

Mr S S Rathore, FIE and Past President of The Institution of Engineers (India) has been awarded Padma Shri. Hon'ble President of India, Shri Ram Nath Kovind presented the award to Mr Rathore on March 20, 2018 at a Civil Investiture Ceremony held at Rashtrapati Bhavan.

Thirty-first National Convention of Agricultural Engineers, Delhi

## Engineering Interventions in Doubling the Income of Small & Marginal Farmers by 2022

**Delhi State Centre** of the Institution organized the Thirty-first National Convention of Agricultural Engineers and National Seminar on the theme 'Engineering Interventions in Doubling the Income of Small & Marginal Farmers by 2022' during February 2-3, 2018 at New Delhi. The Chief Guest Mr Narendra Bhooshan, Deputy Director General, Unique



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



Progress of development as well as economic growth of any country can be measured how much energy it consumes. The cost of energy is a significant factor in the economic activities of a nation. Energy today has become a key factor in deciding the product cost at micro level

as well as in dictating the inflation and the debt burden at the macro level. The present day scenario of energy crisis calls for an efficient management of the available energy and energy conservation measures which ultimately stress upon less usage of energy for the same level of activity.

Energy audit can play a major role in energy conservation. An energy audit is an inspection, survey and analysis of energy flows, for energy conservation in a building, process or system to reduce the amount of energy input into the system without affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprints. It attempts to balance the total energy inputs with their use and serves to identify all the energy streams in the systems. It helps in cost optimization. pollution control, safety aspects and suggests methods to improve the operating and maintenance practices of the systems and plugs various loopholes of energy wastage. Time has come for use energy sources that result in low measure of carbon footprint. These 'green choice' programmes can provide a strong motivation for growth of renewable energy supply.

It has been observed that use of high efficiency equipments can save about 10% to 15% of energy. Proper operational practices alone can also reduce energy consumption by 5% to 10%. Application of alternative processes and modernization in many industries can reduce energy consumption by 30% to 50%.

Engineers need to focus on the techniques for optimum usage of energy while planning and designing any building, equipment or process plant, maintaining human comfort, health and safety at the same time. I invite all our members to focus on this burning issue in today's world of energy crisis and take special interest in energy management programmes.

I.E.I NEWS 01 April 1, 2018

### National Electric Mobility Mission 2020

Delhi State Centre of the Institution in association with The Institution of Engineering and Technology (IET) - Delhi Local Network organized a twoday All India Seminar on the theme 'National Electric Mobility Mission 2020' under the aegis of Electrical Engineering Division, IEI during January 19-20, 2018 at New Delhi. The Chief Guest, Mr Abhay Bakre, Director General, Bureau of Energy Efficiency (BEE), Govt. of India, Ministry of Power, in his address, elaborated on various environmental issues impacting the society and India's commitment towards reduction of GHG emission. He further mentioned that success of E-mobility will drastically reduce the GHG emission. Mr Bakre stressed that focus should be given to use transport mechanism through electric power. While concluding his address, he shared strategies and vision to reduce GHG emission by adopting energyefficient technology. Earlier, Mr Devendra Gill, Chairman of the Centre, in his welcome address, mentioned that National Electric Mobility Mission Plan 2020 is one of the most important and ambitious initiatives undertaken by the Government of India that has the potential to bring about a transformational paradigm shift in the automotive and transportation industry in the country. He further mentioned that this is a culmination of a comprehensive collaborative planning for promotion of hybrid and electric mobility in India through a combination of policies aimed at gradually ensuring a vehicle population of about 6-7 million electric/hybrid vehicles in India by the year 2020. Mr V K Gupta, Co-Convenor of the Seminar briefed about the technical details of the Seminar. Mr R N Rajpoot, Chairman, IET-Delhi Local Network, stated that E-mobility is one of the ambitious projects of Govt. of India like electrification of Indian Railways. He felt that for successful E-mobility project, there is a need to create necessary infrastructure of charging points at offices and home. He also stressed the need to create principles of charging electrical vehicles. Mr Pradeep Chaturvedi, Council Member, IEI, in his address, apprised that E-Mobility is considered as a key factor in socio-economic development of the country. 'Heavy dependence on automotive transport system also places heavy foreign exchange burden on the country for import of crude oil for transportation purpose and its consequent adverse impact on the climate with increasing GHG emissions is a deep concern for all countries, especially India', he added. Mr Chaturvedi also mentioned that improvement in economic growth with better social development standards is also resulting in higher mobility requirements. Mr Praveen Kumar Singh, Honorary Secretary of the Centre, proposed the vote of thanks. Papers embracing the theme of the Seminar were presented and discussed during technical sessions.



### Engineering Interventions in Doubling the Income of Small & Marginal Farmers by 2022

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Identification Authority of India, Govt. of India, in his inaugural address, elaborated on food security scenario of the country. He stressed that applications of mobiles and e-commerce should be implemented in all districts of the country. Mr Bhooshan emphasized upon the involvement of start-up companies in implementing the farmer's revenue model. Mr Sisir Kumar Banerjee, President, IEI, and Mr Shyam Khadka, Food & Agriculture Organisation Representative in India graced the occasion as the Guests-of-Honour. Mr Banerjee in his address mentioned that development of ground water and surface water resources should be looked upon as complementary activities to establish planned irrigation facilities ensuring intensive cultivation programme for increased agricultural production. He stated that scientists and technologists should join hand to device ways and means with necessary input of knowledge, so that, the shortfall in the area of efficient utilization of ground water and surface water resources could be successfully tackled and the challenges faced by the agricultural technologists could be met with vigour and enthusiasm. Mr Khadka highlighted the improvement strategies of agricultural productivity. Dr N K Dash, Chairman, Agricultural Engineering Division Board, IEI, presided over the inaugural session. In his address, Dr Dash focused on mechanization of horticultural plantation crops, aromatic plants, intercropping farming and many other allied areas which will help small & marginal farmers in increasing their income. The prestigious 'Rathindranath Tagore Memorial Lecture was delivered by Dr R C Srivastava, Vice Chancellor, Dr Rajendra

Prasad Central Agricultural University, Pusa, Bihar, on the topic 'Saving the Rivers: Role of Agricultural Engineers'. Earlier, Mr Devendra Gill, Chairman of the Centre, welcomed the august gathering and Dr H G Kamble, Convener of the function outlined the detailed programme. The State-of-the-Art Lecture was delivered by Dr Indramani Mishra, Head, Division of Agricultural Engineering, ICAR-Indian Agricultural Research Institute, New Delhi on the topic, 'Agricultural Engineering Technologies for Profitable, Eco-friendly & Sustainable Agriculture'. Eminent Engineering Personalities, namely, Prof J S Panwar, Former Head, Division of Agricultural Engineering, ICAR-Indian Agricultural Research Institute, New Delhi: Dr S D Sharma, Former Professor, Soil & Water Conservation Engineering, College of Agricultural Engineering & Technology, Odisha University of Agriculture & Technology, Bhubaneswar; Dr A P Srivastava, Former National Coordinator, ICAR-National Agricultural Innovation Project and Dr Ashwani Kumar, Former Director, ICAR-Indian Institute of Water Management, New Delhi, were felicitated for their valuable contributions in the field of agricultural engineering. A Proceeding containing technical papers was brought out on this occasion which was released by the dignitaries. The Annual Technical Volume of the Agricultural Engineering Division Board of the Institution on the topic 'Engineering Innovations in Agriculture' was also released. The 'IEI Young Engineers Award' for the year 2017-2018 in the field of Agricultural Engineering was presented to Dr (Ms) A Sangamithra, Assistant Professor, Department of Food Technology, Kongu Engineering College, Tamilnadu; Dr V Eyarkai Nambi, Scientist, TOT Division, ICAR-Central Institute of Post-Harvest Engineering & Technology, Ludhiana and Dr Nanje Gowda N A, Assistant Research Engineer, University of Agricultural Sciences, Bangalore. A panel discussion on 'Future of Agricultural Engineering' was also conducted. Mr Praveen Kumar Singh, Honorary Secretary of the Centre, proposed the vote of thanks. A large number of technical papers embracing the theme of the National Seminar were presented and discussed during the various technical sessions.



