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

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Urban Flood Management: Challenges and Strategies in India

Delhi State Centre of the Institution in collaboration with the Institution of Public Health Engineer, India, Delhi Regional Centre and Indian Water Resources Society, IIT Roorkee, organized a two-day All India Seminar on the topic 'Urban Flood Management: Challenges and Strategies in India' under the aegis of Civil Engineering Division, IEI during June 16-17, 2017 at Delhi. Dr Amarjit Singh, Secretary, Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India and Mr Kamal Kishore, Member, National Disaster Management Authority, were the Chief Guest the Guest-of-Honour, respectively. Mr O P Goel, Past President, IEI also graced the occasion. The Chief Guest, Dr Amarjit Singh, in his address, appreciated the contributions of IEI in national development during its nearly 100 years of existence. He mentioned that effective and scientific use of irrigation water has helped in crop development at a rapid pace. In this respect, he cited the example of Madhya Pradesh which is producing food grains at an unprecedented level even from areas that were not considered fertile earlier. Dr Singh felt that cost of development of water supply for irrigation purposes should be included in the agricultural production for consumption of water in agriculture. He stressed that urban landscape should not be disturbed in an unplanned manner and proper land use planning should be ensured, so that, water



run-off is not blocked or affected. At the end, Dr Singh emphasized that engineering fraternity under the umbrella of IEI has tremendous responsibility to plan and manage the urban floods. The Guest-of-Honour, Mr Kamal Kishore, in his address, mentioned that urban flooding is significantly different from rural flooding as urbanization leads to development of catchments which increases the flood peaks and flood volumes. He lamented that increasing trend of urban flooding has become universal phenomenon and poses a challenge to urban planners world over. Mr Pradeep Chaturvedi, Council Member, IEI, while addressing the gathering, emphasized that flood forecasting is very important for flood preparedness and it should be expanded extensively across the country using the real time data acquisition system linked to forecasting models. He felt that efforts should be focused on developing physical models for various basin sections and urban centres and the big data on the same needs to be collected and analyzed for accurate prediction of rainfall and likely flood-prone areas in the urban centres. Earlier, Mr Devendra Gill, Chairman of the Centre, welcomed the dignitaries, Corporate Members of IEI and other participants to this program. Mr Gill also briefed about the efforts been made by two associated organisations to comprehensively cover all the aspects of urban flooding for the benefit of various stakeholders. Mr Praveen Kumar Singh, Honorary Secretary of the Centre, proposed the vote of thanks. Papers on various sub-themes were presented and discussed by the experts in the field during technical sessions.

From the President's Desk.....



I am delighted to note that a lot of technical activities of our Centres are now focussed on the contemporary need of industries. The 'Make in India' initiative of Government of India aimed at making our country a manufacturing hub depends on the deepening of the academia-industry alliance. Industry needs bright, talented and well-prepared graduates to join the workforce, while academia requires insight into industry's needs to ensure that it can develop a future workforce to meet those needs. A professional organisation like IEI which is linked to both industry and academia is the most suitable platform to bridge the gap. By organising more seminars / conferences on contemporary industry-related issues and involving academic persons in those, IEI has taken a lead role towards supplementing the initiative of the government policy. In recent time, we have organised National Convention of Production Engineers on the theme 'Improving Competitiveness in Manufacturing – Make in India to Made in India' at Ranchi, Seminar on 'Emerging Trends in VLSI & Nano-electronics' at Agartala, Lecture meeting on 'Modern Aerodynamic Technologies to Improve Aircraft Performances' at Tiruchirapalli, Seminar on 'Use of New Building Materials in Construction' at Lucknow, All India Seminar on 'Membrane Based Separation Technology for Water Resource Management in Chemical Process Industries' at Kolkata, All India Seminar on 'Fundamentals and Trends in Additive Manufacturing' at Ahmedabad and many others at our Centres spread all over the country. Programmes like National Convention of Chemical Engineers on 'Nano-technology and its Application for Sustainable Development in Chemical Industries' at Pune, All India Seminar on 'Safety Management and Energy Conservation in Process Industries' at Hyderabad, and many others will be organised in the near future to enhance IEI-Industry interaction. It clearly indicates the commitment of IEI to foster the industry-academia synergy which is the most vital ingredient for the success of the 'Make-in-India' programme.

Apart from the above, I would again like to stress upon the importance of inclusion of more women engineers in the activities of IEI. Recent trends suggest more and more women are participating in the growing technology sector in India and they are confident, open to working with others and respected at their workplace. IEI should be the harbinger to ensure women empowerment in the engineering sector and organise appropriate technical activities to engage increased number of participation from women engineers of our country.

Digital and Automation Entry into the Future Factories

Telangana State Centre of the Institution in association with the Department of Mechanical Engineering (Mechatronics), Mahatma Gandhi Institute of Technology (MGIT), Hyderabad, organized a two-day All India Seminar on the topic 'Digital and Automation Entry into the Future Factories' under the aegis of Production Engineering Division, IEI, during July 14-15, 2017 at Hyderabad. The Chief Guest, Mr Mohammed Ziauddin, Chief Engineer and Chief General Manager, Hyderabad Metro Rail Limited, Hyderabad, in his inaugural address, stressed the need for digitalization and automation in the factories. He mentioned that automation has been adopted in Hyderabad Metro Rail and the communication and safety features have also been incorporated in the trains to avoid accidents. He emphasized the necessity to develop indigenous technologies as most of the items and systems of the Metro Rail are imported. He urged the budding engineers that the 'Make in India' initiative has to be transformed to 'Made in India' by developing the technologies in India, so that, other countries may also use our indigenous technologies. Mr Sathaiyah Potana, Vice President, Satyam Venture Engineering Services Pvt. Ltd (Satven), in his Keynote Address, appraised the participants about the implementation of digitalization and automation in automobile manufacturing industries. He also spoke about new technologies, viz. 3D printing, nanotechnology, IIoT, flexible automation, robotics adopted by Satven in providing engineering services to world's top automobile OEMs. Earlier, Mr G Rameswara Rao, Honorary Secretary of the Centre, welcomed the gathering and Dr A Jagannadha Reddy, Convener of the Seminar, informed the participants about the details of the Seminar. Dr S Satyanarayana, Chairman of the Centre, presided over the programme and enlightened the gathering about the importance and relevance of chosen the theme for the Seminar in the existing production environment. The function concluded with the vote of thanks proposed by Dr G Chandra Mohan Reddy,

Principal, MGIT and Chairman, Technical Committee of the Seminar. Papers embracing the theme of the Seminar were presented and discussed during technical sessions. From various deliberations, it was revealed that in order to realize the 'Make in India' initiative, Indian Industry has to adopt the concept of 'Future Factories' by way of digitalization and automation of its operations which will contribute in enhancing the economical development of the country on one side and providing job opportunities to young talents on the other. Reputed organizations, like, Satven, Hitachi Consulting etc., operating from Hyderabad are implementing IIOT for OEMs across the Globe. During Valedictory Session, the Chief Guest Mr A Joseph, Scientist 'H', Outstanding Scientist and Programme Director, Advanced Naval Systems Programme,



DRDL, Hyderabad, informed the gathering about the Industry 4.0 revolution and the new technologies adopted by DRDO to design and manufacture various types of missiles. He advised IEI to guide and train the MSMEs to adopt the latest technologies and become world class manufacturers. The Guest-of-Honour, Dr Ravikumar Jain, Director, Symbiosis Institute of Business Management, Hyderabad, emphasized the need for the technocrats to respond to changing technological challenges. The other Guest-of-Honour, Mr Sandeep Jain, General Manager, India Government Mint, Hyderabad, enlightened the gathering about the paradigm shift in manufacturing and service sector with the adoption of information and computer technology.

