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World Environment Day 2018

The Institution of Engineers (India) in association with Ministry of Environment, Forest and Climate Change, Govt. of India celebrated World Environment Day 2018 with the theme, 'Beat Plastic Pollution' on June 5, 2018. An Exhibition was held at Vigyan Bhavan, New Delhi during June 2-5, 2018 where IEI had participated the stall being inaugurated by Dr Harsh Vardhan, Hon'ble Union Minister for Environment, Forest & Climate Change. The World Environment Day was actively celebrated in all Centres of IEI and received wide participation.



Sustainable Design and Manufacturing Practices in Automotive Engineering

Punjab & Chandigarh State Centre of the Institution organized All India Workshop on 'Sustainable Design and Manufacturing Practices in Automotive Engineering' under the aegis of Mechanical Engineering Division Board, IEI during April 5-6, 2018 jointly with the Department of Mechanical Engineering, Baba Banda Singh Bahadur Engineering College (BBSBEC), Fatehgarh Sahib, Punjab. The main focus of the Workshop was to highlight the recent advances taking place in engine combustion technologies, engine design & optimization techniques and vehicle emissions control systems. The Workshop also



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From the President's Desk.....



The sun's contribution to human energy needs is substantial – worldwide, solar electricity generation is a growing, multibillion dollar industry. But solar's share of the total energy market is well below 1% of total energy consumption, compared with roughly 85% from

oil, natural gas and coal. We must accept that the fossil fuels, which cannot remain the dominant sources of energy forever. Moreover, their use exacerbates air and water pollution problems and build-up of carbon dioxide in the atmosphere.

For a long-term sustainable energy source, solar power offers an attractive alternative. Its availability far exceeds any conceivable future energy demands. Moreover, it is environmentally clean and energy transmission from the sun to the Earth does not involve any cost implication. But exploiting the sun's power is not without challenges. Overcoming the barriers to widespread solar power generation will require engineering innovations in several arenas — for capturing the sun's energy, converting it to useful forms and storing it for use when the sun itself is obscured. The cost associated with these processes has come in the way of accepting solar energy as a potentially viable alternative. In order to make solar energy economical one need to focus on these three areas namely, capture, conversion and storage.

In pursuance of its avowed objective of providing cleaner and cheaper energy for all, the Institution has been regularly organizing technical activities on focal themes involving promotion of roof-top solar power, grid integrated solar-wind energy systems, photo-voltaic cells across its Centres. The recommendations emanating from such activities are being sent to policy makers for follow up at appropriate level. In this context, I would like to inform to all Corporate Members that International Conference on "Recent Developments in Clean and State Nuclear Power Generation" will be organising by Telangana State Centre of the Institution at Hyderabad during November 16-17, 2018.

I would like to inform you that IEI grants Certificate of Competence to the Corporate Members for practicing as "Professional Engineers". In order to enhance the professional skills, I invite all Corporate Members to enrol as Professional Engineer (PE). To extend the service at international level, you may also like to apply for International Professional Engineering (IntPE) Certification.

I invite suggestions from all you towards further enhancing the services we provide to the engineering fraternity.

Recent Trends in Applied Sciences and Humanities: Its Social Connection and Impact on Environment

Durgapur Local Centre of the Institution organized All India Seminar on 'Recent Trends in Applied Sciences and Humanities: Its Social Connection and Impact on Environment' under the aegis of Environmental Engineering Division Board, IEI during April 10-11, 2018 at Durgapur in association with Durgapur Institute of Advanced Technology & Management (DIATM), Durgapur. The Chief Guest, Dr Anupam Basu, Director, NIT Durgapur, discussed various aspects of technological development & research of basic science and humanities. He mentioned that development means overall development and equal in all respect to the society. Explaining about the interrelation among science, applied science and technology, Dr Basu stated that science is the systematic way of acquiring knowledge through observation and experimentation whereas technology is the practical application of science. He further suggested to rethink about the environmental condition and should try to find out solution where applied science & technology can work together. The Guest-of-Honour, Dr P K Sinha, Principal, DIATM, Durgapur, in his address stated that experimental technology can be the learning of procedures, processes and so on or



it can be inserted in machines, PCs, gadgets and manufacturing plants, which can be worked by the people without detailed information. On this occasion, Dr R Goswami, Advisor, Rahul Foundation, explained that science should be utilized for all the people including disable persons. He stated that technology can be regarded as the primary source in socio-economic development and various technological developments contribute significantly in the developments of underdeveloped countries. Mr R K Roy, Chairman of the Centre, in his address, mentioned that applied science plays a vital role in an engineering college catering to the teaching of basic sciences and humanities courses for engineering students of all branches. Earlier, Prof H B Goswami, Past Chairman of the Centre and Council Member of IEI in his welcome address, mentioned that applied science is usually considered as a bridge or a connection among physics, chemistry, humanities and engineering. Mr M N Bandyopadhyay, Honorary Secretary of the Centre, proposed the vote of thanks. A large number of papers on various sub-themes of the Seminar were presented and discussed during technical sessions.

Power Engineering

Madurai Local Centre of the Institution in association with the Department of Electrical & Electronics Engineering, Anna University Regional Campus Madurai (AURCM) organized National Conference on 'Power Engineering' under the aegis of Electrical Engineering Division Board, IEI during March 27-28, 2018 at Madurai. Mr K Vijayakumar, Chairman of the Centre welcomed the august gathering and presided over the function. Dr (Ms) V Malathi, Head, Department of Electrical & Electronics Engineering, AURCM, briefed about the theme and sub-themes of the Conference. Mr P Rajamani, Vice President of IEI and Dr (Ms) C Swarnalatha, Dean, AURCM also addressed the gathering. Mr N Murugesan, Former Director, Central Power Research Institute (CPRI), Bangalore, graced the occasion as Chief Guest. Mr Murugesan in his inaugural speech highlighted the power scenario in India and fast development in the renewable energy sector and its effect on the sustainability of the grid and its stability. He suggested various means of energy storages and the requirement of the infrastructure. Mr Murugesan further described the development of distributed generation with integrated micro-grids, which are self-sustainable. He further mentioned that the Smart Grid using Smart Meter and IoT in domestic sector has to be developed as Pilot Plants in India. He urged to create awareness on usage of energy efficient equipment interconnected to IoT for effective load management. Mr Arun, Assistant Professor, AURCM, proposed the vote of thanks. A large

number of papers embracing the theme of the Conference were presented and discussed during various technical sessions which evoked keen interest amongst the participants.



Major Advances in Renewable Energy Sources and their Application

Jamshedpur Local Centre of the Institution organized All India Seminar on 'Major Advances in Renewable Energy Sources and their Application' under the aegis of Electrical Engineering Division Board, IEI during March 23-24, 2018 at Jamshedpur. Dr S P Singh, Vice Chancellor, Himalayan University Itanagar, Arunachal Pradesh, graced the occasion as Chief Guest. Dr Singh, in his inaugural address stressed on the importance of renewable energy and their application in present environment to reduce the global warming and carbon footprint. He further mentioned that in India, the generation of electricity through solar, wind, hydrogen and ocean sources are increasing and contributing towards national development. Prof Anil Kumar Choudhary,



Honorary Secretary of the Centre presided over the function. Delegates from various organizations and academic institutions viz. Tata Steel, Indian Steel and Wire Products Ltd., Jusco, Tata Power Company Ltd., NIT Jamshedpur, RVS College of Engineering Jamshedpur, Maryland Institute of Technology & Management, Jamshedpur attended and took active participation in the Seminar. Mr Dinesh Kumar Prasad, Organizing Secretary of the event proposed vote of thanks. Papers on various sub-themes of the Seminar were presented and discussed during technical sessions. Earlier, Mr Niteen Kumar and Mr Nikhil Kumar from M/s L N India presented paper on 'Solar Energy – Clean Energy' and highlighted the advantages of vertical axis wind turbines (VAWT) designed by them. Mr Santanu Sarkar, Tata Steel Ltd., Jamshedpur and others presented papers on 'Transformation of the Gases from Steel Plant: A Step toward Green Energy'. Dr Gundu Sabde, Managing Director, Relyon Engery, Bangaluru, presented paper on 'Fractional Order based Model Order Reduction for a Wind Turbine Generator System'. Mr Sriram Sridharan, Tata Steel Ltd., Jamshedpur, spoke on 'Waste to Energy by Utilizing Shape Memory Alloy'. Mr Arindam Chowdhury and others from Maryland Institute of Technology & Management (MITM), Jamshedpur, presented paper on 'PMU and its Application to Renewable Energy Sources'. Mr M L S Sai Kumar and others from NIT Jamshedpur highlighted on 'Detection of Islanding of a Micro-grid by Under-Voltage Relay'. Dr Rekha, Principal, MITM, Jamshedpur, presented paper on 'Power System Stabilization using an Optimal Hybrid Control Strategy with PID Controller'.

IEI is now an approved SWAYAM-NPTEL Local Chapter



To inculcate the culture of continuous technology advancements, National Program on Technology Enhanced Learning (NPTEL) has launched more than 270 online courses in various disciplines of Engineering & Sciences under Study Webs of Active – Learning for Young Aspiring Minds (SWAYAM) program of Ministry of Human Resource Development (MHRD), Govt. of India. All Members of IEI are encouraged to sign up through www.ieindia.org for joining these courses free of cost.

Fly with Jet Airways at Concessional Rate – New Path Findings by IEI



For maintaining the continuous effort to provide value added services to all IEI's Corporate Members, The Institution of Engineers (India) has started giving facility for travelling by Jet Airways at concessional rate.

