

Electric Vehicles: Prospects & Challenges

Dharwad Local Centre of the Institution in association with the Department of Electrical & Electronics Engineering, SDM College of Engineering & Technology, Dharwad organized All India Seminar on 'Electric Vehicles: Prospects & Challenges' under the aegis of Electrical Engineering Division Board of IEI during March 1-2, 2019 at Dharwad. Dr P D Veerendra Heggade, President, Shri Dharmasthala Manjunatheshwara Educational Society (SDME) stressed on the dissemination of technical knowledge on



the electrical vehicles and he also emphasized that Indian Engineers need to work in this direction in future. Further, Dr Heggade stated that most of the vehicles in India are IC Engine-driven, which leads the pollution level, particularly in congested urban areas and as a result one has to think of cleaner alternatives. Realizing the fact, he mentioned that both the Central and State Governments should come together for implementation of electric vehicles in the nation. The Keynote Speaker on this occasion, Mr D A Desai, Head - R&D, Laxmi Hydraulics, Solapur highlighted the genesis of electric vehicles. He further appealed to the academic people and the industry personnel to use this opportunity for national growth. Dr R L Chakrasali, Chairman of the Centre, in his speech emphasized on the importance of the real-time challenges relating to electric vehicles. Earlier, Dr S G Ankaliki welcomed the gathering. Dr M R Kappali, Coordinator of the event briefed about the objectives of the Seminar highlighting the small number of electric vehicles and their manufacturers and a need to reinforce indigenous technology with new material and techniques. Mr D Surendra Kumar Heggade, Vice President, SDME Society and Dr S B Vanakudre, Principal, SDM College of Engineering & Technology, Dharwad also graced the occasion. Prof S K Nayak proposed the vote of thanks.

From the President's Desk.....

The rapid progress of the ongoing industrial revolution in all its forms has essentially been based on multidisciplinary research, innovation and technology upgradation. In the last few years, this technology infusion has permeated into all aspects of life and society. A slew of technologies and innovations have been integrated in unique ways and this collectively can be termed as 'disruptive technologies'. Disruptive technologies are creating a massive transformation that requires new methodologies in the way we think, manage and train for the future especially in the context of globalization and lifestyle demands. In the last issue, I have written about the 'Artificial Intelligence (AI)' that describes science and engineering in making machine intelligent and its impact at large level. In fact, the disruptive technologies, which include big data, cloud computing and blockchain technology have been leveraged by Internet of Things to offer increasingly efficient and 'easy to use' array of services offered to citizens. Ongoing research on machine-to-machine (M2M) communication would result in even newer paradigm of applications. Therefore, this technology transformation is expected to build up a new way of lifestyle and global interconnection. I would like to highlight the immense contribution of practicing engineers as well as researchers in these emerging technologies that require a very different mindset at all stages of their developments and calls for constant learning and updation of knowledge.



I would like to invite stakeholders for active participation during the forthcoming World Environment Day on the theme 'Air Pollution' scheduled to be held on June 5, 2019 at our State and Local Centres.

As a part of our Centenary Celebrations, we plan to conduct several special events and outreach programmes in addition to the regular activities conducted by our Centres. In this context, an International Conference on "Electronics & Communications, Renewable Energy and IoT: Vision 2040" has been scheduled to be held at Chandigarh during September 7-8, 2019 and another International Conference on "Opportunities and Challenges of Blockchain Technology" would be held in Chennai during September 13-15, 2019. I invite all our Members and engineers at large to participate in these events and enrich the proceedings.

RERA for Transparent Real Estate

Goa State Centre of the Institution in association with Goa Real Estate Regulatory Authority (RERA), Govt. of Goa and Builders' Association of India organized All India Seminar on 'RERA for Transparent Real Estate' under the aegis of Architectural Engineering Division Board of IEI during February 22-23, 2019 at Goa. Mr Digambar Kamat, former Chief Minister of Goa and MLA, Margao Constituency graced the occasion as the Chief Guest. Mr Kamat, in his address stated that more discussions on RERA would bring out those uncovered points for amendments in the Act. The Keynote Address on 'Overview of RERA' was given by Mr Uday Dharmadhikari, Managing Partner, Rebuild LLP & Chairman, Advisory Committee, Infra & Real Estate Indus Strategy Financial Advisor. According to Mr Dharmadhikari, there were five pillars of RERA, namely Financial Discipline, Transparency, Accountability, Compliances and Customer Centricity. He



expressed that the Original Act enacted by Govt. of India was very powerful, but the various State Governments had diluted the same. He suggested that the act should be implemented without any dilution. Earlier, Mr Chandrashekar Prabhudessai, Chairman of the Centre in his welcome address expressed his gratitude to the President, IEI and briefed about the Seminar. Mr Austin S Rodrigues, Convener of the event, in his speech informed that there were many stakeholders who needed lot of clarification on this relatively new Regulation Act and hence this Seminar was organized as a part of awareness drive in South Goa. Mr Deepak A Karmalkar, Organising Secretary also graced the occasion. Mr Balkrishna M Chodankar proposed the vote of thanks. A large number of resource papers were presented and discussed during the technical sessions of the Seminar.

Materials for Energy Conservation and Storage

Madurai Local Centre of the Institution in association with the Department of Mechanical Engineering, Kamaraj College of Engineering & Technology, Madurai organized All India Seminar on 'Materials for Energy Conservation and Storage' under the aegis of Mechanical Engineering Division Board of IEI during February 5-6, 2019 at Madurai. The Chief Guest, Prof Vijayamohan K Pillai, Senior Scientist & former Director, CSIR-Central Electro Chemical Research Institute, Karaikudi, Tamilnadu, in his inaugural address stated that nanotechnology has attracted much attention in recent time. He further opined that many new nanomaterials in the form of grapheme nanoribbons and grapheme quantum dots have been prepared and characterized for many energy related applications. Prof Pillai further explained that in addition to the use as electrodes for rechargeable batteries and polymer electrolyte fuel cells, engineered carbon can be used as apposite electrodes in rechargeable Zinc Bromine redox flow battery (ZBB) due to their high electro-catalytic activity, enhanced electrical conductivity and unusual mechanical strength with high Young's modulus. Mr S Rajagopal,



Chairman of the Centre presided over the function. Mr P Rajamani, Council Member, IEI graced the occasion with his august presence and addressed the gathering. A large number of papers embracing the theme were presented and discussed during the technical sessions of the Seminar.

Design of Microgrid and Grid Integration Issues in Distributed Generation

Tiruchirappalli Local Centre of the Institution in association with the Department of Electrical & Electronics Engineering, Saranathan College of Engineering (SCE), Tiruchirappalli organized All India Workshop on 'Design of Microgrid and Grid Integration Issues in Distributed Generation' under the aegis of Electrical Engineering Division Board (ELDB) of IEI during March 6-7, 2019 at Tiruchirappalli. Dr S Thamizharasan, Associate Professor, Department of Electrical & Electronics Engineering (EEE), SCE welcomed the august gathering. Dr N Kumaresan, Chairman of the Centre delivered the Keynote address. Dr S Senthilkumar, Associate Professor of EEE Department, NIT Tiruchirappalli spoke on 'Operation and Control of Wind-driven Induction Generators Supplying Micro Grids'. Dr P Sivakumar, Associate Professor of EEE Department, Rajalakshmi



Engineering College, Chennai explained about various issues related to connecting renewable source to the Grid and the Grid integration Issues in Distributed Generation System. Mr S Selvakumar, Lead Engineer, ABB, Chennai explained about the types of Grid, difference between Smart Grid and Micro Grid and Micro Grid Design using HOMER. Dr S Dharmalingam, Member, ELDB, IEI in his valedictory address highlighted on the future of Distributed Generation in India. Mr R Venugopal, Assistant Professor of EEE Department, SCE proposed the vote of thanks. A large number of resource papers were presented and discussed during the technical sessions of the Workshop.