Membrane Based Separation Technology for Water Resource Management in Chemical Process Industries

West Bengal State Centre of the Institution organized a two-day All India Seminar on the topic 'Membrane Based Separation Technology (MBST) for Water Resource Management in Chemical Process Technology' under aegis of Chemical Engineering Division of IEI during May 19-20, 2017 at Kolkata. Mr Kasmir Lal Mallik, Chairman of the Centre, welcomed the august gathering. Prof Sarajit Basu, Chairman, Chemical Engineering Division of the State Centre, IEI, emphasized on the theme and sub-themes of the Seminar. The Chief Guest, Dr Dhrubojyoti Ghosh, Distinguished Ecologist, in his Keynote Address, highlighted the importance of wetland in Water Resource Management [WRM] in the treatment of wastewater (including Municipal Sewage) stabilization by the natural self-purification process along with aquifer ground water recharging and resource recycling for reutilization through pisciculture and agriculture. He presented the details of East Kolkata Wetland as an illustration of wetland utilization which has been recognized by the international body as Ramsar site in 2002 and declared as



the largest and most important wetland utilization centre (in WRM) of the world by the UNO. The Guest-of-Honour, Prof (Dr) Asis Kr Ghosh, former Director, Zoological Survey of India (GOI), elaborated on regional water distribution problems amongst the upstream and downstream states of the river basin of large rivers and stressed the need for a rational and appropriate legal agreement for water sharing. Prof N K Brahma, former Professor, IIT Kharagpur and Convener of the Seminar, highlighted the problems associated with population explosion and global water crisis management through MBST. Experts in the field presented technical papers embracing the theme of the Seminar. Prof (Dr) Amit Chakrabarty, Director, IGE, W B University of Technology, spoke about water borne diseases caused due to sanitation. Dr S N Roy, former Principal Scientist and Head, Ceramic Membrane Division of CSIR, CGCRI, Kolkata, spoke about the development of Ceramic Membrane with long service life, high permeate flux and robust mechanical sturdiness together with high thermal stability. Dr Sivabrata Chatterjee, Distinguish Scientist, Engineer (Ex CPCB), Govt. of India, emphasized the need for disposal of concentrate stream from sea water utilization plant (by RO/NF) with recovery of salt by solar evaporation followed by drying as cost-effective technology.

Felicitation of President, IEI



Jharkhand State Centre felicitates Mr Navinchandra B Vasoya, President, IEI on July 22, 2017



Durgapur Local Centre felicitates Mr Navinchandra B Vasoya, President, IEI on July 13, 2017

Methods of Computations in Fluid Flow, Heat and Mass Transfer Problems

Karnataka State Centre of the Institution in association with the Acharya Institute of Technology (AIT), Bengaluru, organised a two-day All India Seminar on the theme 'Methods of Computations in Fluid Flow, Heat and Mass Transfer Problems', under the aegis of Aerospace Engineering Division, IEI, during March 14-15, 2017 at Bengaluru. Dr S K Maharana, Convener, Dean (R&D), Professor & Head, Department of Aeronautical Engineering, AIT, Bengaluru, stated that the objective of the Seminar is to introduce the fundamentals of important computational methods for solving heat and mass transfer and fluid flow problems, finite difference and finite element methods. He mentioned that the Seminar is expected to help the students, faculty members, researchers in understanding thoroughly the basic concepts and procedures of fluid dynamics, heat and mass transfer; implementing computational methodology into a computer code and in solving more complex problems on their own. The Chief Guest, Dr Suresh Madhusudan Deshpande, Senior Research Associate, Engineering Mechanics Unit, JNCASR Jakkur, Bengaluru, delivered lecture on 'Evolution of CFD from Early 1960 Till Date'. He mentioned that the objective of this work was to design an integrated wing-propeller system, so that, the wing exploits propeller aerodynamic characteristics for improved performance. He also spoke about various aspects, such as, validation of novel wing designs, need a code which has propeller capabilities, propeller being modelled as rotating actuator disk with sources coming from blade element module, blade element module coupled to the Euler code, etc. Experts in the field, from reputed institutions/organization attended the Seminar and addressed the gathering. Dr Sekhar Majumdar, Head, Centre for CFD, Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, discussed two major aspects of CFD - how to handle complex geometry of arbitrary shapes and secondly how to simulate the kaleidoscopic phenomenon of transition and turbulence in fluid flow and heat transfer problems. He also spoke about R&D activities in this field which focused on the development of general purpose CFD codes for analyses of low speed turbulent flow problems in complex configuration. Dr N Balakrishnan, Associate Professor, Aerospace Engineering, IISc,



Bengaluru, explained the experimental methods to find out the ground effects during takeoff and landing. Dr V Ramesh, Joint Head CTFD & Professor, AcSIR Senior Principal Scientist, CTFD Division, CSIR, NAL, Bengaluru, delivered lecture on 'Mesh Free Methods in CFD for Aerospace Applications'. He described the mesh free methods for CFD and worked out large number of numerical solutions for 2D/3D steady flows, unsteady flows and flutter computations. He has also developed pre-processor tool which can be used as a store separation suite to solve mesh free CFD problems. Dr Madhukar M Rao, Technical Director, ACRI Infotech Pvt. Ltd, Bengaluru, in this lecture, spoke about various aerosol particle transport which were studied through CFD modelling. The objective of his work was to develop accurate and fast numerical solution for aerosol nucleation, growth, coagulation, transport and deposition. Dr S K Maharana, Dean (R&D), Professor & Head, Department of Aeronautical Engineering, AIT, Bengaluru, delivered lecture on 'Computation of Turbulent Wind Flow around two Building Models in Tandem Arrangement'. He mentioned that there are many emerging issues to be solved, not only in wind hazard mitigation, but also in air contamination problems near and in the far field of buildings, and in natural/cross ventilation or wind energy phenomena to preserve natural resources and to realize a sustainable society. He felt that computational fluid dynamics (CFD) is one of the promising technologies for investigating these important issues which will not necessarily be solved by traditional wind tunnel technology. 'Large Eddy Simulation Technique (LES) can also be used to predict the flow physics- external and internal flow in the buildings, interference effects, drag forces, vortex flow and shedding when a neighbouring building is present close to the sloping roof structure' added Dr Maharana. Ms Sajna Parimita Panigrahi, Assistant Professor, Department of Mechanical & Automobile Engineering, Faculty of Engineering, Christ University, Bengaluru, delivered lecture on the topic 'Review of Airflow through Unglazed Transpired Solar Collector (UTC)'. She successively reviewed the theoretical studies, numerical studies, experiment simulation, implementation studies and applications and finally compared a transpired roof collector with a roof collector with no transpiration. Ms Panigrahi mentioned that unglazed transpired collectors (UTC's) are now a well-recognized solar air heater for heating outside air directly and they are the key components in many engineering applications, such as, in institutional and residential heating, industrial processes like sewage wastewater treatment and food processing.

