

Volume 67

Number 12

Twenty-ninth National Convention of Mining Engineers, Salem

Sustainable Open Cast Mining in Small Mines

Salem Local Centre of the Institution in association with the Department of Geology, Periyar University, Salem and Geo Exploration and Mining Solutions (GEMS), Salem organized the Twenty-ninth National Convention of Mining Engineers and National Seminar on the theme 'Sustainable Open Cast Mining in Small Mines' during February 22-23, 2018 at Salem. The Chief Guest, Prof P Kolandaivel, Vice Chancellor, Periyar University, Salem, in his inaugural address, spoke about the evolution of science from philosophy. He also spoke about the geological science and its significance in mining. He expressed hope that the Seminar will address issues related to mine safety and environment. The Guest-of-Honour, Mr B P



Singh, Director of Mines Safety, DGMS, Chennai Region, explained the plight of the small mines, majority of which were closed, as they were unable to comply with the environmental norms set by the Ministry of Environment, Forest and Climate Change (MoEFCC). He further mentioned that in most of these small mines, mining was carried out under extremely hazardous conditions and mine owners were unaware of the safety regulations in place. Mr Singh concluded with the view that we must not forget that a safe mine is a productive mine. Mr D V Pichamuthu, Chairman, Mining Engineering Division Board (MNDB), IEI, while presiding over the inaugural session, appreciated the effort of the Host Centre for organizing this Convention in the right spirit. Mr Pichamuthu explained that on one hand, the small mines don't have enough resources but they need to obey the environmental norms and safety practices in order to avoid closure. He further exhorted the mining to come up with innovative and sustainable mining practices for small mines to thrive and flourish. Dignitaries, namely, Dr G Ranganath, Chairman, Tamilnadu State Centre, IEI; Mr P Selvakumar, Member, MNDB, IEI & Director, Planning and Projects, NLC India Limited; Mr E Thirunavukkarasu, Joint Director, Ministry of Environment, Forest and Climate Change and Dr Ifthikar Ahmed. Managing Partner, GEMS, Salem, also expressed their views. The prestigious 'Prof S K Bose Memorial Lecture' was delivered by Dr A Perumal, Principal Adviser, (on World Bank Project), Centre for Environment and Development (CED), Hyderabad on the topic 'Geo-spatial Contd. on page 3

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



We are now in the middle of a globalised economy where pace of development and technological inputs are constantly changing resulting in rapid obsolescence of knowledge and skill due to newer stateof-the-art technologies. In the

era of competitiveness and consumerism, trained technical manpower is needed to cater to industries, R&D organisations and academic institutions. In order to bridge the gap between the requirement and availability of highly specialised and trained manpower in emerging areas of technology, engineers require to update their knowledge and competence at regular intervals. Thus, continuous skill development is not optional any more but a dire necessity.

The Institution of Engineers (India) has State and Local Centres spread all over the country, who are regularly organizing technical activities to facilitate skill development and knowledge updations on various emerging areas of cutting edge technologies. In addition to Seminars, Workshops and Conventions, the Centres also observe statutory days like Engineers' Day, World Water Day, World Telecommunication and Information Society Day, World Environment Day, World Habitat Day, World Standards Day and Energy Conservation Day on contemporary global themes. Participation in these technical activities not only enhances knowledge levels but also provides a platform to interact with fellow engineers and other stakeholders and share their experience for mutual benefit.

We are going to organize seminars / workshops on some very important issues like 'Earthquake Resistant Analysis and Design of Structures' at Bhubaneswar during May 19-20, 2018, 'Opportunity and Challenges in Opinion Mining' at Kanchepuram on April 02, 2018, 'Challenges

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I.E.I NEWS

March 1, 2018

International Conference held at Ranchi

Future Material Handling Prospects – Opportunities and Challenges

Jharkhand State Centre of the Institution in association with RICE LAKE, USA and NHI, China and supported by MECON Limited, Ranchi organized an International Conference on 'Future Material Handling Prospects – Opportunities and Challenges' under the aegis of Mechanical Engineering Division, IEI during January 27-28, 2018 at Ranchi. Mr Atul Bhatt, Chairman & Managing Director, MECON Limited, Ranchi, graced the occasion as the Chief Guest. Mr Bhatt, during his address, mentioned that material handling is associated with time, space and manpower factors, which leads to improvement of productive efficiency and overall development. He stated that major productivity parameters are associated with cost-effective material handling. Mr Bhatt emphasized on handling of particular categories of materials where cost of delivery is more than cost of manufacturing.



He also spoke about various aspects of material handling equipment in manufacturing sector with focus on state-of-the-art material handling system. Mr P K Sarangi, Director (Technical), MECON Limited, Ranchi, graced the occasion as the Guest-of-Honour. In his address, Mr Sarangi highlighted the significance of bulk material handling in different industries and further emphasized to meet the challenges in material handling maintaining environmental norms. He enumerated that rapid expansion of industries result more efficient handling, storage, reclamation of materials, starting from raw materials to finished goods. He further emphasized on automation in different material handling function with the objective to achieve more accuracy and operational efficiency. Mr Sarangi also highlighted the significance of logistic chains and optimum logistic support for port operations. The Keynote Speaker, Mr G Guru Ganesh, Director, India Operations, Rice Lake Weighing Systems, USA, in his address, explained different aspects of industrial growth and productivity and their impact on standard of living. He mentioned that productivity growth depends on development of human capital, infrastructure, R&D and innovation with the objective to reduce time, space, manpower and money, which can be achieved through efficient material handling technologies with improved engineering solutions. Earlier, Mr Sanjay Sen, Chairman of the Centre, while welcoming the august gathering, emphasized on decreasing pollution level by reducing junction boxes and moisture control of conveying material as increased moisture content consumes more energy. He also mentioned the significance of vertical piling instead of horizontal piling to reduce the base area. The inaugural session concluded with the vote of thanks proposed by Mr M R Kumar, Honorary Secretary of the Centre. On this occasion, a Souvenir containing the abstract of papers was brought out and released by the dignitaries. A Technical Exhibition was also organized where a number of reputed companies exhibited their products in material handling and associated areas which evoked keen interest amongst the participants. Significant numbers of papers embracing the theme of the Conference were Contd. on page 3

