. He further clarified that river banks are the motherhood for civilized human and these banks of rivers and lakes are the sources of water for drinking and agriculture. He mentioned that in order to enhance the water retaining capability in the catchment areas, it is essential to harvest rain water and undertake large scale watershed programme (soil and water conservation).



### Punjab & Chandigarh

Mr P S Bhogal, Chairman of the Centre, welcomed the gathering. Mr Krunesh Garg, Chief Environmental Engineer, Punjab Pollution Control Board, Patiala, graced the occasion as the Chief Guest. Presentation on the theme 'Connecting People to the Nature', was given by Mr Sandeep Garg, Chairman, Environment Matters and Mr Aayush Garg. During presentation, issues related to the theme of the day were discussed. Various ways and means for protection of environment were also highlighted by the speakers. All the dignitaries felt that nature has given us water, air and healthy climate and we have the responsibility to conserve the gift of nature for future generations. The importance of healthy living related to environment and the current engineering challenges was also explained by the speakers.



### Telangana

Dr S Satyanarayana, Chairman of the Centre, presided over the function. Mr G Rameshwar Rao, Honorary Secretary of the Centre, welcomed the gathering. The Chief Guest, Dr Craig Woolard, Director of Public Works of Bozeman, USA, in his speech, said that rivers, ground water, oceans etc. are all connected through the hydrologic cycle. He mentioned that in real sense, there is no new water since it is a finite resource. He further expressed his concern about the water contamination from industrial, agricultural and municipal activities which menace our life and environment. Dr Woolard apprised that every country has its unique challenges in preserving water resources and we all should work together to protect water resources and provide safe and clean water to the citizens of our communities. Dr G Shrvan Kumar, Joint Honorary Secretary of the Centre, proposed the vote of thanks.



## LOCAL CENTRES

### Agra



Mr Devendra Singh Chaudhary, Chairman of the Centre, presided over the function and spoke about protection of environment on grass root level of the society and to reduce pollution. He also elaborated on the theme of the day. Members of Association of Consulting Engineers (ACE), Agra Chapter and Committee Members of the Centre attended the programme. Dr B D K Patro, Honorary Secretary of the Centre, proposed the vote of thanks to the participants, media and members of IEI and ACE members for making the celebration a grand success.

### Aligarh

Prof (Dr) Mohammad Kamil, Chairman of the Centre, welcomed the dignitaries and stressed on preserving nature and environment. The Chief Guest, Dr Rashid Hayat Siddiqi, former Professor, Department of Civil Engineering, Aligarh Muslim University (AMU), Aligarh, highlighted the great efforts made by the Government of India towards the conservation of rivers in the country. He also explained the importance of rivers and appealed to the concerned authorities to take proper measures for maintaining the water bodies of the nation. The Guest-of-Honour, Prof Syed Iqbal Ali, former Principal, University of Boys Polytechnic, AMU, Aligarh, spoke about the importance of conservation of water. He pointed out that the excessive use of plastics and other disposable items discharged as solid waste creates a major threat to the environment. Dr Gyan Prakash, Honorary Secretary of the Centre, proposed the vote of thanks.



### Asansol

Mr K V Raju, Chairman of the Centre, welcomed the gathering and elaborated on the significance of celebrating the day with special emphasis on protecting the global environment from its continual degradation on key parameters. He informed that as an environmental control measure at national level – SAIL, has undertaken a programme of planting 10 lakh saplings in all steel plant locations together with mines zone this year. The Special Guest of the function, Mr Ramen Dey,



enumerated on different civilian behaviours which need to be corrected, like use of plastic carry bags, discipline in disposal of domestic refuges, etc. Mr Suvendu Panda, Manager (Environment Mgmt.), SAIL-ISP, Burnpur, presented a technical paper where he discussed on environment control measures adopted at 2.5MT integrated steel plant by SAIL-ISP, Burnpur observing zero discharge principle. Mr T T Lahiri, Honorary Secretary of the Centre, proposed the vote of thanks.

### Berhampur

Mr Ashutosh Patro, Chairman of the Centre, welcomed the gathering and emphasized on various remedial measures to reduce environmental pollutions.

Prof (Dr) P K Swain, Principal, P MEC, Sialapalli, Berhampur; Mr Ashis Kumar Behera, DFO; and Prof (Dr) Gunamani Jena, Dean, B. V. C. Engineering College, Andhra Pradesh, graced the occasion as the Chief Guest, Chief Speaker and Guest-of-Honour, respectively. All



the dignitaries discussed various aspects embracing the theme of the day explaining the motto and consequential effects. Mr Sanjay Kumar Moharana, Honorary Secretary of the Centre, proposed the vote of thanks.

### Bhilai



Mr Kailash Malhotra, Chairman of the Centre, welcomed the august gathering and spoke about the significance of observing the day. Mr Dilip Bhargava, General Manager/ I/c, Mines & Rowghat, SAIL/ Bhilai Steel Plant, graced the function as the Chief Guest. He delivered his speech on the

theme “Connecting People to Nature”. Mr Viteswar Nath, Honorary Secretary of the Centre, proposed the vote of thanks.

### Indore

Prof (Dr) P Bansod, Chairman of the Centre, welcomed the dignitaries and the participants. Mr Bhalu Mondhe, Renowned Environmentalist and President, ‘The Nature Volunteer’, Indore, stressed on connecting people to nature and love the nature. He urged that we need to develop a good education system which will create awareness about nature among younger generation. Dr D J Killedar, Convener, also discussed various aspects embracing the theme of the day. Mr D Wadhwa, Honorary Secretary of the Centre, proposed the vote of thanks.



### Kanpur

Prof D P Mishra, Chairman of the Centre, welcomed the august gathering. Mr U C Shukla, Director, MSME and Mr Rajesh Kumar Sinha, Sr. Manager HPCL, graced the occasion as the Chief Guest and Guest-of-Honour, respectively and addressed the gathering. Theme Speaker, Mr Vivek Asthana, Honorary Secretary of the Centre, while talking on the subject, mentioned that life exists on our



planet Earth due to its environment and existence of a supporting ecosystem. ‘In this race of advancement and development, we have exploited our natural resources ruthlessly due to which the natural balance of our ecosystem got disturbed and this has put on a threat on the existence of our highly developed and technologically advanced society’, opined Mr Asthana. Dr Rajesh Kumar Garg, Convener of the programme, proposed the vote of thanks.

### Kochi

Mr N Paul George, Chairman of the Centre, welcomed the Guest Speaker and the other dignitaries present on the occasion. The Guest Speaker Prof (Dr) P V Sasikumar, former Head, Marine Engineering Department, Cochin University of Science and Technology (CUSAT), in his address, highlighted that nature is the best



teacher and each creation like sun, moon, rain, trees, river, sea, fields and forest teaches us different things. He mentioned that as human being progressed, environmental degradation also progressed due to deforestation and damages to the ecosystem resulted in pollution and climatic changes. He stressed on conservation which is the cheapest way to save the nature. Mr T P Raveendran, Honorary Secretary of the Centre, proposed the vote of thanks.

### Kozhikode



Mr C Jithesh, Honorary Secretary of the Centre, welcomed the gathering and gave an overview of the proceedings of celebration of the day. Dr Muhamed Jafer Palot, Assistant Zoologist, Western Ghat Regional Centre, Zoological Survey of India, Kozhikode, made a detailed presentation on the theme “Connecting People to Nature”.

Prof (Dr) K P Mohandas, Chairman of the Centre, presided over the function. Mr M Sajan, Committee Member of the Centre, proposed the vote of thanks.

### Ludhiana

Mr Guneet Sethi of Punjab Pollution Control Board, Ludhiana, was the Chief Guest and Ms Avinash Kaur Walia, Managing Director, Spring Dale School, was the Guest-of-Honour. The Speaker, Mr Puneet Pal Singh Cheema, AP, GNDEC, Ludhiana, gave several examples as to how efforts of small community have led to huge environmental benefits. He also highlighted the problem of waste management in smart cities with examples of Pune city’s innovative measures in reducing the land fill. Brig Mastinder Singh, Chairman of the Centre, advocated 3R mantra – Reduce, Recycle and Reuse. Earlier, Mr Gurpreet Singh Walia, Honorary Secretary of the Centre, in his welcome address, stressed on protecting the environment.



### Madurai

Mr K Vijaya Kumar, Chairman of the Centre, delivered the welcome address and presided over the function. The Chief Guest, Mr D Venkatesh, District Forest Officer, Dindigul Forest Division, Dindigul, expressed his views that we should motivate common people to save the environment since it is degrading due to deforestation and pollution. He further explained that increase in population induces the people to indulge in deforestation, poaching wild animals, destroy biodiversity.



Mr Venkatesh emphasized that creating awareness through NGO, developing infrastructure and alternative employment through self-help group will help in uplifting the people as well as improving their educational status. The function concluded with vote of thanks proposed by Mr R Narayanasamy, Joint Honorary Secretary of the Centre.

### Mangalore

Dr S B Malegole, Honorary Secretary of the Centre, welcomed the gathering. Dr B R Manjunatha, Professor and Chairman, Department of Marine Geology, Mangalore University, Mangalore, while speaking on the theme of the day, said that nature's weather and climate are worsened due to human activities and it is the time to connect ourselves to the nature to safeguard the Earth. He called upon the engineers to take up geo-chemical engineering work to mitigate human impact on globe. He felt that man is dependent on earth for everything hence it is our duty to use the natural resources judiciously keeping in mind our future generation. Dr A O Surendranathan, Immediate Past Chairman of the Centre, presided over the function.