Damage Assessment and Advanced NDE Techniques for Industrial Applications

Durgapur Local Centre of the Institution organized a two-day All India Seminar on the theme 'Damage Assessment and Advanced NDE Techniques for Industrial Applications' under the aegis of Metallurgy and Materials Engineering Division, IEI during July 15-16, 2017 at Durgapur. The dignitaries graced the occasion included Dr Amit Ganguly, Professor Steel Chair, NIT, Durgapur, Chief Guest; Mr A K Saxena, Council Member, IEI, Guest-of-



Honour; Prof (Dr) N R Bandyopadhyay, IEST, Shibpur, Howrah & Council Member, IEI, Guest-of-Honour; and Dr P C Chakraborty, Head, Metallurgical and Material Engineering Department, Jadavpur University, Kolkata, Guest-of-Honour. Mr R K Roy, Chairman of the Centre, presided over the inaugural session. At the outset, he welcomed the dignitaries and the participants and elaborated the theme of the Seminar punctuated with his experience highlighting some case studies. The Chief Guest and Keynote Speaker, Dr Amit Ganguly, Professor Steel Chair, NIT, Durgapur, in his address, highlighted the advances in Science & Technology and concurrently in analytical techniques to evaluate properties of materials/components/systems without causing any damage. He briefly explained various methods of NDT which are in use and stated that the plants need to sustain uninterrupted operation and eliminate unplanned outages. He mentioned that utilizing NDE to ensure quality without harming health of the system/components is a cost-effective step towards in-service inspection and condition monitoring. His presentation continued

with the explanation of advanced techniques which include Phased Array Ultrasonic Testing (PAUT), Infrared Thermography, Ultrasonic Time of Flight Diffraction Technique (TOFD), Remote Visual Inspection (RVI), Robotics, Holography, Shearography and others. On reliability aspects, Dr Ganguly felt that comparison of NDT methods is significant only if we are referring to the same task. He concluded with the view that analyzing and documenting non-destructive failure mode can also be accomplished by high speed camera, recording continuously until the failure is detected. The Guest-of-Honour, Prof (Dr) N R Bandyopadhyay, IEST, Shibpur, Howrah & Council Member, IEI, in his theme address, stated that the premature failure of the industrial components and/or useful life due to in-service damage is a widespread occurrence. 'The phenomenon like creep, fatigue, oxidation and erosion are the causes of damages of the materials to the significant extent' he added. Prof Bandyopadhyay further mentioned that nondestructive testing and evaluation (both conventional and advanced) techniques are the major tools for such damage assessment and characterization of the damage to ensure the structural integrity of the engineering components in the industries. He clarified that in terms of methods and techniques, the nondestructive testing modalities rely on different physical phenomena, such as, the electromagnetism, the acoustic emission, the thermal emission and the penetration of high-energy radiation through materials and structures. A Souvenir was brought out on this occasion which was released by the Chief Guest and other dignitaries. Papers embracing the theme of the Seminar were presented and discussed during technical sessions. The Guest-of-Honour Dr P C Chakraborty, Head, Department of Metallurgical and Material Engineering, Jadavpur University, Kolkata, delivered invited lecture on the topic 'Fatigue and Creep Damage of Materials'. He mentioned that failure of engineering components and structures occurs due to various reasons and among them failure occurring due to fatigue and creep damage is of major concern. Mr D Sarkar, Chief Engineer of Test Metal Corporation Group, discussed case studies on 'Failure Analysis & Reusability Study of Pylon Erection Crane of 2nd Hooghly River Project after Overload Failure at Howrah End'. Mr K J Uke, Principal Scientist, CMERI, Durgapur, delivered invited lecture on 'Fault Diagnosis of Rotating Machines'. He discussed on machinery fault diagnosis and system health monitoring that are performed on system. The monitoring techniques like vibration analysis, thermography, acoustic emission, wear/debris monitoring, lubricant analysis, process measurements are stated to be used. The programme was concluded with the vote of thanks proposed by Mr M N Bandyopadhyay, Honorary Secretary of the Centre.

World Telecommunication and Information Society Day 2017

Theme : Big Data for Big Impact

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

State Centre

Jharkhand

Mr Sanjay Sen, Chairman of the Centre, welcomed the dignitaries and apprised about the use of Information Technology by the Centre. On this occasion, Mr Sen inaugurated the free Wi-Fi facilities for the students and for the members of the Centre. The Chief Guest, Mr S R Mitra, Joint General Manager, MECON Limited, Ranchi, emphasized the need of handling large data not only in commercial use in telecom sector but also in the industrial applications, like, steel plants, power plants etc. 'The technologies were upgraded, automation is increased which there by increase in installation of



various instruments and these instruments will generate huge volume of data that need to be analyzed and fed to the respective heads of the organization for successful running of a plant' opined Mr Mitra. Mr Vikas Kumar, Project Coordinator, TCIL, New Delhi, in his presentation, highlighted the importance of volume, velocity and variety of data being used and generated presently by individuals and the industries. He also emphasized the importance of storing the data and analyzing the same for better utilization. Mr Suraj Bhattacharjee, Enterprise Head, Jharkhand Reliance Jio Infocom Limited, spoke about data connectivity and role of Reliance Jio and its importance for the society for handling big data. He pointed out that low-cost data connection with sustainable connectivity is utmost importance in now-a-days. Mr M R Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.

Local Centre

Upper Assam

Mr Amitava Dasgupta, Chairman of the Centre, addressed the gathering on the topic 'Big Data for Big Impact'. The dignitaries graced the occasion included Mr S N Seal, Chief Manager/Project Officer, North Eastern Coalfields, CIL, Margherita, Assam, as the Chief Guest; Mr S Dutta, DGM [Production], Oil India Ltd., Duliajan, as the Guest-of-Honour and Mr Dibakar Bhattacharjee, Ex DGM [Mat. & Cont.], IOCL (AOD), Digboi, as the Keynote Speaker. All the dignitaries delivered their speeches embracing the theme of the day. Earlier, Mr Amit Borthakur of North Eastern Coalfields, CIL, Margherita, Assam, welcomed the Chief Guest and other dignitaries. A Technical Session on the main theme was organized on this occasion where papers were presented and discussed by the experts in the field. The function concluded with a vote of thanks proposed by Mr Amit Borthakur.