Transit Oriented Development in Urban Areas

Telangana State Centre of the Institution organized a two-day All India Seminar on the theme 'Transit Oriented Development in Urban Areas' under the aegis of Civil Engineering Division. IEI during January 19-20, 2018 at Hyderabad. The Chief Guest. Mr Somarapu Satvanaravana. Chairman. Telangana State Road Corporation and Member of Legislative Assembly. inaugurated the Seminar. Mr Satyanarayana, in his inaugural address, suggested that a separate bus lane should be allocated exclusively for public transport and for smooth traffic flow. He urged that the usage of town vehicles should be reduced and suggested to use public transport and to control traffic congestions. He felt that attitude of the people and Government should also be changed in this respect. The Chief Guest also highlighted the current transportation facilities and future project implementations for Hyderabad City. Dr B Janardhan Reddy, Commissioner, Greater Hyderabad Municipal Corporation, Hyderabad graced the function as the Guest-of-Honour. Dr Reddy, in his address, stressed the need to keep the city clean and maintain good hygiene. He mentioned that the action plans adopted by Greater Hyderabad Municipal will bring such awareness among the common people. Dr Reddy called for change in citizen's attitude and suggested that people should make it a habit to travel either by buses, MMTS or Metro Rail. He also advised to reduce the usage of own vehicles. Mr P Ravi Shankar, General Manager, L&T Metro Rail (Hyderabad) Limited, Hyderabad, threw lights on salient features of Metro Rail Project Hyderabad and Transit Oriented Development (TOD) projects undertaken by L&T Hyderabad. Dr S Nagabhushana Rao, Co-Chairman, Organizing Committee,



gave introduction on the concept of Urban Transport Planning and ideas on concept of TOD and technologies of transportation engineering. Dr S Satyanarayana, Chairman of the Centre, presided over the function. Earlier, Mr G Rameshwara Rao, Honorary Secretary of the Centre, welcomed the august gathering. Dr G Shravan Kumar, Joint Honorary Secretary of the Centre proposed the vote of thanks. A Panel Discussion, chaired by Dr S Nagabhushana Rao, was also conducted where eminent experts from academia and industry discussed various technical issues embracing the theme of the Seminar. A large number of papers on various sub-themes were presented and discussed during the technical sessions. Dr S Nagabhushana Rao in his lecture on 'The Future Trend in Urban Development', explained about alternative modes of transportation that are indirectly affecting the land use pattern and urban development of the city. Dr T S Reddy, Senior Consultant, LEA Associates South Asia Pvt Ltd, highlighted the concept of TOD. Dr Sundarsanam Padam, Advisor & Former Dean of Studies, ASCI, presented paper on 'Urban Transit's First Mile Reflections on TOD of Urban Areas'. Others speakers discussed various aspects embracing the theme of the Seminar, such as, TOD, traffic congestion, traffic impact study, etc.



Thirty-first National Convention of Aerospace Engineers, Chennai

Innovation, Trends and Strategies of Indian Aerospace Sector – Present and Future

Tamilnadu State Centre of the Institution in association with Sathvabama Institute of Science and Technology, Chennai organized the Thirty-first National Convention of Aerospace Engineers and National Seminar on the theme 'Innovation, Trends and Strategies of Indian Aerospace Sector - Present and Future' during February 09-10, 2018 at Chennai. The Chief Guest Dr A Shunmugam, Deputy Director General, DGCA (SR), in his inaugural address, highlighted the challenges being faced by Indian Aerospace Industry in terms of manpower, aircraft R&D, demand supply management and so on. He further emphasized on the applications of universal compliance of standards and recommended practices for aircraft manufacturing, operations and maintenance. Dr Shunmugam felt that national laboratories should undertake more research work in the field of civil aviation. Dr M K Padmanabhan, Director, Virginia Tech India Centre for Research and Education, Chennai, graced the occasion as the Guest-of-Honour. In his address, Dr Padmanabhan, highlighted the future challenges of Indian Space Research and stressed on guality and reliability of Indian Aerospace Industry. He further explained the prospect of aerospace industry as one of the most important areas for investment and entrepreneurship. On this occasion, four eminent engineering personalities,



namely, Dr M K Padmanabhan, Director, Virginia Tech India Centre for Advanced Research & Education, Chennai; Dr P Theerthamalai, Scientist G, Defence Research and Development Laboratory, Government of India, Hyderabad (in absentia); Mr M S Jayachandran. Scientist G and Group Director, DTGG/IISU, Vikram Sarabhai Space Centre, Indian Space Research Organisation, Thiruvananthapuram; and Mr Anil B Gharad, General Manager, Aircraft Manufacturing Division, Hindustan Aeronautics Limited, Nashik, were felicitated for their valuable contributions in the field of aerospace



engineering. The prestigious 'Dr Vikram Sarabhai Memorial Lecture' was delivered by Mr P Kunhikrishnan, Director, Satish Dhawan Space Centre SHAR, Sriharikota Range, Nellore, Andhra Pradesh, on the topic 'Indian Space Programme: Past, Present and Future'. During his address, Mr Kunhikrishnan explained the phenomenal growth of Indian Space Programme, objectives of Indian Space Mission, application of launch

vehicles, evolution of launching pads and so on. He also spoke about the significance of remote sensing technology and its application in climatology, disaster management etc. Earlier, Dr G Ranganath, Chairman, Tamilnadu State Centre, welcomed the august gathering. Mr R Ramdoss, Honorary Secretary of the Centre, proposed the vote of thanks. The State-of-the-Art Lecture was delivered by Dr M K Padmanabhan on the topic 'Unmanned Ariel Vehicle: Trends, Technologies and Applications'. The first Keynote Address was delivered by Mr M S Jayachandran on the theme 'Recent Advances in the Aerospace Fields'. Mr Jayachandran highlighted the objectives, mission of Indian Space Programme, gradual development of Indian Space Research starting from ancient sounding rockets to the recent SLV, ASLV, PSLV and GSLV. Mr Anil B Gharad delivered the second Keynote Address on the topic 'Recent Trends in Aerospace Field'. He discussed various aspects of foreign technology transfer in Indian aerospace industry. The 'IEI Young Engineers Award' for the year 2017-18 in the field of Aerospace Engineering was presented to Mr Aldin Justin Sundararaj, Assistant Professor, Department of Aerospace Engineering, Karunya University, Coimbatore; Dr P Mahendera Prabhu, Associate Professor, Department of Mechanical Engineering, Kurinji College of Engineering and Technology, Trichy and Mr Mahesh Datta Dhone, Research and Development Engineer, Chair of Modeling and Simulation, University of Rostock, Germany. During the Valedictory Session, Mr Sisir Kumar Banerjee, President, IEI, graced the occasion as the Chief Guest. In his address, Mr Banerjee mentioned that over the past few years, Indian Aerospace Industry has witnessed an impressive growth with major contribution from civil aviation segment, which is further strengthened through government and private sector participation. 'The clarion call of our Prime Minister on "Swachh Bharat", "Make-in-India", "Smart Cities", "Digital India", "Bharatmala Project", "Sagarmala Project" and other programmes, provide us the much needed opportunity to develop indigenous environment-friendly technology and engineering practices', added Mr Banerjee. During this two-day activity, papers on various subthemes of the National Seminar were presented and discussed during technical sessions.