### Meerut

Mr V C Gupta, Chairman of the Centre, welcomed the guests and dignitaries present on the occasion. The Chief Guest Mr Vishnu Saran, Chairman, MIET Group of Institutions, emphasized on the protection of environment and suggested tree plantations as the best solution. The Guest-of-Honour, Lt Gen J M Garga, Director General, MIET, Meerut said that the environment is so polluted that the oxygen bags are used in some countries for breathing. Speaking on the theme, Dr S C Prasad, Professor & Head, Civil Engineering, MIET, Meerut, said that one of the challenging issues in connecting people to nature is water uses and sanitation. Dr A K Sharma, Professor & Head, Biotechnology Department, MIET, Meerut stressed on creating awareness among the common people about environmental issues and to encourage people to actively participate in developing environmental safety measures. Mr Rajneesh Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.



### Muzaffarpur

A Seminar on the topic 'Connecting People to Nature' was organized on this occasion. The Chief Guest, Dr C P Sukla, former Professor, Department of Botany, B R Ambedkar Bihar University (BRABU), Muzaffarpur, stressed on conservation of natural resources and control of environmental pollution. The Guest-of-Honour, Dr L N Shukla, former Professor, Department of Botany, BRABU, spoke about the disturbances being made by the common people with the nature. Dr J N Jha, Principal, MIT, Muzaffarpur, pointed out that instead of going close to the nature, we are making distances from it. Dr S K Mishra, Chairman of the Centre, mentioned that excessive exploitation of the nature has started threatening to people's life as well as the earth. Dr R R Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.



### Mysore

Mr M Chinnaswamy, Chairman of the Centre, presided over the function. Mr P G M Patil, Principal District Sessions Judge, highlighted the importance of preserving the earth for the benefit of mankind. Senior Civil Judge, Mohamud Muzir Ulla C G advised not to waste food, water, energy which are the essential part of environment. Mr M G Yatheesh, a Senior Officer of Pollution Control Board, gave a brief account of the action taken by the Board to maintain clean atmosphere and control industrial waste. Mr Shivanandappa spoke on the topic "Man and Nature – Past, Present & Future". He said that various human activities, including industrial revolution, mining, etc caused deforestation and resulted in climatic change, CO<sub>2</sub> emission, extinct of wild life and bio-diversity. Mr B V Ravindra Nath, Honorary Secretary of the Centre, proposed the vote of thanks.



### Palghat

The Guest Speaker, Prof M G Cyriac, Associate Professor, Department of Civil Engineering, Jyothi Engineering College, Cheruthurthy, pointed out that nature is the most efficient engineer and it has all the relevant technologies for maintaining its people. He further mentioned that the nature has systems for water purification, wastewater purification, air purification, solid waste disposal, maintaining and increasing soil fertility and lot of others. He mentioned that there are countless gifts of the nature to us like hydro-geologic cycle, wastewater treatment mechanism, solid waste treatment, air pollution control, etc. Prof Cyriac mentioned that the role of human beings is the most predominant in all cases of ecofriendly activities.



### Saurashtra

Mr J P Sinha, Chief General Manager (Technical), Indian Oil Corporation Limited, Western Region Pipelines, Gauridada, Rajkot, graced the occasion as the Chief Guest and delivered lecture embracing the theme of the day. Prof (Dr) Kaushik Roy, Assistant Professor, Department of Environmental Science & Engineering, Marwadi University, in his Keynote Address on the theme, discussed various aspects of climate change. Mr Bagda, Officer, Gujarat Pollution Control Board, Government of Gujarat, Rajkot, narrated the history of World Environment Day.



### Trichur

Mr V Damodaran, Chairman of the Centre, welcomed the guests and presided over the function. Mr Viswanathan Prabhakaran (Wikipedia) graced the occasion as the Chief Guest and presented the theme paper on "Connecting People to Nature". Mr U K Sugathan, Honorary Secretary of the Centre, proposed the vote of thanks.



### Udaipur

Mr M K Mathur, Chairman of the Centre, welcomed the august gathering and highlighted the importance of World Environment Day. The Chief Guest, Mr Akshay Singh, Chief Conservator of Forests, Government of Rajasthan, Udaipur, advised to plant at least one tree per person to maintain the balance of environment. The Guest Speaker, Dr Satish Kumar Sharma, Assistant Conservator of Forests (Retd), Government of Rajasthan, stressed upon the nature and elaborated that nature provides us all the necessary element to survive and these elements are the basic needs of every one. He stressed that one must conserve wild animals to maintain eco-balance of the environment. Mr Anurodh Prashant Sharma, Honorary Secretary of the Centre, proposed the vote of thanks.

*to be continued*

# 50<sup>th</sup> ENGINEERS' DAY

Theme:

## “Role of Engineers in a Developing India”

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 50th Engineers’ Day will be celebrated all over the country and the Council of the Institution has selected the theme as “Role of Engineers in a Developing India” to mark the occasion.

India is still a developing country and its development largely depends upon the robust industrial infrastructure. In the Indian industry scenario, Engineering is by far the largest segment. The nature of engineering industries in India is grossly diversified starting of heavy engineering, light and medium engineering and rural or cottage engineering. India’s engineering industry accounts for 27% of the total factories in the industrial sector and represents 63% of the overall foreign collaborations. It has emerged as the largest contributor to the country’s total merchandise exports. Indian manufacturing/engineering industry employs over 4 million skilled and semi-skilled workers (direct and indirect). The Indian engineering industry has emerged as a dynamic sector in the country’s industrial economy and has made the country self reliant in key areas.



Bharat Ratna Sir M. Visvesvaraya

40 billion by 2020. The total offshore engineering spend is likely to grow to USD 150-125 billion by 2020 and India, with its talent pool and experience in engineering services, is well suited to realize 25% of this opportunity.

India has a well-developed and diversified industrial machinery/capital base capable of manufacturing the entire range of industrial machinery. The industry has also managed to successfully develop advanced manufacturing technology over the years. Among the developing countries, India is a major exporter of heavy and light engineering goods, producing a wide range of items. The bulk of capital goods required for power projects, fertilizer, cement, steel and petrochemical plants and mining equipment are made in India. The country also makes construction machinery, equipment for irrigation projects, diesel engines, tractors, transport vehicles, cotton textile and sugar mill machinery.

The nature of Indian engineering exports is also changing with time. India is fast moving from exporting low-value goods to developing countries to exporting high-value goods to developed countries. With development in associated sectors such as automotive, industrial goods and infrastructure, coupled with a well-developed technical human resources pool, engineering exports are expected to grow high and high. Capital goods now account for 26 per cent of total engineering exports. A key driver for increased engineering exports is the trend towards shifting of global manufacturing bases to low cost countries like India. This trend is expected to boost exports of engineering goods from India over the coming years. Among developing countries, India offers the best combination of low costs, availability and skills and capabilities of manpower for the engineering sector.

In terms of availability and skills, India produces over 500 PhDs, 200,000 engineers, 300,000 non-engineering postgraduates and 2,100,000 other graduates each year, thereby ensuring a steady supply of qualified technical manpower for the sector. These huge numbers of qualified engineers are the key factor in developing the country and The Institution of Engineers (India) feels proud to be the largest body of engineers in the country with a dedicated service for the development of the nation since 1920.

## Electronics Design, Technologies and Applications

**Bareilly Local Centre** of the Institution in association with the Department of Electronics and Communication Engineering, Moradabad Institute of Technology (MIT), Moradabad, organized a two-day All India Seminar on the theme “Electronics Design, Technologies and Applications” under the aegis of Electronics & Telecommunication Engineering Division, IEI during April 7-8, 2017 at Moradabad. The Chief Guest, Dr L Venkatesh Lu, Commissioner, Moradabad, in his address, stated that instead of trapping into the game of name, fame and prestige, one should come up with their bright and innovative ideas. He further mentioned that instead of becoming



the job seeker, one should try to become a job giver for which they can seek financial help under various schemes of government, like, Make in India etc. Mr Prem Prakash Gupta, Chairman of the Centre, in his address, highlighted the revolutionary contributions of electronic engineers in various fields of electronics and mentioned that no wonder that one day the gadgets used in the cartoon series will be in the hands of our younger generation. Mr Sudhir Kumar Gupta, Honorary Secretary of the Centre, in his address, stated that the world is changing and previously the work which was done manually is now running automatically with the help of machines or robots and the whole credit goes to electronics engineering. Prof A K Gupta, Dean, MJPRU, Bareilly, in his speech, motivated the budding engineers for using their skills for the betterment of the society. Mr Sudhir Gupta, Founder Chairman, MITGI, Moradabad, in his address, mentioned that there was a time when researches were done using very less equipment or with the help of prior information but their facts were absolutely correct. He motivated the engineers to find out the techniques or methodologies which were used in that era. Prof A K Ghosh, Director, MIT, Moradabad, discussed various aspects embracing the theme of the Seminar. Mr Shrawan Kumar, Dellsoft Technologies Pvt. Ltd, New Delhi, delivered Keynote Address on the topic “Wireless Communication”. A Souvenir was brought out on this occasion which was released by the dignitaries. Dr Pankaj Sharma, Organizing Secretary of the Seminar, proposed the vote of thanks. A large number of papers on various sub-themes of the Seminar were presented and discussed in various technical sessions.

# NEWS-IN-BRIEF

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

## STATE CENTRES

### Assam

Workshop on 'Transformers Going Green -- Natural Ester Oil, an Effective Green Insulating Fluid for Power and Distribution Transformers' on April 27, 2017.

### Chhattisgarh

Celebrated 15th Foundation Day of the Centre on May 29, 2017.

### Delhi

Technical Program on 'Developing Safety Culture' on May 13, 2017.

Lecture on 'The Challenges Involved in the Waste-to-Wealth Paradigm & the Current Regulatory Systems' delivered by Mr Asit Neema, Foundation for Greentech Environmental Systems, New Delhi on May 30, 2017.

### Jammu & Kashmir

Meeting cum Interactive Session on 'Jhelum Dredging Project' on June 10, 2017.

### Jharkhand

Seminar on 'Futuristic Technologies' on May 11, 2017.