164TH Birthday Ceremony of Sir Rajendra Nath Mookerjee Celebrated

Sir R N Mookerjee Engineering Information Service Centre of IEI celebrated the 164th Birthday Ceremony of Sir Rajendra Nath Mookerjee, the first Indian President of the Institution on June 23, 2017 in a big way at Kolkata. The function was inaugurated by Mr S C Rudra, Vice President, IEI and Chairman, Sir R N Mookerjee Engineering Information Service Centre along with Mr Sisir Kumar Banerjee, Council Member, IEI and Dr Anil Kumar, Deputy Director General, IEI. Dr Anil Kumar, in



his welcome address, shared that Sir R N Mookerjee was the President of Indian Science Congress in 1921 and 1931 and the first Indian President of The Institution of Engineers (India) during the session 1920-21. He also informed that the Calcutta University conferred upon him the Honorary Degree of D.Sc. (Engineering) and was knighted by the British Empire for his great contribution to the plan, design and construction of the Monument – Victoria Memorial at Kolkata, one of the great heritage monuments of the city. Mr S C Rudra, highlighted various contributions of Sir R N Mookerjee and mentioned that he worked tirelessly for all-round development of the society and the country. Mr Sisir Kumar Banerjee stated that Sir Mookerjee laid down foundations of various industries in West Bengal, like, Martin Burn & Co, Indian Iron & Steel Company at Burnpur and Martin Light Railways. Mr Tarun Kumar Rana, Editor of the Book 'The Legendary – Sir Rajendra Nath Mookerjee', shared his research findings on the life and contributions of Sir R N Mookerjee to the society, industry and technical profession. A large number of engineers and intellectuals graced the occasion and shared their thoughts about valuable contributions of Sir R N Mookerjee towards engineering fraternity.

NEWS-IN-BRIEF

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

STATE CENTRES

Andhra Pradesh

- Technical Visit to "Pattiseema Lift Irrigation Project and Polavaram National Project" on July 8, 2017.
- Workshop on "Polavaram National Project – Vision to Execution" in commemoration with 116th Birthday of Padmabhushan Dr K L Rao on July 15, 2017.

Assam

- Seminar on 'Implementation Challenges of Smart Cities in North-Eastern India' in collaboration with Tripura State Centre on July 16, 2017.

Chhattisgarh

- Lecture on 'Healthy Financial Aspects' delivered by Mr Pradeep Narayan Mishra, Branch Head, Exide Life Insurance on July 8, 2017

Delhi

- Lecture on 'Role of Ethics in Engineers Profession' delivered by Mr Pankaj Manipal, Director, Training & Development, R V Institute of Technology, Bijnore organized in association with Safety & Quality Forum [SQF], IEI on June 10, 2017.
- 24th Dr S P Luthra Memorial Lecture on the topic 'Quality of Engineering Education: The Need for Introspection' delivered by Prof Prem Vat, Pro-Chancellor, Professor of Eminence & Chief Mentor, The Northcap University, Gurugram, Haryana, on July 27, 2017.

Gujarat

- Workshop on 'Intellectual Property Rights, Trade Mark and Patents' on July 15, 2017.

Jharkhand

- Workshop on 'Communication Skills for Engineers' on June 18, 2017.
- Celebrated '56th Foundation Day' of the Centre on July 22, 2017.

Kerala

- Lecture on 'Vizhinjam International Sea Port – Vision towards Reality' delivered by Dr Jayakumar, Managing Director and CEO, Vizhinjam International Seaport Limited on March 1, 2017.
- Lecture on 'Power Scenario in Kerala – Problems and Solutions' delivered by Mr K Madhavan Pillai, Retired Chief Electrical Inspector on March 8, 2017.
- Lecture on 'Indian Housing Projects in Sri Lanka' delivered by Mr Justin Mohan, Director, Department of Soil Survey & Soil Conservation, Government of Kerala on March 15, 2017.
- Lecture on 'Role of IEI in Engineering Education and Professional Development' delivered by Dr Jitendra Saxena, Director, Education, Examinations & Accreditation (EEA), IEI, Kolkata on March 17, 2017.
- Celebrated 'World Water Day' on March 22, 2017.
- Lecture on 'Evolution of Technology in Bringing out New Kinds of Aircrafts like Propeller Aircrafts, Jet Aircrafts and Rockets' delivered by Mr. Sheeju Chandran, Deputy Project Director, Human Spaceflight Project, VSSC, ISRO on March 29, 2017.

Madhya Pradesh

- Lecture Meeting on 'Disaster Management' in association with Tripura State Centre, IEI on July 7, 2017.

Tamilnadu

- Lecture on 'Domestic Waste Water Treatment' delivered by Dr A Abdul Rahman, Professor, Department of Mechanical Engineering, Sri Sairam Engineering College, Chennai on June 14, 2017.

- Ar F B Pithavadan Memorial Lecture on the topic 'Low Cost Housing' delivered by Dr S R R Senthil Kumar, Principal, Agni College of Technology, Chennai on July 15, 2017.

Telangana

- Seminar on 'Optimal Use of Water Resources in Telangana State' on July 11, 2017.
- Celebrated 116th Birthday of Padmabhushan Dr K L Rao on July 15, 2017.

Tripura

- Seminar on 'Stress Management' on June 25, 2017.

Uttar Pradesh

- Seminar on 'Potential of Green Energy in India and its Harnessing Plan' on July 23, 2017.

LOCAL CENTRES

Ahmednagar

- Lecture on "Green Tribology" delivered by Prof [Dr] R R Navthar, Dean (Academics), Dr Vithalrao Vikhe Patil College of Engineering, Ahmednagar on July 12, 2017.
- Visit to 'Madhuban Farm' on July 22, 2017.

Belapur

- Lecture on 'Fire Resistance in RCC Structure' delivered by Dr Sanjay Koyande, CMD-CCRT Group on June 23, 2017.
- Lecture on "Winning Attitude" delivered by Mr Arun C Bandodkar on July 15, 2017.

Indore

- Lecture on 'General Water Management Issues in Various Fields - National and International Perspective' delivered by Prof [Dr] S M Narulkar on July 14, 2017.

Jamshedpur

- Workshop on 'Recent Innovation in Electrical and Electronics Engineering' on June 20, 2017.

Kalaburagi

- Lecture on 'Utilization of Foundry Waste Sand in the Preparation of Concrete' delivered by Dr Suresh G Patil, Professor, PDA College of Engineering, Kalaburagi on July 26, 2017.

Kalpakkam

- Lecture on 'Introduction of Sodium and Sodium Handling' delivered by Mr S Chandramouli, Head, ROS, DD&RSD, FRTG, IGCAR on July 28, 2017.

Kanchipuram

- Workshop on 'Emerging Trends in Higher Education' on June 24, 2017.
- Office Building of the Centre inaugurated by Mr T M Gunaraja, Council Member, IEI on June 24, 2017.
- Website of the Centre launched by Dr G Ranganath, Chairman, Tamilnadu State Centre, IEI on June 24, 2017.
- Newsletter of the Centre released by Dr K Sivakholundu, Vice Chancellor, Indian Institute of University, Chennai on June 24, 2017.
- Seminar on 'Ethical Hacking' on July 22, 2017.

Kanyakumari

- Lecture on 'Recent Trends in Renewable Energy' delivered by Dr T Sree Renga Raja, Professor, University College of Engineering, Nagercoil on July 22, 2017.

Kota

- Lecture Meeting on 'Jal Swavlamban Abhiyan - A Dream Project of Government of Rajasthan' on July 15, 2017.