Future Material Handling Prospects – Opportunities and Challenges

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presented and discussed during the technical sessions. The Conference deliberated on number of future prospects of material handling industry and highlighted various challenges and opportunities for the industry. The International Conference was concluded with panel discussion and a valedictory session. During valedictory session, Mr Goutam Chakraborty, Executive Director, MECON Limited, Ranchi was the Chief Guest. A large number of delegates from various parts of the country including MNCs, namely, F Harley and Co, USA; F L Smith, Denmark; Hein Lehman India Pvt Ltd, Germany; Kone Cranes Pvt Ltd, Norway; Schenck Process Group, Germany; Tega Industries, USA; Thyssenkrupp Industries Pvt Ltd, Germany; Volth Turbo Pvt Ltd, Germany; DOCON, Russia, etc, attended the Conference.

Sustainable Open Cast Mining in Small Mines

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Technologies for Sustainable Mining'. Earlier, Mr K Pandian, Chairman of the Centre, welcomed the august gathering and Prof S Venkateswaran, Co-Convener, Organizing Committee elaborated the theme of the National Seminar. Mr S R Saravanan, Honorary Secretary of the Centre, proposed the vote of thanks. Significant numbers of papers/invited lectures, embracing the theme of the National Seminar, were presented and discussed during the technical sessions. These include presentation on monitoring of ground water quality in and around the mining belt to assess its possible impact on the surrounding localities and determining its suitability for use in domestic and irrigation purposes and geological aspects involved in the mining.

Recent Development in Mechanical Engineering: Computational Heat Transfer, Fluid Flow and Energy Systems

Kerala State Centre of the Institution in association with Sree Chitra Thirunal College of Engineering (SCTCE), Thiruvananthapuram, organized a two-day All India Seminar on the topic 'Recent Development in Mechanical Engineering: Computational Heat Transfer, Fluid Flow and Energy Systems' under the aegis of Mechanical Engineering Division, IEI during January 19-20, 2018 at Thiruvananthapuram. Dr M C Dathan, Former Director, VSSC



and Scientific Advisor to Chief Minister of Kerala graced the occasion as the Chief Guest. Dr Duthan, in his augural address, dwelt in depth on the development in Mechanical Engineering and use of space science in particular. He highlighted the importance of skill development among the engineering students and stressed on three factors, viz. communication and social intelligence, commitment to the society and societal attachment. He also spoke about energy systems, like solar energy, wind energy, tidal energy and non-conventional energy. Dr Dathan informed that Aditya Mission is doing complex mission study more about the sun and its solar flame. 'ISRO have made soft computing in Mangalyaan Mission (Artificial Intelligence) and total software has been developed by our own engineers', he added. He finally advised the students to utilize the facilities offered by IEI for improving technical knowledge and for carrying out the project work. Dr M P Sukumaran Nair, Chairman, RIAB and Council Member, IEI, in his

Keynote Address, called upon the students to develop scientific talent and to keep abreast with the modern developments. Dr Nair further stated that only software developments are profiteering in India and hardware development is lagging due to lack of allotment of sufficient fund by the government. According to him, large capacity plants can be developed and modernized using latest CFD techniques. He gave more thrust to R&D activities in India. The inaugural session was presided over by Mr N Raikumar, Chairman of the Centre. In his address. Mr Raikumar pointed out that taking membership of IEI is essential for engineers' professional growth. He also highlighted various technical activities of IEI in detail. Earlier, Prof (Dr) S H Anilkumar, Principal, SCTCE, welcomed the august gathering and Dr R Ajith, Head, Mechanical Engineering Department, SCTCE, elaborated the theme of the Seminar. The inaugural session was concluded with the vote of thanks proposed by Mr Udaya Kumar K S, Honorary Secretary of the Centre. A large number of papers embracing the theme of the Seminar were presented and discussed during technical sessions. Prof M Jose Prakash, Head, Mechanical Engineering Department, TKM College of Engineering, Kollam, delivered invited talk on the topic 'Potential of Nanotechnology on Energy Savings in Refrigeration Systems'. He highlighted the importance of machines, robotics and sensors in the field of nanotechnology. He also mentioned that nanotechnology is widely used in fabrics, medicine, electronics and energy systems. Dr Ashraf, Group Director, LPSC, ISRO, Thiruvananthapuram, in his invited lecture on 'Structural Technologies for Launch Vehicles', spoke about ISRO launch vehicles including development of heavy lift vehicle, reusable launch vehicle, liquid propulsion system, cryogenic and semi cryogenic propulsion and electric propulsion. He also explained about indigenously developed cryogenic stage and its structural analysis. A panel discussion was held by a team comprising of Mr S Radhakrishnnan, Dr S B Tiwari scientist/Engineers VSSC, TVM, Dr Sarat Chandra Das, Dean (PG Students) SCTCE, Dr Ajith M, SCTCE and Dr Ramesh Kumar, SCTCE. The panelists clarified the points raised by the audience including students, guest faculty, SCTCE faculties and Corporate Members of IEI.