### Excellence in Manufacturing and the New Horizon: Mapping the Pathway

Jharkhand State Centre of the Institution in collaboration with the NIFFT, Hatia, Ranchi organized a two-day All India Workshop on the theme 'Excellence in Manufacturing and the New Horizon : Mapping the Pathway' under the aegis of Interdisciplinary Coordination Committee, IEI during January 12-13, 2018 at Ranchi. Mr Sanjay Sen, Chairman of the Centre, in his welcome address,

congratulated NIFFT for its association in organizing the Workshop. He emphasized that the aim of the Workshop is to discuss the principal attribute of futuristic manufacturing and to map the trajectory for the transformation of traditional manufacturing engineering framework to the next generation manufacturing excellence. The Chief Guest Mr Raghubar Das, Chief Minister of Jharkhand, in his inaugural address, mentioned that the IEI is playing a pivotal role in disseminating the knowledge in the society. While praising NIFFT, he highlighted that it is the only institution in India which is providing engineering degrees in manufacturing and foundry technology. He dreamt that the products manufactured in HEC LTD, engineering solutions provided by NIFFT should sell in international market and Jharkhand should be known for critical parts manufacturing hub of India. 'The packaging of the products is also one of the main aspect any one should take care of a product to be successful', he opined. Mr Madhu Ranjan Kumar, Joint

Secretary, Ministry of Human Resource Department, Government of India, informed that all efforts are being put for increasing the infrastructure and other facilities at NIFFT and new courses are being introduced from next Academic Session for taking more students. He suggested Director, NIFFT that there should be close interaction with organizations like, IEI and also with industries specially, Ramkrishna Forgings and HEC for making students industry ready after completion of the course in NIFFT. Mr Avijit Ghosh, CMD, HEC LTD, in his address, apprised that HEC is catering to intricate manufacturing in the field of defense, space and infrastructure fields. He informed that HEC is establishing a training institute which will provide special training to working executives in foundry, welding manufacturing techniques for high end use. Prof (Dr) Partha Protim Chattopadhyay, Director, NIFFT, spoke about various areas covered in the Workshop, such as, design for manufacturing, futuristic manufacturing, micro-manufacturing, nanoscience in manufacturing, smart manufacturing, additive manufacturing, lean manufacturing, cloud manufacturing, etc. The other dignitaries present on this occasion, included Mr Sunil Kumar Barnwal, Secretary to Chief Minister, Govt. of Jharkhand & Secretary to Department of Industries, Mines



and Geology; Dr Ramesh Kumar Pandey, Vice Chancellor, Ranchi University; and Dr Vijay Toppo, Chairman, Organizing Committee. The program was concluded with the vote of thanks proposed by Mr M R Kumar, Honorary Secretary of the Centre.

### Technological Interventions in Total Value Chain of Farming to Double Farm Income

**Tamilnadu State Centre** of the Institution organized a two-day All India Seminar on the theme 'Technological Interventions in Total Value Chain of Farming to Double Farm Income' under the aegis of Agricultural Engineering Division, IEI, during January 20-21, 2018 at Chennai. Mr K S Sundaram,

Divisional Manager, Canara Bank graced the occasion as the Chief Guest and shared his experience of Rural Banking. He explained how we used to buy dates in early days in exchange of unwanted old iron items and how the changes are taking place now-a-days in each and every field of life. He advised the farmers to adopt modern technology. Earlier, Dr G Ranganath, Chairman of the Centre welcomed the Chief Guest and other dignitaries including farmers who came from various parts of Tamilnadu. Mr T M Gunaraja, Council Member, IEI, in his address, praised the farmers for having delivered food security to the country. Mr P Gomathinayagam, Convener and Committee Member of Agricultural Engineering Division of the Centre, discussed various aspects embracing the theme of the Seminar. He spoke about 'total consideration & wider margin' approach / 360 degree approach and de-risking agriculture from the effect of nature. Experts from different areas including Coconut Development Board, Agricultural Engineering Department, Industry, attended the Seminar and deliberated on the topic. Mr R

Ramdoss, Honorary Secretary of the Centre proposed the vote of thanks. The Seminar attempted to shift the basic fundamental thinking process of Policy Making of Agriculture and Farm Planning inculcating the habit of applying Pentagon Success Theory while creating Farm Eco system. The pentagon theory advocates equal consideration in all five sides (people, equipment, knowledge in field of action, minimum to get maximum and unknown) of pentagon simultaneously. The Seminar also proposed to focus on our strength, abundance sunlight and 128 agro climatic zones and bringing technological interventions and working in harmony to become food factory of the world. Papers on various sub-themes of the Seminar were presented and discussed during technical sessions.



#### Thirty-first National Convention of Textile Engineers, Hosur

### Indian Textile Industries: Future Direction

**Hosur Local Centre** of the Institution in association with Adhiyamaan College of Engineering, Hosur organized the Thirty-first National Convention of Textile Engineers and National Seminar on the theme 'Indian Textile Industries: Future Direction' during February 17-18, 2018 at Hosur. Prof (Dr) J Arivudai Nambi, Chairman of the Centre, welcomed the quests and



dignitaries. Mr G Bala Krishnan, Convenor, spoke briefly on the theme of the Convention. The Chief Guest, Mr V Vasudevan, Executive Director, Himatsinga Seide Ltd, Bengaluru, in his speech, mentioned that passion for the subject and innovative approach are the key to success to become a successful engineer. He urged that engineers should work hard to achieve their goals but at the same time he stressed on extra-curricular activities. Prof (Dr) G Thilagavathi, Chairperson, Textile Engineering Division Board, IEI, presided over the inaugural session. In her address, Prof Thilagavarthi highlighted various activities of the Division Board and the purpose of holding the National Convention on such an important topic in the context of clarion call of 'Make-in-India' by the Hon'ble Prime Minister of India. She mentioned that textile is related to the basic need of human civilization hence, textile industries are of great significant all over the world. She concluded that a synergistic approach between academia and industry is required to develop and promote technical textiles. Dr G Ranganath, Chairman of Tamilnadu State Centre, IEI, graced the occasion as the Guest-of-Honour. He stated that regular interaction between academia and industry is important for the future development of textile industries. He exhorted all engineers present

to become member of IEI. A Proceeding was brought out on this occasion which was released by the Chief Guest and other dignitaries on the dais. On this occasion, four Eminent Engineering Personalities, namely, Dr A Peer Mohamed, Former Professor, Department of Textile Technology, Anna University, Chennai; Mr C Kamatchisundaram, Vice President, Textile Machinery Division, Voltas, Coimbatore; Mr Guneet Singh Chawla, Director, Juelle Retail Pvt. Ltd., Ludhiana and Dr K P Chellamani, Former Deputy Director, The South India Textile Research Association, Coimbatore, were felicitated for their immense contribution to the Textile Engineering profession. The 'IEI Young Engineers Award' in Textile Engineering Division for the year 2017-18 was presented to Dr Prashant Dnyaneswar Gangawane, Assistant Professor, D K T E Society's Textile & Engineering Institute, Ichalkaranji, Kolhapur and

Dr Javed Nabibaksha Sheikh, Assistant Professor, Department of Textile Technology, IIT Delhi. The prestigious S N Bhaduri Memorial Lecture was delivered by Dr A Peer Mohamed on the topic 'Statistical Applications for Textile Industry'. Prof (Dr) V Mani Vasagam, Honorary Secretary of the Centre, proposed the vote of thanks. A large number of papers embracing the theme of the National Seminar were presented and discussed during the technical sessions.