Development and Challenges in Solar Power

Uttarkhand State Centre of the Institution in association with the Department of Mechanical Engineering, Chandigarh Group of Colleges, Landran organized Workshop on 'Development and Challenges in Solar Power' under the aegis of Electrical Engineering Division Board of IEI during November 29-30, 2018 at Dehradun. The Seminar was inaugurated by Dr Rajendra Dobhal, Director General, Uttarakhand State Council for Science & Technology, Govt. of Uttarakhand. During his address, Dr Dobhal highlighted the pivotal role played by engineers, scientists, technicians and various R&D Departments in the development of solar power. Mr C P Sharma, University of Petroleum and Energy Studies, Dehradun delivered the Keynote Address and informed about the future of solar energy. Earlier, Mr A K Dinkar, Chairman of the Centre welcomed the dignitaries and highlighted the activities of IEI in disseminating various good engineering practices to the stakeholders. Mr Ram Shanker, Organizing Secretary of the event briefed

about the theme of the Workshop. Mr Dharm Chandra, Honorary Secretary of the Centre proposed the vote of thanks. A large number of resource papers were presented and discussed during the technical sessions of the Workshop.



Optimization Techniques in Mechanical Engineering

Punjab & Chandigarh State Centre of the Institution in association with the Department of Mechanical Engineering, Chandigarh Group of Colleges, Landran organized All India Workshop on 'Optimization Techniques in Mechanical Engineering' under the aegis of Mechanical Engineering



Division Board of IEI during November 12-13, 2018 at Chandigarh. The Chief Guest and Keynote Speaker, Dr (Ms) Ekta Singla, Head, Department of Mechanical Engineering, IIT Ropar addressed on 'Optimization: Importance, Methodologies and Selection Strategies in Mechanical Engineering'. She emphasized on the right use and selection of the optimization techniques in various mechanical problems. Prof Alakesh Manna, Department of Mechanical Engineering, Punjab Engineering College, Chandigarh, delivered

a talk on the topic, 'Design of Experiments: Experimental Methodologies and Optimization Techniques'. He emphasised on the robust design technique especially on Taguchi Technique in which the loss function, reliability, signal to noise ratio etc. are involved. Prof Manna suggested that there are many online courses on Artificial Neural Network (ANN), Genetic Algorithm (GA), Grey Relational Analysis (GRA), Particle Swarm Optimization (PSO) technique etc. Prof Harmesh Kansal, Department of Mechanical Engineering, University Institute of Engineering and Technology, Punjab University, Chandigarh, spoke on 'Optimization using Response Surface Methodology (RSM)'. He discussed the basics of the RSM and Design of Experiments (DOE) for mechanical problems. Dr Vinod Kumar Singla, Associate Professor, Department of Mechanical Engineering, Thapar University, Patiala, speaking on 'Design of Experiments' and focused on the Quality Function Deployment (QFD) and basics & importance of design of experiments in research problems. Earlier, Mr Janak Raj Garg, Chairman of the Centre welcomed all the guests present during Workshop. Other dignitaries present on the occasion included Dr T S Kamal, Council Member, IEI, Mr A C Sharma, Director-Principal, Chandigarh Group of Colleges, College of Engineering and Dr Rajdeep Singh, Director-Principal, Chandigarh Engineering College, Landran. Mr S S Mundi, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function. A large number of resource papers were presented and discussed during the technical sessions of the Workshop.

Green Manufacturing

Madurai Local Centre of the Institution organized All India Seminar on 'Green Manufacturing' under the aegis of Production Engineering Division Board of IEI during February 1-2, 2019 at Madurai. Mr Pulak Kanti Bhaumick, former Deputy Director General, Ordnance Factory Board, Ministry of Defence, India graced the occasion as the Chief Guest. During his address, Mr Bhaumick highlighted the importance of green manufacturing and emphasized on its implementation in various industries. He opined that green manufacturing is a method to minimize the waste and pollution achieved through product and process design. Mr Bhaumick also presented a Keynote Address on 'Lean and Green Manufacturing Strategies – Need for Sustainable Development at High Growth Rate'. Mr S Rajagopal, Chairman of the Centre welcomed the august gathering. Mr P Rajamani, Council Member, IEI was also present and addressed the gathering. Earlier, Mr R Narayanasamy, Honorary Secretary of the Centre explained the theme of the Seminar. Mr R Babu, KRAB Consultant, Chennai demonstrated lean and clean manufacturing process using App developed by his company. The paper on 'Green Chemistry, Materials and Manufacturing

Techniques' was delivered by Dr M P Sukumaran Nair, Centre for Green Technology & Management, Kochi. Prof Hemalatha Ramesh, Department of Mechanical Engineering, KLN College of Engineering, Tamilnadu addressed the gathering and delivered lecture on the theme. A large number of papers were presented and discussed during the technical sessions.



IEI Celebrates World Water Day

Theme : Leaving no one behind

The World Water Day was celebrated by the Institution all over the country on March 22, 2019. Reports of celebration received from various Centres are highlighted here.

STATE CENTRES

Assam

Prof Arup Kumar Sarma, Department of Civil Engineering, IIT Guwahati, in his Keynote Address stressed on the conservation measures to be adopted for judicious share of each stakeholder. Prof Sarma further highlighted about an effective mechanism developed and named as Sustainable Approach of Rainwater Management (SARMA) and its application at IIT Guwahati that provided an efficient management of rainwater, which can contribute significantly towards



mitigating the impact of climate change as well as can reduce the flood and drought. The Guest-of-Honour, Mr Moley Bora, CEO, Guwahati Metropolitan Development Authority, Guwahati pleaded for support of the Engineering community for solving the water and wastewater crisis of the people of Guwahati. Prof B C Goswami, Vice-Chancellor, Cotton University, Assam also addressed the gathering. Earlier, welcoming the gathering, Mr N Zaman, Honorary Secretary of the Centre stressed on the significance of observance of the day. Mr Milanjit Bhattacharyya, Organizing Secretary of the event emphasized on the Sustainable Development Goal (SDG) No.6 as provided by United Nation. He also offered sincere gratitude to the dignitaries at the end of the programme.

Bihar

Prof Ramakar Jha, Chair Professor and Head, Department of Civil Engineering, NIT Patna, in his Keynote Address, stated that today, billions of people are still living without safe water due to several reasons. Earlier, Mr N K P Sinha, Chairman of the Centre, in his welcome address stated that water is essential for human beings. Therefore, World Water Day celebration gives an opportunity to share the ideas and thoughts for saving water in its pure form for future generation.