I.E.I NEWS March 1, 2018

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

Mechanics, Design and Testing of Composite Materials

Madurai Local Centre of the Institution organized a two-day All India Seminar on the theme 'Mechanics. Design and Testing of Composite Materials' under the aegis of Metallurgical and Materials Engineering Division, IEI, during January 4-5, 2018 at Madurai. Prof (Dr) P Udhayakumar, Head, Mechanical Engineering Department, KLN College of Engineering (KLNCE), Madurai, delivered the welcome address and elaborated the theme of the Seminar. Mr K Vijaya Kumar, Chairman of the Centre, delivered the inaugural address and presided over the function. Dr A Ramprasadh, Principal, KLNCE; Mrs A Hemalatha, Associate Professor, KLNCE; and Mr J Samuel, Honorary Secretary of the Centre were also present on the occasion. Mrs A Hemalatha, Associate Professor, KLNCE proposed the vote of thanks at the end of the inaugural session. A large number of papers on various subthemes were presented and discussed during technical sessions. Prof (Dr) P Udhayakumar, Head, Mechanical Engineering, KLNCE, delivering lecture on 'Classification and Characteristics of Composite Materials', stated that composites are artificially produced multiphase materials and these are the designed materials with properties better than those of conventional materials (metals, ceramics, or polymers). He also explained the history of composite materials, various phases and its characteristics with its benefits. Speaking on the topic 'Mechanical Behaviour of Composite Materials', Dr B Stalin, Assistant Professor & Head I/C, Mechanical Engineering, Anna University Regional Campus, Madurai, explained the nature of origin, reinforcement, size of reinforcement and its matrix and also spoke about the terminologies/classifications and importance of composites. He said that composites can be very strong and stiff but very light in weight, so that, the ratio of strength to weight and stiffness to weight is several times greater than steel or aluminium; in addition they have high creep resistance. Dr Stalin also delivered lecture on 'Manufacture of Composite Materials'. Dr

V Balasubramani, Assistant Professor, Mechanical Engineering, Thiagaraiar College of Engineering, Madurai, delivered lecture on 'Overviews Smart Grid Stand Design of Composite Materials'. He said that composite materials are engineered materials made from two or more constituent materials with significantly different physical or chemical properties which remain separate



and distinct at the macro-scope or microscope scale within the finished structure. He spoke about various types of composite materials, composite strength and use of composites. Dr Balasubramani also delivered lecture on 'Testing of Composite Materials' and mentioned that tests are done to determine material properties, such as, modulus and strength for use in design and analysis. He stated that tests are helpful in determining the quality or acceptability of specific components during manufacturing. Ms A Hemalatha, Associate Professor, Mechanical Engineering, KLNCE, delivered lecture on 'Application of Composite Materials'. She stated that composite materials have durability, toughness, high strength, low weight, design flexibility, impact resistance, corrosion resistance etc. She highlighted various applications of composite materials in various fields, such as, marine, automobile industries, wind mill, green building and pollution control, biomedical industries, roads and structures, space and aerospace engineering, etc.

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The Institution of Engineers (India)

Sir R N Mookerjee Engineering Information Service Centre IEI Headquarters, Kolkata

New Arrival of Books

Title and Author

- Earthquake Resistant Design of Building Structures; Vinod Hosur
- Guide to Wireless Network Security; John R. Vacca
- Design of Reinforced Concrete Structures; N. Subramanian
- Mechanical Design: A Practical Insight; M. A. Parameswaran
- Project Management: A Systems Approach to Planning, Scheduling and Controlling: Harold Kerzner
- Solid State Physics: Introduction to the Theory; James D. Patterson, Bernard C. Bailey
- Fundamentals of Reinforced Cement Concrete Designs; P. S. Gahlot, Deep Gehlot
- Manufacturing Processes and Systems; Phillip F. Ostwald, Jairo Munoz
- PRO/ENGINEER PTC Creo Parametric 3.0 for Engineers and Designers (3rd Ed.); Sham Tickoo
- NX 10.0 for Engineers and Designers (9th Ed.); Sham Tickoo
- SOLIDWORKS 2016 for Engineers and Designers (14th Ed.); Sham Tickoo
- CATIA V5-6R2015 for Engineers and Designers (13th Ed.); Sham Tickoo Dreamtech Press
- Linear Systems; Panos J. Antsaklis, Anthony N. Michel

Publisher Wiley India Pvt. Ltd.

Springer Oxford University Press New Age International (P) Ltd. Wiley India Pvt. Ltd.

Springer

CBS Publishers & Distributors Pvt. Ltd. Wiley India Pvt. Ltd.

Dreamtech Press

Dreamtech Press Dreamtech Press

Birkhauser

- Digital Control Systems: Design. Identification and Implementation: Springer Ioan D. Landau, Gianluca Zito • CAD/CAM/CIM; P. Radhakrishnan, S. Subramanyam, V. Raju
- Engineering Drawing (Geometrical Drawing); P. S. Gill
- Environmental Science (8th Ed.); Daniel B. Botkin, Edward A. Keller
- Fine Tuning of Road and Building Projects: An Outcome of Practice; Nandanandan Das
- Water Supply Engineering (29th Rev. Ed.); Santosh Kumar Garg
- Electrical Engineering Drawing (2nd Ed.); S. K. Bhattacharya
- Electronic Devices and Circuits (5th Rev. Ed.); J. B. Gupta
- Computer Aided Simulations; Lanka Udawatta, Buddhika Jayasekara
- Solid State Physics (7th Ed.); S. O. Pillai
- Earthquake Resistant Design and Risk Reduction (2nd Ed.); David Dowrick
- Mechanisms in Advanced Organic Chemistry; R. P. Narain
- Fundamentals of Geographic Information Systems (4th Ed.); Michael N. Demers
- Construction Technology (2nd Ed.); Tony Bryan
- Research Methodologies: Methods and Techniques (3rd Ed.); C. R. Kothari, Gaurav Gard
- Building Materials (4th Ed.); S. K. Duggal
- Electrical Properties of Materials (9th Ed.); L. Solymar, D. Walsh, R. R. A. Syms

New Age

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> > I.E.I NEWS

March 1, 2018

05

Ninety-eighth Annual General Meeting of The Institution of Engineers (India)

Proceedings

The 98th Annual General Meeting (AGM) of The Institution of Engineers (India) was held at 1430 hrs on 23 Dec 2017 at Hotel Le Royal Meridien, 1 GST Road, St Thomas Mount, Chennai, Tamil Nadu 600016.

Attended by 156 Corporate Members, the meeting was chaired by Mr Navinchandra B Vasoya, FIE, President of IEI. The President welcomed the Past Presidents, President-elect and Corporate members of IEI present at the meeting.

The President announced that Jharkhand State Centre and Hosur Local Centre of The Institution of Engineers (India) had been adjudged the best State Centre and best Local Centre respectively for their all-round performance during the year 2016-2017. President presented the trophies of the best State and Local Centre Awards, Certificates and cheques of Rs.50,000/- each to the Chairmen of the Centres.