### Kerala

Lecture on 'Management System Auditing' delivered by Mr Dinesh K Menon, UNFAO Consultant, on January 11, 2017.

Lecture on 'Energy Conservation in Daily Life' delivered by Mr Aneesh Rajendran, Assistant Executive Engineer, Kerala Tourism Development Corporation, on January 18, 2017.

Lecture on 'Digital Banking' delivered by Mr S Sathesh Chandran, Technical Officer, Canara Bank, Thiruvananthapuram on January 25, 2017.

### Odisha

7th Prof Nityananda Patnaik Memorial Lecture on 'Some Unique Structures I have been associated with: 1971 Operation 'Cactus Lily' delivered by Mr Banbir Das, Former Director General, MES, Government of India, on the occasion of National Technology Day, on May 11, 2017.

### Telangana

G V Subba Rao First Endowment Lecture on 'Gust Pressures on Structures Review of Codal Provisions' delivered by Dr B L P Swami, Professor, Civil Engineering Department, Vasavi College of Engineering, Hyderabad, on June 19, 2017.

### Tripura

Annual Convention of Electronics & Telecommunication Engineering Division of the Centre and Seminar on 'Emerging Trends in VLSI & Nano-electronics' on March 5, 2017.

Annual Convention of Electrical Engineering Division of the Centre and Seminar on 'Electricity Beyond 2020' on March 11, 2017.

Annual Convention of Chemical Engineering Division of the Centre and Seminar on 'Environmental Bioscience: the Present Scenario and the Advancement towards its Exploration' on March 12, 2017.

Annual Convention of Civil Engineering Division of the Centre and Seminar on 'Sustainable Infrastructure' on March 19, 2017.

Annual Convention of Computer Engineering Division of the Centre and Seminar on 'Digital Payment System – Opportunities and Challenges' on March 25, 2017.

Annual Convention of Mechanical Engineering Division of the Centre and Seminar on 'Recent Trends in Mechanical Engineering and Role of Alternative Fuels' on March 26, 2017.

Celebrated 'National Technology Day' on May 11, 2017.

Seminar on 'Sustainable Transportation: A Case Study of Agartala City' on June 11, 2017.

### Uttar Pradesh

Seminar on 'Use of New Building Materials in Construction/New Techniques and its Effect on Valuation' on June 18, 2017.

### West Bengal

Celebrated 'National Technology Day' on May 11, 2017.

Celebrated '164th Birthday of Sir R N Mookerjee' on June 23, 2017.

## LOCAL CENTRES

### Agra

Faculty Development Program on 'Android Skilling' during May 16-20, 2017.

### Ahmednagar

Lecture on 'Selection of Quality Tools' delivered by Dr S S Sarda, Lecturer in Mechanical Engineering, Government Polytechnic, Jalna on June 12, 2017.

### Dharwad

Celebrated 'World Water Day' on March 22, 2017.

### Ghaziabad

Lecture on 'Disaster Management and e-Governance' delivered by Dr Brij Bhushan on April 16, 2017.

### Kalaburagi

Celebrated 'World Water Day' on March 22, 2017.

### Kozhikode

Workshop on 'Roadmap to Success in Engineering Studies' on May 20, 2017.

### Mangalore

Lecture on 'Wireless Sensor Networks' delivered by Dr Geetha V, Assistant Professor, Department of Computer Engineering, NITK, Surathkal on May 19, 2017.

### Mysore

Lecture on 'IoT Usage in Biomedical' delivered by Mr Abhilash Krishna on June 8, 2017.

### North Bengal

Seminar on 'A Review on Six Sigma Quality Engineering' on May 30, 2017.

### Silchar

Seminar on 'Smart City with Special Emphasis on Intelligent Traffic Management' on May 13, 2017.

### Solapur

Workshop on 'Holistic Management of Temple Catering to Floating Population' on May 20, 2017.

Workshop on 'Computational Fluid Dynamics' on June 12, 2017.

### Sunabeda

Celebrated 'World Water Day' on March 22, 2017.

### Tiruchirapalli

Lecture on 'Automated Learning and Intelligence' delivered by Dr A Raghunathan, Additional General Manager, BHEL, Tiruchirapalli, on June 13, 2017.

Lecture on 'Modern Aerodynamic Technologies to Improve Aircraft Performances' delivered by Dr S Nadaraja Pillai, Associate Professor, Department of Aerospace Engineering, School of Mechanical Engineering, SASTRA University, Thanjavur on June 20, 2017.

### Tirunelveli

Lecture Meeting on 'Integrated Waste Management and Recent Trends in Telecommunication and Big Data' on June 23, 2017.

### Visakhapatnam

Celebrated '214th Birthday of Sir Arthur Thomas Cotton' on May 15, 2017.

## Improving Competitiveness in Manufacturing – Make in India to Made in India

Contd. from page 1

in Geotechnical Fields'. On this occasion, Mr Indranil Sen, DGM (MH) Ranchi and RCM (JHPL PH 1A), MECON Ltd, was felicitated as Eminent Engineer for his valuable contributions in the field of Production Engineering. The IEL Young Engineers Award for the session 2017-18 in the field of Production Engineering was presented to Mr Neeraj Bhanot, Assistant Professor, Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab. Earlier, Mr Sanjay Sen, Chairman, Jharkhand State Centre, IEL welcomed the august gathering. He mentioned that 'Make in India' is an open call for foreign investors to setup manufacturing units in India whereas 'Made in India' involves conceiving,

designing and building a platform to create intellectual properties within the country. Mr A K Singh, Organising Secretary of the Convention proposed the vote of thanks. Proceedings containing the papers presented during the technical sessions was brought out and released on this occasion. A Panel Discussion on the theme 'Future of Production Engineering' was also organized. Mr M R Kumar, Honorary Secretary of the Centre, proposed the vote of thanks. A large number of papers embracing the theme of the Convention were presented and discussed during technical sessions. Participants from reputed organizations on technology innovations, product development, eco-friendly manufacturing and operation strategy, such as, MECON, CET, RDCIS, DSP, BIT-MESRA etc attended the Convention.

# IEI DIARY



## Aerospace Engineering Division

One Day Seminar on 'Aerodynamic Characteristics for Rarefied Flows'

Salem, August 21, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieiindia.org]

Thirty-first National Convention of Aerospace Engineers on "Innovation, Trends and Strategies of Indian Aerospace Sector – Present and Future"

Chennai, November 03-04, 2017

The Honorary Secretary, IEI, Tamilnadu State Centre, 19 Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: (044) 25360614/64998729; Fax: (044) 25369433; e-mail: tnsc@ieiindia.org]

Thirty-second National Convention of Aerospace Engineers on "Advances in Aerospace Sciences and Technologies"

Ranchi, October 27-28, 2018

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

## Agricultural Engineering Division

All India Seminar on "Technological Interventions in Total Value Chain of Farming to Double Farm Income"

Chennai, July 07-08, 2017

The Honorary Secretary, IEI, Tamilnadu State Centre, 19 Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: (044) 25360614/64998729; Fax: (044) 25369433; e-mail: tnsc@ieiindia.org]

One Day Seminar on "Increasing Mechanical Farm Power for Maximum Crop Productivity"

Coimbatore, July 19, 2017

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641 004 [☎: (0422) 258 0733; e-mail: coimbatorelc@ieiindia.org]

All India Seminar on "Role of Engineers for Sustainable Agriculture : Related to Modern India"

Berhampur, July 28-29, 2017

The Honorary Secretary, IEI, Berhampur Local Centre, C/o The Executive Engineer, Quality Control Division, Courtpetta Dist Ganjam, Berhampur 760 004 [e-mail: berhampurlc@ieiindia.org]

One Day Workshop on "Innovative Custom Hiring for Farm Machinery"

Kolkata, August 19, 2017

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

All India Seminar on "New Technical Guidelines 2015 of Mahatma Gandhi National Rural Employment Guarantee Act"

Kota, August 26-27, 2017

The Honorary Secretary, IEI, Kota Local Centre, Engineers Bhawan, Near BSNL Office, Jhalawar Road, Kota 324005, Rajasthan [☎: (0744) 2428250; Mobile: 9461655704; e-mail: kotalc@ieiindia.org]

Thirty-first National Convention of Agricultural Engineers on "Engineering Interventions in Doubling the Income of Small and Marginal Farmers by 2022"

New Delhi, February 2-3, 2018

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieiindia.org]

## Architectural Engineering Division

All India Seminar on "Urban Planning and Architectural Design for Sustainable Development"

Hosur, August 25-26, 2017

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

International Conference on "Architectural Innovations: Technology and Materials"

Jaipur, October 6-8, 2017

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

All India Seminar on "Architectural Technologies for Building Engineers"

Kozhikode, October 14-15, 2017

The Honorary Secretary, IEI, Kozhikode Local Centre, 'AKASH', First Floor, Cherooty Nagar Housing Colony, K P Chandran Road, Puthiyara PO, Kozhikode 673004 [☎: (0495) 2770614; e-mail: kozhikodelc@ieiindia.org]

Thirty-third National Convention of Architectural Engineers on "Architectural Engineering Aspect for Building Envelopes"

Hyderabad, November 10-11, 2017

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad, Telangana 500004 [☎: (040) 23314969; e-mail: telanganasc@ieiindia.org]

All India Workshop on "Training Group Leaders in Tribal Housing Technologies"

Kozhikode, November 20-25, 2017

The Honorary Secretary, IEI, Kozhikode Local Centre, 'AKASH', First Floor, Cherooty Nagar Housing Colony, K P Chandran Road, Puthiyara PO, Kozhikode 673004 [☎: (0495) 2770614; e-mail: kozhikodelc@ieiindia.org]

All India Workshop on "Advanced Computer Visualization Tools for Architectural Engineering"

Salem, January 19-20, 2018

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieiindia.org]