While travelling, the following conditions are to be maintained:-

- ❖ This offer is available only on jetairways.com and mobile app
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If any Corporate Member is interested to take this benefit, they may login through www.ieindia.org

Need of Watershed Development in India

Kota Local Centre of the Institution organized All India Seminar on 'Need of Watershed Development in India' under the aegis of Agricultural Engineering Division Board, IEI during April 13-14, 2018 at Kota in association with Mukhyamanti Jal Swavlamban Yojna (MJSY), Govt. of Rajasthan. The Chief Guest, Mr V K Bagda, Former Additional Director (Agriculture), Govt. of Rajasthan, in his address, emphasized on drinking water problem and water for cattles. He further insisted on repairs and maintenance of water harvesting structures by the concerned department. The Guest-of-Honour, Mr Kailash Bhargava, Past Chairman of the Centre emphasized for protection of forest for increasing oxygen. He further urged for development of regional horticulture. Mr Bhargava also reiterated that the three compulsory elements for living being viz. Pranvayu, Jal and Bhojan (Oxygen, Water and Food) should be taken care. The Keynote Speaker, Mr K P Tripathi, Former Chairman of the Centre expressed that bio-physical aspect of watershed management was first started in Damodar-Barakar basin under Damoder Valley Corporation during 50's. He further added that watershed concept has been used extensively because of importance of water balances in eco system and it has emerged as new paradigm for planning, development and management of land, water & bio-mass resources with the focus on social and institutional aspects. On this occasion, the Keynote Speaker, Mr Sita Ram Banjara, Additional Director, Watershed Development & Soil



Conservation Govt. of Rajasthan highlighted on meager and restricted surface water resources at extremely grim ground condition. Earlier, Mr C K S Parmar, Chairman of the Centre welcomed the guests and dignitaries. Mr C M Pandey, Additional Commissioner, Ministry of Agriculture, New Delhi presided over the function. Mr Anand Bardava, Convener of the event explained that watershed development programme is one of the most popular development programme implemented across the country. Mr Jasamat Singh, Honorary Secretary of the Centre proposed vote of thanks at the end of the function.

Sustainable Design and Manufacturing Practices in Automotive Engineering

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addressed the issues of sustainable design and manufacturing practices based on the entire life cycle (from 'cradle to grave') of the vehicles. Mr Daljit Singh Dogra, Senior Manager, R&D, Mahindra & Mahindra, Mohali, shared his valuable knowledge and experiences with the participants, equipping them with the prevalent trends and future of tractor engines. He also delivered an expert talk on the emerging topic of Common Rail Direct Injection (CRDI) Technology for tractors in India. Dr Lakhvir Singh, Head, Department of Mechanical Engineering, BBSBEC & Convener of the Workshop, shared his views on the importance and necessity of such types of activities for the academic growth. Dr T S Kamal, Council Member

of IEI and Mr S S Mundi, Honorary Secretary of the Centre, graced the occasion and delivered lectures. Dr Birdevinder Singh, Assistant Professor, Department of Mechanical Engineering, BBSBEC, spoke about real way of comparing different internal combustion engines and life cycle analysis of automobile components. Dr N P Singh, Associate Professor, Department of Mechanical Engineering, BBSBEC, delivered lecture on 'Fuel Efficient Vehicle Technology', which kindled the budding engineers about the benefits of efficiency in designing the engines. Maj Gen (Dr) G S Lamba, Principal, BBSBEC, graced the valedictory ceremony as the Chief Guest and addressed the gathering.

CORRIGENDUM

This is with reference to IEI News, Vol.68, Number 3, June 2018 (ISSN: 0971-3352) published in IEI website and printed copies have been circulated amongst various enlisted places.

It is to be informed to all the Corporate Members of IEI that there has been an inadvertent mistake in Page 10 under the heading of Durgapur where "IEI Celebrates World Telecommunication and Information Society Day 2018" has been reported.

Hence the following correction may please be noted by all Corporate Members.

Correction

"The Chief Guest, Prof Anupam Basu, Director, National Institute of Technology, Durgapur stated that"

51st ENGINEERS' DAY

Theme:
**"Digital Transformation:
A New Industrial Revolution"**



Bharat Ratna Sir M. Visvesvaraya 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 51st Engineers' Day will be celebrated all over the country and the Council of the Institution has selected the theme as "Digital Transformation: A New Industrial Revolution" to mark the occasion.

Industries around the world are now facing substantial challenges due to recent environmental, societal, economic and technological developments regarding disruptive concepts of Internet of Things, Cyber Physical Systems or Cloud based Manufacturing, which lead to the fourth stage of industrial revolution. Increased digitization which waves out traditional and conventional production concepts including mass production, batch production, continuous process flow and project is the need of the hour. The first industrial revolution utilised water and steam power for mechanizing production. During second industrial revolution, application of power was more with the objective to obtain mass production. During third industrial revolution, industrial automation was introduced, which involved vast application of Electronics and Information Technology. The fourth industrial revolution, termed as Industry 4.0 is empowered by wide range of digital technology not only in digital realm, which involves artificial intelligence, machine learning, advanced robotics and new formation of automation, but also in physical realm including new materials like graphene, genetic advances as well as biological realm which involves sensors, Internet of Things, Block Chain and Distributed Ledgers, 3D Printing, autonomous vehicles like drones, so on and so forth.

Thus Industry 4.0 is focussed on creating intelligent products, processes and procedures that leads to ubiquitous connectivity of people, things and machines. The vision of Industry 4.0 is likely to be adopted worldwide and it might influence other initiatives and cooperative efforts. In general, there are nine key technological components that progressively make up the foundation of Industry 4.0: Autonomous robots, big data, augmented reality (AR), additive manufacturing, cloud computing, cyber security, IoT, system integration, and simulation.

On a digital platform, Industry 4.0 is applied with three mutually interconnected factors, namely

- ❖ Digitization and integration of any simple to complex technical - commercial relation,
- ❖ Digitization of products and service offers and
- ❖ New market models

All these human activities are interconnected through State-of-the-Art communication system, which include Internet of Things, Internet of Services and Internet of People.

There are three principal approaches in Industrial 4.0 concept, namely horizontal integration, vertical integration and integrated digital engineering. Horizontal integration refers to integration of different information systems, applied principally for production planning and process control. Vertical integration refers to integration of information at different hierarchical levels, which allows preventive actions to avoid any defect. Integrated digital engineering enables the collection and exchange of production data throughout the entire chain involved in product development and leads to reduction of large amount of production data accumulated throughout the life cycle.

According to India Brand Equity Foundation (IBEF), Government of India has set an ambitious target of increasing the contribution of manufacturing output to 25% of Gross Domestic Product (GDP) by 2025, from 16% currently. IoT, being one of the most important aspects of Industry 4.0 for India, is expected to capture close to 20% share in global IoT market in the next five years. According to IBEF forecast, the IoT market in India is projected to grow at a CAGR of more than 28% during 2015-2020. Government of India has taken initiatives such as Green Corridors and 'Make in India'.

The Institution of Engineers (India) being the apex body of engineers in India is committed for holistic development of the country and believes that Digital Transformation will usher in a new Industrial Revolution.



IEI Celebrates World Environment Day 2018



Theme : Beat Plastic Pollution

World Environment Day was celebrated by the Centres of the Institution all over the country on June 5, 2018. Brief accounts of the celebration as received from various Centres are reported hereunder

STATE CENTRES

Gujarat

The Keynote Speaker, Dr Ajay Kumar Nema, Manager (Testing), Central Institute of Plastics Engineering & Technology (CIPET), Ahmedabad gave presentation on 'Plastic Recycling – a Sustainable Solution'. He further highlighted that recycling of plastic may be advisable in coming years. Earlier, Mr B S Patel, Council Member of IEI welcomed the Keynote Speaker. Prof P B Jhala, National Institute of Design (NID), Ahmedabad and Committee Members of the Centre presented insight on NID's green initiation to replace the plastic bags for Amul's products take away.



Matters), NGO of ECO Group explained on various issues of plastic pollution and hazards being caused by plastic wastes on the environment through soil, water and air pollution. He further discussed how amalgamation of simplistic down to earth approaches to connect to environment combined with in depth scientific knowledge that can help us to find out the solutions to the complex problems of our environment.



Telangana

The Chief Guest, Mr V Prakash, Chairman of Telangana Water Resources Development Corporation, Govt. of Telangana, in his address, stated that it is the prime responsibility to protect the earth, which can be focused locally, nationally and globally. He further added that the growing greed of man is destroying the nature and there is a need to conserve the gifts of nature for future generations. The Keynote Speaker, Mr S D Mukherji, IFS (Retd.), Advisor, Environment Protection & Training Institute, Hyderabad



appreciated the Govt. of Telangana for launching of 'Mission Kakatiya' and 'Mission Bhagiratha' for the benefit of farmers to cultivate the agriculture and drinking water. Ms Karuna Gopal, President, Foundation for Futuristic Cities said that even though the country technologically

developed the use of plastic is not reduced. Ms K Leela Laxma Reddy, President, Council for Green Revolution, appealed for the change of attitude for the use of plastic, which should come from various sources. Earlier, Dr G Rameshwar Rao, Honorary Secretary of the Centre welcomed the gathering. Dr S Satyanarayana, Chairman of the Centre presided over the function. Mr A Prabhakar, Committee Member of the Centre proposed the vote of thanks.

Tripura

The Chief Guest, Mr M K Jamatia, Hon'ble Minister of Forest & Tribal Welfare, Tripura, in his address, expressed deep concern of illegal sand lifting from river base without valid license and permission for last several years without any monitoring. He added that first time in the State, the plantation at Govt. level has been organized in remote areas of Tulasikhar Block wherein the villagers were highly motivated to make themselves involve in the Plantation programme. The Special Guest, Mr Pranay Saha, Joint Director, Department of Science, Technology & Environment, Govt. of Tripura explained the highly damaging effect of plastic in environment degradation. Dr Shaon Ray Chaudhuri, Associate Professor & Head, Department of Microbiology, Tripura University stated about the conversion of toxic dairy affluent into organic fertilizer, which has



Haryana

Mr K C Sethi, Former Vice President & Council Member of IEI was Chief Guest of the function and Dr Sorabh Gupta, Director, R P Inderprastha Institute of Technology (RPIIT), Haryana graced the occasion as Guest-of-Honour. Mr Sethi, in his speech, expressed his views on environment protection seriousness for coming generations. Dr Gupta appreciated IEI for working in the interest of common people. The Keynote address on the theme was delivered by Prof Manish Devgan, RPIIT. Earlier, Mr Ajay Mahajan, Chairman of the Centre



welcomed the guests and dignitaries. Mr Kapil Monga, Convener of the event proposed the vote of thanks.