Chhattisgarh

The Chief Guest on the occasion, Prof M K Verma, Vice Chancellor, Swami Vivekanand Technical University, Bhilai, in his address, highlighted various problems and benefits of management of surface and ground water in Chhattisgarh State. He further emphasized upon the need of the conservation and management of water resources in day-to-day requirements. Prof Verma narrated



the importance of research in management of water for its sustainable use. The Guest-of-Honour, Mr M P Raval, Chairman, Water Management Forum of IEI, Ahmedabad precisely narrated about the work done in Gujarat State for conservation of water and overcoming the challenges due to draught. He further mentioned the requirement for different products of human use. The Keynote Speaker, Prof Ninand Bodhankar of Pandit Ravi Shankar Shukla University, Raipur, highlighted the availability of water in the earth. Other Guest-of-Honour, Mr H R Kutare, Engineer-in-Chief, Water Resources Department, Govt. of Chhattisgarh, Raipur narrated about the minor and major Dams in Chhattisgarh and the effective use of water for irrigation and other purposes. Earlier, Mr Anil Kumar Sharma, Chairman of the Centre welcomed the august gathering. Dr Sanjay Kumar, Honorary Secretary of the Centre proposed the vote of thanks.

Delhi

The Chief Guest, Mr Prabhakar Singh, Director General, Central Public Works Department, Govt. of India in his address focused on various challenges faced by the country in order to ensure the water availability. The Guest-of-Honour, Mr Puneet Kumar Vats, Engineer-in-Chief, PWD, New Delhi highlighted the importance of sustainable management in water resources. In his Keynote address, Mr R S Negi, Engineer Member, Delhi Jal Board, Govt. of NCT of Delhi highlighted various key issues related to water pollution especially the matter of clean Ganga. The special address on the theme was delivered by Mr O P Shrivastava, Chief Engineer (Flood), Irrigation and Flood Control Department, Govt. of NCT of Delhi. Earlier, Mr Dinesh Kumar, Chairman of the Centre welcomed the gathering and specified that the theme is very much relevant to 2030 Agenda for Sustainable Development. Mr J K Sharma, Honorary Secretary of the Centre proposed the vote of thanks at the successful end of the program.



Tamilnadu

Special Guest on the occasion, Mr M Kumar, former Chief Engineer, Tamilnadu Police Housing Corporation Ltd., Chennai, in his address, enumerated that ancient civilizations started only in riversides, which are preserved in such a way that the people living in the river banks should avail all facilities. He further highlighted that due to industrialization, many factories were set up along the river banks, which polluted the rivers over the decades. Other Special Guest, Mr V Murugesan, Regional Executive Engineer, Chengalpattu Region and Tambaram explained about the solid waste management system. Mr Murugesan also stated that waste processing techniques introduced bio-digesters, organic waste converter, barrel composting, onsite composting, etc. Earlier, Mr R Ramdoss, Chairman of the Centre welcomed the august gathering. Mr P Gomathi Nayagam, Honorary Secretary of the Centre proposed the vote of thanks.



Telangana

The Chief Guest, Dr T H Chowdary, former Advisor in IT, Govt. of Andhra Pradesh highlighted the proper utilization of available water in our country so that it can be used in drip irrigation, desalination and ground water regeneration. Dr Chowdary appealed that the Government should declare rivers as national property so that there will not be any future water disputes among the States. The Keynote Speaker, Dr P G Sastry, Director, Ramky Group, explained the significance of World Water Day. He also emphasized

upon the importance of creating environmental awareness among the students for the future of our society. Mr S Narasima Rao, Chief Engineer (IS & WR), I&CAD Department, Telangana; Mr A Krishna, Director (Operations), Hyderabad Metropolitan Water Supply & Sewerage Board and Mr B Ramesh, Chief Engineer, Mission Bhagiratha also graced the occasion with their august presence and addressed the gathering. Earlier, Mr T Anjaiah, Honorary Secretary of the Centre welcomed the gathering. Wg. Cdr V L Nanda Kumar, Past Chairman of Andhra Pradesh State Centre, IEI also graced the occasion. Prof R N Banothu, Joint Honorary Secretary of the Centre proposed the vote of thanks.



Tripura

Prof Sekhar Datta, Principal, Tripura Institute of Technology, Narsingarh, graced the occasion as the Chief Guest. Mr M B Chakraborti, Chief Engineer, PWD (Drinking Water & Sanitation), Govt. of Tripura graced the occasion as Special Guest and delivered the Keynote Speech on the theme. Prof V L Dharurkar, Vice Chancellor, Tripura University also sent an audio-visual message about the theme which was presented during the program. Dr Jayanta Debbarma, Superintending Engineer, PWD (DWS), Govt. of



Tripura also graced the occasion. Earlier, Mr Tapas Bhattacharya, Honorary Secretary of the Centre delivered the welcome address. Mr Tapan Lodh, Chairman of the Centre presided over the programme.

Uttar Pradesh

The Chief Guest, Mr P R Chaurasia, former Head & Chief Engineer, Minor Irrigation Department, Uttar Pradesh and former Director, Ground Water Department, Uttar Pradesh expressed the background of 2030 Agenda for Sustainable Development Goal. The Keynote Speaker, Prof Jamal Nusrat, Water And Land Management Institute discussed in detail about the water availability, water crises, effort made up till now to manage and conserve our water resources. He presented the detail report on occurrence of draught in various states of the country and level of water pollution in various states. Prof Nusrat also emphasized upon the need of effective water law, improvement in water efficiency and rain water harvesting. Earlier, Mr P K Chaurasia, Honorary Secretary of the Centre welcomed the guests and expressed his views on the theme of the Day.



LOCAL CENTRES

Agra

The Keynote Speaker, Mr D S Sharma, while speaking on the theme expressed that the concept of 2030 Agenda for Sustainable Development Goal is used to ensure the availability of water for all. He also highlighted the scarcity of safe water at various places. Other Keynote Speaker, Dr Anurag Sharma explained about the accessibility of drinking water. Earlier, Dr B D K Patro, Chairman of the Centre, in his welcome address



highlighted various issues related to the theme. Dr Ashok Yadav, Honorary Secretary of the centre shared his views on waste water and falling water level in the earth. Dr Yadav proposed the vote of thanks at the end of the programme.

Aligarh

The Chief Guest of the function, Prof Salahuddin Qureshi, former Professor, Department of Geography, Aligarh Muslim University (AMU), Aligarh in his speech mentioned about the efforts made by Govt. of India for the river Ganga. He reiterated the importance of rivers and appealed to the authorities for maintaining waters bodies of the nation. The Guest-of-Honour, Mr S N Sharma, Water Activist, Aligarh, spoke about the importance of conservation of water. Prof Nadeem Khalil, Department of Civil Engineering, AMU and Convener of the event spoke about the efforts and research areas on 'Pollution of Rivers & Lakes and Conservation Efforts in India' and highlighted the significance of natural systems for cleaning up the rivers. Earlier, Prof Mohammad Kamil, Immediate Past Chairman of the Centre welcomed the august gathering. Mr N K Garg, Co-Convener of the programme proposed the vote of thanks.



Belagavi

Dr H S Prakash Kumar, Chief Engineer, Karnataka Rural Water Supply & Sanitation Department, Bengaluru graced the occasion as the Chief Guest and Keynote Speaker. Dr Prakash Kumar, speaking on the theme of the day emphasized upon the need for providing safe drinking water to all. Earlier, Dr B Venkatesh welcomed the Chief Guest and other dignitaries.



Belapur

Prof T I Eldho, Head, Department of Civil Engineering, IIT Bombay, in his Keynote Address highlighted that the access to water is the fundamental right of all leaving species existing on earth and without water they cannot survive. He further enumerated that 'Leaving no one behind' is an adaptation of the central promise of the 2030 Agenda for Sustainable Development. Earlier, Dr S C Nimkar, Honorary Secretary of the Centre addressed the gathering. Mr K K Varkhedkar, Chairman of the Centre presented the concluding remarks. Mr R K Modi, Past Chairman of the Centre proposed the vote of thanks.