## Water Quality Management Strategies Determination for Streams in a River Basin

**Dharwad Local Centre** of the Institution organized a two-day All India Seminar on the theme 'Water Quality Management Strategies Determination for Streams in a River Basin' under the aegis of Environmental Engineering Division, IEI, during January 28-29, 2018 at Dharwad. Dr T V Ramachandra,

Coordinator, Energy and Wetlands Research Group, Centre for Ecological Sciences (CES), Centre for Sustainable Technologies (ASTRA) and CISTUP, Indian Institute of Science Bangalore, graced the occasion as the Chief Guest. Dr Ramachandra, in his inaugural address, mentioned that water management is the need of the hour. 'Water is the basic requirement for civilized society which has to be utilized with proper planning, so that, the ecological balance will not be affected', he opined. Dr Ramachandra further mentioned that one must be more practical while analyzing water related data. 'In this direction, research work has to be accelerated and the results of the research should be affordable', he added. Mr S M Venkareddy Narayana, Chairman of the Centre, presided over the function. In his address, Mr Narayana highlighted the need for organizing a Seminar on such an

important topic. Earlier, Dr M R Patil, Co-convener, welcomed the gathering while Mr C J Jagadeesha, Convener of the event, briefed about the objectives of the Seminar. Prof (Dr) Ramesh L Chakrasali, Honorary Secretary of the Centre, while proposing the vote of thanks, highlighted the need of water for continual civilization. A Souvenir of the Seminar was brought out on this occasion which was released by the Chief Guest. A large number of papers embracing the theme of the Seminar were presented and discussed during technical sessions. The Seminar was organized in association with KSPCB / CPCB / Department of Ecology & Environment, Govt. of Karnataka / Karnataka Department of Science & Technology / Ministry of Water Resources (River Regulation and Rejuvenation Wing, GOI / Karnataka Lake Development Authority / BWSSB / UDD, GOK / NGRI, Hyderabad.



Thirty-first National Convention of Metallurgical & Materials Engineers, Kolkata

### Role of Stakeholders in Development of Road Map for Steel Vision

West Bengal State Centre of the Institution organized the Thirty-first National Convention of Metallurgical & Materials Engineers and a National Seminar on the theme 'Role of Stakeholders in Development of Road Map for Steel Vision' during January 19-20, 2018 at Kolkata. The Chief Guest Mr S S Mohanty, Vice Chairman & Managing Director, Nilachal Ispat Nigam Limited, Bhubaneswar, in his address, informed that steel accounts for 2% of our GDP and low appetite for steel consumption compared to global average is to be accounted for. 'In order to achieve the set target of 300 MTPA steel production by 2030, there is a need to stimulate the demand for steel', he opined. Mr Mohanty further emphasized that automobile, construction, railways are the sectors where the majority of the demand for steel come from and suggested that cutting down on freight charge, improved connectivity with ports, effective use of inland waterways and substantial R&D investment will keep us competitive in world steel market. Mr Sisir Kumar Banerjee, President, IEI, and Special Guest on this occasion, highlighted the future plans of IEI to organize 'Industry-Academia Meet' periodically and requested Mr S S Mohanty to facilitate the same. He further stated that the need of the hour is trained and quality faculty members who will be able to produce quality engineers ready to cater the requirements of the industry. Mr K K Mehrotra, Chairman, Metallurgical & Materials Engineering Division



Board (MMDB), IEI, presided over the inaugural session. In his address, Mr Mehrotra spoke about the various activities of the Institution in general and the Division Board in particular. He informed that India has been able to produce 100 MT of steel last year with a growth rate of 5.8% and poised to become the second largest producer of steel next to China. 'The onus is now on the steel manufacturers to realign their manufacturing technology and policies to achieve the set target by the Government of India', he added. Speaking on the theme, Prof (Dr) N R Bandyopadhyay, Working Chairman of the Convention and the then Member, MMDB, IEI, explained that steel can only be replaced by better steel and suggested that the 'Gram Sevak' model may be adopted and dedicated personnel may be entrusted with some target based responsibility of creating more demand for steel in rural India. He further exhorted the entire steel community to suggest how Institution can extend support to augment steel production through such technical activities. The prestigious V Subramony Memorial Lecture was delivered by Mr P K Sarangi, Director (Technology), MECON Limited, Ranchi on the topic 'Role of Stakeholders in Development of Road Map for Steel Vision: Focus

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#### **Engineering Staff College** of India Autonomous Organ of The Institution of Engineers (India) Old Bombay Road, Gachi Bowli, Hyderabad 500 032 CPDPs for the Month of May 2018 **Scheduled Dates** Name of the Course 01 - 03 May e-Procurement in Engineering Projects Climate indicators in disaster risk management -urban flooding 02 - 04 May Conducting EIA Study and Preparation of EIA reports - Case 02 - 04 May Study & Group Discussion Laboratory Management System Awareness & Internal Auditing 07 - 10 May (As per ISO / IEC 17025 : 2005 & NABL Requirements) Contract Management and Dispute Resolution in Engineering Projects 07 - 11 May Digital Substations - Power System Protection, Control and Monitoring 07 - 11 May Welding Technologies and NDT Techniques (Theory and Practical Orientation with Technical Visit) 07 - 11 May Smart Technologies for Digital India 09 - 11 May Instrumentation and Seismic Analysis of Gravity Dams with 14 - 18 May Software Application Personality Development (An Ordinary to Extra-ordinary 15 - 17 May Personality Empowerment) Leveling, Alignment and Balancing Procedures for high speed 15 - 18 May Rotating Machinery in Power Plants and Process Industries (With Practical Demos) Restoration & Management of urban lakes Participatory approaches 16 - 18 May Preparation of DPR and Tender Documents for Sewage Treatment Plant 16 - 18 May Quality Initiatives in Technical and Higher Educational Institutions 16 - 18 May (In Compliance with NBA & NAAC Accreditation) Web Development using Angular JS 21 - 25 May Energy Audit & Loss Reduction in T&D Systems 22 - 24 May

Use of Fly Ash in Civil Engineering Works

Effect of GST in Civil Engineering Projects

CPDPs for the Month of June 2018			
	Name of the Course	Scheduled Dates	
•	NDT Level II Certification in MPI in accordance with ASNT Document No: SNT-TC-1A 2011	04 - 08 June	
•	<ul> <li>Project Management in Construction Industry</li> </ul>	05 - 08 June	
•	Renewable Energy Generation and Integration with Grid	05 - 08 June	
	<ul> <li>Climate Change and Management of Water Resources</li> <li>Air Pollution Monitoring and Modeling using Software Applications         <ul> <li>Theory and Practicals</li> </ul> </li> </ul>	05 – 08 June 06 - 08 June	
•	Wireless & Mobile Security	06 - 08 June	
•	Total Quality in Vigilance	06 – 08 June	
•	<ul> <li>Heat Exchangers Design and Performance Evaluation in Power Plants &amp; Process Industry</li> </ul>	11 - 14 June	
•	<ul> <li>Pollution Control – Application of Bio-Engineering Techniques in Mining Industry</li> </ul>	12 - 14 June	
•	<ul> <li>Creative Leadership and Teambuilding Skills for Organization Development (Innovative and Inspiring Leadership methodologies with case-studies and Role plays)</li> </ul>	19 - 21 June	
•	<ul> <li>Water Pollution Monitoring and Modeling using Software Applications</li> <li>Theory and Practicals</li> </ul>	19 - 21 June	
•	<ul> <li>Distribution Business Management Implementing Information Technology &amp; Operation Technologies</li> </ul>	19 - 21 June	
•	Geo-Synthetics & Reinforced Soil Structures	19 - 22 June	
•	Uncertainty Measurement	20 – 21 June	
•	SAP HANA Administration	25 - 28 June	
	Flood Computation and Flood Disaster Management	25 – 29 June	
	Goods & Services Tax (GST)	26 - 27 June	
•	Risk Based In-service Inspection in Power Plants & Process Industry	26 - 28 June	
•	Pavement Management Systems (Flexible, Composite and Rigid)	26 - 29 June	
	For detailed information, please contact : ENGINEERING STAFF COLLEGE OF INDIA Old Bombay Boad, Gachi Bowli, Hyderahad 500,032; Ph; 23000465 / 23000466		

Old Bombay Road, Gachi Bowli, Hyderabad 500 032; Ph: 23000465 / 23000466 (EPABX) Fax : 040-23000336; Email : ic@escihyd.org Website : www.escihyd.org

22 - 25 May

29 - 31 Mav



# IEI Celebrates World Water Day

### Theme : Nature for Water

The World Water Day was celebrated by the Institution all over the country on March 22, 2018. Reports of celebration received from various Centres are highlighted here.