## Chemical Engineering Division

Thirty-third National Convention of Chemical Engineers on "Nano-technology and its Application for Sustainable Development in Chemical Industries"

Pune, September 09-10, 2017

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

International Conference on "Paradigm Shift in Chemical Engineering Education, Processes and Technology"

Ahmedabad, September 16-17, 2017

The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079)

26400811; Fax: (079) 26561825; e-mail: gujaratsc@ieiindia.org]

All India Seminar on "Safety Management and Energy Conservation in Process Industries"

Hyderabad, October 06-07, 2017

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad, Telangana 500004 [☎: (040) 23314969; e-mail: telanganasc@ieiindia.org]

## Civil Engineering Division

All India Seminar on "Application of Geospatial Technologies for Water Management in India"

Salem, August 03-04, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieiindia.org]

All India Seminar on "Use of Admixtures and Construction Chemicals in Current Construction Industry"

Chennai, August 10-11, 2017

The Honorary Secretary, IEI, Tamilnadu State Centre, 19 Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: (044) 25360614/64998729; Fax: (044) 25369433; e-mail: tnsc@ieiindia.org]

All India Seminar on "Development of Smart Cities for Better World"

Jaipur, August 18-19, 2017

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

All India Seminar on "Concrete and Steel Structures – Care for their Health and Longevity"

Bokaro, August 25-26, 2017

The Honorary Secretary, IEI, Bokaro Steel City Local Centre, Abhiyanta Bhavan, Sector 5A, Bokaro Steel City 827006 [☎: (06542) 267227 / 288972; e-mail: bokarolc@ieiindia.org]

All India Seminar on "New Trends and Innovations in Geotextile Reinforcement"

Thiruvananthapuram, September 01-02, 2017

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakaannu Palace, Thiruvananthapuram 695033 [☎: (0471) 2322991, 2322993; TeleFax: (0471) 2322992; e-mail: keralasc@ieiindia.org]

Thirty-third National Convention of Civil Engineers on "Recent Advances in Structural Engineering"

Ahmedabad, September 02-03, 2017

The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratsc@ieiindia.org]

All India Seminar on "Innovations and Challenges in Materials and Construction"

Kanpur, October 28-29, 2017

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTI East Campus, Nawabganj, Kanpur 208002 [TeleFax: (0512) 256 0034; e-mail: kanpurcc@ieiindia.org]

Workshop on "National Building Code of India - 2016"

Salem, November 02-03, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieiindia.org]

All India Seminar on "Sustainable Materials and Technology for Better Future"

Rourkela, November 11-12, 2017

The Honorary Secretary, IEI, Rourkela Local Centre,





National Institute of Technology Campus, Rourkela 769 008  
[Fax: (0661) 247 2709; e-mail: rourkelalc@ieindia.org]

**Thirty-fourth National Convention of Civil Engineers, on  
“Innovative Trends in Civil Engineering for Sustainable  
Development”**

Pune, September 28-29, 2018

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]

**Computer Engineering Division**

**One Day Seminar on “Big Data Analytics”**

Salem, July 07, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “Internet of Things for Smart Cities”**

Salem, July 14, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “Ethical Hacking”**

Kanchipuram, July 22, 2017

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

**One Day Seminar on “Orchestration of Data Science, Big Data and Virtualization”**

Salem, August 10, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “Machine Learning”**

Salem, August 17, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “R Programming in Big Data Analytics”**

Salem, August 24, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**All India Seminar on “Role of IoT in Smart Cities”**

Bangalore, August 25-26, 2017

The Honorary Secretary, IEI, Karnataka State Centre, 3 Dr B R Ambedkar Veedhi, Bangalore 560001 [☎: (080) 22264698/22207402; Fax: (080) 22256191; e-mail: karnatakasc@ieindia.org]

**One Day Workshop on “Biodata and Its Application”**

Hosur, September 02, 2017

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

**One Day Seminar on “Recent Trends in IoT for Smart Environment”**

Salem, September 08, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem

New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**All India Seminar on “Green Computing, Intelligent and Renewable Energy”**

Kanchipuram, January 08-09, 2018

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

**All India Seminar on “Impact of Data Analysis on Business of Future through IoT & Social Media”**

Ahmedabad, January 19-20, 2018

The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratssc@ieindia.org]

**Thirty-second National Convention of Computer Engineers on “Application of IoT in Rural Development”**

Ahmedabad, February 24-25, 2018

The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratssc@ieindia.org]

**Electrical Engineering Division**

**One Day Seminar on “Smart Grid Technology & Renewable Energy”**

Salem, July 15, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**All India Seminar on “Renewable Energy Generation and its Challenges”**

Bhubaneswar, July 22-23, 2017

The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit IV, Bhubaneswar 751001[TeleFax: (0674) 2390630; e-mail: odishasc@ieindia.org]

**All India Seminar on “Environmental Impact, Current Status of Fossil Fuels and Need for PV Power Generation”**

Salem, July 27-28, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “Recent Trends in Renewable Energy Sources & Energy Conservation”**

Salem, July 29, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “Energy Auditing and Energy Conservation Techniques”**

Salem, August 07, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**One Day Seminar on “Smart Grid Technologies”**

Kota, August 19, 2017

The Honorary Secretary, IEI, Kota Local Centre, Engineers Bhawan, Near BSNL Office, Jhalawar Road, Kota 324005, Rajasthan [☎: (0744) 2428250; Mobile: 9461655704; e-mail: kotalc@ieindia.org]

**All India Seminar on “National Electric Mobility Mission 2020”**

Delhi, November 17-18, 2017

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

**Thirty-third National Convention of Electrical Engineers on “Hybrid AC/DC Power Systems for Effective Utilization of Renewable Energy”**

Tiruchirapalli, November 24-25, 2017

The Honorary Secretary, IEI, Tiruchirapalli Local Centre, BHEL Main Office Road, Tiruchirapalli 620014 [☎: (0431) 255 4285; Fax: (0431) 252 0383 / 252 0775; e-mail: tiruchirapallilc@ieindia.org]

**All India Seminar on “Energy, Power and Electrical Engineering”**

Guwahati, November 24-25, 2017

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

**All India Seminar on “Recent Trends in Renewable Energy Application and Research”**

Ahmedabad, February 16-17, 2018

The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratssc@ieindia.org]

**“National Power Engineering Conference – 2018”**

Madurai, March 09-10, 2018

The Honorary Secretary, IEI, Madurai Local Centre, T M Jambulingam Bhavan, 1 Vivekananda Nagar, 100 Feet Road, Surveyor Colony, K Pudur, Madurai 625 007 [☎: (0452) 256 1783; e-mail: madurailc@ieindia.org]

**International Conference on “Recent Developments in Cleaner and Safer Nuclear Power Generation”,**

Hyderabad, May 24-26, 2018

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

**Electronics & Telecom. Engineering Division**

**One Day Seminar on ‘Test Engineering for Electronic Hardware’**

Salem, August 05, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

**All India Seminar on “Futuristic Trend in Telecommunication Engineering & Telecom Panorama – Fundamentals and Evolving Technology with Particular Reference to Smart Cities”**

Jabalpur, August 05-06, 2017

The Honorary Secretary, IEI, Jabalpur Local Centre, Visvesvaraya Marg, Civil Lines, Jabalpur 482 001 [TeleFax: (0761) 267 8929; Fax: (0761) 404 5625; e-mail: jabalpurc@ieindia.org]

**One Day Seminar on “5-G Technologies and Future Scenario”**

Delhi, August 25, 2017

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

**One Day Workshop on ‘Application of Digital Signal Processing’**

Salem, September 06, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]



### All India Seminar on "Use of Nano-Technology in Medical Applications"

Bhubaneswar, September 16-17, 2017  
The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit IV, Bhubaneswar 751001 [TeleFax: (0674) 2390630; e-mail: odishasc@ieindia.org]

### Thirty-third National Convention of Electronics and Telecommunication Engineers on "Recent Advances in IoT"

Hyderabad, November 29-30, 2017  
The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad, Telangana 500004 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org]

### One Day Seminar on "Nanotechnology in Medical Applications"

Salem, December 09, 2017  
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlic@ieindia.org]

## Environmental Engineering Division

### All India Seminar on "Innovative Approaches towards Solid Waste Management"

Thanjavur, July 13-14, 2017  
The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavurlic@ieindia.org]

### One Day Seminar on "Potential of Green Energy in India and its Harnessing Plan"

Lucknow, July 23, 2017  
The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers Bhawan, River Bank Colony, Lucknow 226018 [TeleFax: (0522) 2625322; e-mail: upsc@ieindia.org]

### All India Seminar on "Scientific Mining of River Bed Material and Environmental Impact"

Dehradun, August 04-05, 2017  
The Honorary Secretary, IEI, Uttarakhand State Centre, PO: Clement Town, Delhi - Saharanpur Road, Near ISBT, Dehradun 248002 [TeleFax: (0135) 2641190; e-mail: uttarakhandsc@ieindia.org]

### Thirty-fourth National Convention of Environmental Engineers on "Environmental Pollution and Climate Change"

New Delhi, August 10-11, 2018  
The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

### All India Seminar on "Environmental Impact Assessment in India"

Thanjavur, August 17-18, 2017  
The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavurlic@ieindia.org]

### Thirty-third National Convention of Environmental Engineers on "Status of Technological Advancement to Meet the Environmental Norms for Indian Mining & Allied Industries"

Dhanbad, August 24-25, 2017  
The Honorary Secretary, IEI, Dhanbad Local Centre, Veena Engineers' Building, Golf Ground, Dhanbad 826 001 [☎: (0326) 2311 020; e-mail: dhanbadlc@ieindia.org]

### One Day Workshop on "Theory and Practice of Wastewater Management"

Thanjavur, September 09, 2017  
The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavurlic@ieindia.org]