Madurai

- Lecture on 'Machine Learning: Linear Regression' delivered by Dr R Rajaram, Former Dean, CSC, IT and MCA, Thiagarajar College of Engineering, Madurai on July 29, 2017.

Meerut

- Lecture on 'Modern Welding Techniques' delivered by Mr Sadat Ali, Committee Member of the Centre on July 30, 2017.

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World Environment Day 2017

Theme : Connecting People to Nature



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

State Centres

Bihar

Mr Ashok Kumar Sinha, Chairman of the Centre, welcomed the dignitaries and participants and introduced the theme of the day. The Keynote Speaker, Prof Mohammad Jawed, IIT, Guwahati, delivered a vivid lecture on the theme 'Connecting People to Nature'. He mentioned that people may live long and better life by connecting themselves with the nature. Dignitaries including Dr Arun Kumar Srivastava, Council Member, IEI; Mr Ajay Kumar Sinha, Past Chairman of the Centre; Mr Kishore Kumar, Chairman, SDF, IEI attended the programme. Mr Ramashish Sharma, Past Honorary Secretary of the Centre, conducted the function and proposed the vote of thanks.



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Jharkhand

Mr Sanjay Sen, Chairman of the Centre, in his welcome address, stated that the theme chosen for this year, implores us to get outdoors and into nature, to appreciate its beauty and its importance and to take forward the call to protect the Earth that we share. The Guest-of-Honour, Mr S Ganesh, President, ISHRAE, Ranchi Chapter, explained that the need of the hour is to come out of all the gadgets which are connecting people to the digital society and should connect to the nature and enjoy the beauty for rejuvenating the human body and the soul. Mr S Mitra Mazumdar, AGM, RDCIS, SAIL, in his Keynote Address on the theme, stressed on conservation of natural resources and protection of environment. Another Keynote Address was delivered by Mr Balkrishna Bisoyi, Sr. Manager, CET-SAIL on the topic 'Granulation of Blast Furnace Slag – A Key to Environmental Protection & Sustainable Development'. He mentioned that this slag not only protects our environment but also generates revenue for sustainable development. The programme concluded with the vote of thanks proposed by Mr R K Kumar, Honorary Secretary of the Centre.



Uttarakhand

Mr R S Chauhan, Chairman of the Centre, in his welcome address, highlighted the importance of World Environment Day. He mentioned that the theme 'Connecting People to Nature' implores us to go outdoors and appreciate nature's beauty and importance and take forward the call to protect the planet Earth. He further stated that the day is an occasion to think how we are a part of nature and how intimately and unequivocally we depend on it for our survival. Dignitaries present on the occasion included, Mr C M Dimri, Past Chairman of the Centre, Mr Sunil Kumar, Mr A C Goel, Mr Ram Shanker, Mr D C Arora and other Executive Members of the Centre.

West Bengal

The Chief Guest and theme Speaker, Dr Kalyan Rudra, Chairman, West Bengal Pollution Control Board, Kolkata, in his address, stressed on the urgent need to create awareness on the importance of nature in human life. In his address, Dr Rudra covered various aspects which are affecting nature and environment, such as, air pollution, bio-diversity, global warming, rising of sea level, deforestation, water pollution, etc. He explained the status of ecological footprint which is so frightening that extinction of living being on earth seems



round the corner. Earlier, Mr Anik Roy Choudhury, Past Chairman of the Centre, welcomed the august gathering and Mr Sujit Bhattacharya, Chairman, Environmental Engineering Division of the Centre, presented the history of World Environment Day. Mr Avinash Singh, Convener, Environmental Engineering Division of the Centre, proposed the vote of thanks.

Local Centres

Dharwad

Mr S M V Narayana, Chairman of the Centre, presided over the function. Dr Prakash Bhat, Chief Executive Officer, SCOPE, Dharwad, graced the occasion as the Chief Guest. He spoke about how the earth's surface is getting hot day by day and unusual rise in the level of carbon dioxide in the atmosphere. 'It has become one of the subjects of big social issues which need social awareness to a great level', opined Dr Bhat. He felt that people should know its meaning, causes, effects and solutions to solve it. Earlier, Mr Vijay H Totiger welcomed the gathering. The programme was concluded with the vote of thanks proposed by Prof (Dr) Ramesh L Chakrasali, Honorary Secretary of the Centre.



Durgapur

Mr R K Roy, Chairman of the Centre, welcomed the guests and highlighted the significance of observing the day. The Chief Guest, Mr T S Reddy, General Manager, ISP-DSP Plant Centre, SAIL, RDCIS, in his address, explained that any reduction in energy consumption leads to reduction in GHG emissions and that leads to cleaner environment, which is a part of sustainable development. He discussed about some of the key innovations in R&D viz. Curtain Flame Ignition Technology, BF gas burners for Boilers and WHRS at Sinter Plant which have helped to reduce CO₂ emissions. The Guest-of-Honour, Mr M K Mondal, DFO, Durgapur Division, West Bengal, highlighted that billions of rural people around the world are 'connected to nature' and dependent on natural water supplies and livelihoods provided by the nature. He cautioned that they are among the first to suffer when ecosystems are threatened, whether by pollution, climate change or over-exploitation. The other Guest-of-Honour, Prof (Dr) Susmita Dutta, Chemical Engineering Department, NIT, Durgapur, gave a presentation on 'CO₂ Sequestration with Special Emphasis on Phycosequestration: A Way to Mitigate Global Warming'. Mr M N Bandyopadhyay, Honorary Secretary of the Centre, proposed the vote of thanks.



Kanchipuram

The Chief Guest, Dr Sultan Ahmed Ismail, Director, Eco-Science Research Foundation, Chennai, gave an inspiring speech on importance of conserving earth and its natural resources. He explained this year's Environment Day theme 'Connecting People to



Nature' and stressed on the need of the projects which are useful to the society. He also spoke about hazards due to adulteration of soil and food related products and urged to create mass awareness in this respect. Earlier, Dr R Venkatesan, Chairman of the Centre, welcomed the gathering. Dr S R R Senthil Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.