#### STATE CENTRES

#### **Andhra Pradesh**

Dr M V S Raju, Coordinator, Internal Quality Assurance Cell (IQAC), VR Siddhartha Engineering College, delivered Keynote Lecture on 'The Shocking Truth about RO Water'. He informed that de-mineralized water used by the public has no useful minerals,



such as, Calcium and Magnesium. He stated that water is normally acidic in nature, having PH value 5.5 – 6.5 and it dissolves metals which are in contact, may be toxic in nature because RO treated water is aggressive in nature. He cautioned that consumption of such water leads to various diseases. Dr Jandhyala Shankar, Former Mayor of Vijayawada Municipal Corporation, shared his experiences on this occasion. Mr M Seshagiri Rao, Honorary Secretary of the Center, in his address stressed on nature-based solution to save water like production of electricity from solar energy.

#### Gujarat

The Chief Guest Mr K A Patel, Special Secretary, Water Resources Department, Government of Gujarat, in his address spoke about the economic and judicious use of water in irrigation adopting drip and sprinkler irrigation. The Keynote Speaker Prof



Vimal Mishra, IIT Gandhinagar, spoke about sustainable management of water resources available to us. He advised that nature-based and technologybased solutions should be adopted for water crisis. He felt that nature-based solutions have the potential to solve many of the water challenges. On this

occasion, an exhibition on 'Save Water' was also organized. Earlier, Mr H U Kalyani, Honorary Secretary of the Centre, welcomed the gathering and Mr Vivek P Kapadia, Committee Member of the Centre, elaborated the theme. Prof Amit Prashant from IIT Gandhinagar, proposed the vote of thanks.

#### Jharkhand

The Chief Guest Prof N K Roy, Retd. Engineer-in-Chief, GOJ & Head, Civil Engineering Department, Jharkhand Rai University, Ranchi, suggested that only solution to avoid water crisis is to conserve the rainwater and recharge ground water resources. The Guest-of-Honour, Mr A Rajsekaran, DGM I/C, Environmental Engineering Department, MECON Limited, stressed on the nature-based solutions for preserving

the water. He explained the importance of groundwater, aquifers recharging and suggested measures to control them. Mr Sardendu Narayan, Retd. Engineerin-Chief, Drinking Water & Sanitation Department, GOJ and Mr A P Roy, Member, IEI also expressed their views



on this occasion. Earlier, Mr Shivanand Roy, Immediate Past Chairman of the Centre, in his welcome speech, spoke about the important link that exists between nature and water. Mr Vishal Nagpurkar, Senior Design Engineer, MECON Limited, Convener of the function narrated the significance of celebrating the day. Mr Prashant Deva, Past Honorary Secretary of the Centre, proposed the vote of thanks.

#### Punjab & Chandigarh

The Chief Guest, Prof (Dr) Tara Singh Kamal, Council Member, IEI, in his address,

discussed major issues related to water pollution and stressed on creating awareness for consumptive use of water for future generation. Dr Bhajandass and Mr Jaspreet Singh from the Department of Civil Engineering, discussed various issues on contamination responsible for



ground water pollution and their preventive measures. Col (Dr) B S Dhaliwal, Vice Chancellor, Guru Kashi University shared his views on the current water related issues. Dr Narinder Singh, Director Finance, Dr Ashwani Sethi, Director P&D, Dr AmitTuteja, Dy Registrar, Dr G S Brar, Dean, Engineering, Dr Varinder Singh, Dy Dean, Engineering were among the dignitaries present on the occasion.

#### Tamilnadu

Dr R Venkatesan, Chairman, Kanchepuram Local Centre, IEI welcomed the gathering



and introduced the Chief Guest Mr G S Saxena, Vice President–Engineering (India Cluster),VA Tech Wabag Limited, Chennai. Mr T M Gunaraja, Council Member, IEI briefed about the theme of the World Water Day. Mr G S Saxena, in his address, stated that water, being basic essential for life and with growing urbanization, its availability has continuously declined. He stressed on

adoption of nature-friendly advanced technologies for recycling of waste water for various re-use purposes. Mr Saxena discussed various technologies like membrane technology, advanced technologies for removal of pollutants and micro pollutants, sewage sludge treatment through anaerobic digestion and production of biogas, etc. Mr R Ramdoss, Honorary Secretary of the Centre, proposed the vote of thanks.

#### Telangana

The Chief Guest, Mr G L Rao, Past President, IEI, in his address, explained the importance of water which has become precious due to its scarcity. 'Not only

technocrats but also the stakeholders need to play a dynamic role in conservation of water, otherwise scarcity is not far away', he opined. The Keynote Speaker, Ms Karuna Gopal, President, Foundation for Futuristic Cities, expressed her concerns about water scarcity. She further narrated that



water is the basic natural resources which needs to be conserved for future use by reducing wastage, losses and augmentation by recycling. Dr S Satyanarayana, Chairman of the Centre, presided over the function. Earlier, Dr G Rameshwar Rao, Honorary Secretary of the Centre, welcomed the gathering. Mr V Jambul Reddy, Director (Projects), HMWS&SB and Honorary Secretary, IWWA, Hyderabad Center, proposed the vote of thanks.

#### **Uttar Pradesh**



The Chief Guest Mr A K Ojha, Former Engineer-in-Chief and Head, UP Irrigation Department, mentioned that whatever we use or draw from nature, it should be our responsibility to return the same to the nature. He stressed that this is the time to take effective steps for ground water management otherwise within next decade acute

water problem will crop up in the whole country. The Guest Speaker Prof Jamal Nusrat, Former Superintending Engineer, Irrigation Department, elaborated the role of nature in solving water related problems. He stressed on effective implementation of ground water recharging, rooftop harvesting and other measures for increasing ground water level. Mr V B Singh, Past Chairman of the Centre and Council Member, IEI informed that in Israel, with average 10 cm rain fall in a year, they produce sufficient food grains that are being exported to other countries. Earlier, Prof Bharat Raj Singh, Chairman of the Centre, welcomed the guests and enumerated about the importance of the day. Mr R K Trivedi, Honorary Secretary of the Centre, proposed the vote of thanks.



#### LOCAL CENTRES

#### Ahmednagar

The Keynote Speaker Dr Dilip G Durbude, Associate Professor, Faculty of Engineering, Water and Land Management Institute (WALMI), Aurangabad, in his

address, explained the background of climate change and stated that intensive industrial growth and high consumption lifestyles are the main reasons for climate change which is a global threat for sustaining rapid economic growth.



Stressing on the importance of water management, Dr Durbude emphasized that there should be appropriate techniques for optimizing water use efficiency; scientific water management and farm practices and measures to minimize water loss. He further stated that irrigation is the major area of water consumption where the present water use efficiency is only 30%-35%, the same could be enhanced to 60% through systematic improvement. Earlier, Mr R P Waykar, Honorary Secretary of the Centre, introduced the theme. Mr Avinash Kulkarni, Chairman of the Centre, highlighted various activities of IEI. Prof (Ms) P P Nangare extended the vote of thanks.