Berhampur

Mr Surendra Kumar Panda, Chief Engineer and RVN Basin Manager, Water Resources Department, Berhampur graced the occasion as the Chief Guest. Mr Panda, in his speech narrated how to create awareness among common people for conservation of natural water in various sectors. The Guest-of-Honour on the occasion, Mr P C Patnaik, Superintending Engineer, Minor Irrigation Circle, Berhampur, in his address explained how water is used in irrigation purpose by the farmers in economical way through formation of Pani Panchayat by Water Resources Department, Govt. of Odisha. Another Guest-of-



Honour, Mr L K Sabat explained the utilization of water by human beings in the world. The Guest Speaker, Mr Simanchal Dash, former Superintending Engineer, Rural Water Supply & Sanitation (RWSS) Department also graced the occasion and deliberated the theme. Earlier, Mr A K Padhi, Chairman of the Centre, welcomed the gathering. Mr R K Patro, Past Honorary Secretary of the Centre proposed the vote of thanks.

Bhimavaram

Mr S V Ranga Raju, Secretary-cum-Correspondent, SRKR Engineering College graced the occasion as the Chief Guest and addressed the gathering. The Resource person of the Seminar, Mr M Satyanarayana Reddy, Executive Engineer, R&B, PWD briefed about the activities of IEI and importance of the Day and requested the gathering to think about proper management of water resources. Earlier, Mr V K Viswanadha Raju, Honorary secretary the Center welcomed the audience.



Gorakhpur

The Chief Guest on the occasion, Dr S S Verma, former Head, Department of Geography, Deen Dayal Upadhyay Gorakhpur University, in his address explained that there is a shortage of useful water for the use of daily life of human beings, animals and in agriculture. He advised that common people should change their life style and habits so that one can save every drop of water after fulfilling bare necessities. Other Speakers, Dr S K Sinha, former Deputy Director (Fisheries), Govt. of Uttar Pradesh and Dr V K Pandey, Specialist in Agriculture, Gorakhpur Environmental Action Group, while addressing the gathering, described the effects of this change on aquatic life, plants etc. Earlier, Mr M W Beg, Chairman of the Centre delivered the welcome address. Mr V K Srivastava, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

Jammu

Mr Ashok Kumar Gandotra, Chief Engineer, Public Health Engineering Department, Jammu graced the occasion as the Chief Guest. Mr Gandotra, in his address assured the audience that he is making all efforts to provide 24 x 7 water supply to Jammu town. He further appealed to the citizens to install float valves in their storage tank taps so that wastage of water can be arrested. Earlier, Mr Ravi Kumar Chanyal, Chairman of the Centre presided over the function. Mr Vijay Kumar Sharma, Honorary Secretary of the Centre proposed the vote of thanks to the august gathering.



Kanpur

The Guest Speaker on the occasion, Dr Yaswanth K Penke, Research Officer, IIT Kanpur, in his address stated that pure and adequate water supplies provide the foundation for prosperous and ambitious communities by means of healthy and economically productive citizens. Dr Penke further clarified that a brief understanding of novelty in materials science to handle environmental issues can affect long-term sustainability. Earlier, Prof J Ramkumar, Chairman of the Centre welcomed the august gathering.



Kochi

Dr P Gireesan, Deputy Chief Engineer, Kerala Water Authority (KWA), Central Region graced the occasion as the Theme Speaker. Dr Gireesan, in his speech, pointed out various issues in tackling water crisis by addressing the reason why so many people are left behind. 'In 2010, United Nations recognized the right to safe and clean drinking water and sanitation as a human right that is essential for enjoyment of life and human rights', he mentioned. Earlier, Mr Paul George, Past Chairman of the Centre welcomed the august gathering. Mr P A Salahuddin proposed the vote of thanks at the end of the function.



Kolhapur



Mr Arun Deshmukh, AGM & Head, Agronomy Department, Netafim Irrigation India Pvt. Ltd., Pune graced the occasion as the Chief Guest and addressed the audience on 'Importance of Community Micro Irrigation and Netbeat Technology'. Mr D T Gaikwad, former Professor of Agricultural Engineering Section, College of Agriculture, Kolhapur, attended the function as a Guest-of-Honour. Earlier, Dr Suhas B Patil, Principal, Dr D Y Patil College of Agricultural Engineering and Technology, Talsande welcomed the august gathering. Mr Ajay Deshpande, Immediate Past Honorary Secretary of the Centre also graced the occasion. Mr Pravin Uke, Committee Member of the Centre proposed the vote of thanks at the end of the programme.

Madurai

The Chief Guest, Prof K Manuraj, former Chief Engineer, PWD, in his address highlighted on the water availability in the globe, in India and in Tamilnadu. He further focused on the diversion of water from surplus basins such as Godavari and West flowing rivers in Kerala where mean annual rainfall is three times higher than that of Tamilnadu and there is no scope for storing of water due to their topographical conditions. Earlier, Mr K Vijayakumar, Immediate Past Chairman of the Centre welcomed the august gathering and presided over the function. Joint Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.



Pune

Dr Pakhmode presented the review of quality and quantity assessment of Ground Water in Maharashtra. He stated that data is available to plan the growth. Since there is imbalance between the recharge and draw, major part of Maharashtra is facing scarcity of water. Mr Subhash Patil spoke on safe and adequate water for all. He explained the major role played by MJP to ensure safe & adequate water for all. Dr D Y Patil, Institute of Technology, Pimpri presented a sketch on 'Save Water for Better Future'. Earlier, Mr Rajendrakumar V Saraf from Viraj Envirozing India Pvt. Ltd., Pune welcomed the guests on behalf of the Centre. Mr Rahul S Jagtap, Joint Director, Central Water and Power Research Station, Pune and Mr Manish Rathore, Deputy Director, National Water Academy, Pune also spoke on the theme of the day.

Salem

Dr A Ranganathan, Research Associate, Irrigation Management Training Institute, PWD, Trichirappalli, graced the occasion as the Keynote Speaker. Dr Ranganathan, in his speech elaborated the theme of the Day. He further highlighted various micro irrigation equipments, means and techniques for optimum use of water for irrigation development.



Earlier, Mr P K Natesan, Committee Member of the Centre welcomed the distinguished guests and dignitaries and presided over the function. He narrated about the present scenario of water crises in the world. Mr S Loganathan, Honorary Secretary of the Centre extended vote of thanks.

Saurashtra

The Theme Speaker on the occasion, Mr S V Ahuja, former Chief Engineer, Gujarat Water Supply and Sewerage Board, Ahmedabad and President, Indian Water Works Association, Ahmedabad in his speech stated the scarcity of water. He further mentioned that in the last seven decades, the population has been increased and due to this reason, the scarcity of water also increased to a greater extent. Prof Deepak K Jivani, Head, Department of Civil Engineering, Darshan Institute of Engineering & Technology, Rajkot proposed the vote of thanks at the end of the programme.



Tirunelveli



Dr S Adishkumar, Head, Department of Civil Engineering, Anna University, Tuticorin Region, attended the function as resource person and delivered the lecture. Dr S Baburengarajan, Chairman and Dr R Velayutham, Honorary Secretary of the Centre also spoke on the occasion.