Major Advances and Sustainable Developments in Production Engineering

Jamshedpur Local Centre of the Institution organized a two-day All India Seminar on the topic 'Major Advances and Sustainable Developments in Production Engineering' under the aegis of Production Engineering Division, IET during July 15-16, 2017. Mr Avneesh Gupta, Chairman of the Centre presided over the function. The Chief Guest, Mr B K Das, Vice President Iron Making, Tata Steel, delivered lecture on 'Condition Monitoring and Sustainable Development'. He mentioned that to increase the efficiency of the machines, it is essential to monitor the status/health of the machines continuously. He further stated that in future, machines will be manufactured with in-built sensors. Mr Das felt that it is the prime duty of engineer to keep the earth in good and healthy condition for our future generation. The Guest-of-Honour, Mr Amitava Bakshi, Chief Procurement Officer, Tata Steel, delivered keynote lecture on 'Supply Chain Management and Sustainability'. He mentioned that supply chain management is one of the key factors to enhance the productivity of the industry. The other Keynote Speaker, Dr P Paul, Senior Programme Manager, Tata Technologies, mentioned that both productivity and sustainability are equally important and they are not opposite to each other but complementary to each other. He spoke about various parameters of Digital Product Development System (DPDS), Tooling Lifecycle Management, Prototype Lifecycle Management, Interchange Ability of Digital Product Data, Collaborative Visualization and Digital Safety, Health & Environment, etc. Dr A K Choudhary, Honorary Secretary of the Centre, delivered Keynote Lecture on 'Sustainable Development'. He stressed on conservation of precious natural resources by adopting a sustainable life style. He cited many case studies regarding adverse effects of un mindful exploitation of natural resources on the environment. Dr Choudhary further emphasized that each one of us must contribute to protect our environment from increasing population and it should be converted in to a mass movement through greater public awareness. Dr R V Sharma, Professor



of Mechanical Engineering, NIT, Jamshedpur, delivered Keynote Lecture on 'Global Warming and Green Effect'. He discussed the parameters and activities responsible for increasing greenhouse effects. He stressed on using earth heat exchanger in place of air conditioner. Dr Shalendra Kumar, Organising Secretary and Mr Dinesh Kr Prasad, Jt. Organising Secretary also spoke on this occasion. A large number of participants from industrial organizations and educational institutions actively participated in the Seminar. Research scholars from various institutions like ISM, Dhanbad; NIT, Jamshedpur and from industries like Tata Technologies, Tata Motors, Tata Steel presented their papers on various sub-themes of the Seminar during the technical sessions.

NEWS-IN-BRIEF

Contd. from page 5

Mysore

- Lecture on '2x800 MW Yeramarus Thermal Power Plant – Supercritical Technology' delivered by Mr V Venkatakrishnan, Chief Operating Officer, Raichur Power Corporation Ltd (RPCL) on July 6, 2017.
- Lecture on 'Nanotechnology in Food Processing and Packaging' delivered by Ms Rashmi H B, Assistant Professor [PHT], College of Horticulture, Mysore, University of Horticulture Sciences, Bagalkot on July 13, 2017.

Palghat

- Organized Technical Visit to 'Drilling Site of Kuthiran, Peechi Dam and Mangalam Dam' on July 23, 2017.
- Lecture on 'Nanotechnology – An Introduction' delivered by Dr Bindu Salim, Professor in Electronics and Communication Engineering, Flexible Electronics Group, PSG Institute of Advanced Studies, Coimbatore on July 27, 2017.

Roorkee

- Workshop on 'Leadership and Skill Development among Youth' on July 24, 2017.

Rourkela

- Lecture on 'Introduction to Medical Imaging, Challenges and Possible Solutions' delivered by Dr Dipti Patra, Associate Professor, Department of Electrical Engineering, NIT, Rourkela on July 14, 2017.
- Lecture on 'Causes and Consequences of Environmental Degradation' delivered by Mr P C Dash, Deputy General Manager, Environmental Stream, Rourkela Steel Plant, Rourkela on July 26, 2017.

Salem

- Seminar on 'Resilient Electric Mobility with Sustainable Energy Sources' on June 23, 2017.
- Seminar on 'Big Data Analytics' on July 7, 2017.

Saurashtra

- Lecture Meeting on 'Cyber Security and Cyber Crime' on July 19, 2017.

Tiruchirapalli

- Lecture on 'Comfort Properties of Textile Materials' delivered by Mr G Suganth on June 27, 2017.
- Lecture on 'Computerization of Library Transaction' delivered by Mr S Rajagopal on July 11, 2017.
- Lecture on 'Introduction to CALPHAD' delivered by Dr K Santhy on July 25, 2017.

Upper Assam

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

Overseas Chapters

Kuwait Chapter

- Lecture on 'Career Advancement for Engineers – A Holistic Perspective' delivered by Mr Sunil Pullarcot, Senior Engineer, Kuwait Oil Company on July 17, 2017.

Munirabad

The Guest Speaker, Ms Ashwini R, Assistant Professor, RYM Engineering College, Bellary, delivered an impressive lecture on the topic 'Connecting People to Nature'. She narrated the origin of World Environment Day and explained the importance of environment. She also explained in detail with facts and figures about various issues related to environment. Earlier, Mr T H M Somashekhar, Past Honorary Secretary of the Centre, welcomed the Chairman, Guest Speaker and other participants. Mr Rajasekhara Gowd P, Honorary Secretary of the Centre, also addressed the gathering. Mr R S Kadagad, Executive Committee Member of the Centre, presented a brief lecture on Environment Day. He also proposed the vote of thanks.

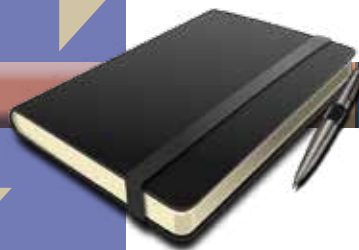


Mr R S Kadagad, Executive Committee Member of the Centre, presented a brief lecture on Environment Day. He also proposed the vote of thanks.

Upper Assam

The celebration started with lighting of lamp and planting of saplings by the Chief Guest, Guest-of-Honour and Chairman and Honorary Secretary of the Centre. Mr Diganta Kumar Dutta, Immediate Past Chairman of the Centre, welcomed the participants and elaborated the theme of the day. The function was graced by the presence of Mr H K Changani, General Manager, NEEPCO as the Chief Guest and Mr S Tamuli, Deputy General Manager, AGCL as the Guest-of-Honour. Both the dignitaries delivered their speeches embracing the theme of the day. Experts in the field presented their papers on various sub-themes during the technical session. The function was well attended by the Corporate Members of the Centre and engineering professionals from different organizations, such as, Oil India Ltd., NEEPCO, AGCL, APL and BVFCL. Mr Diganta Goswami, Senior Manager [E/M], AGGBP, NEEPCO, Duliajan, proposed the vote of thanks.

IEI DIARY



Aerospace Engineering Division

One Day Seminar on 'Aerodynamic Characteristics for Rarefied Flows'

Salem, August 21, 2017

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

One Day Seminar on 'The Study of Aerospace Engineering'

Udaipur, September 30, 2017

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

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

Chennai, November 03-04, 2017

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

All India Seminar on 'Smart Materials and the Applications to Aerospace, Mechanical and Civil Structures'

Salem, December 12-13, 2017

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

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

Ranchi, October 27-28, 2018

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

Agricultural Engineering Division

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

Kolkata, August 19, 2017

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

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

Kota, August 26-27, 2017

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

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

Chennai, September 16-17, 2017

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

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

New Delhi, February 2-3, 2018

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

Architectural Engineering Division

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

Hosur, August 18-19, 2017

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

International Conference on "Architectural Innovations: Technology and Materials"

Jaipur, October 6-8, 2017

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

All India Seminar on "Architectural Technologies for Building Engineers"

Kozhikode, October 14-15, 2017

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

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

Hyderabad, November 10-11, 2017

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

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

Kozhikode, November 20-25, 2017

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

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

Salem, January 19-20, 2018

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

Chemical Engineering Division

One Day Seminar on 'Industrial Biotechnology and its Application'