#### Angul

The Chief Guest, Mr Raj Kishore Mishra, Executive Director (S&P Complex), Nalco, in his inaugural address, called upon the engineering fraternity to deal with the challenges related to depleting levels of fresh water. He motivated the gathering to



conserve water and help in maintaining water table using latest technologies. The Chief Speaker, Mr Sudhakar Patri, Ex-EIC, Hirakud Basin, Government of Odisha, made a presentation on Hirakud Basin. He discussed the matters related to flood control in Mahanadi Delta and

the problems faced in water management in the Hirakud reservoir. Earlier, Mr S K Dogra, Chairman of the Centre, welcomed the guests and delegates while Mr Satyabadi Mishra, Honorary Secretary of the Centre, introduced the Chief Speaker. Mr Y Pattnaik, Vice President, NBVL, graced the occasion as the Guest-of-Honour. Dignitaries from Nalco, namely, Mr M P Mishra, General Manager (Smelter); Mr B Das, General Manager (CPP); Mr C R Swain, General Manager (0&M), CPP; and Mr D Mohapatra, General Manager (LSP), CPP, attended the celebration. The vote of thanks was proposed by Mr J K Swain.

#### Bareilly

Mr Subhash C Mehra, Chairman of the Centre, in his inaugural address, stressed on creating awareness among the people regarding various issues related to water. He spoke about some of the challenges, such as, water pollution, inadequate

water supply, lack of sanitation, etc. Mr N C Atri elaborated the theme and presented several ideas to create jobs by the organizations working on water and allied fields. Mr S K Viash, Principal, Govt. Polytechnic, Bareilly, stated that in



arid areas, the riverbeds of seasonal, intermittent rivers and streams often hold shallow ground water reserves, which are recharged every time the rivers flow. Mr S C Sundrani, Immediate Past Chairman of the Centre, stated that environmental damage, together with climate change is driving the water-related crises we see around the world. Earlier, Mr Sudhir Kumar Gupta, Immediate Past Honorary Secretary of the Centre, welcomed the dignitaries and guests. He also proposed the vote of thanks.

#### Belagavi

The Chief Guest, Mr Krishna D Udapudi, Chief Conservator of Forest, Belagavi Circle, in his keynote address, stressed on the protection of forest to control the increase



of carbon dioxide in the atmosphere resulting melting of ice in the south-pole and north-pole very rapidly. He felt that it should be controlled to avoid further damage to seashore towns. Mr Udapudi concluded his speech with the appeal of planting more and more trees to save

the nature and other living creatures. Prof (Ms) Bharati Chiniwalar, Chairperson of the Centre, presided over the function. Earlier, Mr S M Masuti, Honorary Secretary of the Centre, welcomed the guest and dignitaries. Dr B Venkatesh proposed the vote of thanks.

#### Berhampur

Mr Simanchal Das, Director, WATCO Project, Bhubaneswar and the Chief Guest

on the occasion, highlighted the world water status and strategies. He exhorted for connectivity of perennial rivers with dry and semi-perennial rivers to cater the irrigation and drinking need of human beings and other creatures. The Guest Speaker, Mr Pramod Kumar Rout, Executive Engineer, Irrigation Division,



Berhampur, presented the scenario of water resources and its safe preservation. Dr L K Bisoyi, former Chairman of the Centre, highlighted various steps for conservation of water. Earlier, Mr Ashutosh Patra, Chairman of the Centre, in his welcome address, elaborated the theme. The function was hosted by Mr Sanjaya Kumar Moharana, Honorary Secretary of the Centre. Mr Rajani Kanta Patro, Past Honorary Secretary of the Centre, proposed the vote of thanks.

#### **Bokaro Steel City**

Mr A C Goyal, Chairman of the Centre, welcomed the Chief Guest and dignitaries.



He highlighted the importance of World Water Day and measures to be taken for enhancing awareness. Mr R C Srivastava, Executive Director (Projects), SAIL, Bokaro Steel Plant, graced the occasion as the Chief Guest. Mr Srivastava, in his address, stressed the need for conservation of each drop

of water and emphasized for Zero discharge system in Bokaro Steel Plant for which number of projects are under implementation. Mr Y N Singh, Honorary Secretary of the Centre, proposed the vote of thanks. Technical papers embracing the theme 'Water for Nature' were presented and discussed during technical session.

#### Dharwad

The Chief Guest, Dr Satish Annigeri, Registrar (Evaluation), Visvesvaraya Technological University, Belagvi, stated that balance between development and

exploitation of nature is a matter of serious concern in the present context. He mentioned that natural practices would help in resolving climate change which is a major concern in which water is one component. Mr S M Venkareddy Narayana, Chairman of the Centre, while



presiding over the function, mentioned that traditional natural practices should be adopted to use water judiciously and preserve for next generations to come. Earlier, Dr Mrityunjaya R Kappali, Immediate Past Chairman of the Centre, welcomed the gathering. Prof (Dr) Ramesh L Chakarasali, Honorary Secretary of the Centre, stated that water is the root cause of civilization and there is a need for sustained activities to maintain the balanced ecosystem. Dr S S Kerur proposed the vote of thanks.

#### Durgapur

The Chief Guest, Mr S Jayal, General Manager (Project), SAIL, Durgapur Steel Plant, in his address, highlighted the relation of nature and water and the consequences. In this



context, he presented a case study of a lock gate breakage of Durgapur barrage. The Guest-of-Honour, Mr Subhadeep Banerjee, Town Planner, Asansol-Durgapur Development Authority, in his presentation focused mainly on the problems of water scarcity faced in the urban areas today. He enumerated that

it becomes utmost important that steps should be taken in order to promote nature based low cost solutions for water conservation and water purification. Earlier, Mr R K Roy, Chairman of the Centre, in his welcome address, mentioned that naturebased solutions have the potential to solve many of the water problems. Mr M N Bandyopadhyay, Honorary Secretary of the Centre, proposed the vote of thanks.

#### Faridabad

Mr Subhash Chander, Chairman of the Centre, in his opening address, stressed the need for conservation of water and its judicious use, so that all of us can have clean and fresh water all the time. Ms Kiran Chander, Chairperson, M/s Techno Udyog, Faridabad, graced the occasion as the Chief Guest. Dr Pradeep Kumar, Associate





Professor, YMCA, spoke about conservation of water in the medieval period and emphasized that healthy ecosystems are important to secure water supplies while



water supplies to maintain healthy ecosystems are critical. Mr I S Chauhan, Architectural and Structural Consultant, stated that green infrastructure and grey infrastructure play an important role in water management. 'Green Infrastructure refers to strategic use of

networks of natural lands, working landscapes to conserve ecosystem whereas grey infrastructure refers to human engineered infrastructure for water resources such as water and waste water treatment plants, pipelines and reservoirs', he added. Mr Sameer Kumar, Convener, Technical Committee, proposed the vote of thanks.

#### Ghaziabad

Prof (Dr) H S Sharma, Chairman of the Centre, welcomed the gathering and highlighted the importance of observing the day. Mr R P Sharma, Convener on the occasion, elaborated the theme of the day. The Chief Guest, Dr K K Govil, Former

Director, Power Finance Corporation and Former Chief Engineer, Central Electricity Authority, in his address, stressed upon the application of nature based solutions for efficient use of water and energy. He cautioned about the alarming situation of scarcity of water in coming days due to increasing consumption of water. Dr



Govil advocated the possibility of conserving water in various areas by increasing its efficiency of utilization. The Guest-of-Honour, Dr R S Varshney, Former Engineerin-Chief, UP Irrigation and Former Secretary General, International Commission on Irrigation Drainage, discussed the pattern of consumption of water in domestic, agriculture and other sectors; disappearance of ponds, lakes, other water bodies; decreasing level of ground water in earth; alarming level of pollution in rivers, etc. He advocated adoption of alternate ways of handling water in daily life; recharging, rainwater harvesting etc., for curbing wasteful expenditure of water. Dr S C Gupta, Honorary Secretary of the Centre, proposed the vote of thanks.