Varanasi

The Chief Guest, Prof V N Mishra, Head, Department of Electronics Engineering, IIT-BHU, Varanasi, in his address narrated in detail the poor and shocking status of Ganga at Varanasi and mentioned that the increasing discharge of untreated sewage and reducing flow in Ganga are main reasons of increasing water pollution. He further emphasized upon the need for giving a free hand to engineers to work professionally for the benefit of society and country. The Keynote Speaker, Prof P K Mishra, Head, Department of Chemical Engineering & Technology, IIT-BHU, Varanasi, in his speech focused mainly on the status of Ganga, Gomati, Varuna and Asi, using photographs showing the current status of all three rivers in and around Varanasi. He highlighted the role of ground water and ponds in recharging all perennial rivers of India and urged everyone to be concerned about the current status of various water bodies. Earlier, Prof S N Upadhyay, Chairman of the Centre welcomed the august gathering. Mr Santosh Kumar, Honorary Secretary of the Centre proposed the vote of thanks.



World Water Day 2019 was also observed by Kalaburagi and Tiruchirapalli Local Centres

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

Jaipur, November 09-10, 2019

Theme: Industry 4.0 – Transforming Industrial Productivity

Technical papers are invited on following sub-themes :

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

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

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

Hosted by: Rajasthan State Centre

For further information, please contact :

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News-in-Brief

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

STATE CENTRES

Delhi

Maj Gen Harkirat Singh Memorial Lecture on the topic 'Smart Military Stations – Infrastructure Construct' delivered by Maj Gen Sanjay Rihani, Additional Director (Works), E-in-C Branch on April 8, 2019.

Gujarat

Celebrated National Survey Day on the theme 'Application of Advance Surveying in Civil Engineering' on April 10, 2019.

Karnataka

Lecture on 'Elevated Corridors Affecting Ground Level Traffic' delivered by Dr A S Kodanda Pani, Urban Planner & Civic Analyst on April 26, 2019.

Kerala

Lecture on 'Contemporary Global Challenges and Technology Solutions' delivered by Mr P Abraham Paul on April 3, 2019.

Lecture Meeting on 'Importance of Wind Tunnel Tests in the Design of High Rise Structures' on April 10, 2019.

Lecture Meeting on 'Various Engineering Aspects of the Statue of Sardar Vallabhai Pattel in Gujarat' on April 24, 2019.

Tamilnadu

Lecture on 'Intelligent Transportation Systems for Indian Smart Cities' delivered by Prof Lelitha Devi Vanajakshi, IIT Madras, Chennai, on April 25, 2019.

Telangana

Celebrated 'National Survey Day' on April 10, 2019.

Er Koka Krishna Mohan Twenty Ninth Endowment Lecture on the topic 'Challenging Civil Engineering Problems in Yadagiri Gutta Temple Development' delivered by Dr D BabuRao, Former Professor and Head of Civil Engineering Department, University College of Engineering, Osmania University on April 23, 2019.

Uttar Pradesh

Lecture on 'Water Resources: Development and its Challenges' delivered by Mr Jay Vilash, Retired Chief Engineer, Irrigation Department, Uttar Pradesh on April 21, 2019.

West Bengal

Lecture on 'Fibre Wealth of India – Raw Material for Sustainable Development of the Nation' delivered by Dr Gautam Bose, Principal Scientist and Head, Mechanical Processing Division, ICAR- National Institute of Natural Fibre Engineering & Technology, Kolkata on April 25, 2019.

LOCAL CENTRES

Agra

National Conference on 'Advances in Chemistry, Food Technology and Environmental Sciences towards Sustainable Development' during March 8-9, 2019.

International Conference on 'Data and Information Sciences – 2019' during March 29 -30, 2019.

Ahmednagar

Lecture on 'An Introduction to Autonomous Vehicles' delivered by Mr Bharatbhusan Bhagwat, Director, Atul Enterprises on April 16, 2019.

Bareilly

Lecture on 'Role of Engineering in Life Management' delivered by Dr N L Sharma, Former Principal, Bareilly College & Past Director General, Khandelwal College of Management Science and Technology (KCMT), Bareilly on April 7, 2019.

Lecture on 'New Research Frontiers in Analytics and Big Data' delivered by Dr Ashish Gupta, Associate Professor of Analytics, Department of Systems & Technology, Raymond J Harbert College of Business, Auburn University, Auburn, USA on April 22, 2019.

Bhimavaram

Seminar on 'Innovations in Materials and Manufacturing' on March 1, 2019.

Bokaro Steel City

Lecture on 'Basics of Integrated Hydraulic Circuit and Trouble Shooting' delivered by Mr P K Upadhyay, Manager (Energy Management Department), SAIL, Bokaro Steel Plant on April 23, 2019.

Lecture on 'Environment Management: Roles & Responsibilities of Industries' delivered by Mr Nitesh Ranjan on April 27, 2019.

Dhanbad

Lecture on 'Suitability of Existing Floor of an Underground Mine for Transportation Route of Continuous Miner-A Case Study' delivered by Mr Ajit Kumar, Senior Principal Scientist, CSIR-CIMFR, Dhanbad on April 24, 2019.

Durgapur

Lecture on 'Current Coal Mine Regulations to Enhance Safety and Working Skill in Mines' on the eve of International Day for Mine Awareness delivered by Prof Netai Chandra Dey, Department of Mining Engineering, Indian Institute of Engineering Science and Technology, Howrah on April 16, 2019.

Workshop cum Lecture Programme on 'Health Awareness for Engineering Professionals' on April 21, 2019.

Gwalior

Celebrated Fire Service Day 2019 on the topic 'Fire Prevention is better than Fire Fighting' on April 14, 2019.

Kalaburagi

Lecture on 'Recent Trends in Sanitary Wear Ceramics' delivered by Mr Abhinav Anand Srivastva, Senior Manager, Kohler India Ltd, Gujarat on April 18, 2019.

Kota

Lecture Meeting on 'Project Management Fundamentals' on April 13, 2019.

Palghat

Lecture on 'Smart Energy – Technology & Roadmap' delivered by Ms Bindu M S, Chief Manager, Technical, Indian Telephone Industries Limited, Palakkad on April 10, 2019.

Rourkela

Lecture on 'Glass: The Hidden Treasure We Need to Explore' delivered by Dr Sumit Kumar Pal, Associate Professor, Department of Ceramic Engineering, NIT Rourkela on April 15, 2019.

Saurashtra

Lectures on 'Computer Network & Hands on Practice' delivered by Prof Bhagirath Bhatt, A V Parekh Technical Institute of Rajkot; on 'Recent Advancement in Communication Technology' delivered by Prof Ravi Mehta, Govt. Engineering College, Rajkot and on 'Recent Trends in Mobile Communication' delivered by Prof R S Tanna, A V Parekh Technical Institute of Rajkot on February 23, 2019.

Tiruchirappalli

Lecture on 'Role of First Principle Calculation in Materials Modeling' delivered by Dr K Santhy, Associate Professor, Department of Materials Science and Engineering, CARE Group of Institutions, Thayanur, Trichy on February 19, 2019.

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Journals of The Institution of Engineers (India) SCOPUS indexed

All the following journals of The Institution of Engineers (India), which were already approved by UGC are **SCOPUS indexed**.