### One Day Seminar on "Hygiene and Public Health"

Thanjavur, September 28, 2017  
The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavurlic@ieindia.org]

### All India Seminar on "Eco Friendly Clean & Green Energy – Need and Challenges"

Neyveli, October 6-7, 2017  
The Honorary Secretary, IEI, Neyveli Local Centre, Institution Building, Block 17, Neyveli 607801 [☎: (04142) 252 597; e-mail: neyvelilc@ieindia.org]

### One day Workshop on "HVAC & R Industry"

Ranchi, November 25, 2017  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

### All India Seminar on "Water Conservation through 3R's – Reduce, Recycle and Reuse"

Bokaro, December 02-03, 2017  
The Honorary Secretary, IEI, Bokaro Steel City Local Centre, Abhiyanta Bhavan, Sector 5A, Bokaro Steel City 827006 [☎: (06542) 267227 / 288972; e-mail: bokarolc@ieindia.org]

### One Day Workshop on "Project Management Cost & Time Overrun"

Ranchi, January 14, 2018  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

### All India Seminar on "Water Quality Management Strategies Determination for Streams in a River Basin"

Kolar, January 23-24, 2018  
The Honorary Secretary, IEI, Kolar Local Centre, Dr T Thimmaiah Institute of Technology Premises, Oorgaum, Kolar Gold Fields 563120 [e-mail: kolartc@ieindia.org]

### One Day Workshop on "Environmental Management and Sustainable Development"

Thanjavur, January 24, 2018  
The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavurlic@ieindia.org]

### All India Seminar on "Energy Efficiency in HVAC & R"

Ranchi, February 10-11, 2018  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

### One Day Seminar on "Sewage Treatment and Disposal"

Thanjavur, February 23, 2018  
The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavurlic@ieindia.org]

## Marine Engineering Division

### All India Seminar on "Advanced Strategies for Corrosion Control in Marine Systems"

Tuticorin, August 10-11, 2017  
The Honorary Secretary, IEI, Tuticorin Local Centre, 1/27, Sacred Heart Institute of Engineering, Meelavittan Road, Tuticorin 628002 [☎: (0461) 230 0577; e-mail: tuticorinlc@ieindia.org]

### Thirty-first National Convention of Marine Engineers on "Inland Water Transport - Technical Challenges & Opportunities"

Kolkata, October 15-16, 2017  
The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, 'B' Zone, Durgapur 713205, [Fax: (0343) 256 4770; e-mail: durgapurlc@ieindia.org]

### Thirty-second National Convention of Marine Engineers on "Emerging Trends and Developments in Marine Technology"

### Chennai, August 18-19, 2018

The Honorary Secretary, IEI, Tamilnadu State Centre, 19 Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: (044) 25360614/64998729; Fax: (044) 25369433; e-mail: tnscc@ieindia.org]

## Mechanical Engineering Division

### One Day Workshop on 'Bulk Material Handling'

Ranchi, July 13, 2017  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

### All India Seminar on "Fundamentals and Trends in Additive Manufacturing"

Ahmedabad, July 21-22, 2017  
The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratssc@ieindia.org]

### All India Seminar on "Fuel Cells and Hybrid Vehicle Technology"

Hyderabad, August 18-19, 2017  
The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad, Telangana 500004 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org]

### All India Workshop on "Data Analytics for Engineers"

Ranchi, August 26-27, 2017  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

### One Day Workshop on 'Air Conditioning'

Vadodara, August 27, 2017  
The Honorary Secretary, IEI, Vadodara Local Centre, Race Course Circle, Opposite GERI, Vadodara 390 007 [☎: (0265) 231 0800 / 658 6873; e-mail: vadodaralc@ieindia.org]

### Thirty-third National Convention of Mechanical Engineers on "Advances in MEMS and Robotics in Manufacturing Industries"

Udaipur, September 01-02, 2017  
The Honorary Secretary, IEI, Udaipur Local Centre, 128, Hiran Magri, Sector 11, Near Seva Charitable Hospital, Udaipur 313002 [☎: (0294) 2583702; e-mail: udaipurlic@ieindia.org]

### All India Seminar on 'Automation in Welding'

Kolkata, September 08-09, 2017  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbssc@ieindia.org]

### One Day Workshop on 'CAD/CAM'

Salem, October 10, 2017  
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlic@ieindia.org]

### All India Seminar on "Energy Efficiency Intervention for Operational Cost Reduction in Manufacturing Industries"

Delhi, November 03-04, 2017  
The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

### All India Seminar on "Sources of Planet Energy, Environmental & disaster Science: Glacier Melting and it's Challenges"



Lucknow, November 18-19, 2017  
The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers Bhawan, River Bank Colony, Lucknow 226018 [TeleFax: (0522) 2625322; e-mail: upsc@ieindia.org]

International Conference on **“Future Material Handling Prospects – Opportunities and Challenges”**  
Ranchi, January 27-28, 2018

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

All India Seminar on **“Recent Development in Mechanical Engineering – Computational Heat Transfer, Fluid Flow and Energy Systems”**

Thiruvananthapuram, July 14-15, 2018  
The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakaunnu Palace, Thiruvananthapuram 695033 [☎: (0471) 2322991, 2322993; TeleFax: (0471) 2322992; e-mail: keralasc@ieindia.org]

Thirty-fourth National Convention of Mechanical Engineers on **“Mechanical Engineering and Engineering Challenges for Manufacturing”**

Delhi, September 01-02, 2018  
The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

Thirty-fifth National Convention of Mechanical Engineers, on **“Exploring Trends and Developments in Automobile Engineering”**

Hosur, September 13-14, 2019  
The Honorary Secretary, IEI, Hosur Local Centre, No.69, Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Tamil Nadu, Hosur 635109 [e-mail: hosurc@ieindia.org]

### **Metallurgical & Materials Engg. Division**

One Day Seminar on **“New Generation Composite Materials”**  
Salem, July 15, 2017

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemc@ieindia.org]

All India Seminar on **“Damage Assessment and Advanced NDE Techniques for Industrial Applications”**

Durgapur, July 15-16, 2017  
The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, 'B' Zone, Durgapur 713205 [TeleFax: 0343-2564770; e-mail: durgapurc@ieindia.org]

One Day Seminar on **“Recent Developments in Non-ferrous Alloys and their Applications”**

Salem, July 22, 2017  
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemc@ieindia.org]

All India Seminar on **“Indian Non-ferrous Metal Foundries: Opportunities and Challenges”**

Kolkata, August 05, 2017  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

One Day Seminar on **“Green Technologies for Iron and Steel Production”**

Salem, August 19, 2017  
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemc@ieindia.org]

All India Seminar on **“Advancement in Materials Processing and Characterization Techniques (AMCPT 2017)”**

Ranchi, September 09-10, 2017

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

Thirty-first National Convention of Metallurgical & Materials Engineers on **“Role of Stakeholders in Development of Roadmap for Steel Vision”**

Kolkata, January 19-20, 2018  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

International Conference of Metallurgical & Materials Engineering Division on **“Synthesis, Characterization and Application of Nanomaterials [SCAN]”**

Kolkata, November 01-03, 2018  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

### **Mining Engineering Division**

All India Seminar on **“Advancement in Mine Closure and Rehabilitation Techniques”**

Ranchi, December 09-10, 2017  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

### **Production Engineering Division**

All India Seminar on **“Production Engineering – Digital and Automation Entry into the Future Factories”**

Hyderabad, July 14-15, 2017  
The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad, Telangana 500004 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org]

All India Seminar on **“Major Advances and Sustainable Development in Production Engineering”**

Jamshedpur, July 15-16, 2017  
The Honorary Secretary, IEI, Jamshedpur Local Centre, Pipe Line Road, Sakchi (Between Red Cross Society and TCE Building), Jamshedpur 831001 [☎: (0657) 2234316; Fax: (0657) 2230159; e-mail: jamshedpurc@ieindia.org]

All India Workshop on **“Productivity Management in Manufacturing and Service Organisations”**

Kharagpur, August 18-19, 2017  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

All India Workshop on **“Quality Improvement in Products and Processes; Principles, Methods and Applications”**

Kolkata, October 27-28, 2017  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

All India Workshop on **“Six Sigma Fundamentals and Applications”**

Kolkata, March 16-17, 2018  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

### **Textile Engineering Division**

One Day seminar on **“Tribology and Energy Saving in Textiles”**

Salem, August 18, 2017  
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemc@ieindia.org]

Thirty-first National Convention of Textile Engineers on **“Indian Textile Industries: Future Direction”**

Hosur, February 17-18, 2018  
The Honorary Secretary, IEI, Hosur Local Centre, No.69, Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Tamilnadu, Hosur 635109 [e-mail: hosurc@ieindia.org]

### **Interdisciplinary Coordination Committee**

One Day Workshop on **“Intellectual Property Rights (IPR), Trademarks & Patents for Engineers”**

Ahmedabad, July 15, 2017  
The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratc@ieindia.org]

All India Seminar on **“Industrial Waste Management in India”**

Madurai, August 03-04, 2017  
The Honorary Secretary, IEI, Madurai Local Centre, T M Jambulingam Bhavan, 1 Vivekananda Nagar, 100 Feet Road, Surveyor Colony, K Pudur, Madurai 625 007 [☎: (0452) 256 1783; e-mail: madurailc@ieindia.org]

All India Seminar on **“Power Sector: Recent Advancements, Opportunities and Challenges Ahead”**

Ranchi, August 12-13, 2017  
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [☎: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

One Day Workshop on **“Improving Quality of Engineering Education”**

Udaipur, August 18, 2017  
The Honorary Secretary, IEI, Udaipur Local Centre, 128, Hiran Magri, Sector 11, Near Seva Charitable Hospital, Udaipur 313002 [☎: (0294) 2583702; e-mail: udaipurc@ieindia.org]

All India Seminar on **“Real Estate Industry and Agricultural Potential of India”**

Delhi, October 06-07, 2017  
The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

All India Seminar on **“Engineering Projects: Contracts, Funding and Legal Aspects”**

Jabalpur, December 09-10, 2017  
The Honorary Secretary, IEI, Jabalpur Local Centre, Visvesvaraya Marg, Civil Lines, Jabalpur 482 001 [TeleFax: (0761) 267 8929; Fax: (0761) 404 5625; e-mail: jabalpurc@ieindia.org]

One Day Workshop on **“Communication and Personality Development for Engineers”**

Ahmedabad, February 10, 2018  
The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratc@ieindia.org]

International Conference on **“Emerging Technologies for Sustainable and Intelligent Technologies for HVAC & R Systems”**

Kolkata, July 20-21, 2018  
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

### **National Languages Promotional Committee**

One Day Seminar on **“Climate Change”** (in Hindi)  
Delhi, July 08, 2017

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

# World Telecommunication and Information Society Day 2017

Theme : Big Data for Big Impact

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on May 17, 2017. Brief reports as received from various Centres are given hereunder.