Karnataka

The Chief Guest, Dr K S Jayantha, Principal, Malnad College of Engineering, in his address, explained that the global pollution with respect to receiving bodies is increasing day by day with the greedy nature of human beings. He further added to curb the use of plastic and protect the environment. Earlier, Mr Jasmail Singh, Honorary Secretary of the Centre welcomed the guests and the invitees. Dr N Chikkanna, Chairman of the Centre presided over the function. On this occasion, Dr K C Ravishankar, Principal, Government Engineering College was also present. Mr S D Thimmegowda, Vice Chairman, Karnataka Engineers' Association proposed the vote of thanks.



Punjab & Chandigarh

Mr P S Bhogal, Past Chairman & Council Member of the Centre deliberated on the issue of plastic pollution. Mr Sandeep Garg, Chairman (Environment

been successfully implemented in Gomati Dairy in Agartala. Dr Sumanta Chakraborti, Registrar, Maharaja Bir Bikram University, Agartala also graced the occasion. Earlier, Mr Tapas Bhattacharya, Honorary Secretary of the Centre delivered the welcome address and Mr Tapan Lodh, Chairman of the Centre presided over the function.

Uttar Pradesh

Maj Gen K K Ohri (AVSM), Pro-Vice Chancellor, AMITY University, graced the occasion as Chief Guest. The Keynote Speaker, Prof I D Mall, former Professor & Head, Department of Chemical Engineering, IIT Roorkee highlighted that plastic consumption in India will be gradually increased day by day. He further reiterated that considering all these challenges, the demand for recycling solution has increased considerably. Earlier, Mr V B Singh, Council Member of IEI welcomed the guests and presided over the function. The programme was conducted by Prof S K Gupta, Head, Department of Chemical Engineering, Harcourt Butler Technical University, Kanpur & Convener of the event and Dr Paritosh Srivastava, Co-Convener of the event. Mr R K Trivedi, Honorary Secretary of the Centre proposed the vote of thanks.



West Bengal

The Chief Guest, Mr R C Saxena, Scientist 'E' & Regional Director, Central Pollution Control Board, Kolkata (East Zone), in his address, narrated widely how to combat plastic pollution very relevant to the theme of the day. He further explained very methodically by informing the definition of plastic, classification of plastic and type of recycled plastics with its labeling rules. The Guest-of-Honour, Mr Alok Tibrewal, President, Indian Plastics Federation, in his Keynote address, urged to refrain use of plastic where it is not necessary, like water bottles, plastic bags etc. He urged that plastic should not be taken as monster but as an asset for future generation having positive impact on economy as well as environment. Earlier, Mr K L Mullick, Chairman of the Centre chaired the observance function and delivered the welcome address. Mr Jayanta Kumar Dutta, Joint Honorary Secretary of the Centre, introduced the speakers to the audience. Mr Ranjan Dutta, Honorary Secretary of the Centre proposed the vote of thanks.



LOCAL CENTRES

Agra

Dr B D K Patro, Chairman of the Centre in his address urged the gathering not to use plastic in the society to save environment. Mr D S Chaudhary, Immediate Past Chairman of the Centre shared his views on the theme of the day. Mr Avdesh Upadhyay, Chairman, Jaladhikar Foundation, Agra advised that water plastic bottle should be avoided since plastic particle is dissolved in the water which is very harmful. Dr Anurag Sharma, Organizing Secretary of the event, explained that chemicals like Zn and Cd are entered our bodies that may cause diseases like cancer. Mr Anil Goyal, Chairman, Refrigeration Society, Agra mentioned that plastic is very harmful to environment due to non Biodegradable. Mr Diwakar Tiwari proposed the vote of thanks.



Aligarh

The Chief Guest Mr Ram Gopal, Regional Officer, Uttar Pradesh State Pollution Control Board, Aligarh highlighted about the efforts made by Govt.

of India regarding conserving the natural water bodies and avoid disposal of large quantity of plastic waste into sea, oceans etc. The Guest-of-Honour, Mr M M Agarwal, Head-Planning & Environment, HEINZ India Pvt. Ltd., Aligarh deliberated on the excessive use of plastics and disposable, its uncontrolled disposal onto the land and water bodies that poses a major threat to the environment. The Guest Speaker, Prof Anwar Khursheed, Department of Civil Engineering, Aligarh Muslim University, Aligarh in his presentation explained about the importance of nature, oceans, forests in absorbing greenhouse gases like CO₂ and CH₄. The theme of the day was introduced by the Convener, Prof Nadeem Khalil. Earlier, Dr Gyan Prakash Goyal, Chairman of the Centre in his welcome address urged the society to play a vital role to make a clean environment. Dr Salma Shaheen, Honorary Secretary of the Centre proposed the vote of thanks.



Anpara

The Chief Guest, Mr Rabin Sarkar, General Manager, LANCO, Anpara, in his address narrated that it is an occasion of immense pride that this year India has been given the veneration to host World Environment Day and the menace of plastic pollution across the globe is a matter of grievous concern. Mr Deepak Kumar, graced the occasion as the Guest-of-Honour and delivered the welcome address. Mr Sarad Tiwari, in his keynote address, highlighted on the theme. Mr Prashant Kumar, presented a detailed account of various issues concerned with the topic emphasizing 5R rule i.e. Refuse, Reduce, Reuse, Remove & Recycle to combat it. Mr M K Singh, Honorary Secretary of the Centre proposed the vote of thanks.



Asansol

The Chief Guest, Mr S Ghosh, General Manager (Safety & Environment), Steel Authority of India Ltd. (SAIL), Burnpur briefed on different rules of State & Central Pollution Control Board by referring various norms as installed earlier. He also explained how SAIL is handling disposal of different industrial wastes by adapting to safe practices. He raised his concern for indiscriminate use of single-use plastic carry bags for packaging of different articles in our society mainly due to lack of awareness. Earlier, Mr K V R Raju, Chairman of the Centre in his welcome address elaborated on the significance of the day with special emphasis on protecting the global environment from its continual degradation on key parameters. Mr T T Lahiri, Honorary Secretary of the Centre introduced the theme and proposed vote of thanks at the end of the programme.



Bhimavaram

Prof M Sitarama Reddy, Chemistry Department, SRKR Engineering College, Bhimavaram graced the occasion as Chief Guest. Dr Reddy addressed the gathering about the importance of World Environment Day. Dr K Brahma Raju, Council Member of IEI, while congratulating the Centre for observing the day, expressed his satisfaction for conducting several programmes for the development of technical education. The function concluded with the vote of thanks proposed by Mr V K Viswanadha Raju, Honorary Secretary of the Centre.



Gorakhpur

Mr D K Singh, Acting Vice Chancellor, Madan Mohan Malaviya University of Technology (MMMUT) and Dr Govind Pandey, Head, Department of Civil Engineering, MMMUT graced the occasion as Special Guest and the Chief Guest respectively. Earlier, Mr V K Srivastava, Honorary Secretary of the Centre welcomed the distinguished guests and dignitaries and briefed about the theme of the event. Mr M W Beg, Chairman of IEI the Centre, in his address, urged the audience not to throw any plastic polythene bags, instead these should be collected in bigger size bags and to be sent to recycle plant. Other speakers namely, Mr Bhuvaneshwar Pandey, Environmentalist, Mr Satish Singh, former Honorary Secretary of the Centre, Mr Ved Prakash Gupta, Executive Member of the Centre highlighted about the effect of plastic pollution on earth. Dr Diwakar Yadav, Department of Civil Engineering, MMMUT Gorakhpur conducted the programme. Mr V K Srivastava, Honorary Secretary of the Centre proposed the vote of thanks.



Jabalpur

The Chief Guest, Ms B K Vimla Didi, Prajapita Brahmakumari Ishvariya Vishvavidyalaya (PBIV), Jabalpur, in her address, explained that environment is the necessity of the human being as it gives oxygen to maintain clean and green atmosphere. She further urged that to control the pollution, involvement of common people is necessary in the antipollution drive. The Guest-of-Honour, Mr Komal Chand Jain, Former Chief Engineer, Govt. of Botswana and Govt. of Zimbabwe presented keynote address on the theme. Mr V K Sahu, Chairman of the Centre presided over the function. Ms B K Vineeta Didi, PBIV also graced the occasion as the Guest-of-Honour. Earlier, Mr Tarun Kumar Anand, Honorary Secretary of the Centre welcomed the august gathering and proposed the vote of thanks at the end of the function.



Jammu

Mr V N Sharma, Member, Regional Empowered Committee, Northern Region, Ministry of Environment, Forest & Climate Change, Govt. of India graced the occasion as Chief Guest. In his address, Mr Sharma explained that it is a common responsibility of all to reduce the use of plastic for saving the environment from its harmful effects. Earlier, Mr Ravi Chanyal, Chairman of the Centre introduced the theme of the day. Mr Vijay Sharma, Honorary Secretary of the Centre welcomed the gathering and proposed the vote of thanks at the end of the programme.



Kochi

Prof Sunil N Kutty, Cochin University of Science and Technology (CUSAT), in his presentation, explained that it is not possible to avoid plastic completely in modern times because plastic has many applications in Engineering, Medical, Space and Communication fields but it should be used judiciously.



Some replacements can be done by using paper but usage of paper leads to cutting of trees for pulp consequently causing environmental issues. Earlier, Mr N Paul George, Chairman of the Centre welcomed the guests and dignitaries. Mr T P

Raveendran, Honorary Secretary of the Centre, proposed the vote of thanks at the end of the function.

Kozhikode

Dr Sujith A, Associate Professor, NIT Calicut, in his theme lecture, elaborated on the harmful effects of plastics, especially micro-plastics. He further described a few research works currently being carried out on the development of bio-degradable type of plastics in combination with natural fibers. Prof K K Vijayan, President, Society for Protection of Environment Kerala (SPEK) welcomed the august gathering and presented an introduction to the theme of the day. Prof K P Mohandas, Chairman of the Centre, presided over the function. The function concluded with the vote of thanks proposed by Mr Jithesh C, Honorary Secretary of the Centre.