Hosur, August 11, 2017

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

One Day Seminar on 'Self-assembly of Soft Materials and their Application in Energy'

Ananthapuram, September 01, 2017

The Honorary Secretary, IEI, Ananthapuram Local Centre, Old ECE Block, JNTUA College of Engineering, Saradha Nagar, Anantapuram, Andhra Pradesh 515002 [e-mail: anantapuramlc@ieiindia.org]

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

Pune, September 09-10, 2017

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

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

Ahmedabad, September 16-17, 2017

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

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

Hyderabad, October 06-07, 2017

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

Civil Engineering Division

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

Salem, August 08-09, 2017

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

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

Chennai, August 10-11, 2017

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

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

Jaipur, August 18-19, 2017

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

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

Ahmedabad, September 02-03, 2017

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

All India Seminar on 'Pavement Evaluation and Rehabilitation'

Bengaluru, September 07-08, 2017

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

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

Thiruvananthapuram, September 19-20, 2017

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

All India Workshop on 'Extreme Loading on Structures'

Roorkee, October 26-27, 2017

The Honorary Secretary, IEI, Roorkee Local Centre, IIT



Campus, Roorkee 247667, Tel: (01332) 284 416, TeleFax: (01332) 272 589 [e-mail: roorkeelc@ieindia.org]

All India Seminar on **“Innovations and Challenges in Materials and Construction”**
Kanpur, October 28-29, 2017

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

Workshop on **“National Building Code of India - 2016”**

Salem, November 02-03, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

All India Seminar on **“Sustainable Materials and Technology for Better Future”**

Rourkela, November 11-12, 2017
The Honorary Secretary, IEI, Rourkela Local Centre, National Institute of Technology Campus, Rourkela 769 008 [Fax: (0661) 247 2709; e-mail: rourkelalc@ieindia.org]

All India Workshop on **‘Mass Hosting and Rapid Construction’**

Roorkee, November 14-15, 2017
The Honorary Secretary, IEI, Roorkee Local Centre, IIT Campus, Roorkee 247667, Tel: (01332) 284 416, TeleFax: (01332) 272 589 [e-mail: roorkeelc@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]

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

Pune, September 28-29, 2018
The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [☎: 020-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

Computer Engineering Division

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

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

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

Salem, August 17, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

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

Salem, August 24, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

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

Bengaluru, August 29-30, 2017
The Honorary Secretary, IEI, Karnataka State Centre, 3 Dr B R Ambedkar Veedhi, Bengaluru 560001 [☎: (080) 22264698/22207402; Fax: (080) 22256191; e-mail: karnatakasc@ieindia.org]

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

Hosur, September 02, 2017
The Honorary Secretary, IEI, Hosur Local Centre, No.69, Kamaraj Nagar, Kumudepall, Near Adhiyamaan College of Engineering, Tamil Nadu, Hosur 635109[e-mail: hosuric@ieindia.org]

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

Salem, September 08, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

National Conference on **‘Industry 4.0’**

Salem, September 21-22, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

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

Kanchipuram, January 08-09, 2018
The Honorary Secretary, IEI, Kanchipuram Local Centre, Agni College of Technology – ACT, Old Mahabalipuram Road, Thalambur, Chennai 600130 [e-mail: kanchipuramlc@ieindia.org]

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

Ahmedabad, January 19-20, 2018
The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratsc@ieindia.org]

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

Ahmedabad, February 24-25, 2018
The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratsc@ieindia.org]

Electrical Engineering Division

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

Salem, August 07, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

One Day Seminar on **‘Smart Grid Technologies’**

Kota, August 19, 2017
The Honorary Secretary, IEI, Kota Local Centre, Engineers Bhawan, Near BSNL Office, Jhalawar Road, Kota 324005, Rajasthan [☎: (0744) 2428250; Mobile: 9461655704; e-mail: kotalc@ieindia.org]

One Day Seminar on **‘Promotion of Rooftop Solar Power in India’**

Kolkata, September 12, 2017
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22338914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

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

Delhi, November 17-18, 2017
The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

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

Tiruchirapalli, November 24-25, 2017
The Honorary Secretary, IEI, Tiruchirapalli Local Centre, BHEL Main Office Road, Tiruchirapalli 620014 [☎: (0431) 255 4285; Fax: (0431) 252 0383 / 252 0775; e-mail: tiruchirapalllc@ieindia.org]

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

Guwahati, November 24-25, 2017
The Honorary Secretary, IEI, Assam State Centre, Panbazar Overbridge, East Lane, Guwahati 781001 [☎: (0361) 2548742; Fax: (0361)2630368; e-mail: assamsc@ieindia.org]

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

Ahmedabad, February 16-17, 2018
The Honorary Secretary, IEI Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380006 [☎: (079) 26400811; Fax: (079) 26561825; e-mail: gujaratsc@ieindia.org]

“National Power Engineering Conference – 2018”

Madurai, March 09-10, 2018
The Honorary Secretary, IEI, Madurai Local Centre, T M Jambulingam Bhavan, 1 Vivekananda Nagar, 100 Feet Road, Surveyor Colony, K Pudur, Madurai 625 007 [☎: (0452) 256 1783; e-mail: madurailc@ieindia.org]

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

Hyderabad, May 24-26, 2018
The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad, Telangana 500004 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org]

Electronics & Telecom. Engineering Division

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

Salem, August 05, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

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

Jabalpur, August 05-06, 2017
The Honorary Secretary, IEI, Jabalpur Local Centre, Visvesvaraya Marg, Civil Lines, Jabalpur 482 001 [TeleFax: (0761) 267 8929; Fax: (0761) 404 5625; e-mail: jabalpuric@ieindia.org]

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

Delhi, August 25, 2017
The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [☎: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

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

Salem, September 06, 2017
The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7, Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemlc@ieindia.org]

All India Seminar on **“Use of Nano-Technology in Medical Applications”**

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



One Day Seminar on "Wearable Technology"

Salem, September 26, 2017

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

One Day Seminar on "MIMO Techniques for Sensing Cardiopulmonary Activity"

Salem, November 15, 2017

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

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

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

One Day Seminar on "Nanotechnology in Medical Applications"

Salem, December 09, 2017

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

Environmental Engineering Division

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

Dehradun, August 04-05, 2017

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

All India Seminar on "Environmental Impact Assessment in India"

Thanjavur, August 17-18, 2017

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

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

Dhanbad, August 24-25, 2017

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

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

Thanjavur, September 09, 2017

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

One Day Seminar on "Hygiene and Public Health"

Thanjavur, September 28, 2017

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

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

Neyveli, October 6-7, 2017

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

One day Workshop on "HVAC & R Industry"

Ranchi, November 25, 2017

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

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

Bokaro, December 02-03, 2017

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

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

Ranchi, January 14, 2018

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

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

Kolar, January 23-24, 2018

The Honorary Secretary, IEI, Kolar Local Centre, Dr T Thimmaiah Institute of Technology Premises, Oorgaam, Kolar Gold Fields 563120 [e-mail: kolaric@ieindia.org]

One Day Workshop on "Environmental Management and Sustainable Development"