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Journal of The Institution of Engineers (India): Series A

- Civil, Architecture, Agriculture & Environmental Engineering
- Published in March, June, September and December - 4 issues in a year
- UGC approved
- SCOPUS indexed
- NAAS indexed (National Academy of Agricultural Sciences)

Journal of The Institution of Engineers (India): Series B

- Electrical, Computer and Electronics & Telecommunication Engineering
- Published in February, April, June, August, October and December - 6 issues in a year
- UGC approved
- SCOPUS indexed

Journal of The Institution of Engineers (India): Series C

- Mechanical, Production, Aerospace & Marine Engineering
- Published in February, April, June, August, October and December - 6 issues in a year
- UGC approved
- SCOPUS indexed

Journal of The Institution of Engineers (India): Series D

- Mining and Metallurgy & Materials Engineering
- Published in June and December - 2 issues in a year
- UGC approved
- SCOPUS indexed

Journal of The Institution of Engineers (India): Series E

- Chemical and Textile Engineering
- Published in June and December - 2 issues in a year
- UGC approved
- SCOPUS indexed



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IEI DIARY



Aerospace Engineering Division

All India Seminar on **“Bluff Body Aerodynamics”**
Kolkata, September 06-07, 2019
The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [☎: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

All India Seminar on **“Issues and Challenges in Aviation Industry”**
Jaipur, September 21-22, 2019
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [☎: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

Thirty-third National Convention of Aerospace Engineers on **“Emerging Technologies in Aerospace Structures, Materials and Propulsion System”**
Pune, November 15-16, 2019
The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [☎: 020-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

Thirty-fourth National Convention of Aerospace Engineers on **“Advances in Aerospace Engineering”**
Kanpur, November 9-10, 2020
The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTI East Campus, Nawabganj, Kanpur 208002 [Telefax: (0512) 2560034; e-mail: kanpurlc@ieindia.org]

Agricultural Engineering Division

One Day Workshop on **‘Sustainable Management of Water Resources in Agriculture’**
Kolkata, June 29, 2019
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 **“Sustainable Agrifood Systems”**
Hosur, July 26-27, 2019
The Honorary Secretary, IEI, Hosur Local Centre, No. 69, Kamaraj Nagar, Kumuddepall, Near Adhiyamaan College of Engineering, Hosur 635109, Tamilnadu [e-mail: hosurlc@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 [☎: 0381-2304700; Fax: 0381-2304700; e-mail: tripurasc@ieindia.org]

National Conference on **“Smart Village and Agriculture”**
Bengaluru, February 07-08, 2020
The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [☎: 080-22264698; Telefax: 080-22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

Architectural Engineering Division

All India Seminar on **“Architectural Design Issues in Renovation and Rejuvenation of Old Structures”**
Jaipur, June 15-16, 2019
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [☎: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

All India Seminar on **“Structural Aspects of Architectural Engineering”**
Jaipur, August 17-18, 2019
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [☎: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

All India Seminar on **“Architecture for Sustainable Development”**
Raipur, September 14-15, 2019
The Honorary Secretary, IEI, Chhattisgarh State Centre, National Institute of Technology Campus, G E Road, Raipur 492010 [Ph: (0771) 2254625; e-mail: chattisgarhsc@ieindia.org; website: www.ieicg.org]

International Conference on **“Architectural Innovations: Engineering, Technology and Materials”**
Jaipur, November 27-29, 2019
The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [☎: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

Chemical Engineering Division

All India Seminar on **“Natural Gas – Fuel for Future”**
Ranchi, June 7-8, 2019
The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Doranda, Ranchi 834002 [☎: (0651) 2491344; e-mail: jharkhandsc@ieindia.org; website: www.ieijsc.org]

Thirty-fifth National Convention of Chemical Engineers on **“The Food-Energy-Water (FEW) Nexus-Challenges for Chemical Engineers”**
Guwahati, September 06-07, 2019
The Honorary Secretary, IEI, Assam State Centre, Panbazar Overbridge, East Lane, Guwahati 781001 [☎: 0361-2548742; Fax: (0361) 2630368; e-mail: assamsc@ieindia.org; website: ieiasc.org]

Civil Engineering Division

All India Seminar on **“Safety Aspects at Construction Sites”**
Panaji, June 14-15, 2019
The Honorary Secretary, IEI, Goa State Centre, D Type Quarters, D-8-1, Government Polytechnic Campus, Altinho, Panaji, Goa 403001 [☎: 0832-2434686; e-mail: goasc@ieindia.org; website: www.ieigoasc.org]

One Day Workshop on **“Fire Prevention and Protection”**
Anpara, June 29, 2019
The Honorary Secretary, IEI, Anpara Local Centre, Visvesvaraya Bhawan (Neal Foreigner Field Hostel), Anpara Thermal Power Colony, P.O.: Anpara, Sonebhadra 231225 [☎: 9415288992 / 7007199838; e-mail: anparalc@ieindia.org; website: ieianparalc.in]

All India Seminar on **“Structural Design Special Reference to Seismic Effect on High Rise Building”**
Gorakhpur, July 06-07, 2019
The Honorary Secretary, IEI, Gorakhpur Local Centre, 176 Siddharth Nagar Colony, Opp GDA Centre, Bharwaliya Buzurg, Taramandal, Gorakhpur 273017 [e-mail: gorakhpurc@ieindia.org]

All India Seminar on **“Energy Efficient Design of Buildings with Special Reference to Energy Conservation Building Code (ECBC)”**
Lucknow, July 13-14, 2019
The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [Telefax: (0522) 2526322; e-mail: upsc@ieindia.org; website: www.ieiup.org.in]

All India Seminar on **“Evolving Trends in Structural Monitoring and Rehabilitation”**
Coimbatore, August 09-10, 2019
The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [☎: 0422-2580733; e-mail: coimbatorelc@ieindia.org]

Thirty-fifth National Convention of Civil Engineers on **“Restoration and Maintenance of Structures and Water Bodies for Sustainability”**,
Ahmedabad, September 01-02, 2019
The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Near Law Garden, Law College Road, Ahmedabad 380006 [☎: (079) 2640 0811; Telefax: (079) 2656 1825; e-mail: gujaratsc@ieindia.org; website: www.ieigujarat.org]

International Conference on **“Building the Disaster Resilient Society in S-E Asia: Roll of Nations”**
Agartala, November 22-24, 2019
The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P.O.: Kunjaban, PB No. 139, Agartala 799006, Telefax: 0381-2304700; e-mail: tripurasc@ieindia.org]

Thirty-sixth National Convention of Civil Engineers on **“Innovation, Mechanisation and Modern Techniques in Civil Engineering”**,
Ranchi, September 8-9, 2020



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

Computer Engineering Division

One-Day Seminar on **“Computer Ethics and Impact of Social Media on Human Society”**

Hyderabad, June 12, 2019

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

All India Workshop on **“Practical Approach towards Deep Learning”**

Chandigarh, July 11-12, 2019

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

International Conference on **“Opportunities and Challenges of Blockchain Technology”**

Chennai, September 13-15, 2019

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

All India Workshop on **“Software Testing, Audit and Quality Assurance using Open Source Tools”**

Chandigarh, November 21-22, 2019

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

Thirty-third National Convention of Computer Engineers on **“Applied Computational Intelligence and Informatics”**

Jaipur, February 15-16, 2020

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

Electrical Engineering Division

All India Seminar on **“Power Quality Enhancement in Distributed Generation”**

Tiruchirappalli, July 19-20, 2019

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

All India Seminar on **“Smart Grid for Rural Development Challenges and Solutions”**

Kancheipuram, July 25-26, 2019

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

Thirty-fifth National Convention of Electrical Engineers on **“Storing Energy for a Sustainable Future: Future Energy in any Isolated World”**