The President, before taking up the Agenda items, informed that during his tenure of office of the President, IEI, the Council took many important decisions for the best interest of the Institution. He thanked the Past Presidents, Council Members and Corporate Members of the IEI for extending their wholehearted support on all his activities during his tenure. He requested the Council Members and the Corporate Members for extending their wholehearted support to Mr Sisir Kumar Banerjee, the incoming President, in all his endeavours.

Thereafter, on being invited by the President, the Secretary and Director General read out the Notice of the meeting published in November 2017 issue of IEI News.

ITEM 1 Confirmation of Minutes of the 97th Annual General Meeting held on 18 Dec 2016 at Kolkata

The Minutes of the 97th Annual General Meeting held on 18 Dec 2016 at Kolkata were circulated to all Corporate Members through Mar 2017 issue [Vol. 66, No.12, Page 5-7] of IEI News. The same was recirculated in the Nov 2017 issue [Vol.67, No.8, Pages 11-13] of IEI News along with the Notice of the 98th Annual General Meeting. President invited comments on the Minutes from the members present. Dr G Ranganath, FIE proposed that the Minutes of the 97th Annual General Meeting of The Institution of Engineers (India) held on 18 Dec 2016 at Kolkata be confirmed. Mr Suneel Grover, FIE seconded the proposal.

It was <u>Resolved</u> that the Minutes of the 97th Annual General Meeting of The Institution of Engineers (India) held on 18 Dec 2016 at Kolkata be confirmed.

ITEM 2 To receive the Annual Report of the Council and the Audited Accounts of The Institution of Engineers (India) for the year ended 31 March 2017

(a) Annual Report

President invited comments from the members present on the Annual Report of the Council for the year 2016-2017 as circulated.

Mr Kashmir Lal Mallik, FIE then proposed that the Annual Report of the Council for the year 2016-2017 be received. Dr G S Mundada, FIE seconded the proposal.

It was <u>Resolved</u> that the Annual Report of the Council for the year 2016-2017 be received.

(b) Audited Accounts

President then invited comments on the Audited Accounts of The Institution of Engineers (India) for the year ended 31 Mar 2017.

Dr S Bhaumik, FIE then proposed that the Audited Accounts of The Institution of Engineers (India) for the year ended 31 Mar 2017 be received. Mr A Mukherjee, FIE seconded the proposal.

It was thereafter <u>Resolved</u> that the Audited Accounts of The Institution of Engineers (India) for the year ended 31 Mar 2017 be received.

ITEM 3 To Receive the Report of the Council on Election of the President and Composition of the Council for the Session 2017-2018

The President announced that the Council had duly elected Mr Sisir Kumar Banerjee, FIE as President of The Institution of Engineers (India) for the Session 2017-2018. The members welcomed the announcement. Thereupon, Mr Sisir Kumar Banerjee took over charge from Mr Navinchandra B Vasoya and presided over the meeting.

Mr Sisir Kumar Banerjee, President presented the Scroll of Honour to Mr Navinchandra B Vasoya, Immediate Past President.

Mr Sisir Kumar Banerjee thanked the Council and the members present for electing him as the President of The Institution of Engineers (India) and sought their help and guidance for further development of the Institution. He then delivered his Presidential Address.

In his address, the President expressed that he was grateful to the Council for having bestowed upon him the opportunity for serving the Institution in this prestigious position. It would be his endeavour to keep up the high standards set by his eminent and illustrious predecessors.

He underscored the necessity of all round agricultural development with the application of innovations in the domain of Science & Technology and stressed that the development of ground water and surface water resources be looked upon as complementary activities to establish planned irrigation facilities ensuring intensive cultivation programme for meeting effectively the goal of making India self sufficient in the production of food grain for the entire population of the country. He considered it to be the biggest challenge before the engineers to ensure best development with least carbon footprint on the environment, creating environment-friendly, ecologically appropriate, energy saving developmental options - sustainable for the present as well as the emerging generations down the line.

He highlighted the necessity of Skill Development enterprise in both public and private sectors, and mentioned of the recent planning and implementation by Government of India of large scale infrastructure to help people to be trained in different spheres of technical jobs and applications, so as to fulfil the requirement of technically skilled manpower and to reduce the colossal scale of unemployment in the country. He marked it as an opportunity for IEI to consolidate on its historical legacy and build further to contribute significantly to the cause of rapid economic development of the Country through use of latest technologies and skilled manpower.

He assured of his constant focus on the members from all disciplines of engineering science and the technical student community in particular who are the strength and source of inspiration. Regular communication with them, organizing more technical activities to ensure their participation and providing them additional benefits aimed at enhancing their professional knowledge would always be his constant effort.

On being requested by Mr Sisir Kumar Banerjee, President, the Secretary and Director General reported the following composition of the Council for the Session 2017-2018:

Mr Sisir Kumar Banerjee, President

(1) Under provisions of Bye-Law 4(a)(ii)

The following, by virtue of their being the two Immediate Past Presidents, shall become Members of the Council for the Session 2017-2018 :

Mr Navinchandra B Vasoya and

Mr H C S Berry

(2) Under provisions of Bye-Law 4(a)(iii)

The following Corporate Member has been declared elected to the Council from the respective State Centre seat for the Sessions 2017-2018 to 2020-2021 and shall be Member of the Council for the Session 2017-2018:

Kerala :: Mr V Vijayachandran Nair

The Corporate Members elected to the Council from the following State Centres shall continue as Members of the Council for the Session 2017-2018 :

Elected for the Sessions 2016-2017 to 2019-2020:

A	ndhra Pradesh	::	Dr K Brahma Raju	
D	elhi	::	Mr Pradeep Chaturvedi	
G	ujarat	::	Mr Sandeep B Vasava	
K	arnataka	::	Dr M Chowde Gowda	
N	laharashtra	::	Mr M B Dagaonkar	
0	disha	::	Dr Nutan Kumar Dash	
Та	amilnadu	::	Mr T M Gunaraja	
Te	elangana	::	Mr G Sudhakar	
U	ttar Pradesh	::	Mr V B Singh	
Elected for the Sessions 2014-2015 to 2017-2018:				
В	ihar	::	Dr Arun Kumar Shrivastava	
JI	harkhand	::	Mr A K Saxena	
N	ladhya Pradesh	::	Mr P P Agarwal	
R	ajasthan	::	Dr S K Calla	
Elected for the Sessions 2015-2016 to 2018-2019				
Н	laryana	::	Mr K C Sethi	
Р	unjab and Chandigarh	::	Mr A S Bakshi	