Madurai

The Chief Guest, Mr V Vijayaraghavan, General Secretary, Madurai District, Recycling Plastic Traders & Manufactures Welfare Association in his speech elaborated that the low density plastics should not be used since

it could not be recycled. He further explained that plastic bags are made from non-reusable resources and these become the cause of climate changes. Earlier, Mr K Vijayakumar, Chairman of the Centre welcomed the august gathering and presided over the function. Mr J Samuel,

Honorary Secretary of the Centre also graced the occasion. On this occasion, Mr S Sivasubramanian, Senior Scientist, Indian Space Research Organisation, Trivandrum was also present. Mr R Narayanasamy, Joint Honorary Secretary of the Centre proposed vote of thanks.



Meerut

The Chief Guest, Dr S N Chauhan, Director, S D College of Engineering & Technology (SDCET), in his Keynote Address, deliberated that environment cannot be protected by searching alternatives, but by firm commitment to the cause. He further explained that plastic is a non-disposable material, which does not decompose in water, soil or air even for 500 years. Dr Naveen Diwedi, Head, Department of Biotechnology, SDCET highlighted some facts and figures about plastic pollution. Earlier, the Chairman of the Centre, Mr S C Govil welcomed the guests and dignitaries. Mr Rajneesh Kumar, Honorary Secretary of the Centre conducted the programme and proposed vote of thanks.



Munirabad

Mr T H M Somashekhar, Past Chairman of the Centre welcomed the guests and dignitaries. Ms Manjula, Technical Assistant (AEE), Office of the Chief Engineer, Munirabad graced the occasion as the Guest Speaker. Ms Manjula, in her address, highlighted about the origins and existence of World Environment Day. She also briefed some mechanisms for protection of nature and environment. Mr B G Eshwarappa, Past Chairman of the Centre proposed the vote of thanks.



Muzaffarpur

Prof Ramadya Thakur, Former Professor, Department of Electrical Engineering, Muzaffarpur (MIT) Institute of Technology, Muzaffarpur graced the occasion as Chief Guest. Prof Rhakur, in his address, stressed on the alternative use of plastic material like, bags made from cloth and jute. Earlier, Mr S K Mishra, Chairman of the Centre welcomed the gathering. Dr S K Jha,

Head, Mathematics Department, MIT presided over the function and requested all participants to initiate the steps to remove plastic from the campus. Dr Rajeev Ranjan Kumar, Honorary Secretary of the Centre proposed the vote of thanks. The papers on the theme were presented and discussed during the function.



Roorkee

Mr Malvinder Singh, Chairman of the Centre focused attention on nature environment challenges facing the world and support to address them to protect the earth from heavy burden of plastic pollution on natural places, wild & marine life and our human health. Dr N Gopal Krishnan, Director CSIR-Central Building Research Institute (CBRI), Roorkee while welcoming the gathering stated that it is an ideal occasion to make Earth's Biological diversity map to understand the value of nature. Dr Sharad Jain, Director,



National Institute of Hydrology, Roorkee highlighted that the occasion has developed a global platform for raising awareness and taking positive actions on the issues

from plastic pollution to sustainable consumption. Dr P G Rao, Honorary Vice Chancellor, University of Sciences & Technology, Meghalaya and Former Director, CSIR- North East Institute of Science & Technology, Jorhat, and Dr A K Minocha, Chief Scientist, Environmental Sciences & Technology, CSIR-CBRI were also present during the function. Dr Achal Mittal, Honorary Secretary of the Centre proposed the vote of thanks.

Saurashtra

Mr V C Sati, Executive Director, Indian Oil Corporation Ltd. (IOCL), Western Region Pipelines, Rajkot graced the occasion as Chief Guest and presided over the function. The Theme Speaker, Dr Mayank Pahdya, Deputy Director, School of Science, R K University, Rajkot in his speech, highlighted about the detailed percentage of various countries using plastic and reduction of its pollution by Refuse, Reuse, Reduce and Re-cycle. Earlier, Mr Navin R Kalaria, Honorary Secretary of the Centre welcomed the guests and dignitaries. Mr. Lamba of IOCL proposed vote thanks at the end of the programme.



South Gujarat



Dr P H Tandel, Chairman of the Centre in his speech narrated that deforestation is a serious problem to the environment. Mr Nitin K Oza, Past Chairman of the Centre explained the importance of goal of Prime Minister i.e. 'Grow Tree and Go Green'. Mr

Mukund Master, Honorary Secretary of the Centre also attended the function.

Trichur

Mr A Santhosh, Accredited Energy Auditor, Athul Energy Systems Pvt. Ltd., Thrissur graced the occasion and presented a paper on the theme. Mr V Damodaran, Chairman of the Centre presided over the function. Mr C G Sivasdas, Mr V Narayanan, Dr C E Krishnan, Prof V K Lakshmanan Nair, Mr V V Sudhakaran, Mr Unnikrishnan Kizhakkapurakkal were also present



during the occasion and delivered the lectures on the theme. Mr Sugathan U K, Honorary Secretary

of the Centre proposed the vote of thanks.

Tuticorin

Mr S T Mathew, Past Chairman of the Centre presided over the function. Mr I M Michael Raj, Former Scientific Officer, Department of Atomic Energy, Heavy Water Board graced the occasion as Chief Guest and delivered the Keynote address on the theme. He highlighted about the several initiatives to minimize usage and disposal of plastic waste for saving the environment. Mr K Balasubramanian, Immediate Past Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.



Udaipur

The Chief Guest, Dr B R Panwar, Senior Environmental Engineer, Rajasthan Pollution Control Board, Udaipur in his speech, expressed that existence of human life occurs when trees absorb CO2 and plenty of oxygen spread over the globe. He added that after thousands of years, coal, oil and gas were extracted from the earth by human being and through chemical reaction,



various products including plastic thereby produced that has been increasing pollution rapidly. The Keynote Speaker, Mr Hitanshu Kaushal, CEO, Progressive Miner Pvt. Ltd., Chittorgarh explained that it is necessary to control the use of

plastic and reduce pollution. Dr S S Rathore, Chairman, Mining Engineers Association of India (MEA), Rajasthan Chapter, Udaipur stated that maximum natural items should be used to control the pollution. Earlier, Mr Anurodh Prashant, Chairman of the Centre delivered the welcome address. Mr Y K Bolia, Honorary Secretary of the Centre conducted the function. Mr R D Saxena, Secretary, MEA, Udaipur proposed the vote of thanks.

Upper Assam

The Chief Guest, Mr H K Changmai, Head, AGBPP- North Eastern Electric Power Corporation Ltd. (NEEPCO) highlighted the mechanism of reducing the use of plastics and also recycling process of plastics. Mr Diganta Kumar Dutta, Past Chairman of the Centre in his welcome address, highlighted about the invention of plastics by humankind since 1284 AD. The Guest-of-Honour, Mr Dibakar Bhattacharjee, Past Chairman of the Centre highlighted about various plastic pollution phenomena through daily usage of plastics. Earlier, Mr R C Das, Honorary Secretary of the Centre highlighted the theme of the day. Mr Diganta Goswami, Senior Manager (E/M), AGBP-NEEPCO proposed the vote of thanks.

Varanasi

Prof P K Mishra, Head, Department of Chemical Engineering, IIT-BHU, Varanasi graced the occasion as Chief Speaker and stressed upon the need to relate the human life with environment and change the life style.

On this occasion, Mr Ramesh Singh, Former Chief Engineer (Level-I) and Visiting Fellow at IIT-BHU narrated the history of plastic and said that it is very difficult to completely ban plastic in the present day. He further explained that plastic causes choking problems in sewers, water treatment plants and also affects



Marine life. Prof D P Singh, former Chairman of the Centre in his address stated that recharging the ground water is the demand of the day. Earlier, Prof Ramji Agrawal, Former Chairman of the Centre and Convener of the program welcomed the speakers highlighted about the ill effects of plastics on human and wild life. Mr V P Mishra, Chief Engineer, Uttar Pradesh Jal Nigam stressed upon the need of using earthen pots for taking tea and water instead of plastic cups and glasses. Prof P Bhardwaj, Honorary Secretary of the Centre proposed the vote of thanks.

To be contd....

IEI Celebrates

World Telecommunication and Information Society Day 2018



Theme : Enabling the positive use of Artificial Intelligence for All

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on May 17, 2018. Brief reports as received from various Centres are given hereunder.

STATE CENTRES

Chhattisgarh



Dr A M Rawani, Director, National Institute of Technology Raipur graced the occasion as Chief Guest and elaborated the future development on the area of electronics & telecommunication. He further stressed upon the use of advanced science & technologies to

make a good society for human being. The Keynote Speaker, Prof Sanjay Tiwari, School of Studies in Electronics & Photonics, Pt. Ravi Shankar Shukla University, Raipur explained at length the awareness on futuristic views of Artificial Intelligence (AI) that leads to the development of smart homes, smart cities and digitally driven societies. Earlier, Mr J P Sahoo, Chairman of the Centre delivered the welcome address and presented a brief background of overall programme. At the end of the event, Dr V K Pandey, Honorary Secretary of the Centre proposed vote of thanks.

Delhi

The Chief Guest, Mr S N Zindal, Former Director General, Software Technology Parks of India & Director, NCIT, DEITY, explained the usefulness of Artificial Intelligence (AI) in present context telecommunication. He further narrated that India is embracing future technologies such as, machine learning that helps to augment the capacity in healthcare, improve outcomes in education, develop innovative governance systems, improve overall economic productivity of the nation etc. Mr Devendra Gill, Chairman of the Centre, in his welcome address, apprised that in recent years, there has been significant progress in AI technology, tremendous advances in contributing fields such as Big Data, machine learning, computing power, storage capacity and cloud computing. Mr R N Rajpoot, Chairman, Institution of Engineering & Technology (IET), UK, Delhi Local Network, informed in depth about the activities and mission of IET in inspiring the global engineering community to meet the needs of the society. Mr Ashish Shrivastava, Honorary Secretary of IET proposed the vote of thanks.