## STATE CENTRES

### Chhattisgarh

Mr J P Saboo, Chairman of the Centre, delivered the welcome address. The Chief Guest, Dr Pradeep Kumar Sinha, Vice Chancellor & Director, International Institute of Information Technology, Raipur, explained the future of development in the area of electronics and telecommunication. He also narrated various issues of educational development in the field of information technologies. The Keynote Speaker, Mr Ashok Kumar Upadhyay, Principal General Manager (NWP/CFA),



BSNL, Raipur, explained the history of telecommunication technology in the country and present development being done by various departments and companies. The function was concluded with the vote of thanks proposed by Dr V K Pandey, Honorary Secretary of the Centre.

### Haryana

The Chief Guest, Mr T P Singh, Chairman of the Centre, pointed out that telecommunication has played a vital role in the development of the nation and the life has become comfortable due to fast communication methods. Mr Anil Budhiraja, Principal, SJP Polytechnic, Damla, was the Guest-of-Honour. Dr Vrinda Gupta, Associate Professor, Department of Electronics & Communication Engineering, NIT, Kurukshetra, in her keynote address, mentioned that a flood of data is created everyday by the interactions of numerous people using computers, GPS devices, cell phones. She further stated that it is a big challenge for the researchers to realize the potential for challenging these torrents of data in actionable form. Mr K C Sethi, Council Member, IEI, gave an account of activities of IEI. Earlier, Mr Vipin Kumar, Honorary Secretary of the Centre and Convener of the programme, welcomed the august gathering.



### Jammu & Kashmir

A conference on the theme of the day was organized on this occasion. The conference was started with a message from Prof A R Dar, Director, NIT, Hazratbal, Srinagar, which was followed by the Keynote Address delivered by the Chief Guest, Ms Diane Bracken of USA. Dignitaries, namely, Dr A H Moon, Director NIELET and Mr Musharib Gul, DGM Transmission, BSNL, delivered lectures embracing the theme. Mr Mohammad Ashraf Fazili, Chairman, of the Centre, said that Big



Data refers to technologies and initiatives that involve data that is too diverse, fast-changing or massive for conventional technologies, skills and infrastructure to address efficiently. 'But today, new technologies make it possible to realize value from Big Data', opined Mr Fazili. The conference was concluded with the gratitude message for the participants by Prof Roohie Naaz Mir, Dean R&C, NIT, Srinagar.

### Odisha

Prof (Dr) P K Parhi, Chairman of the Centre, presented the welcome address and stressed on the theme topic. The Chief Guest, Mr Rudra Narayan Palai, Special Secretary to Government, Electronics & Information Technology Department, Govt. of Odisha, emphasized on the modern data processing application software for capturing, storing and processing of big volume of data as well as data creation. The Chief Speaker,



Prof (Dr) Srikanta Patnaik, Department of Computer Science & Engineering, SOA University, Bhubaneswar, while speaking on the theme, elaborated the positive impact of big data coupled with data analysis tools in the field of telecommunication. He also narrated the benefits of big data processing in identifying the root causes of failures and issues in real time, personalizing the customer experience, adding value to online and offline customer interactions, etc. Dr S S Dash, Committee Member of the Centre, proposed the vote of thanks.

### Punjab & Chandigarh

Mr P S Bhogal, Chairman of the Centre, welcomed the Chief Guest, Guest-of-Honour and other distinguished guest present. Prof (Dr) B S Sohi, Vice-Chancellor, Chandigarh University, Gharuan, was the Chief Guest and Dr Baljit Singh Khehra, Head, Department of Computer Science and Mr Jagroop Singh, Vice-President, IEI, were the Guests-of-Honour. The Chief Guest, highlighted the importance of the theme. Dr Baljit Singh Khehra highlighted the impact of Big Data in the present scenario and spoke about future research work in this area. Prof (Dr) T S Kamal, Council Member, IEI, while speaking on the theme elaborated the operational and strategic impacts of Big Data and imperative framework that analyses the applications of Big Data. Mr P S Bhogal, Chairman of the Centre, proposed the vote of thanks.



### Tamilnadu

Mr Tata Sudhakar, Vice Chairman, IETE, Chennai Centre, welcomed the gathering and briefed about the significance of the celebration and touched upon the history and development of World Telecommunication Union. Dr Swarna Ravindra Babu, Chairman, IETE, Chennai Centre, read out the message of Secretary General, ITU, on this occasion. The Chief Guest, Mr Srinivasan Ramachandran, Additional Director General, South Zone, All India Radio & Doordarshan, Chennai, lucidly explained the role of ICT in the theme of the day 'Big Data for Big Impact'. Dignitaries, namely, Mr H R Mohan, Vice Chairman, IEEE Madras Section; Mr R Ramdoss, Honorary Secretary, Tamilnadu State Centre, IEI; Dr S S Sridhar, Chairman, IET, Chennai Network, attended the function.



Dr C Sheeba Joice, Honorary Secretary, IETE Chennai, proposed the vote of thanks.

### Telangana

The Chief Guest, Mr K Ramchand, PGM, BSNL, Hyderabad, presented chronological developments in telecom industries since the beginning of the century till present date. He highlighted the benefits of liberalization and subsequent growth in the telecom industry in Indian context and how customers are benefited by technological developments in telecom industry with good quality of service in addition to the value added services. The Keynote Speaker, Mr K Vijaykumar, Principal Consultant, Tata Consultancy Services, made an elaborate presentation on Big Data and explained the characteristics of Big Data viz. volume, velocity & variety, how to leverage Big Data for societal development and its applications in cloud computing. He also focused on various Big Data technologies, Big Data products and business benefits from Big Data.





### Tripura

Prof (Dr) Sekhar Datta of Tripura Institute of Technology and Prof Bidyut Bhattacharjee, Principal-in-Charge, Tripura Institute of Technology (TIT), Narsingarh graced the occasion as the Chief Guest and Special Guest, respectively. Dr Partha Mukherjee, Principal Consultant, SEMT, Tripura presented a power point presentation as Special Speaker. Mr R K Majumder, Chairman of the Centre, presided over the programme. Earlier, Mr B K Upadhyaya, Committee Member of the Centre and Associate Professor, TIT, Narsingarh, welcomed the august gathering.



### Uttarakhand

Mr R S Chauhan, Chairman of the Centre, welcomed the dignitaries and the participants. The Keynote Speaker, Mr A B Garg, Member, Computer Science & Engineering and Executive Committee Member of the Centre, in his address discussed various aspects embracing the theme of the day. Dignitaries, including, Prof M P Jain, Chancellor, IMS Unision, Dehradur; Mr A C Goel, Mr S M Saxena, Mr C M Dimiri, Mr J C Belwal, Mr H P Thapliyal were present on this occasion.



### Uttar Pradesh



The Keynote Speaker, Mr S S Sharma, Retd DGM, HAL, Kanpur, while speaking on the theme, elaborated how big data available on internet can be converted into useful and actionable information in a developmental work. He also explained how data analytics use various statistical techniques and mathematical algorithms

and tools available to convert raw data into useful information to solve various problems. Mr Sharma also dealt in detail about using information from big data which can be utilized in achieving 17 nos. sustainable development goals before 2030 in India as well as in neighbouring countries. Mr R K Trivedi, Honorary Secretary of the Centre, proposed the vote of thanks.

### West Bengal

The Speaker, Dr Abhik Mukherjee, Professor, Department of Computer Science & Technology, IEST, Shibpore, delivered his lecture on "Reachability and Assimilation: Issues in Big Data". He discussed various aspects, such as, key concepts of Big Data; representation of social networks & social network analysis; centrality measures; simulation & random network model; big data in social media & data reachability; scheme for risk abatement, etc. The other Speaker, Mr Joydeep Samajder, Principal Consultant, TCS, Kolkata, pointed out that we are all asking for Digital Era & the evolution of technology – Approach, Tech, Arch. He clarified various types of approaches, like procedural approach, component based approach and object oriented approach. He also spoke about how to get insight of data, next generation information platform – variety, velocity & volume. Earlier, Mr Kashmir Lal Mallik, Chairman of the Centre, welcomed the gathering. Mr Jayanta Kumar Dutta, Joint Honorary Secretary of the Centre, proposed the vote of thanks.



## LOCAL CENTRES

### Aligarh

Prof (Dr) Mohammad Kamil, Chairman of the Centre, welcomed the gathering. Prof Muktar Ahmed, former Chairman, Department of Electrical Engineering, Zakir Hussain College of Engineering & Technology, AMU, Aligarh, was the Chief Guest and Prof Mohammad Hasan, Chairman, Department of Electronics Engineering, ZHCET, AMU, Aligarh was the Guest-of-Honour. Both the dignitaries elaborated the theme "Big Data for Big Impact". Prof Kr Khalil A Khan, Convener and Past Chairman of the Centre, also addressed the gathering. Dr Gyan Prakash, Honorary Secretary of the Centre, proposed the vote of thanks.