(3) Under provisions of Bye-Law 4(a)(iv)

The following elected members from 15 Divisional seats for the Sessions 2016-2017 to 2019-2020 shall become members of the Council for the Session 2017-2018:

Aerospace (1)

:: Prof R M Vasagam

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Agricultural (1)	::	Mr D V Nagabhushan
Architectural (1)	::	Mr H K Mittal
Chemical (2)	::	Mr Navinchandra B Vasoya
		Dr M P Sukumaran Nair
Civil (5)	::	Mr Sisir Kumar Banerjee
		Mr Parminder Singh Bhogal
		Mr H O Thakare
		Mr O P Saxena
		Mr Narendra Singh
Computer (2)	::	Mr B S Patel
		Mr K Rajanikanth
Electrical (4)	::	Prof Himansu Bikas Goswami
		Mr Mahendra Ratanlal Kothari
		Mr P Rajamani
		Mr R R Tanwar
Electronics &	::	Dr T S Kamal
Telecommunication (4)		Dr (Ms) Gunnu Padmavathi
		Mr B Brahma Reddy
		Mr S C Rudra
Environmental (1)	::	Dr M Velan
Marine (1)	::	Dr K Gopalakrishnan
Mechanical (5)	::	Dr Swapan Bhaumik
		Dr Wooday P Krishna
		Mr Enti Ranga Reddy
		Mr Jagroop Singh
		Dr K Venkatasubbaiah
Metallurgical & Materials (1)	::	Mr Kishore Kumar Mehrotra
Mining (1)	::	Mr D V Pichamuthu
Production (1)	::	Dr Deb Kumar Tripathi
Textile (1)	::	Dr (Ms) G Thilagavathi

(4) Under provisions of Bye-Law 4(b)(i)

By virtue of being elected as Chairmen of the following State Centres for the Sessions 2017-2018 and 2018-2019 and installed at the Annual General Meeting of the respective State Centres, the following persons shall become members of the Council for its Session 2017-2018:

Haryana	:: Mr Ajay Mahajan
Himachal Pradesh	:: Mr R K Sharma
Tripura	:: Mr Tapan Lodh
Punjab & Chandigarh	:: Mr Janak Raj Garg

Further, Chairmen of Andhra Pradesh State Centre and Rajasthan State Centre for their Sessions 2016-2017 and 2017-2018, Madhya Pradesh State Centre and Sikkim State Centre for Sessions 2017-2018 and 2018-2019 shall become members of the Council for the Session 2017-2018 on their taking office at the AG Meeting of the said State Centres.

By virtue of being elected as Chairmen of the following State Centres for the Sessions 2016-2017 and 2017-2018, following persons shall continue as members of the Council for its Session 2017-2018:

Andaman & Nicobar	::	Mr D Sathyamoorthy
Assam	::	Dr Aswini Kumar Baruwa
Bihar	::	Mr Ashok Kumar Sinha
Chhattisgarh	::	Mr Jagdish Prasad Saboo
Delhi	::	Mr Devendra Gill
Goa	::	Mr G M N Parrikar
Gujarat	::	Mr Sandeep B Vasava
Jammu & Kashmir	::	Mohammad Ashraf Fazili
Jharkhand	::	Mr Sanjay Sen
Karnataka	::	Prof (Dr) N Chikkanna
Kerala	::	Mr N Rajkumar
Maharashtra	::	Mr V S Ghogare
Manipur	::	Mr K Temba Singh
Meghalaya	::	Mr Timothy Dkhar
Odisha	::	Dr P K Parhi
Puducherry	::	Prof (Dr) Pajaniradja Alias Kichena
Tamilnadu	::	Dr G Ranganath
Telangana	::	Dr Seeram Satyanarayana
Uttarakhand	::	Mr Ranveer Singh Chauhan
Uttar Pradesh	::	Prof (Dr) Bharat Raj Singh
West Bengal	::	Mr Kashmir Lal Mallik

(5) Under provisions of Bye-Law 4(b)(ii)

By virtue of being elected as Chairmen of the following Local Centres for the Sessions 2017-2018 and 2018-2019, the following persons shall become members of the Council for its Session 2017-2018 :

Nashik	::	Mr Santosh S Mutha
Visakhapatnam	::	Mr O Ram Mohan Rao

By virtue of being elected as Chairmen of the following Local Centres for the Sessions 2016-2017 and 2017-2018, the following persons shall continue as member of the Council for its Session 2017-2018 :

Belapur	::	Mr Jaswant Navnitlal Mistry
Coimbatore	::	Dr S Thangavelu
Durgapur	::	Mr Raj Kumar Roy
Ghaziabad	::	Dr (Prof) Hari Shankar Sharma
Kanchepuram	::	Dr R Venkatesan
Kochi	::	Mr N Paul George
Ludhiana	::	Brig Mastinder Singh

Madurai	::	Mr K Vijaya Kumar
Mysore	::	Mr M Chinnaswamy
Nagpur	::	Dr Dilip Prabhakar Mase
Neyveli	::	Mr P Selvakumar
Pune	::	Dr G S Mundada
South Gujarat	::	Dr P H Tandel
Vadodara	::	Mr Ashitkumar J Shah

(6) Under provisions of Bye-Law 4(c)

Following outstanding engineering personalities shall become members of the Council for its Session 2017-2018 as recommended by the Committee of Five Members and approved by the Council:

a. Mr Suneel Grover, FIE

Chief Engineer, H P S E B Ltd

Shimla, Himachal Pradesh

b. Mr M K Jadav, FIE

Secretary (Water Resources), Narmada Water Resources

Water Supply and Kalpsar Department, Government of Gujarat

Gandhinagar, Gujarat

c. Mr A K Mitra, FIE

Κ

Chairman, Technical Advisory Committee

Water Resources Department, Assam Secretariat

Dispur, Guwahati, Assam

d. Mr Abhai Sinha, FIE

Director General, Central PWD

Nirman Bhawan, New Delhi

(7) Under provisions of Bye-Laws 12(a) and 12(b)

The Council shall co-opt appropriate corporate members as Council Members for the Session 2017-18.