Thanjavur, January 24, 2018

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

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

Ranchi, February 10-11, 2018

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

One Day Seminar on "Sewage Treatment and Disposal"

Thanjavur, February 23, 2018

The Honorary Secretary, IEI, Thanjavur Local Centre, Periyar Maniammal University, Periyar Nagar, Vallam, Thanjavur 613403 [e-mail: thanjavuric@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]

Marine Engineering Division

One Day Seminar on "Modern Technology for Safe and Efficient Shipping"

Kolkata, August 04, 2017

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

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

Tuticorin, August 10-11, 2017

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

One Day Seminar on "Recent Engineering Developments in Shipping Fields"

Kolkata, August 29, 2017

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

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

Kolkata, October 15-16, 2017

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

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

Chennai, August 18-19, 2018

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

Mechanical Engineering Division

One Day Workshop on "Theory and Practice in Refrigeration and Air Conditioning System"

Karnal, August 08, 2017

The Honorary Secretary, IEI, Haryana State Centre, H No 9 Ranjeet Enclave, Ashoka Nursery, Kunjpura Road, Karnal 132001 [☎: (0184) 2266176; e-mail: haryanasc@ieindia.org]

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

Hyderabad, August 18-19, 2017

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

One Day Seminar on "Product Life Cycle Management"

Madurai, August 19, 2017

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

One Day Seminar on "Engine and Vehicle Management System"

Madurai, August 23, 2017

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

All India Workshop on "Data Analytics for Engineers"

Ranchi, August 26-27, 2017

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

One Day Workshop on "Air Conditioning"

Vadodara, August 27, 2017

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

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

Udaipur, September 01-02, 2017

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



All India Seminar on 'Automation in Welding'

Kolkata, September 08-09, 2017

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

One Day Seminar on 'Technological Advancements and Safety & Sustainability Practices in Railways'

Palghat, September 23, 2017

The Honorary Secretary, IEI, Palghat Local Centre, XIII/1082 Nerukakkad, Kallepully P O Palakkad 678 005 [Tel: (0491) 2573137; e-mail: palghatlc@ieiindia.org]

One Day Workshop on 'CAD/CAM'

Salem, October 10, 2017

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

One Day Seminar on 'Role of Automation in Integrating Renewable Energy'

Salem, October 11, 2017

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

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

Delhi, November 03-04, 2017

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

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

Lucknow, November 18-19, 2017

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

International Conference on "Future Material Handling Prospects – Opportunities and Challenges"

Ranchi, January 27-28, 2018

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

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

Thiruvananthapuram, July 14-15, 2018

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

Thirty-fourth National Convention of Mechanical Engineers on "Mechanical Engineering and Engineering Challenges for Manufacturing"

Delhi, September 01-02, 2018

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

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

Hosur, September 13-14, 2019

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

Metallurgical & Materials Engg. Division

All India Seminar on "Indian Non-ferrous Metal Foundries: Opportunities and Challenges"

Kolkata, August 05, 2017

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

One Day Seminar on "Green Technologies for Iron and Steel Production"

Salem, August 19, 2017

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

All India Seminar on 'Mechanics, Design and Testing of Composites'

Madurai, January 04-05, 2018

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

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

Kolkata, January 19-20, 2018

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

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

Kolkata, November 01-03, 2018

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

Mining Engineering Division

All India Seminar on "Advancement in Mine Closure and Rehabilitation Techniques"

Ranchi, December 09-10, 2017

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

Production Engineering Division

All India Workshop on "Productivity Management in Manufacturing and Service Organisations"

Kharagpur, August 18-19, 2017

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

One Day Seminar on 'Recent Advances in Nondestructive Testing'

Solapur, September 03, 2017

The Honorary Secretary, IEI, Solapur Local Centre, Vastu Vaibhav, 3 North Kasaba, 4th Floor, Near Laxmi Bank, Shivaji Chowk, Solapur 413001 [☎: 0217-2727707; e-mail: solapurhc@ieiindia.org]

All India Workshop on "Quality Improvement in Products and Processes: Principles, Methods and Applications"

Kolkata, October 27-28, 2017

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

All India Workshop on "Six Sigma Fundamentals and Applications"

Kolkata, March 16-17, 2018

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

Textile Engineering Division

One Day seminar on "Tribology and Energy Saving in Textiles"

Salem, August 18, 2017

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

Thirty-first National Convention of Textile Engineers on "Indian Textile Industries: Future Direction"

Hosur, February 17-18, 2018

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

Interdisciplinary Coordination Committee

All India Seminar on "Industrial Waste Management in India"

Madurai, August 03-04, 2017

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

All India Seminar on "Power Sector: Recent Advancements, Opportunities and Challenges Ahead"

Ranchi, August 12-13, 2017

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

One Day Workshop on "Improving Quality of Engineering Education"

Udaipur, August 18, 2017

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

All India Seminar on "Real Estate Industry and Agricultural Potential of India"

Delhi, October 06-07, 2017

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

All India Seminar on "Role of Engineers in the Development of Smart Cities in India"

Pune, October 7-8 & 14-15, 2017

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

All India Seminar on "Engineering Projects: Contracts, Funding and Legal Aspects"

Jabalpur, December 09-10, 2017

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

One Day Workshop on 'Communication and Personality Development for Engineers'

Ahmedabad, February 10, 2018

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

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

Kolkata, July 20-21, 2018

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



32nd

INDIAN ENGINEERING CONGRESS

Chennai, December 21-23, 2017

Theme:

Innovation in Engineering : Competitive Strategy Perspective

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

Hosted by: **Tamilnadu State Centre**

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

IEI AWARDS

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

SAIL AWARD

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

DR M VISVESVARAYA AWARD

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

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

COAL INDIA (J G KUMARAMANGALAM MEMORIAL) AWARD

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

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

Twenty-fifth IEI Convocation and Technicians'/Students' Convention

Goa, October 28-29, 2017

Theme: **Role of Engineers towards Skill India Mission**

Sub-themes:

- Skill India Mission: Opportunities and Challenges
- Engineering Education for Mission, Skill India
- Technological Advancement to propel India in next three decades
- Employment Opportunities with Skilled Manpower
- Training the Masses: Path Ahead
- Equipping Engineering Colleges with Latest Curricula
- India going Global: Are we prepared?
- Role of Engineers in Technological Advancement, hands on Training and Meeting Employment Demand
- Industry Institute Interaction: Key to Skill India Mission
- Role of Infrastructure in Mission, Skill India

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 28 Oct 2017 at Goa. 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 Goa State Centre latest by 25 Sep 2017.

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

Hosted by: **Goa State Centre**

For further information, please contact :

The Organising Secretary (Convocation 2017), The Institution of Engineers (India)
Goa State Centre, D type quarters, D-8-1, Government Polytechnic Campus
Altinho, Panaji Goa 403 001, Phone : 0832-2434686
E-mail: goasc@ieindia.org / goastatecentre@gmail.com

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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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Telephones: 91-33-2223 8311/14/15/16; Facsimile: 91-33-2223 8345 Web: <http://www.ieindia.org>; E-mail: iei.technical@gmail.com