#### Gorakhpur

A Seminar was organized on this occasion. The Chief Guest, Dr S S Verma, Head (Retd.), Geography Department, DDU University, in his address, expressed his view about water crisis all over the world and mentioned some of the techniques



to mitigate the same. Dr Shirai A Waiih. President of Gorakhpur Environmental Action Group, in his Keynote Address, spoke about poor condition of rainwater harvesting in Gorakhpur. He urged the individuals to take action for tree plantation and minimum consumption of water wherever possible. Earlier,

Mr M W Beg, Chairman of the Centre, in his inaugural address, enumerated that everybody is responsible for today's degraded position of drinking water though 71% of water is available on earth. Mr V K Srivastava, Honorary Secretary of the Centre, proposed the vote of thanks.

#### Kanyakumari

Mr G Siva Subramanian, Chairman of the Centre, in his address, highlighted the importance of water management. He stated that with the increase of population, the

consumption of water is also increasing and at the same time water bodies are increasingly polluted. The Chief Guest, Mr M R Moham, Deputy Superintending Engineer, PWD, Tamilnadu, in his address, explained various lapses in



water management, difficulties in carrying out irrigation, drying of water bodies, elimination of water bodies in the process of urbanization etc. He further explained in detail about the irrigation system in Kanyakumari district. Mr P Gopal and Mr S Natarajan, both Retd. Chief Engineer, PWD, also spoke on water scarcity and how to overcome the same. Mr V Sivathanu Pillai, Honorary Secretary of the Centre, proposed the vote of thanks.

#### Kolhapur

Mr A P Patil, Head, Agricultural Engineering Section, College of Agriculture, Kolhapur, graced the occasion as the Chief Guest. Dr Sudhir Bhongale, Editor of 'Rashtrawadi'

and 'Krishi Jal' Magazines, delivered lecture on the theme of the day. Earlier, Dr Suhas B Patil, Principal, Dr D Y Patil College of Agricultural Engineering and Technology, Talsande, welcomed the dignitaries and guests. Mr Ajay Deshpande, Coordinator of the function, introduced the Chief Guest, Committee Members viz. Mr Jyoti Jadhav and Mr.

Pravin Ukey attended the function along with Mr G S Nevkar, JRO, RSJRS, Kolhapur. Mr Mangal Patil, proposed the vote of thanks.

#### Kollam

The Chief Guest, Mr K V Ramanujan Thampi, Technical Director and Chief Consultant, SWEWS, stated that water availability and its quality are the two major areas of focus

and in the present scenario of Kerala, it is not the lack of availability, but improper management creates problems. He emphasized that for the survival of the future generation, the young generation should act urgently and play active role in this respect. Mr P Rajendraprasad, Chairman of the Centre, presided



over the function. He presented the detailed statistics of water availability and the imbalance. Earlier, Dr Adarsh S, Faculty Adviser, IEI Students' Chapter (Civil), in his welcome address, highlighted the importance of observance of the day and stated that the flood, drought, climate change, water pollution are the major threats for this resource. Mr K Sivadasan, Honorary Secretary of the Centre conveyed the message of 'World Water Day 2018'. Prof Mamatha, Assistant Professor of Civil Engineering, proposed the vote of thanks.

#### Kozhikode

Prof (Dr) K P Mohandas, Chairman of the Centre, welcomed the august gathering and presided over the function. Dr A Achyuthan, famous Environmentalist & former Director, Academic Staff College, Calicut University, delivered the inaugural address.



Dr Pramada S K, Assistant Professor, Department of Civil Engineering, NIT Calicut, while presenting the theme paper, stated that growing demands, poor management and climate change effects have increased water crises and scarcity of water is a major problem in many parts of the world. Dr E J Joseph,

Senior Principal Scientist & Former Executive Director, CWRDM, delivered lecture on the topic 'Water Crisis'. With relevant statistical data on consumption of water for different crops in different countries, he illustrated how the water crisis threatening the world can be alleviated. The function concluded with the vote of thanks proposed by Prof Devadasan K K, Secretary, Society for Protection of Environment Kerala.

#### Meerut

Mr S C Govil, Chairman of the Centre, welcomed the guests and dignitaries. The Kevnote Speaker, Mr S K Kumar, Chairman, Indian Water Resources Society, Meerut Chapter, stressed that excessive and continuous misuse of important natural resource like water is resulting global crisis. He explained that solution of the problem is

possible only if every misuse of water is stopped and the clean water looted from natural resources is returned. He stated that 70% of total water consumption is in agricultural sector and by adopting drip and sprinkler irrigation, onethird water can be saved. Ms Swati



Chaudhary, Assistant Professor in Civil Engineering, ABSS Institute of Technology, Meerut, discussed several techniques of saving and purification of water. Mr A K Gupta, Retd. Chief Engineer, UP Irrigation, lamented that we have totally polluted the surface water on earth and presently engaged in overexploiting the ground water. Mr Raineesh Kumar, Honorary Secretary of the Centre, conducted the programme. Mr Ram Niwas, Joint Honorary Secretary of the Centre, proposed the vote of thanks.

#### Nevveli

Mr N Periyasamy, Deputy General Manager/Geology, Mine II, NLC India Ltd, graced the occasion as the Guest Speaker. He delivered a special lecture on the theme 'Nature for Water'. Mr A Chinnadurai, General Manager/Projects & Business Development, NLC India Ltd, presided over the function and shared his experience.





Earlier, Mr B Selvan, Honorary Secretary of the Centre, welcomed the gathering and introduced the Guest Speaker. Mr T D Natraj, proposed the vote of thanks.

#### North Bengal

The theme Speaker, Mr Tapan Kumar

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Roy, Lecturer, Civil Engineering Department, Jalpaiguri Ploytechnic Institute, in his address, stated that environmental damage, together with climate change, is driving the water-related crises we see around the world. He further explained that floods, drought and water pollution are all made worse by degraded vegetation, soil, rivers and lakes. Mr Roy felt that nature-based solutions have the potential to solve many of our water challenges. He mentioned that planting new trees, reconnecting rivers to floodplains and restoring wetlands will rebalance the water cycle and improve human health and livelihoods. Mr Asim Mahapatra, Honorary Secretary of the Centre, proposed the vote of thanks.

#### Roorkee

The Chief Guest, Dr Dipankar Saha, Former Member, Central Ground Water Board, Government of India, New Delhi, stressed on ground water resources mapping and its utilization in India and implementation of aquifer mapping and its management



which is also important to meet the sustainable water requirements of the country. The Guest-of-Honour, Dr Ambrish Kumar, Principal Scientist, Indian Institute of Soil & Water Conservation, Dehradun, spoke about the nature-based solutions on soil and

water conservation through water harvesting. Prof M L Kansal, Officiating Head, WRD&M, IIT Roorkee, mentioned how water is perceived as a valuable resource in the economy and as an efficient investment in the health of human and ecosystems. Earlier, Mr Malvinder Singh, Chairman of the Centre while welcoming the gathering appealed to make every drop of water count for safe future. Dr Achal Kumar Mittal, Honorary Secretary of the Centre, also addressed the gathering. Dr Ashish Pandey, Secretary, IWRS & Professor WRD&M, IIT Roorkee, summarized the proceedings and proposed the vote of thanks.

#### Rourkela

Prof S K Sahu, Honorary Secretary of the Centre, welcomed guests and dignitaries. The Guest speaker, Mr P K Mehrotra, General Manager-Utilities (Retd.), Rourkela

Steel Plant and Chairman of the Centre, explained that since water is becoming precious resource and supply is not enough, we must look for naturebased solutions for water crisis. He demonstrated different techniques of rainwater harvesting system, collection of water from air, sea water desalination



and how to turn salt water into fresh water. He further explained about how other countries are using unique techniques to tackle their water related issues. The presentation was followed by a brief interactive discussion on the central theme. The function concluded with the vote of thanks proposed by the Joint Honorary Secretary of the Centre Mr Harjit S Kanvel.