### Berhampur

Mr Ashutosh Patro, Chairman of the Centre, in his welcome address, discussed in detail about telecommunication network and its utility. The Chief Guest, Dr Rajendra Kumar Das, Principal, GATE, Berhampur, spoke about the necessities and developments of telecommunication. He emphasized for increasing its efficiency and clarity of transmissions through the use of innovative technologies with a view to provide better service. The Chief Speaker, Dr Rama Krishna Dash, Director, NIC, Berhampur, highlighted the major advances in telecommunication sector and spoke about the new convergent technologies. The Speaker, Mr Ramesh Kumar, AGM, BSNL, Berhampur, explained the necessity of telecommunication facilities in our day-to-day life. Mr Sanjaya Kumar Patra, Convener, proposed the vote of thanks.



### Dhanbad

On this occasion, a technical deliberation on the theme of 'Big Data for Big Impact' was conducted. The Chief Guest, Dr Chiranjeev Kumar, delivered Keynote Address on the theme of the day. Dr D K Singh, Director, BIT, Sindri, presided over the function. Mr D B Naik, Chairman of the Centre, discussed various aspects embracing the theme. Past Chairmen, Past Honorary Secretaries of the Centres along with other members and guests from BIT, FCI, Sindri attended the programme. Earlier, Dr S C Dutta, Convener of the programme, introduced the theme. Dr K K Singh, Honorary Secretary of the Centre, proposed the vote of thanks.



### Faridabad

Mr Jitender Pal Singh, Chairman of the Centre, welcomed the gathering and gave an insight on IoT. Mr Sushil Kumar Bajaj, Honorary Secretary of the Centre, presented an overview on IoT. Dr N C Wadhwa, Vice Chancellor, MRIU, graced the occasion as the Chief Guest and delivered his lecture. Dr M K Soni, Executive Director and Dean, FET also addressed the gathering. Mr Sameer Kumar gave a presentation on IoT with main theme as use of QR Codes. Mr Pankaj Kumar presented an overview on various steps of IoT Standards. The event created awareness amongst the audience about IoT and its applications in the future.



### Ghaziabad

Welcoming the gathering, Prof (Dr) H S Sharma, Chairman of the Centre, mentioned that data, often unstructured, complex and imperfect, should be converted into actionable information development. The Chief Guest, Brig V S Chaudhri, Executive Committee Member of the Centre, shared his experiences of the two wars and underlined the importance of telecommunication for speedy actions. The Guest-of-Honour, Mr P V Sabesan, Chief General Manager, ALTT, Ghaziabad, highlighted the technological development that have facilitated the emergence of big data and the use of big data technologies for developing and monitoring improvements in information societies. The Keynote Speaker, Dr Raj Bahadur Yadav, Scientist, DRDO, presented operational scenario of laser communication, its applications and limitations. He also compared laser communication with satellite communication and emphasized its role in under water, beyond gravity and for small distance communications. The programme concluded with the vote of thanks proposed by Dr Satish Chandra Gupta, Honorary Secretary of the Centre.



### Indore

The Theme Speaker, Mr Anidhya Bhatnagar, Director & CEO, Medha Innovation and Development Pvt Ltd, Indore, emphasized on role and importance of Big Data in today's world. He explained the complexities of security and functioning of Big Data for defence applications. He also answered queries on recent ransomware virus attack which has affected many computer systems globally. Earlier, welcome





address was delivered by Prof (Dr) P Bansod, Chairman of the Centre. The programme was concluded with vote of thanks proposed by Mr D Wadhwa, Honorary Secretary of the Centre.

### Kalaburagi

Prof Ashok Patil, Assistant Professor, Information Science Department, PDA College of Engineering, Kalaburagi, was the Guest Speaker. Prof Patil, in his deliberation, gave an impressive speech related to "World Telecommunication & Information Society Day". Mr M M Kadadi, Chairman of the Centre, presided over the function and stressed on creating awareness about this important day. Earlier, Mr S B Kulkarni, welcomed the gathering and explained the significance of celebrating the day.



actionable data for achieving sustainable development goals. Mr Rajneesh Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.

### Muzaffarpur

Dr Shyam Kumar Mishra, Chairman of the Centre, welcomed the guests and dignitaries present on the occasion. The programme was inaugurated by Dr M M Alam, former Professor of Electrical Engineering. Dr A P Singh and Dr R K Jha, presented paper on the theme of the day. All the dignitaries discussed various aspects embracing the theme. The function concluded with the vote of thanks proposed by Dr Rajiv Ranjan Kumar, Honorary Secretary of the Centre.

### North Bengal

Mr Subhas Burman, Assistant Professor, Department of Computer Science and Engineering, Jalpaiguri Government Engineering College, Jalpaiguri, while speaking on the theme, defined Big Data, Activity Data etc and said that TVs, watches, appliances, phones, tablets, etc. are creating Big Data. In this respect, he briefly narrated about 4 'V's, namely, volume, velocity, variety and value. He presented clear idea about the method of turning Big Data into value. He spoke about the challenges, speed and its impact on Big Data Analytics, various applications from Big Data to Big Impact, like e-Commerce and Market intelligence, Science & Technology, Smart Health & Wellbeing, Security & Public Safety, etc. Mr Burman further mentioned that in India, Big Data is gaining attention and it has huge market opportunities for IT services and analytic firms. Mr N C Sadhukhan, Member of the Centre, proposed the vote of thanks.



### Kanpur

Prof D P Mishra, Chairman of the Centre, read out the message received from the Secretary General, ITU. Prof J Ramkumar, Chairman, IEEE, U P Section, introduced the Guest-of-Honour Dr Kripa Shanker, former Vice Chancellor, UPTU, Lucknow. The Chief Guest, Mr Mahendra Pati, GM, BSNL, Kanpur was introduced by Mr Vivek Asthana, Honorary Secretary of the Centre. The Theme Speaker, Mr Napreet Singh, IIT, Kanpur, in his address, focused on the subject "Big Data and Data-Driven Innovation: Benefits, Impacts & Opportunities". He explained that the Big Data is data whose scale, diversity and complexity require new architecture, techniques, algorithms and analytics to manage it and extract value and hidden knowledge from it. Earlier, Dr U S Yadav, Immediate Past Chairman, IETE, Kanpur Centre, delivered the welcome address. The function ended with the vote of thanks proposed by Mr C P Verma, Honorary Secretary, IETE, Kanpur Centre.



### Kota

The Chief Guest, Prof (Dr) Rajeev Gupta, Pro Vice Chancellor, Rajasthan Technical University, Kota, presented his thoughts over the theme of the day. He felt that data collection is very important to take appropriate decision. In this context he stressed on PDCA cycle. The Guest Speaker, Mr Trilok Maheshwari, Director, IT Campus, Kota, described Big Data as the large volume of data – both structured and unstructured and can be analyzed for insights which leads to better decisions and strategic business moves. He also spoke about sources of Big Data, such as, web data, e-commerce, purchase at departments, bank/credit card transactions, social network, social market, etc. Earlier, Mr Mahendra Chauhan, Immediate Past Chairman of the Centre, welcomed the participants and distinguished guests. Mr Jasamat Singh, Honorary Secretary of the Centre, proposed the vote of thanks.



### Pune

Prof (Dr) G S Mundada, Chairman of the Centre and the Convener of the event, welcomed the gathering and introduced the theme. The Chief Guest, Mr D C Dwivedi, PGM, BSNL, Pune, discussed the background of the growth of telecommunication in our country and outlined the role of BSNL and other players in this process of rapid and vast development. He also emphasized 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 Sandeep Deshmukh, Big Data, Hadoop, Apache Apex Trainer and Consultant, mentioned that with the advent of social media, data scientists got busy in analyzing the blogs and twitters to find out the preferences of common man. He mentioned that analysis of such data could help in improving business's marketing strategy, since the needs of customer are better understood. Dignitaries from IEEE, IETE, IET, Pune Chapter/Section also attended the programme. Dr Rajshree Jain, Secretary, IEEE Pune Section, proposed the vote of thanks.

### Roorkee

Mr Malvinder Singh, Chairman of the Centre, while welcoming the audience emphasized the benefits of Telecommunication & Information Technology and how it revolutionized the world with the objective to bridge the digital divide and promote connectivity, cyber security and faster global inter-operability of telecom systems. The Keynote Speaker, Mr Prashant Rao, Executive Director, Signal/Telecom, Delhi Metro Railway Corporation (DMRC) gave presentation on 'Train Signaling and Telecommunication Systems in Metro Railway'. He brought awareness regarding Automatic Fare Collection Systems, Driverless Communication based on Train Control (CBTC) for implementation in DMRC, etc. Mr Sanjay Bhasin, Co-founder, Sun Terrace Energy, Gurgaon, highlighted the history of cell phones and their systems thereby making information and telecommunication more accessible to people to meet economic aspirations. Prof (Dr) Achal K Mittal, Honorary Secretary of the Centre, proposed vote of thanks.



### Mangalore

The Speaker, Dr Shashidhar G Koolagudi, Faculty, Department of Computer Engineering, NITK, Surathkal, informed that data market is growing @ 40% per year and the market share of Big Data was 7.3 billion US\$ in 2011 and the share in 2017 is 50.1 billion US\$. He enumerated that the large amount of different types of data produced with high velocity from various types of sources and handling such highly variable and real time data sets requires new tools and methods, such as, powerful processors, software and algorithms. Earlier, Dr S B Malegole, Honorary Secretary of the Centre, introduced the speaker. The function was presided over by Prof G R Rai, Past Chairman of the Centre. Mr M Divakar Shetty, proposed the vote of thanks.