(8) Under provisions of Bye-Law 13

By virtue of being co-opted in the Council for the Sessions 2016-2017 and 2017-2018, the following person shall become member of the Council for its Session 2017-2018:

Mr S J Desai vice Mr Sandeep B Vasava, Chairman, Gujarat State Centre

ITEM 4 To Appoint Auditors for the year 2017-2018 and to Fix their Remuneration

Mr L Venkatesan, FIE proposed that M/s Ray & Ray, Chartered Accountants be appointed as Auditors of The Institution of Engineers (India) for the year 2017-2018 on a remuneration of Rs.5,00,000 + Taxes as applicable. Mr Tarun Tapan Lahiri, FIE seconded the proposal.

It was <u>Resolved</u> that M/s Ray & Ray, Chartered Accountants, be appointed as Auditors of The Institution of Engineers (India) for the year 2017-2018 at a remuneration of Rs.5,00,000 + Taxes as applicable.

The meeting then concluded followed by the National Anthem at 1515 hrs.

IEI DIARY

Aerospace Engineering Division

Thirty-second National Convention of Aerospace Engineers on **"Advances in Aerospace Sciences and Technologies"** Ranchi, October 27-28, 2018

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [22: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

Civil Engineering Division

One Day Seminar on **"Smart Vehicle Parking"** Udaipur, April 07, 2018

The Honorary Secretary, IEI, Udaipur Local Centre, 128 Hiran Magri, Sector 11 Near Seva Charitable Hospital Udaipur 313 002 [Telefax: 0294-2583702; e-mail: udaipurlc@ieindia.org; website: www.ieiudr.org]

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

Bhubaneswar, May 19-20, 2018 The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit IV, Bhubaneswar 751001 [TeleFax: (0674) 2390630; e-mail: odishasc@ieindia.org]

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

Ghaziabad, July 15, 2018 The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [☎: 0120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

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

Bokaro, August 25-26, 2018 The Honorary Secretary, IEI, Bokaro Steel City Local Centre, Abhiyanta Bhavan, Sector 5A, Bokaro Steel City 827006 [2: (06542) 267227 / 288972; e-mail: bokarolc@ieindia.org]

All India Seminar on "Reuse and Recycle of Wastewater"

Erode, August 30-31, 2018 The Honorary Secretary, IEI, Erode Local Centre, Texvalley Campus, Gangapuram, Erode 638102

[e-mail: erodelc@ieindia.org]

Thirty-fourth National Convention of Civil Engineers, on **"Innovative Trends in Civil Engineering for Sustainable Development"** Pune, September 28-29, 2018 The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [26: 020-25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

Computer Engineering Division

One Day Workshop on "**Opportunity and** Challenges in Opinion Mining" Kanchepuram. April 02, 2018

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

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

Ghaziabad, February 15-16, 2019 The Honorary Secretary, IEI, Ghaziabad Local Centre, 15 Shopping Complex, ALTT Centre, Rajnagar, Ghaziabad 201002 [20120-2728699/2702673; e-mail: ghaziabadlc@ieindia.org]

Electrical Engineering Division

All India Seminar on "Recent Trends in Applied Sciences and Humanities: Its Social Connection and Impact on Environment" Durgapur, April 05-06, 2018

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

All India Seminar on "**Smart Grid Technology**" Kota, May 05-06, 2018

The Honorary Secretary, IEI, Kota Local Centre Engineers Bhawan, Near BSNL Office, Jhalwar Road, Kota 324 005 [22: 0744-2428250; e-mail: kotalc@ieindia.org]

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

Tiruvallur, June 08-09, 2018 The Honorary Secretary, IEI, Tiruvallur Local Centre, Dr MGR Educational and Research Institute University, Periyar EVR HIgh Road (NH 4 Highway), Maduravoyal, Chennai 600 095 [e-mail: tiruvallurlc@ieindia.org]

International Conference on **"Recent Developments in Clean and Safe Nuclear Power Generation**" Hyderabad, October 03-05, 2018

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004, Telangana [2023114969; e-mail: telanganasc@ieindia.org; website: www.ieitsc.org]

Electronics and Telecom. Engg. Division

One Day Seminar on **"Revolution in** Communication"

Kolkata, April 05, 2018

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

All India Seminar on **"Recent Advances in** Electronics Design"

Bareilly, April 20-21, 2018

The Honorary Secretary, IEI, Bareilly Local Centre, 638, Beharipur Civil Lines, Opp City Railway Station (Old Nav Satyam Press), Bareilly 243001 [email:bareillylc@ieindia.org]

Environmental Engineering Division

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

New Delhi, August 10-11, 2018

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [23: (011) 23379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

Mechanical Engineering Division

Thirty-fourth National Convention of Mechanical Engineers on **"Mechanical Engineering and** Engineering Challenges for Manufacturing" Delhi, September 07-08, 2018

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, Bahadur Shah Zafar Marg, New Delhi 110002 [2379052/23379948; Fax: (011) 23370489; e-mail: delhisc@ieindia.org]

Thirty-fifth National Convention of Mechanical Engineers, on **"Exploring Trends and Developments in Automobile Engineering"** Hosur, September 13-14, 2019

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



Metallurgical & Materials Engg. Division

One Day Seminar on "Green Polymer Composite and Polymer Engineering" Kolkata, July 25, 2018

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [23: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

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

Kolkata, November 01-03, 2018

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

Mining Engineering Division

One Day Seminar on "Mining Policies – Challenges"

Hyderabad, April 22, 2018

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

All India Seminar on "Emerging Mining Methods and Machinery"

Dhanbad, May 04-05, 2018

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

One Day Seminar on "Quaity Concerns in Indian Mineral Industry" – the Changing Perspective"

Kolkata, May 09, 2018

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

Production Engineering Division

Thirty-third National Convention of Production Engineers on "Advances in Manufacturing and Systems Engineering"

Bhubaneswar, May 19-20, 2018 The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit IV, Bhubaneswar 751001 [TeleFax: (0674) 2390630; e-mail: odishasc@ieindia.org]

Textile Engineering Division

One Day Seminar on **"Technology And Trends In Industrial Textiles"** Coimbatore, April 13, 2018 The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [26: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