Jharkhand

The Chief Guest, Mr Ravindra Babu, General Manager & Chief Technologist (Mills), R&D Centre for Iron and Steel, Steel Authority of India Ltd. (SAIL) in his speech shared his experiences on advancement of technology powered with Artificial Intelligence (AI). The Guest-of-Honour, Mr Vivek Kapila, Deputy General Manager (Electrical), MECON Ltd. narrated about various applications of AI in electrical and power distribution works being adopted in Steel Industries. The Keynote Speaker, Mr M Gangadaran, Deputy General Manager (AAPC), R&D



Centre for Iron and Steel, SAIL, while speaking on the theme, highlighted how different industries are utilizing the AI for their applications such as, retail stores, automobiles, banking sectors, online customer services etc. Earlier, Mr Shivanand Roy, Immediate Past Chairman of the Centre, in his welcome address stressed on the need of AI and the technological advancements for the betterment of mankind and the society. Mr M R Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.

LOCAL CENTRES

Agra

The function was presided by Mr D S Chaudhary, Former Chief Engineer, Agra Development Authority. Mr Suryakant, PGM, BSNL, Mathura graced the occasion as Chief Guest. He emphasized on the effect of electromagnetic radiation on human kind and society besides revolutionary developments in the area of communication. Mr Pritam Singh, Committee Member of Electronics & Telecommunication Engineering Division of the Centre focused on the use of AI in various fields and their effects in communication systems. Mr R K Yadav, Organizing Secretary of the event proposed the vote of thanks.



Ananthapuram

Dr P Rajesh, Jawaharlal Nehru Technological University Anantapur (JNTUA) College of Engineering, explained the utilization of Information & Communication Technologies (ICT) in many areas like, economies, finance etc. for bridging the digital divide. He also described about enabling the positive use of AI and its challenges in the developing countries like India. Earlier, Prof C Sashidhar, Chairman of the Centre, in his welcome address, highlighted about the importance of technology and communication in the present world. Prof M L S Deva Kumar, Honorary Secretary of the Centre proposed vote of thanks at the end of the programme



Bokaro Steel City

Mr S K Jha, Deputy General Manager (Telecommunication and Electronics), BSNL, Bokaro Steel City graced the function as Chief Guest. In his address, Mr Jha explained the need of Artificial Intelligence (AI) in every walk of life, which will go a long way. Earlier, Mr A C Goyal, Chairman of the Centre delivered the welcomed address and narrated about the importance of observing the



day and usefulness of AI in future. Mr Y N Singh, Honorary Secretary of the Centre proposed vote of thanks to conclude the programme.

Ghaziabad

The Chief Guest, Mr M K Seth, Sanchar Ratan CGM of Advanced Level Telecom Training Centre (ALTTC) in his address highlighted the use of AI in planning the network for making faster communication. The Guest-of-Honour, Mr Subhash Chandra, PGM of ALTTC deliberated on the preparedness of adoption of 5G Technology. He intimated that BSNL is the first telecom service provider in planning of 5G network that will bring a revolutionary change in the lives of mankind. Mr Vikash Nigam, DGM of ALTTC in his address that 5G network will be utilized for making Internet of Things (IoT) a reality when machine to machine, machine to man and man to machine communication will be very faster. Earlier, Dr H S Sharma, Chairman of the Centre in his welcome address, highlighted the importance of communication in rapidly changing scenario in every phase. Brig V S Chaudhri, Convener of the event introduced the theme of the day. Dr S C Gupta, Honorary Secretary of the Centre proposed vote of thanks.



Indore



The Keynote Speaker, Dr Vandan Tewari, Assistant Professor, Department of Information Technology, SGSTS, Indore, in her speech, commented that Artificial Intelligence (AI) is the latest area of computer science, which emphasizes the creation of intelligent machines. Dr P P Bansod, Chairman of the Centre, in his address, explained the importance of telecommunication in human's life and the revolution that has taken place over a span of years where the telecommunication used only for emergency. Dr Sunita Varma, Convener of the event proposed the vote of thanks.

Jammu

Mr Sunil Kumar Sharma, Hon'ble Minister for Power Development, Govt. of J&K graced the occasion as Chief Guest. He stressed upon the engineers to put their best efforts to provide power and benefits of Artificial Intelligence (AI) and telecommunication to the remotest area of the State. The Guest-of-Honour, Mr Kulbhushan Sharma, General Manager (EB & Marketing), BSNL, in his address explained that there are countless applications of AI in every walk of life. Earlier, Mr R K Chanyal, Chairman of the Centre introduced the theme to the audience. Mr V K Sharma, Honorary Secretary of the Centre proposed the vote of thanks.



Kanpur

Prof N B Singh, Vice-Chancellor, Harcourt Butler Technical University, Kanpur graced the occasion as Chief Guest and explained the need of Artificial Intelligence (AI) in different fields of engineering and its application in human works. The theme speaker, Prof Laxmidhar Behera, Department of Electrical Engineering, IIT Kanpur, in his speech, mentioned the gathering about the recent developments in the area of AI and Robotics. Earlier, Prof D P Mishra, Chairman of the Centre read out the message received from General Secretary of International Telecommunication Union (ITU). Dr K V Srivastava, Chairman, IEEE, U P



Section and Mr Vivek Asthana, Honorary Secretary of the Centre introduced the Chief Guest and Theme Speaker respectively. Mr S K Gupta, a Senior Member of Centre proposed the vote of thanks.

Kanyakumari

The Chief Guest, Dr M Albert Singh, Sub-Divisional Engineer, BSNL explained the positive use of Artificial Intelligence (AI) particularly in telecommunication with the help of slideshows. He further narrated that how AI-based technologies are being used to better life of the people by improving Education, Agriculture, Healthcare, Finance etc. Earlier, Mr Muthum Perumal welcomed the guests and dignitaries. Mr S Natarajan, in his address, explained the need for the AI for growth of technology. Mr V Sivathanu Pillai, Honorary Secretary of the Centre proposed the vote of thanks.

Munirabad



Mr Rajasekhara Gowd P, Honorary Secretary of the Centre welcomed the Guest Speaker. Mr T Nazuruddin, Head, Department of Mechanical Engineering, TMAES Polytechnic College, Hospet, graced the occasion as Guest Speaker. Mr Nazuruddin, in his address, explained that the

telecommunication plays a vital role in the development of the nation. He further highlighted about the importance of set of lights functioning in this regard. At the end of the programme, vote of thanks was proposed by the Honorary Secretary of the Centre.

Mysore

Mr K L Jairam, Principal General Manager, BSNL, Mysore, speaking on the theme, explained that Artificial Intelligence (AI) is developing in an unprecedented way, brings many challenges and opportunities and thereby economic value of man grows. He further narrated that machines through AI removes the barriers of human limitation and provides great effect on our society and economy. He further opined that usage of Robots in complicated surgery in medical field is being accepted worldwide. Earlier, Mr M Chinnaswamy, Chairman of the Centre welcomed the gathering and highlighted about the history of observing of this day. Mr B V Ravindranath, Honorary Secretary of the Centre proposed the vote of thanks.



Srikakulam



Mr B V V Nagesh, Assistant General Manager (Planning & Operations), BSNL, Srikakulam graced the occasion as Chief Guest and addressed the gathering. Dr M Govinda Raju, Honorary Secretary of the Centre presided over the function.

Smt G M Anitha Priyadarshni, Head, Department of Electronics & Communication Engineering, Sri Venkateswara College of Engineering & Technology, Srikakulam delivered her speech on the occasion. Mr M Govinda Raju proposed the vote of thanks at the end of the function.

Sunabeda

Mr R C Sahoo, Deputy General Manager (Manufacturing), Hindustan Aeronautics Ltd. (HAL), Koraput graced the occasion as Chief Guest. On this occasion, Mr Rajesh Kumar, Manager (IT), HAL, Sunabeda elaborated on the theme and explained how the data gives impact on FMCG sector



in day to day life. Mr R C Sahoo, Former Chairman of the Centre deliberated on various aspects of Artificial Intelligence (AI) and stressed upon the theme of the day. Earlier, Mr Guru Prasad Dash, Honorary Secretary of the Centre welcomed all the participants. Mr P K Das proposed the vote of thanks.

Varanasi

Prof A K Agrawal, Chairman of the Centre welcomed all the dignitaries and spoke on the theme of the day. Dr Ruchir Gupta, Assistant Professor, Department of Computer Science & Engineering, IIT-BHU Varanasi highlighted the main difference between the man and machine for decision making processes. He further added that an attempt has been made to make machines smart enough in decision making process, termed as machine learning. During the program, Prof Kripa Shanker, Former Vice Chancellor, Dr A P J Abdul Kalam Technical University, Lucknow



and presently Emeritus Professor, Department of Mechanical Engineering, IIT-BHU was also present. The function ended with the vote of thanks proposed by Prof Prabhas Bhardwaj, Honorary Secretary of the Centre.

Upper Assam



The Chief Guest, Mr Surya Tamuli, Managing Director-in-Charge, Assam Gas Company Limited (AGCL), Duliajan, in his address, apprised that the communication

system has been undergone tremendous change in the last four decades, which provided immense benefit to the society through its friendly application. The Guest-of-Honour, Mr H K Changmai, Head, North Eastern Electric Power Corporation Ltd. (NEEPCO), Shillong explained about communication system at earlier life compare to today's communication system. On this occasion, Mr B P Bakshi, Chairman, Assam Productivity Council explained both the positive and negative use of the modern communication system and its effects on the society. Earlier, Mr Amitava Das Gupta, Chairman of the Centre, in his welcome address, elaborated on the transition and transforming of the communication inventions and system. Mr Ramesh Chandra Das, Honorary Secretary of the Centre introduced all dignitaries. Mr Diganta Goswami, Senior Manager (E/M), AGBP, NEEPCO proposed the vote of thanks.

IEI Industry Excellence Award 2018

Request for Participation

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

Applications in specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>) are invited from prospective applicants for IEI Industry Excellence Award 2018. The last date of receipt of application for the Award 2018 is **August 31, 2018**. 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

NEWS-IN-BRIEF

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

STATE CENTRES

Andhra Pradesh

Organized 'Industrial Safety Day – 2018', on June 11, 2018.