Chennai, November 8-9, 2019

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

International Conference on **“Grid Integration for Variable Energy Resources (GIVER)”**

Kolkata, November 23-24, 2019

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

Electronics & Telecom. Engineering Division

All India Workshop on **“Optical Fibre Technology and Photonic Integrated Devices for Communication and Industrial Applications”**

Tiruchirappalli, June 10-11, 2019

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

National Workshop on **“Single Board Computer for Real-Time Applications”**

Surat, July 5-6, 2019

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

All India Seminar on **“Signal Processing, Statistics and Analysis”**

Hosur, July 08-09, 2019

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

All India Seminar on **“Internet of Things for Smart Applications”**

Madurai, July 18-19, 2019

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

All India Seminar on **“Role of Geospatial Technology for Precision Agriculture”**

Coimbatore, July 29-30, 2019

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

All India Seminar on **“Overview on Image Processing and Cyber Security”**

Hyderabad, August 10-11, 2019

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

International Conference on **“Electronics & Communications, Renewable Energy and IOT-Vision 2040”**

Chandigarh, September 07-08, 2019

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg, Sector 19-A,

Chandigarh 160019 [☎: (0172) 2775418; Fax: (0172) 2540133; e-mail: pcsc@ieindia.org]

All India Seminar on **“Artificial Intelligence: An Application Perspective”**

Coimbatore, September 20-21, 2019

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

Thirty-fifth National Convention of Electronics & Telecommunication Engineers on **“Intelligent Electronics Systems for State-of-the-Art Healthcare System”**

Kurukshehra, October 19-20, 2019

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

Environmental Engineering Division

One Day Seminar on **“Water Solution for Smart Governance”**

Hyderabad, June 04, 2019

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

All India Seminar on **“Waste to Wealth”**

Raipur, June 8-9, 2019

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

All India Seminar on **“Environmental Sustainability of the Iron and Steel Industry through New Technologies”**

Ranchi, June 29-30, 2019

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

All India Seminar on **“Environmental Pollution Issues in Urban Areas”**

Jaipur, July 06-07, 2019

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

Thirty-fifth National Convention of Environmental Engineers on **“Green Technology for Clean & Green India”**

Bangalore, August 17-18, 2019

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

All India Seminar on **“Solid Waste Management: An Industrial Perspective”**

Bokaro Steel City, September 21-22, 2019

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



International Conference on **“Environmental Degradation: Key Challenges to Sustainable Development”**

Hyderabad, November 22-24, 2019

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

Thirty-sixth National Convention of Environmental Engineers on **“Waste Recycling and Reuse”**

Kochi, August 07-08, 2020

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

Marine Engineering Division

All India Seminar on **“Dredging Technology in Remediation and Environmental Protection Application”**

Jaipur, August 03-04, 2019

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

Thirty-third National Convention of Marine Engineers on the theme **“A Safe and Environment Friendly Maritime Sector: Vision for Future”**

Kochi, August 30-31, 2019

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

Mechanical Engineering Division

All India Seminar on **‘Rural Industrialization through Innovative Process Mechanization’**

Guwahati, June 08-09, 2019

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

One Day Workshop on **“Advancement and Development in Material Handling System”**

Ranchi, June 16, 2019

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

All India Seminar on **“Application of Computational Fluid Dynamics in Heat Transfer and Energy Systems”**

Tiruchirapalli, June 28-29, 2019

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

One Day Seminar on **“Smart Manufacturing using IoT”**

Coimbatore, July 03, 2019

The Honorary Secretary, IEI, Coimbatore Local

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

All India Seminar on **“Manufacturing Application of Micromachining for Automobile Components”**

Kanchepuram, July 12-13, 2019

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

All India Seminar on **‘Advances in Manufacturing Systems and Composites Fabrication’**

Jaipur, July 13-14, 2019

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

All India Workshop on **‘Additive and Advanced Manufacturing’**

Bengaluru, July 29-30, 2019

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

All India Seminar on **“Scope and Opportunity of Hydropower and Wind Power in NER”**

Mizoram, August 02-03, 2019

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

All India Seminar on **“Tribology as Energy Saver for Mining & Heavy Industries”**

Ranchi, August 24-25, 2019

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

Thirty-fifth National Convention of Mechanical Engineers, on **“Trends and Developments in Automotive Industry”**

Hosur, September 13-14, 2019

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

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

Agartala, September 05-06, 2020

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

Thirty-seventh National Convention of Mechanical Engineers on **“Application of IoT and Big Data in Manufacturing and Associated Field”**

Delhi, September 10-11, 2021

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, 2 Bahadurshah Zafar Marg, New Delhi 110002 [☎: 011-23379052 / 23379948; e-mail: delhisc@ieindia.org; website: www.ieidsc.in]

Metallurgical & Materials Engg. Division

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

Kolkata, November 01-03, 2019

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

Mining Engineering Division

International Conference of Mining Engineers on **“Mining – Present and Future : Investments, Issues and Challenges”**

Hyderabad, October 23-24, 2019

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

Textile Engineering Division

One Day Workshop on **“Technical Textile”**

Solapur, July 20, 2019

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

Interdisciplinary

One Day Seminar on **“Challenges & Issues for MSME & Entrepreneurs in Engineering Projects”**

Durgapur, June 16, 2019

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

All India Seminar on **“Role of Embedded Systems in Industry 4.0: The Fourth Industrial Revolution”**

Coimbatore, August 30-31, 2019

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

All India Seminar on **“Green Energy Technologies for Sustainable Environment”**

Pune, October 12-13, 2019

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

International Conference on **“Innovative Engineering for Smart Cities, High Speed Transport and Infrastructure”**

Chennai, November 18-20, 2019

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

One Day Seminars/Workshops Conducted by Various Centres of IEI

STATE CENTRES

Uttar Pradesh

Uttar Pradesh State Centre of the Institution organized One day Seminar on 'Machine Learning with Applications to Security' under the aegis of Computer Engineering Division Board of IEI on April 7, 2019 at Lucknow.



Prof S P Tripathi graced the occasion as the Chief Guest and addressed the gathering. Other dignitaries included Dr Raghuvir Kumar, Director General, B N College of Engineering

and Technology; Prof Bharat Raj Singh, Immediate Past Chairman of the Centre; Prof M K Dutta, Centre for Advanced Studies, Dr A P J Abdul Kalam Technical University, Lucknow; Dr Praveen Shukla, BBD Northern India Institute of Technology, Lucknow and Dr Arunima Verma, IET Lucknow who spoke on the occasion.

LOCAL CENTRES

Bhimavaram

Bhimavaram Local Centre of the Institution in association with Departments of Civil Engineering, Mechanical Engineering and Electrical & Electronics Engineering, Sir C R Reddy College of Engineering (CRRCOE), Eluru organized One day Seminar on 'Effects of Wind on Structural and



Façade Design and Simulation of Actual Atmospheric Boundary Layer and Studies in the Wind Tunnels' under the aegis of Civil Engineering Division Board of IEI on January 8, 2019 at Elluru. Mr Venukumar Balla, Country Manager, Wind Engineer Consultant of CPP Wind Engineering & Air Quality Consultants graced the function as the Chief Guest. Other dignitaries namely, Dr K Venkateswara Rao, Head, Department of Electrical and Electronics Engineering; Dr G Samba Siva Rao, Principal of CRRCOE; Prof A Srinivasa Reddy, Head, Department of Electrical and Electronics Engineering, CRRCOE and Prof K Venkateswara Rao, Head, Department of Mechanical Engineering, CRRCOE also spoke on the occasion.