### Meerut

Mr V C Gupta, Chairman of the Centre, welcomed the gathering. The Chief Guest, Mr H S Sharma, Chief General Manager, BSNL, Uttar Pradesh (W) and the Guest-of-Honour, Mr Saurabh Tyagi, General Manager, BSNL, Meerut, in their speech spoke about developments in the field of communication during last two decades. The Keynote Speaker, Mr Aditya Singh, DGM (Mobile), BSNL, while speaking on theme said that with



## Rourkela

The Guest Speaker, Mr Sunil Roy, HOD, Communications, Rourkela Steel Plant, informed that the objective of Big Data is to explore the power of big data for development to end poverty, protect the planet and ensure prosperity for all. He was of the opinion that since information is power, it will identify the needs, provide services, predict and prevent crises for the benefit of low income population. Mr Roy further deliberated on understanding the dynamics of data ecosystem, sources of Big Data, users of Big Data viz. banking and financial services, education, various government agencies, agriculture, manufacturing, retail business, science and technology and healthcare. The presentation also explained about the future impact of Big Data on sustainable development goals. Earlier, Mr Harjit Singh Kanvel, Joint Honorary Secretary of the Centre, welcomed the participants and introduced the theme. He also proposed the vote of thanks.



## Saurashtra



Mr H A Kansagra, Chairman of the Centre, welcomed the dignitaries and the participants. Mr M B Kalariya, Principal [I/C], A V Parekh Technical Institute, Rajkot, graced the occasion as the Chief Guest and presided over the program. Mr Rashmikant Dave, Data Scientist from Hopkins University, USA, delivered lecture on the theme "Big Data for Big

Impact". Mr N K Ravajibhai, Honorary Secretary of the Centre, proposed the vote of thanks.

## Silchar

Mr Debaprasad Roy, Chairman of the Centre, welcomed the guests and dignitaries and presided over the programme. Mr D C Tikedar, Senior General Manager, BSNL, attended the function as Special Guest-of-Honour and delivered the keynote address. The Guest-of-Honour, Dr Sudipta Roy, Dean, School of Technology, Assam University, Silchar, deliberated on the theme 'Big Data for Big Impact'. Dignitaries, namely, Dr D Ghosh, Associate Professor, Department of Business Administration, Assam University, Silchar; Mr Wasim Arif, Assistant Professor, Department of Electronics & Telecommunications, NIT, Silchar and Mr A K Tripath, SDE, BSNL, Silchar, also addressed the gathering embracing the theme of the day. The function was ended with a vote of thanks proposed by Mr Bikramjit Das Gupta, Honorary Secretary of the Centre.

## Sunabeda

Mr Jitendra Mohan Sahu, Chairman of the Centre, delivered the welcome address and stressed on the theme topic. The Chief Guest, Mr N Jaisekhar, AGM (IT & MSD), HAL, Koraput, in his speech, spoke about applications of wireless & broadband connectivity, expanded role of Big Data in advanced application of R&D sector and infrastructural activities. The Chief Speaker, Mr Chittaranjan Parida, JTO, Sunabeda, while speaking on the theme, mentioned how the data gives impact on IT sector and day to day life. Earlier, Dr Adhikari, Scientist of Soil and Water Conservation Centre and Joint Convener of the programme, discussed how Big Data are helpful for agricultural sector.



## Udaipur

Mr M K Mathur, Chairman of the Centre, welcomed the gathering. The Chief Guest, Mr J C Menaria, Principal General Manager (BSNL), Telecom District, Udaipur, informed that government has taken up the challenges to link all panchayats through optical fibre cable network. The Guest Speaker, Mr Uttam Kotdiya, Assistant General



Manager (Application Software), Secure Meters Limited, Udaipur, spoke about data collection to refine the data and present the data in correct form. He also discussed in detail about the process of refining raw data. Mr Anurodh Prashant

Sharma, Honorary Secretary of the Centre, anchored the program and proposed the vote of thanks.

# Engineering Staff College of India



Autonomous Organ of The Institution of Engineers (India)  
Old Bombay Road, Gachi Bowli, Hyderabad 500 032



## CPDPs for the Month of August 2017

Name of the Course	Scheduled Dates
❖ Quality Management in Building Construction	28-31
❖ Air pollution Monitoring and Modeling using Software Applications – Theory and Practical's	01-03
❖ Linux Server Administration	08-12
❖ Software Testing & Quality Assurance	21-24
❖ Communication and Presentation Skills (Communicating Assertively)	01-03
❖ Vibrations, Balancing, Alignment and Condition Monitoring of Rotating Equipment(Theory and Practical Orientation with Technical Visit)	08-11
❖ Advanced Drilling & Blasting Applications for Mining & Construction companies and quarries	21-24
❖ Creative Leadership and Team building Skills for Organization Development (Innovative and Inspiring Leadership methodologies with case-studies and Role plays)	16-18
❖ Energy Audit & Loss Reduction in T&D Systems	01-03
❖ Selection, O&M and Condition Monitoring of Large Electrical Motors for Industries and Power Plant Applications	09-11
❖ Testing and Commissioning of Electrical Equipment in Power Utilities	28 Aug-01 Sept
❖ Quality & Reliability Management	09-11
❖ ISO 9001 : 2015 QMS – Transition Training (CQI-IRCA-UK Certified)	16-17
❖ ISO 14001 : 2015 EMS – Lead Auditor Training Postponed	28 Aug-01 Sept to 28 Aug - 1 Sep 17)
❖ Design Analysis of Concrete Gravity Dam including Software Applications	28-31

## CPDPs for the Month of September 2017

❖ Soil Investigations & Ground Improvement Techniques in Infrastructure Development	05-08
❖ Bridges & Culverts – Planning, Design and Construction	19-22
❖ Bio Medical Waste Management – Handling & Safe Disposal Options 2016	06-08
❖ Implementation of e-governance in Urban Local Bodies	14-15
❖ Design, Operation and Maintenance of Membrane based Water and Waste water treatment for Zero discharge compliance	18-20
❖ Network Administration: Configuring and Securing LANs and WANs	04-08
❖ Web Development Using PHP & MYSQL	18-22
❖ Personality Development (An Ordinary to Extra-ordinary Personality Empowerment)	05-07
❖ Welding Technologies and NDT Techniques (Theory and Practical Orientation with Technical Visit)	18-22
❖ Comprehensive Estimation, Tendering and Procurement Process	25-28
❖ Distribution Business Management Implementing Information Technology & Operation Technologies	05-07
❖ Best Practices in O&M of Industrial Valves & Actuators for Heavy Industries & Power Plants	06-08
❖ Power Transformers and EHT Circuit Breakers; & Zero Breakdown Concept	19-22
❖ Quality Initiatives in Technical and Higher Educational Institutions (in Compliance with NBA & NAAC Accreditation)	06-08
❖ Total Quality in Purchase Process (including ERP & e-Procurement)	13-15
❖ Information Security Management System ISO 27001 : 2013 – Lead Auditor Training	18-22
❖ Watershed and Drought Management	20-22
❖ Geo - informatics and I.T Applications for Urban Local Bodies (Planned from 05- 09 Jun)	11-15

For detailed information, please contact :

## ENGINEERING STAFF COLLEGE OF INDIA

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# 32<sup>nd</sup> INDIAN ENGINEERING CONGRESS

Chennai, December 21-23, 2017

Theme:

**Innovation in Engineering : Competitive Strategy Perspective**

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

Hosted by: **Tamilnadu State Centre**

Contact : Organising Secretary, 32nd Indian Engineering Congress, The Institution of Engineers (India), Tamilnadu State Centre  
19 Swami Sivananda Salai, Chepauk, Chennai 600005, Tel: (044) 25360614/64998729, Fax: (044) 25369433  
Email: [tncs@ieindia.org](mailto:tncs@ieindia.org)

## IEI AWARDS

The Steel Authority of India Ltd (SAIL) had instituted two Awards, namely, SAIL AWARD and DR M VISVESVARAYA AWARD to be given away every year during the Indian Engineering Congress to author/s of the articles adjudged best on selected topics. The topics for the year 2017 are given hereunder.

### SAIL AWARD

**'Growth of India's Steel Sector Amidst Global Overcapacity: Challenges for 300 MT Steel Vision'**

### DR M VISVESVARAYA AWARD

**'Sustainability of Steel in the Transition to a Low Carbon Economy'**

The Coal India Ltd (CIL) had instituted an Award to perpetuate the memory of Late J G Kumaramangalam, its first Chairman to be awarded every year during the Indian Engineering Congress to author/s of the articles adjudged best on a selected topic. The topic for the year 2017 is given below.

### COAL INDIA (J G KUMARAMANGALAM MEMORIAL) AWARD

**'Safety Culture Promotional Strategy for Large Coal Mining Company – Indian Perspective'**

Intending contributors are requested to submit their articles (visit [www.ieindia.org/jourtechdwnlds.aspx](http://www.ieindia.org/jourtechdwnlds.aspx) for guidelines) in quadruplicate to Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020 by **July 31, 2017**.



## The Institution of Engineers (India)

### Notification for IEI Industry Excellence Award 2017

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 in specified format (visit link <https://www.ieindia.org/indexexcel2017>) are invited from prospective applicants for IEI Industry Excellence Award 2017. The last date of receipt of application for the Award 2017 is **July 31, 2017**. Interested applicants are requested to send their applications (5 hard copies & 1 soft copy in CD) to the below mentioned address.

The Director [Technical]  
The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020

## Superannuation from IEI

Mr Saswata Basu, an employee of the Institution HQ will be superannuated from the services of IEI on July 31, 2017. He joined the Institution on March 24, 1980 and rendered his service to the Institution for a period of over 37 years.

IEI wishes Mr Saswata Basu and his family a happy and healthy life in future.



# IEI NEWS

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