Delhi

Observed 'Fire Services Week 2018' on April 14, 2018.

Gujarat

Workshop on 'Low Cost Housing in India' on June 23, 2018.

Himachal Pradesh

Celebrated 'World Water Day' on March 22, 2018.

Lecture on 'Pradhan Mantri Kaushal Vikas Yojna' delivered by Dr Nitin Parashram Gulhane, Associate Professor, Department of Mechanical Engineering, VJTI, Mumbai on May 21, 2018.

Workshop on 'National Building Code of India 2016' during June 7-8, 2018.

Tamilnadu

Lecture on 'Blockchain Technology & Digital Transformation' delivered by Mr Ram Arunachalam, (ARR), Intellect Galaxy Pvt. Ltd. on May 14, 2018.

Telangana

Workshop on 'Real Estate (Regulation & Development) Act, 2017' on June 15, 2018.

Er G V Subba Rao Second Endowment Lecture on 'Simulation Modeling of Multi Reservoir Systems and Pipe' delivered by Dr Anjaneya Prasad, Professor of Civil Engineering, University College of Engineering, Osmania University, Hyderabad on June 19, 2018.

Er T Hanumantha Rao First Endowment Lecture on 'Dr Hanumantha Rao's Critical Contribution to the Future of India' delivered by Dr Vithal Rajan, Writer & Political Economist on June 21, 2018.

Lecture on 'Basic Issues in Rejuvenation of Rivers' delivered by Dr Bharat Junjhunwala, Environmentalist on June 28, 2018.

Lecture on 'Wealth from Waste' delivered by Mr Anil Kumar Vempaty, Chief Executive Officer, M/s Sree Engineering Works, Hyderabad on June 30, 2018.

West Bengal

Organized '165th Birthday Celebration of Sir R N Mookerjee' on June 23, 2018,

LOCAL CENTRES

Agra

Organized Faculty Development Programme on 'Computer Vision' during April 23-27, 2018.

Ahmednagar

Lecture on 'Indian Automobile – Car Segment' delivered by Mr Abhay Raje, Committee Member, Practicing Engineering Consultant and Advocate on June 26, 2018.

Bareilly

Lecture on 'Leading Innovation in Healthcare through Analytics & Big Data' delivered by Dr Ashish Gupta, Associate Professor of Analytics, Department of Systems & Technology, Raymond J Harbert, Harert of Business Auburn University, Auburn on June 1, 2018.

Gwalior

Seminar on 'Building Technology and Coarse Aggregate –' on June 17, 2018.

Jabalpur

Organized 'Discourse on Earthquake: Reasons & Diagnosis' on May 22, 2018.

Kanpur

Organized Short Term Course on 'Supercritical Technology for Power Generation in India' during June 20-24, 2018.

Kolhapur

Seminar on 'Career Opportunities in Engineering and Centralized Admissions Process 2018' on June 3, 2018.

Mysore

Celebrated 'Foundation Day' of the Centre on May 26, 2018.

South Gujarat

Seminar on 'Smart Grid Technologies and Indian Power Scenario' on June 23, 2018.

Tiruvallur

Organized 'The National Summer Internship Training' during June 7-13, 2018.

Organized 'Save One Unit/Day Version 2.0' and 'Energy Saving Awareness Campaign' on May 19, 2018 and May 20, 2018, respectively.

Varanasi

Prof B B Bansal Memorial Lecture on 'Solar Energy' delivered by Mr S K Dwivedi, Chief Electrical Engineer (M), DLW, Varanasi on April 19, 2018.

Visakhapatnam

Workshop on 'Operation and Maintenance of Uninterrupted Power Supply' on May 9, 2018.

Workshop on 'New Frontiers of Mechanical Engineering Applications in Steel Making' on June 30, 2018.

OVERSEAS CHAPTERS

Qatar

Seminar on 'Cathodic Protection and Corrosion Control' June 1, 2018.

One Day Seminars/Workshops conducted by various Centres of IEI

STATE CENTRES

Gujarat

Gujarat State Centre of the Institution in association with Waste Minimization Centre organized One day Workshop on **'Implementation of Hazardous Waste (M and TBM) Rules 2016'** under the aegis of Environmental Engineering Division Board, IEI on June 9, 2018 at Ahmedabad. Dr Sanjiv Tyagi, Director, Gujarat Environment Management Institution, Gandhinagar, graced the occasion as Chief Guest and delivered the Keynote address. Mr T B Shah, Regional Officer, Gujarat Pollution Control Board, Gandhinagar was present as Guest-of-Honour. Mr N B Vasoya, Immediate Past Present, IEI presided over the function.



Jharkhand

Jharkhand State Centre of the Institution organized One day Workshop on **'Gearing and Bearing for Unit & Bulk Material Handling - 2018'** on June 23, 2018 at Ranchi. Mr Ashish Kumar Nan, General Manager, MECON, Ranchi graced the occasion as Chief Guest. Mr Neeraj Kumar,



Joint General Manager, MECON, Ranchi graced the occasion as Guest-of-Honour. Other dignitaries attended the Workshop included Mr Shivanand Roy and Mr M R Kumar, Immediate Past Chairman and Honorary Secretary of the Centre respectively.

Karnataka

Karnataka State Centre of the Institution in association with Department of Mechanical Engineering, S G Balekundri Institute of Technology, Belagavi organized One day Seminar on **'Latest Task and Trends in Automotive Technology'** under the aegis of Mechanical Engineering Division Board, IEI on May 18, 2018 at Belagavi. Mr Shivanand Magadam, Regional Transport Officer, Belagavi graced the occasion as Chief Guest and inaugurated the Seminar. His Holiness Dr Siddharama Swamiji also attended the function as Guest-of-Honour.



Karnataka State Centre of the Institution in association with Bangalore Water Supply & Sewerage Board (BWSSB) and Bruhat Bangalore Mahanagara Palike organized One Day Seminar on **'Waste to Energy Technology'** under the aegis of Environmental Engineering Division Board, IEI on May 28, 2018 at Bengaluru. On this



occasion, Mr Tushar Giri Nath, Chairman, BWSSB, Mr M N Thippeswamy, Former Chief Engineer, BWSSB, Dr H N Chanakya, Chief Research Scientist, Indian Institute of Science, Bengaluru, Dr Yagna Prasad, Chief Technology Officer, VaTech Wabag, Chennai, Mr Mohammed Raffi, Environmental Consultant, Dr Sandhya, Medical Officer, Bruhat Bengaluru Mahanagara Palike; Prof N Chikkanna, Chairman of the Centre, Mr Jasmal Singh, Honorary Secretary of the Centre and Dr P N Ravindra, Chief Engineer, BWSSB & Convener of the event.

Punjab & Chandigarh State Centre

Punjab & Chandigarh State Centre of the Institution organized One day Seminar on **'Prevention and Solution to Stubble Burning'** under the aegis of Agricultural Engineering Division Board, IEI on May 31, 2018 at Chandigarh. Dr S K Pattanayak, Secretary, Ministry of Agriculture & Farmer Welfare, Govt. of India addressed the gathering as Chief Guest. Mr Vishwajeet Khanna, Additional Chief Secretary, Department of Agriculture, Punjab, Dr Ashwani Kumar, Joint Secretary to Govt. of India, Department of Agriculture & Farmers Welfare and Mr Kahan Singh Pannu, Secretary, Agriculture, Punjab & Chairman, Punjab Pollution Control Board graced the occasion as Guests-of-Honour and highlighted the issues on stubble burning.



Telangana

Telangana State Centre of the Institution in association with Ramagundam Local Centre of IEI, Mining Engineer's Association of India and Alumni of Mining Engineers from Osmania University & Kakatiya University organized One day Seminar on **'Mining Policies - Challenges'** under the aegis of Mining Engineering Division Board, IEI on April 22, 2018 at Hyderabad. Mr B R Reddy, Chairman & Managing Director, South Eastern Coal Fields Ltd., Bilaspur graced the function as Chief Guest and inaugurated the Seminar. The Guest-of-Honour on the occasion was Dr N K Nanda, Director (Technical), National Mineral Development Corporation, Hyderabad and addressed the gathering.



Telangana State Centre of the Institution organized One Day Seminar on **'Science and Technology for a Sustainable Development'** under the aegis of Interdisciplinary Coordination Committee, IEI on May 11, 2018 at Hyderabad. Dr Debasis Chakraborty, Technology Director, Directorate of Computational Dynamics, Defence Research & Development Laboratory Hyderabad graced the Seminar as Chief Guest and delivered the inaugural address. Prof M L Saikumar, Fellow of Computer Society of India, graced the occasion as Keynote Speaker and delivered the address.



Tripura

Tripura State Centre of the Institution jointly with NIT Agartala organized One day Seminar on **'Ground Improvement Techniques'** under the aegis of Civil Engineering Division Board, IEI on April 30, 2018 at Agartala. Prof G L Sivakumar



Babu, Department of Civil Engineering, Indian Institute of Science, Bangaluru and President, Indian Geotechnical Society inaugurated the programme as Chief Guest. Dr Sujit Kumar Pal, Associate Professor, Department of Civil Engineering, NIT Agartala delivered the keynote address.

LOCAL CENTRES

Agra



Agra Local Centre of the Institution in association with Anand Engineering College, Agra organized One day Workshop on **'Python Language Applications for Embedded Systems – 2018'** under the aegis of Electronics & Telecommunication Engineering Division Board, IEI on May 7, 2018 at Agra. Eminent speakers

viz. Mr Vikrant Sharma, Application Engineer, Factual Tech Solution, New Delhi, Mr Nitin Ahuja, R&D Head, Cold Fusion Control Systems, Mr Rohit Gurjar, Netaji Subhas Institute of Technology, New Delhi, Prof Anil Kishore Saxena, Director, Anand Engineering College, Agra and Mr Devendra Singh Chaudhary, Immediate Past Chairman of the Centre addressed the gathering.