#### Tiruchirappalli

The Guest Speaker, Mr P Chidambaram, Senior Training Consultant, Irrigation Management Training Institute, Tiruchirappalli, delivered lecture on the topic 'Water Resources & Irrigation Management'. He mentioned that if water is properly



harnessed, stored and utilized, it can prove a boon and immense value to the mankind. 'In case, if it is not properly controlled, it may become a curse and cause of misery and destruction to the humanity', added Mr Chidambaram. Mr D Harsha, Former Chairman of the Centre along with Mr R Selvaraj,

Chairman and Mr S Lakshmanan, Honorary Secretary of the Centre, attended the function.

#### Tiruvallur

On this occasion, a programme on "Water Conservation Drawing Competition" was organized. Mr R Kalaingnan, Faculty Advisor, IEI MGR Student Chapter, welcomed the

gathering. Mr A Peter Rajan, Chemist, Tamil Nadu Electricity Board, Tamil Nadu, inaugurated the programme. Prof (Dr) S Ravichandran, Honorary Secretary of the Centre, delivered an inspirational talk on Water Conservation. Dr L Ramesh, Joint Honorary Secretary of the Centre, honoured the Speaker Mr A Peter Rajan.



Mr Abhishek Arya, Activity Manager of the Centre, proposed the vote of thanks. Trichur

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Mr V Damodaran, Chairman of the Centre, presided over the function. Prof K R Janardanan, Retd. Professor of Chemistry and Ex State President, Kerala Sastra



and Ex State President, Kerala Sastra Sahithya Parishad, graced the occasion as the Chief Guest and presented the theme paper on the topic 'Nature for Water'. Prof Janardanan delivered lecture highlighting the importance of preserving nature for getting water for all inhabitants. Mr V V Sudhakaran

introduced the Chief Guest. Mr U K Sugathan, Honorary Secretary of the Centre, proposed the vote of thanks.

#### **Upper Assam**

The Chief Guest, Mr Ashim Kumar Ghosh, General Manager (Unit), Brahmaputra

Valley Fertilizer Corporation Ltd, Namrup, enlightened the house with the modern techniques on regeneration of water used for industrial purposes, preservation techniques of potable water etc. The Guest-of-Honour Mr Diganta Goswami, Senior Manager (E&M) AGBPP, NEEPCO, highlighted the



possible threat to mankind due to water crisis in the 21st Century. Mr Raghunath Khan, Tata Consulting Engineers (TCE), SHE Officer of the Methanol Plant of APL, Namrup, emphasized that the people in general in our country should awake and take proactive measures for preservation and recycling of natural water. Earlier, Mr Amitava Dasgupta, Chairman of the Centre, welcomed the august gathering and elaborated the theme of the day. He explained how simple measures can be taken for saving water in the day to day activities of urban and rural people. The vote of thanks was proposed by Mr Nazrul Islam, Assistant Engineer, BVFCL, Namrup.

To be contd.

### Role of Stakeholders in Development of Road Map for Steel Vision

#### Contd. from page 5

on the Secondary Steel Sector'. On this occasion, four Eminent Engineering Personalities, namely, Mr M Ravi, Chief Executive Officer, Bhilai Steel Plant, SAIL (in absentia); Mr O R Ramani, Executive Director (Works), Rashtriya Ispat Nigam Limited (RINL), Visakhapatnam Steel Plant (VSP); Dr S N Ojha, Institute Professor, Department of Metallurgical Engineering, Indian Institute of Technology (BHU), Varanasi and Mr Subrata Mitra, Joint Managing Director, M N Dastur & Company (P) Ltd., Kolkata, were felicitated for their immense contribution to the Metallurgical & Materials Engineering profession. The 'IEI Young Engineers Award' in the field of Metallurgical & Materials Engineering for the year 2017-18 was presented to Dr Bhanu Pratap Singh, Senior Scientist, Advanced Carbon Products, Division of Advanced Materials and Devices, CSIR- National Physical Laboratory, New Delhi; Dr Sudhanshu Shekhar Singh, Assistant Professor, Department of Materials Science and Engineering, IIT Kanpur (in absentia) and Ms Anubha Sharma, Senior Design Engineer, Metallurgical Wing, MECON Limited, Ranchi. On this occasion, a Souvenir cum Book-of-Abstract was also released by the Chief Guest and other dignitaries. Earlier, Mr Kashmiri Lal Mallik, Chairman of the Centre, welcomed the august gathering. Mr Kalipada Das, Organizing Secretary, proposed the vote of thanks. Significant number of papers embracing the theme of the National Seminar were presented and discussed during the technical sessions.

# **IEI DIARY**

#### Aerospace Engineering Division

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 [26: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

#### Agricultural Engineering Division

#### All India Seminar on **"Innovative Mechanization for Small and Marginal Farmers under Rainfed Areas"** Thiruvananthapuram, May 25-26, 2018

The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opp To Kanakakunnu Palace, Thiruvananthapuram 695033 [Tel: 0471-2322991/2982102; Fax: 0471-232992; e-mail: keralasc@ieindia.org]

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

#### Kota, August 25-26, 2018

The Honorary Secretary, IEI, Kota Local Centre, Near E S I Hospital, Jhalawar Road, Kota 324 005 [2]: 0744-2428250/9461655704; e-mail: kotalc@ieindia.org]

#### Thirty-third National Convention of Agricultural Engineers on **"Commercial Crops Processing and Value Addition"** Agartala, August 10-11, 2019

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P. O. Kunjaban, PB No 139, Agartala 799 006 [2010] 2004 2304700; Fax: 0381-2304700; e-mail: tripurasc@ ieindia.org]

#### Architectural Engineering Division

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

Jaipur, June 09-10, 2018

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302 015 [2010] 1011-2706327/2700413; Fax: 0141-2700413; e-mail: rajasthansc@ieindia.org]

#### 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 [20: 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 [2012] (253-2317701/2582500; 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 [2010] 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; [2: 0824-2400112; e-mail: mangalorelc@ ieindia.org]

#### **Chemical Engineering Division**

All India Seminar on **"Waste Management for** Sustainable Development"

#### Berhampore, May 18-19, 2018

The Honorary Secretary, IEI, Berhampore Local Centre, Library Cum Reading Room, C/O The Executive Engineer, Quality Control Divsion (Dowr), Courtpeta Berhampur 760004 [e-mail: berhampurlc@ieindia.org]

#### 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 [26: 033-22238914; Fax: 033-22233140; e-mail: wbsc@ieindia.org]

#### **Civil Engineering Division**

### All India Seminar on "Earthquake Resistant Analysis and Design of Structures"

Bhubaneswar, May 26-27, 2018

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

### Workshop on "Disaster Roof Construction and Other Risk Management Systems"

#### Ghaziabad, July 15, 2018

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [2012: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

#### One Day Seminar on "Alternatives to the Cement, Natural Sand and Aggregates in Modern Construction Practices"

#### Erode, July 23, 2018

The Honorary Secretary, IEI, Erode Local Centre, Texvalley Campus, Gangapuram, Erode 638102 [e-mail: erodelc@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 [2]: (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 "Innovative Trends in Civil Engineering for Sustainable Development"

Pune, September 28-29, 2018 The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [20:02-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

#### Computer Engineering Division

All India Seminar on **"Python Programming for IoT"** Kanchepuram, June 21-22, 2018 The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology – ACT, Old Mahabalipuram

[22: (0172) 2775418; Fax: (0172)2540133; e-mail: pcsc@ieindia.org]

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Kanchepuram, July 04, 2018

Thalambur,

kanchepuramlc@ieindia.org]

**Decision-Making Model**"

Erode, July 25, 2018

erodelc@ieindia.org]

Erode, June 28-29, 2018

erodelc@ieindia.org]

Chennai

All India Seminar on "Data Analytics using R Language"