Bhimavaram Local Centre of the Institution in association with the Departments of Mechanical and Civil Engineering, Sir C R Reddy College of Engineering (CRRCOE), Eluru organized One day Seminar on 'Sustainable Solid Waste Management for Smart Cities' under the aegis of Environmental



Engineering Division Board of IEI on February 9, 2019 at Elluru. Mr N V K Durga Rao, Secretary, Sir C R R Educational Institutions graced the occasion as the Chief Guest. Other dignitaries present on the occasion included Dr G

Samba Siva Rao, Principal of CRRCOE; Mr S Venkateswarlu, Executive Engineer, Andhra Pradesh Pollution Control Board and Mr M Manoj Kumar, Program Manager (ASCI), Swatchhaandhra Corporation.



Bhimavaram Local Centre of the Institution in association with Department of Mechanical Engineering, Sri Vasavi Engineering College, Tadepalligudem organized One day Workshop on 'Computational Fluid Dynamics using MATLAB' under the aegis of

Mechanical Engineering Division Board of IEI on February 23, 2019 at Tadepalligudem. Dr V R K Raju, Associate Professor, NIT Warangal graced the occasion as the Chief Guest. Eminent Speakers namely, Dr Guduru VNSR Ratnakara Rao, Principal, Dr P V V Rama Rao, Dean (R&D) and Dr M V Ramesh, Head, Department of Mechanical Engineering, Sri Vasavi Engineering College also addressed the gathering.

Durgapur

Durgapur Local Centre of the Institution in association with NSHM Knowledge Campus, Durgapur organized One day Seminar on 'Digitally Mixed and Biomedical Signal Processing' under the aegis of Electronics & Telecommunication Engineering Division Board of IEI on April 9, 2019 at Durgapur. Eminent dignitaries graced the



occasion included, Prof Sudipto Sarkar, Dean, NSHM Knowledge Campus, Durgapur, Prof A Mal, NIT Durgapur, Dr Aniruddha Chandra, NIT Durgapur, Prof A D Barman, Department of Radio Physics & Electronics, Calcutta University and Prof P K Ghosh, Department of Electronics & Communication Engineering, Techno International, New Town, Kolkata.

Solapur



Solapur Local Centre of the Institution in association with J J Towels Pvt. Ltd. (Gaddam Textiles), Solapur organized One day Workshop on "5 S: Workplace Organization

Methodology" under the aegis of Mechanical Engineering Division Board of IEI on January 27, 2019 at Solapur. Mr Pentappa Gaddam, Director, J J Towels Pvt. Ltd. and President, Textiles Association, Solapur graced the occasion as the Chief Guest. Other dignitaries present on the occasion included, Mr H N Somani, former Chairman of the Centre and Mr P K Magdum, Honorary Secretary of the Centre.

South Gujarat

South Gujarat Local Centre of the Institution in association with the Department of Electronics & Communication Engineering, Sarvajnik College of



Engineering & Technology (SCET), Surat, organized One day Workshop on 'IoT Applications using Raspberry PI' under the aegis of Electronics and Telecommunication Engineering Division Board of IEI on March 15, 2019 at Surat. Resource persons present on the occasion included, Mr Chintan Panchal, Assistant Professor, Department of Electronics & Communication Engineering (ECE), SCET; Mr Pritesh Saxena, Assistant Professor, ECE, SCET; Mr Bhargav Shah, Assistant Professor, ECE, SCET and Mr Shubham Sanghavi, Machine Learning Engineer, Inkocean Pvt. Ltd., Surat.

IEI Industry Excellence Award 2019 Request for Participation

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

Applications are invited under following categories

(a) Engineering Manufacturing & Processing (EMP)

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

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

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

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

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

(b) Engineering Services and Consultancy (ESC)

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

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

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

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

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

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



The Institution of Engineers (India)

Notification for

R&D Grant-in-Aid (2019-20)

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/PhD 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 2019-2020 for funding R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions/Colleges/Universities. 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 of IEI. Membership criteria for student(s), guide(s) and Institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory
2. UG (BE/BTech/AMIE/Equivalent)	'Student Member' (SMIE)	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank
3. PG (ME/MTech/Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank

The soft copy of the duly filled-up applications (in editable format), as per the proforma available in our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same 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) and with NBA / NAAC Accreditation or valid NIRF Rank. 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.

News-in-Brief

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Tiruchirappalli

Lecture on 'Experimental Model Analysis on Composite Structures' delivered by Mr D R Rajkumar, Assistant Professor, Department of Mechanical Engineering, Care Group of Institutions, Tiruchirappalli on February 26, 2019.

Lecture on 'Latest Developments in the Use of Basalt Composites in Construction Industry' delivered by Mr K R Nandagopal, Assistant Professor, Indian Institute of Handloom Technology, Salmis on March 5, 2019.

Lecture on 'Digital Marketing' delivered by Mr Johnson, Managing Director & CEO, Shalom-InfoTech, Trichy on March 12, 2019.

Visakhapatnam

Celebrated National Safety Day 2019 on the topic 'Cultivate and Sustain a Safety Culture for Building Nation' on March 4, 2019.

OVERSEAS CHAPTERS

Qatar

Seminar on 'Importance of ISO 45001 in Improving Workplace Safety' on April 22, 2019.

Advertisement Rates in IEI Publications

IEI News (Printed + online)

Reach : 1,25,000 members by email + 3200 hard copies to industries, Government Departments and others + Available online

Schedule : Monthly - 12 issues in a year

Rate per issue

Description	Size	Type	Total Cost (Rs.) (including GST)
Inside Full Page	20.6 cm (width) x 27.6 cm (height)	Colour	50,000
Inside Half Page	20.6 cm (width) x 13.75 cm (height)	Colour	30,000
Inside Quarter Page	10.3 cm (width) x 13.75 cm (height)	Colour	15,000
5% discount for advertisement in 6 consecutive issues 10% discount for advertisement in 12 consecutive issues			

IEI Epitome (Online)

Reach : 1,25,000 members by email + Available online perpetually

Schedule : Monthly - 12 issues in a year

Rate per issue

Description	Size	Type	Total Cost (Rs.) (including GST)
Inside Full Page	18.9 cm (width) x 23.1 cm (height)	Colour	30,000
Inside Half Page	18.9 cm (width) x 11.55 cm (height)	Colour	15,000
Inside Quarter Page	9.46 cm (width) x 11.55 cm (height)	Colour	8,000
5% discount for advertisement in 6 consecutive issues 10% discount for advertisement in 12 consecutive issues			

Annual Technical Volumes of Engineering Divisions (Printed + online)

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

Reach : 1,25,000 members by email + 500 hard copies to industries and Government Departments + Available online

Schedule : One issue in a year per Engineering Division

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Description	Size	Type	Total Cost (Rs.) (including GST)
Back Cover Page	16.8 cm (width) x 22.6 cm (height)	Colour	30,000
Inside Cover Page	16.8 cm (width) x 22.6 cm (height)	Colour	25,000
Inside Full Page	16.8 cm (width) x 22.6 cm (height)	Colour	20,000
Inside Full Page	16.8 cm (width) x 22.6 cm (height)	B/W	15,000
Inside Half Page	16.8 cm (width) x 11.3 cm (height)	B/W	8,000

For booking, Please write to:

Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata - 700020

Email: technical@ieindia.org

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