Gwalior

Gwalior Local Centre of the Institution organized One day Seminar on **'Embedded Technologies in Smart City Development'** under the aegis of Computer Engineering Division Board, IEI on May 27, 2018 at Gwalior.



Jabalpur

Jabalpur Local Centre of the Institution organized Seminar on **'Energy for All – Special Emphasis on Renewable Energy Integration Protection and Saubhagya Yojna'** under the aegis of Electrical Engineering Division Board, IEI on June 24, 2018 at Jabalpur. Lt. Gen. Milan Naidu, (PVSM, AVSM, YSM), Former Vice-Chief of Army Staff, graced the occasion as Chief Guest and inaugurated the Seminar by



lighting the lamp. Mr S K Gupta, Former Chief Engineer, Indian Railways, Mr R A Sharma, Madhya Pradesh Power Transmission Company Limited, Jabalpur and Ms Shelja Shukla, Head, Department of Computer Engineering, Jabalpur Engineering College, were the Guests-of-Honour. Dr Buplab Paul, Principal, Shri Ram Institute of Technology, Jabalpur delivered the keynote address.

Kancheepuram

Kancheepuram Local Centre of the Institution in association with Department of Civil Engineering, Jeppiaar Engineering College organized One day Workshop on **'Automation in Civil Engineering'** was organized under the aegis of Civil Engineering Division Board, IEI on March



24, 2018 at Kancheepuram. Dr J Venu Gopala Krishnan, Principal, Jeppiaar Engineering College inaugurated the Workshop and delivered the inaugural address. Mr K Sakthi Ganesh, Managing Director, Velciti Construction Engineering Pvt. Ltd. graced the occasion as Guest-of-Honour.

Kancheepuram Local Centre of the Institution in association with Department of Electrical & Electronics Engineering, Jeppiaar SRR Engineering College, Putur, Tamilnadu organized One day Workshop on **'IoT using Raspberry PI'** under the aegis of Electrical Engineering Division Board,



IEI on March 12, 2018 at Chennai. Mr Janarthanam, Scientist, National Institute of Electronics & Information Technology graced the occasion as Chief Guest. Other dignitaries graced the occasion included Dr T Sasikala, Principal and Dr M Ma Kumar, Head, Electrical & Electronics Engineering Department, Jeppiaar SRR Engineering College addressed the gathering.

Kancheepuram Local Centre of the Institution in association with Department of Electrical & Electronics Engineering, Agni College of Technology, Chennai organized One day Workshop on **'Application of Machine Intelligence Techniques and Tools for Real Time Engineering Problems'** under the aegis of Electrical Engineering Division Board, IEI on June 27, 2018 at Chennai. Guest Speakers on the occasion included Mr Murali Sundaram, Technocrat, Consultant at Cognizant Technology Solutions, Mr Saugata Chakrabarti, Evangelist, Founder & Director and Mr Arul Prabakar, Assistant Manager, National Small Industries Corporation.



South Gujarat

South Gujarat Local Centre of the Institution jointly with Department of Electrical Engineering, C K Pithawalla College of Engineering & Technology (CKPCET), Surat organized One day Seminar on **'Smart Grid Technologies and Indian Power Scenario'** under the aegis of Electrical Engineering Division, IEI on June 23, 2018 at Surat. Dignitaries present on the occasion included Dr Anish



H Gandhi, Principal, CKPCET, Surat, Prof Naimish K Zaveri, Department of Electrical Engineering, CKPCET and Mr Sharadchandra Shetty, Head, Electrical and Power Electronic Section, Reliance Industries Limited.

Visakhapatnam

Visakhapatnam Local Centre of the Institution in association with RINL, Vizag Steel Plant organized One day Workshop on **'Gear Box and Couplings & Safety Aspects'** under the aegis of Mechanical Engineering Division Board, IEI on April 27, 2018 at Visakhapatnam. Mr G Venkata Satyam, Deputy Manager (SP), Mr P V Hanuman, Deputy Manager (SSD), Mr B V Swamy, Deputy Manager (TPP) and Mr B V Rao, Deputy Manager (ES&F), Vizag Steel Plant addressed the gathering on the occasion.



IEI DIARY



Aerospace Engineering Division

All India Seminar on "Engineering Insight into Design and Testing of Aircraft Engine Components"

Bangalore, September 18-19, 2018

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

Agricultural Engineering Division

Thirty-second National Convention of Agricultural Engineers on "Agricultural Engineering for the Sustainable Rural and Agriculture Development in India"

Kota, August 18-19, 2018

The Honorary Secretary, IEI, Kota Local Centre, Near E S I Hospital, Jhalawar Road, Kota 324 005 [☎: 0744-2428250/9461655704; e-mail: kotalc@ieindia.org]

International Conference on "Role of Agricultural Engineering towards Global Food Security"

Bangalore, April 11-13, 2019

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

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

Agartala, August 10-11, 2019

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

Architectural Engineering Division

All India Seminar on "Application of RERA in Society"

Goa, August 18-19, 2018

The Honorary Secretary, IEI Goa State Centre, D Type Quarters, D-8-1 Government Polytechnic Campus Altinho Panaji Goa 403 001 [☎: 0832-2434686; e-mail: goasc@ieindia.org]

All India Seminar on "Architectural Engineering for First Track Constructions"

Nashik, September 09-10, 2018

The Honorary Secretary, IEI, Nashik Local Centre, PWD Campus, Bharat Ratna Sir Visvesvaraya Marg, Nashik 422 002 [☎: 0253-2317701/2582500; e-mail: nashiklc@ieindia.org]

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

Jaipur, November 10-12, 2018

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302 015 [☎: 0141-2706327/2700413; Fax: 0141-2700413; e-mail: rajasthansc@ieindia.org]

Thirty-fourth National Convention of Architectural Engineers on "Architectural Engineering for Socio-economic Development"

Mangalore, November 24-25, 2018

The Honorary Secretary, IEI, Mangalore Local Centre, 2nd Floor Opal Complex, Opp Bejai Church Bejai, Mangalore 575 004; [☎: 0824-2400112; e-mail: mangalorelc@ieindia.org]

Chemical Engineering Division

All India Seminar on "Recent Trends in Chemical Engineering and Biotechnology in Mitigation of Global Warming"

Kolkata, August 17-18, 2018

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700 020 [☎: 033-22238914; Fax: 033-22233140; e-mail: wbcs@ieindia.org]

All India Seminar on "Waste Management For Sustainable Development"

Berhampur, August 17-18, 2018

The Honorary Secretary, IEI, Berhampur Local Centre, C/o The Executive Engineer, Quality Control Division, Courtpetta, Dist Ganjam, Berhampur 760004 [e-mail: berhampurlc@ieindia.org]

One Day Seminar on "Present Trend in Heat Exchanger Design & Manufacturing"

Ahmedabad, August 22, 2018

The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380 006 [☎: 079-26400811; Fax: 079-26561825; e-mail: gujaratsc@ieindia.org]

All India Seminar on "Innovation and Entrepreneurial Opportunities in Advance Biotechnology"

Hosur, September 07-08, 2018

The Honorary Secretary, IEI, Hosur Local Centre, 69 Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Hosur 635109, Tamilnadu [e-mail: hosurhc@ieindia.org]

Thirty-fourth National Convention of Chemical Engineers on "Bio-degradable Materials and Bio-technology for Environmental Protection in

Chemical and Pharmaceutical Industries"

Chennai, October 26-27, 2018

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

Civil Engineering Division

One Day Seminar on "Disaster: Its Preparedness, Mitigation and Capacity Building"

Agartala, August 03, 2018

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, PO : Kunjaban, PB No. 139, Agartala 799006, Telefax : 0381-2304700 [email : tripurasc@ieindia.org]

Workshop on "Disaster Proof Construction and Other Risk Management"

Ghaziabad, August 19, 2018

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

All India Seminar on "Recent Developments in Concrete Composites"

Hyderabad, August 24-25, 2018

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004, Telangana [☎: 040-233114969; e-mail: telanganasc@ieindia.org; website: www.ieitsc.org]

Workshop on "Revisions of National Building Code – 2016"

Madurai, August 25, 2018

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

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

Bokaro, August 25-26, 2018

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]

All India Seminar on "Reuse and Recycle of Wastewater"

Erode, August 30-31, 2018

The Honorary Secretary, IEI, Erode Local Centre, Texvalley Campus, Gangapuram, Erode 638102 [e-mail: erodelc@ieindia.org]

Thirty-fourth National Convention of Civil Engineers on "Recent Advances in Infrastructure Development"

Nagpur, September 08-09, 2018

The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010 [☎: 0712-2556231/2525617; e-mail: nagpurhc@ieindia.org; website: ieingp.org]



Computer Engineering Division

One Day Workshop on “Wireless Sensor Networks”

Chandigarh, August 17, 2018

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

All India Seminar on “Smart Village to Smart India”

Ghaziabad, September 02-03, 2018

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

All India Seminar on “Cyber Physical Systems for Digital India and Sustainable Development”

Dehradun, September 06-07, 2018

The Honorary Secretary, IEI, Uttarakhand State Centre, P.O. Clement Town, Delhi-Saharanpur Road, Near ISBT Flyover, Dehradun 248002 [Telefax: (0135) 2641190; e-mail: uttarakhandsc@ieindia.org; website: www.ieiuksc.org]

All India Seminar on “Big Data Security and Privacy – A Challenge to Business Intelligence”

Kolkata, September 07-08, 2018

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 Seminar on “Machine Learning Algorithm for Bioinformatics Application”

Salem, September 21-22, 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 [Ph. 0427 2332544; e-mail: salemc@ieindia.org]

All India Seminar on “Human Re-Engineering”

Ghaziabad, September 28-29, 2018

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

All India Seminar on “Internet of Things(IoT) – Standards and Protocols”

Bangalore, October 09-10, 2018

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

All India Seminar on “Recent Trends in Image Processing for AI Implementation”

Chandigarh, October 22-23, 2018

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

Thirty-third National Convention of Computer Engineers on “Computer Cognitions and Intelligent Systems”

Ghaziabad, February 15-16, 2019

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

Electrical Engineering Division

One Day Workshop on “Designing of Embedded Systems using Arduino”