The Honorary Secretary, IEI, Erode Local Centre,

Texvalley Campus, Gangapuram, Erode 638102 [e-mail:

One Day Workshop on "Machine Learning Using

The Honorary Secretary, IEI, Kanchepuram Local Centre,

Agni College of Technology – ACT, Old Mahabalipuram

One Day Seminar on "Cost Effective Solutions for

Selection of Cloud Services Using Multi-Criteria

The Honorary Secretary, IEI, Erode Local Centre,

Texvalley Campus, Gangapuram, Erode 638102 [e-mail:

The Honorary Secretary, IEI, Punjab & Chandigarh State

Centre, Madhya Marg, Sector 19-A, Chandigarh 160019

One Day Workshop on "**Wireless Sensor Networks**" Chandigarh, August 17, 2018

Chennai

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#### 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 [20120-2728699/2702673; e-mail: ghaziabadlc@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 [2: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

#### **Electrical Engineering Division**

#### All India Seminar on "Smart Grid Technology"

Kota, May 05-06, 2018

The Honorary Secretary, IEI, Kota Local Centre Engineers Bhawan, Near BSNL Office, Jhalwar Road, Kota 324 005 [2]: 0744-2428250; e-mail: kotalc@ieindia.org]

#### One Day Workshop on "Operation and Maintenance of Uninterrupted Power Supply"

#### Visakhapatnam, May 09, 2018

The Honorary Secretary, IEI, Visakhapatnam Local Centre, 9-12-31/1, Beside A U Engineering Girls Hostel, Visakhapatnam 530003 [22: 0891-2747460; e-mail: visakhapatnamlc@ieindia.org; website: www. ieivisakhapatnam.org]

## All India Workshop "Challenges of Integrating Wind & Solar into the Electric Grid using Information Communication"

#### Tiruvallur, June 08-09, 2018

The Honorary Secretary, IEI, Tiruvallur Local Centre, Dr MGR Educational and Research Institute University, Periyar EVR HIgh Road (NH 4 Highway), Maduravoyal, Chennai 600 095 [e-mail: tiruvallurlc@ieindia.org]

#### One Day Seminar on "Evolution of Fuel Cell Technology in Autonomous Vehicles using Internet of Vehicles (IoV)"

Salem, July 27, 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 [23: (0427) 2332544; e-mail: salemlc@ieindia.org]

The e-edition is available at www.ieindia.org

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April 1, 2018



### All India Seminar on "Renewable Energy for Sustainable Development"

Ghaziabad, July 27-28, 2018

The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Raj Nagar, Ghaziabad 201002 [28: 0120-2702673; e-mail: ghaziabadlc@ ieindia.org]

#### 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 [28: (0427) 2332544; e-mail: salemlc@ieindia.org]

### All India Workshop on "Application of Power Electronics in Electrical Systems"

#### Chandigarh, August 23-24, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [22: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

#### All India Seminar on **"Energy Management and Audit"** Vallabh Vidyanagar, September 23-24, 2018

The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380 006 [22: 079-26400811; Fax: 079-26561825; e-mail: gujaratsc@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 [22]: 040-233114969; e-mail: telanganasc@ ieindia.org; website: www.ieitsc.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 [22: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

#### Electronics & Telecom. Engineering Division

#### One Day Workshop on "Internet of Things (IoT)"

#### Kolkata, May 04, 2018

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700 020 [28: 033-22238914; Fax: 033-22233140; e-mail: wbsc@ieindia.org]

#### All India Workshop on "Internet of Things through Longterm Evolution Network"

#### Kanchepuram, July 23-24, 2018

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

### All India 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 [22: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@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 [20172-2775418; 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 [2012] (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012) (2012)

## 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 [20:020-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

#### Environmental Engineering Division

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 [2017] (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 17-18, 2018

The Honorary Secretary, IEI, Tamilnadu State Centre,, 19 Swami Sivananda Salai, Chepauk, Chennai 600005 [28: (044) 25360614/64998729; e-mail: tnsc@ieindia.org]

#### Mechanical Engineering Division

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 [27: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

#### All India Workshop on "Micro-machining"

Chandigarh, September 18-19, 2018 The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [22: 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 [28: 03812304700; Fax: 0381-2304700; e-mail: tripurasc@ieindia. org]

#### Metallurgical & Materials Engg. Division

All India Seminar on **"Advances in Metallurgy and** Manufacturing Processes"

Hyderabad, July 13-14, 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]

### One Day Seminar on "Green Polymer Composite and its Applications"

#### Kolkata, July 25, 2018

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [22: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### International Conference of Metallurgical & Materials Engineering Division on **"Synthesis, Characterization and Application of Nanomaterials [SCAN]"** Kolkata, November 01-03, 2018

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

# 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 [20:0657-2234316; Fax: 0657-2230159; e-mail: jamshedpurlc@ ieindia.org]

#### Mining Engineering Division

#### One Day Seminar on **"Quaity Concerns in Indian Mineral Industry" – the Changing Perspective"** Kolkata, May 09, 2018

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [22: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### All India Seminar on **"Emerging Mining Methods and** Machinery"

#### Dhanbad, August 24-25, 2018

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

#### Production Engineering Division

Thirty-third National Convention of Production Engineers on "Advances in Manufacturing and Systems Engineering" Bhubaneswar, May 19-20, 2018

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

#### Interdisciplinary Coordination Committee

International Conference on "Emerging Technologies for Sustainable and Intelligent Technologies for HVAC & R Systems"

#### Kolkata, July 27-28, 2018

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [2: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

#### National Languages Promotional Committee

All India Seminar on "Harit Evam Swachh Urja Ka Nirma 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]

I.E.I NEWS

April 1, 2018

**Notification for** 

**IEI Industry Excellence Award 2018** 

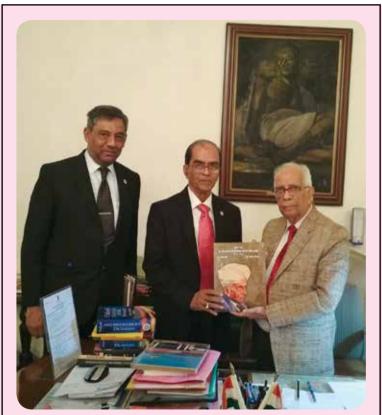
The IEI Industry Excellence Award has been instituted to recognize industry leaders for their innovation, excellence in engineering operations and thereby, to lead their industry in competitive manner. The benchmarks created by the industries in India have included productivity, guality, safety and performance 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

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

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

institute the IEI Industry Excellence Awards in the year 2008.

below mentioned address.



A biography of Sir M Visvesvaraya in Hindi being presented to Hon'ble Governor of West Bengal Mr Keshari Nath Tripathi by President, IEI

# **RS at IEI**

For General Enquiry, please dial IVRS No. (033) 4015 5400 Contact for gueries related to Examination : exams@ieindia.org Membership and change of address : membership@ieindia.org

### **Superannuation from IEI**

Mr Sanjit Kumar Mazumdar, an employee of the Institution HQ will be superannuated from the services of IEI on April 30, 2018. He joined the Institution on September 10, 1981 and rendered his services to the Institution for a period of over 36 years.



IEI wishes Mr Sanjit Kumar Mazumdar and his family a happy and healthy life in future.

#### President : Mr Sisir Kumar Banerjee

Editor : Maj Gen S Bhattacharya, VSM (Retd)

Associate Editor: Mr S Chaudhury

Special Contributors: Mr N Sengupta, Mr K Sen, Dr S Ghosh, Mr T Chakraborty, Ms A Dutta, Mr P Mukhopadhyay, Mr A Basu, Ms H Roy, Mr S Bagchi

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**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	
UG (BE/B. Tech/AMIE/Equivalent) Preferably 'Student Member' (SMIE)		
3. PG (ME/M. Tech/Equivalent)	Should be 'Corporate Member'	
4. Ph. D	h. 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.