Salem, August 17, 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: salemc@ieindia.org]

All India Seminar on “Research Challenges in Grid Integrated Solar-Wind Energy Systems”

Tuticorin, September 5-6, 2018

The Honorary Secretary, IEI, Tuticorin Local Centre, 1/27, Sacred Heart Institute of Engineering, Meelavittan Road, Tuticorin 628002 [☎: 0461-2300577; e-mail: tuticorinc@ieindia.org]

International Conference on “Recent Developments in Clean and Safe Nuclear Power Generation”

Hyderabad, October 03-05, 2018

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004, Telangana [☎: 040-233114969; e-mail: telanganasc@ieindia.org; website: www.ieitsc.org]

All India Seminar on “Energy Management and Audit”

Vallabh Vidyanagar, October 26-27, 2018

The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380 006 [☎: 079-26400811; Fax: 079-26561825; e-mail: gujaratssc@ieindia.org]

Thirty-fourth National Convention of Electrical Engineers on “Recent Advancement in High Voltage Direct Current (HVDC) Transmission”

Agartala, November 16-17, 2018

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, PO : Kunjaban, PB No. 139, Agartala 799006, Telefax : 0381-2304700 [email : tripurasc@ieindia.org]

All India Seminar on “Renewable Energy Technologies: Perspectives and Challenges”

Chandigarh, November 16-17, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

One Day Seminar on “Robotics Monitoring of Power Systems”

Salem, January 01, 2019

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

636004 [Ph. 0427 2332544; e-mail: salemc@ieindia.org]

All India Workshop on “Application of Power Electronics in Electrical Systems”

Chandigarh, January 15-16, 2019

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

Electronics & Telecom. Engg. Division

One Day Seminar on “Wavelet Video Processing Technology”

Erode, August 14, 2018

The Honorary Secretary, IEI, Erode Local Centre, Texvalley Campus, Gangapuram, Erode 638102 [e-mail: erodelc@ieindia.org]

All India Workshop on “Advance Wireless Communication and Its Implications”

Chandigarh, September 10-14, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

All India Workshop on “Machine Learning for Intelligent Image Processing”

Chennai, September 27-28, 2018

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

All India Seminar on “Role of Embedded System in Wireless Sensor Networks”

Chandigarh, October 12-13, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

Thirty-fourth National Convention of Electronics & Telecommunication Engineers on “Intelligent Telecommunication Networks for Sustainable Growth”

Ghaziabad, October 21-22, 2018

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

Thirty-fifth National Convention of Electronics & Telecommunication Engineers on “Mechatronics: Bridge between Technologies”

Pune, November 23-24, 2019

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

Environmental Engineering Division

One Day Seminar on “Environmental Pollution and Management”

Aurangabad, August 08, 2018

The Honorary Secretary, IEI, Aurangabad Local Centre, Railway Station Road, Osmanpura, Aurangabad 431005 [Fax : (0240) 2325621; e-mail : aurangabadlc@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 “Advanced Techniques for Sustainable Solid Waste Management for Green India”

Erode, October 4-5, 2018

The Honorary Secretary, IEI, Erode Local Centre, Texvalley Campus, Gangapuram, Erode 638102 [e-mail: erodelc@ieindia.org]

All India Seminar on “Sources of Planet Energy, Environmental & Disaster Science: Climate Disturbances & its Global Impact”

Lucknow, October 27-28, 2018

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers Bhawan River, Bank Colony Lucknow 226 018 [Telefax: (0522) 2625322; e-mail: upsc@ieindia.org, website: www.ieiup.org.in]

Marine Engineering Division

Thirty-second National Convention of Marine Engineers on “Indian Maritime Sector – An Ocean of Opportunities”

Chennai, August 16-18, 2018

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

International Conference on “Marine Engineering and Ocean Technology – Digital Ocean”

Kanchepuram, February 15-17, 2019

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

Mechanical Engineering Division

All India Seminar on “Applications of Light Weight Materials and Characterisation in Automobile Industry”

Kanchepuram, August 10-11, 2018

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

One Day Seminar on “Recent Trends in Condition Monitoring of Rotating Equipment in Steel, Mines and Power”

Durgapur, August 19, 2018

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, ‘B’ Zone, Durgapur 713205 [Telefax : 0343-2564770; e-mail : ieidurgapurlc@ieindia.org]

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

Delhi, September 07-08, 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 “Emerging Trends in Mechanical Materials in Engineering”

Bangalore, September 11-12, 2018

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

All India Seminar on “Optimization Techniques in Mechanical Engineering”

Chandigarh, October 04-05, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

All India Workshop on “Micro-machining”

Chandigarh, October 25-26, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@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, Tamilnadu, Hosur 635109 [e-mail: hosurlc@ieindia.org]

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

Agartala, September 05-06, 2020

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

Metallurgical & Materials Engg. Division

Thirty-second National Convention of Metallurgical & Materials Engineers on “Major Advances and Sustainable Developments in Materials and Metallurgical Engineering”

Jamshedpur, January 17-19, 2019

The Honorary Secretary, IEI, Jamshedpur Local Centre, Subarnarekha Link Sakchi, Jamshedpur 831 001 [☎: 0657-2234316; Fax: 0657-2230159; e-mail: jamshedpurlc@ieindia.org]

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

Kolkata, November 01-03, 2019

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

Mining Engineering Division

All India Seminar on “Emerging Mining Methods and Machinery (EMM)”

Dhanbad, August 24-25, 2018

The Honorary Secretary, IEI, Dhanbad Local Centre, Veena Engineers’ Building, Golf Ground, Dhanbad 826001 [e-mail: dhanbadlc@ieindia.org]

All India Workshop on “Tunnel Engineering”

Roorkee, October 10-12, 2018

The Honorary Secretary, IEI, Roorkee Local Centre, Indian Institute of Technology (IIT) Campus, Roorkee 247667 [☎: 01332-284416, Telefax : 01332 272589; e-mail: roorkeelc@ieindia.org; website: ieirlc.org]

Thirtieth National Convention of Mining Engineers on “Trends and Developments in Mining Industry for Encouraging Investment”

Hosur, December 07-08, 2018

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

Production Engineering Division

One Day Seminar on “Nano Technology for Industrial Applications”

Salem, August 02, 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 [Ph. 0427 2332544; e-mail: salemlc@ieindia.org]

Textile Engineering Division

Thirty-second National Convention of Textile Engineers on “Technology Innovations and Value Added Products in Textile Supply Chain”

Coimbatore, January 04-05, 2019

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

Interdisciplinary Co-ordination Committee

One Day Workshop on “Internet of Everything and Applications”

Vijayawada, August 18, 2018

D No. 29-33-14, Dr K L Rao Bhavan, Gopala Reddy Road, Governorpet, Vijayawada 520002 [☎: 0866-2576822; e-mail: apsc@ieindia.org; website: www.ieiapsc.org.in]

National Languages Promotional Comm.

All India Seminar on “Harit Evam Swachh Urja Ka Nirman Ke Upyog”

Lucknow, August 25-26, 2018

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers Bhawan River, Bank Colony Lucknow 226 018 [Telefax: (0522) 2625322; e-mail: upsc@ieindia.org, website: www.ieiup.org.in]

Notification for R&D Grant-in-Aid (2018-19)

To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/Ph. D courses, The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Like every year, the Institution invites applications for the session 2017-2018 for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing Diploma/UG/PG/Ph. D courses. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members (AMIE/MIE/FIE) of IEI. Membership criteria for students are as follows:

Project Category	Student/Applicant Membership
1. Diploma	Not mandatory. Membership of Student Chapter is desirable
2. UG (BE/B. Tech/AMIE/Equivalent)	Preferably 'Student Member' (SMIE)
3. PG (ME/M. Tech/Equivalent)	Should be 'Corporate Member'
4. Ph. D	Should be 'Corporate Member'

The soft copy of the duly filled-up applications (in editable format), as per the given proforma, should be sent through email to research@ieindia.org and one printed copy of the same, duly sealed and signed should reach the following address:

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

Applications received in format other than that available on our website will not be accepted. Application should be forwarded through the Guide, Head of the Department or Head of the Institution. Please note that preference will be given to project proposals received from Institutions who are members of The Institution of Engineers (India). Kindly go through the guidelines (visit link <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) carefully before filling up the application.

The grant is not intended for the faculty members who have access to other avenues of research funding. Proposals received will be scrutinized and the recipients of R&D Grant will be informed accordingly.

TWENTY-SIXTH IEI CONVOCATION AND TECHNICIANS'/STUDENTS' CONVENTION

Ranchi, November 03-04, 2018

Theme
Challenges and Opportunities in Sustainable Development

Sub-themes:

Technical papers are invited on following sub-themes:

- Advanced Manufacturing Creation for Sustainability
- Sustainable Design and Innovation in Product Development
- Sustainable Transport Infrastructure
- Renewable Energy and its Impact on Environment

With this in focus, papers are invited from Technician/Senior Technician members, students of polytechnics and engineering colleges for presentation in the All India Technicians'/Students' Convention to be held on November 03, 2018 at Ranchi, Jharkhand. The papers shall be on innovative ideas, design, prototype and technology development, case studies, survey details augmenting innovations, etc. pertaining to the theme so as to reach at Jharkhand State Centre latest by September 25, 2018.

Organized by:

The Institution of Engineers (India)

Hosted by:

Jharkhand State Centre

For further information, please contact :

The Organising Secretary (Convocation 2018)
The Institution of Engineers (India)
Jharkhand State Centre
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33rd INDIAN ENGINEERING CONGRESS

Udaipur, December 21-23, 2018

Theme:

Integration of Technologies: Emerging Engineering Paradigm

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

Hosted by: **Udaipur Local Centre**

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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 2018 are given hereunder.

SAIL AWARD

'Emerging Trends in Slag Management in Steel Industry'

DR M VISVESVARAYA AWARD

'Managing the Logistics Cost to Reduce the Cost of Crude Steel Production'

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 2018 is given below.

COAL INDIA (J G KUMARAMANGALAM MEMORIAL) AWARD

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