Interdisciplinary Coordination Committee

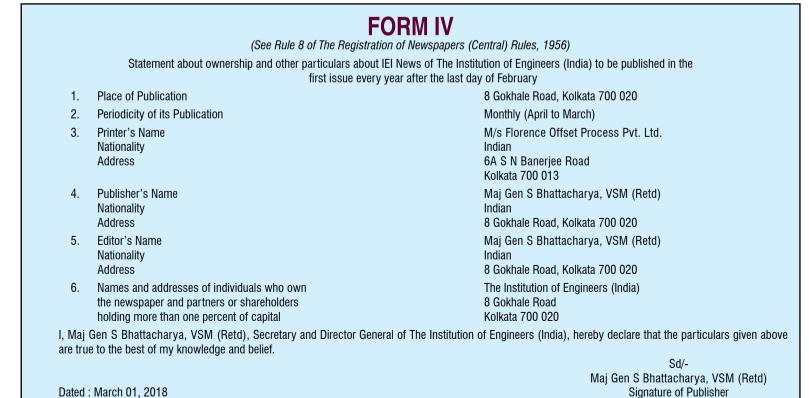
All India Seminar on **"Emerging Technologies in** Steel Processing and Metal Forming" Ranchi, April 14-15, 2018

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Ranchi 834002 [22: (0651) 2491344; web: ieijsc.org; e-mail: jharkhandsc@ieindia.org]

All India Seminar on **"Strategic Innovation & Problem Solving for Engineers & Entrepreneurs"** Thiruvananthapuram, April 21-22, 2018 The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakaunnu Palace, Thiruvananthapuram 695033 [2022) (0471) 2322991, 2322993; TeleFax: (0471); 2322992; e-mail: keralasc@ieindia.org]

International Conference on **"Emerging** Technologies for Sustainable and Intelligent Technologies for HVAC & R Systems" Kolkata, July 20-21,2018

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



I.E.I NEWS

March 1, 2018

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NEWS-IN-BRIEF

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

STATE CENTRES

Delhi

- Celebrated 'Energy Conservation Day' on December 14, 2017.
- Seminar on '5G Technologies and Future Scenario' on December 16, 2017.
- Fifth R K Vir Memorial Lecture on 'Creating Visionary Management along with Professionalism' delivered by Mr Piyush Goyal, Honorable Minister of Railway & Coal, Government of India on January 5, 2018.

Gujarat

 Workshop on 'Communication Skills and Personality Development' on February 10, 2018.

Telangana

- Seminar on 'LEDs: Facts and Myths' on February 27, 2018.
- Seminar on 'Science and Technology for Sustainable Future' on February 28, 2018.

Tripura

 Seminar on 'Scientific Issues for the Development of the Nation' on the occasion of 'National Science Day 2018' on February 28, 2018.

LOCAL CENTRES

Bareilly

- Workshop on 'Autonomous Robotics' on February 22, 2018.
- Organized 'Training Quiz 2018' on February 27, 2018.

Coimbatore

• Lecture Meeting on 'Flexible Electronics Future Systems' on February 12, 2018.

Durgapur

- Seminar on 'The System of Running and Rectification of Defects of a Turbo Generator in Eastern India' on January 15, 2018.
- Seminar on 'Integration between Global Navigation Satellite Systems (GNSS) and Wireless Communications and Networking (WCN) Systems' on February 17, 2018.

Gwalior

- Celebrated Energy Conservation Day on the topic 'Save Energy and Reduce the Energy Consumption by Possible Ways' on December 14, 2017.
- Lecture on 'Smart City: International Prospects' delivered by Maj Gen S C Jain on January 21, 2018.
- Lecture on 'Material Handling Control System Upgradation : New PLC System in STCR in National Fertilizers Limited, Vijaipur' delivered by Mr Vinay Kumar Shukla, Honorary Secretary of Gwalior Local Centre, IEI on February 9, 2018.
- Lecture on 'Brief Description of Turbines, Compressors, Motors and Pumps' delivered by Mr D P S Chauhan on February 24, 2018.
- Celebrated 'National Science Day 2018' on February 28, 2018.

Jamshedpur

Workshop on 'Data Analytics and Big Data' on February 17, 2018.

Kanchepuram

• Seminar on 'Integration and Challenges on Renewable Energy System' on February 16, 2018.

Kanyakumari

Workshop on 'Internet of Things (IoT)' on February 17, 2018.

Kollam

- Workshop on 'Arduino Uno' on November 4-5, 2017.
- Workshop on 'Android App Development' on February 16 and February 20, 2018.

Kota

- Abdul Matin Memorial Lecture on January 17, 2018.
- Lecture Meeting on 'Green Bridges Replacing STPs' on February 2, 2018.

Nagpur

- Workshop on 'Understanding IS 13920 and IS 1893 Part I (Revised)' on December 9, 2017.
- Workshop on 'Energy Conservation & Poster Competition' on the occasion of Energy Conservation Day on December 16, 2017.

Rourkela

- Lecture Meeting on 'Smart Material: Shape Memory Alloys' on January 31, 2018.
- Lecture on 'Psychology and Technology' delivered by Prof. Ramakrishna Biswal, Department of Humanities and Social Sciences, NIT, Rourkela on February 21, 2018.

South Gujarat

 Seminar on 'Power System Basics for Academician and Practicing Engineers' on February 27, 2018.

Tiruchirappalli

- Lecture Meeting on 'We Indian Invented Worlds First MPIF Tool' on January 17, 2018.
- Lecture on 'Effect of Flux Variation on Chemical Composition & Mechanical Properties of SA335P91 Weld' delivered by Mr S Justin, Deputy Manager, Pipeshop, BPN on January 30, 2018.

Visakhapatnam

- Organized Training Programme on 'Advanced Techniques in Steel Making' on February 10, 2018.
- Workshop on 'Soft Skills Bridging the Gap between Campus to Corporate' on February 16, 2018.
- Workshop on 'EOT Crane Operation & Maintenance Aspects' on February 28, 2018.

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

Contd. from page 1

of Integrating Wind & Solar into the Electric Grid using Information Communication' at Tiruvallur during June 08-09, 2018, 'Emerging Technologies for Sustainable and Intelligent Technologies for HVAC & R Systems' at Kolkata during July 20-21, 2018.

I therefore cordially invite fellow engineers to participate in various technical activities organized by the Institution all over the country which would help in updating skills to remain up to date, to take advantage of sharing global perspective of current engineering scenario and also for Continuous Professional Development. I also take this opportunity to request our members to encourage colleagues and friends to join IEI as members to enhance professional growth through sharing of knowledge and expertise.

Interaction with President, IEI





At Karnataka State Centre of the Institution on February 12, 2018

At Durgapur Local Centre of the Institution on February 17, 2018

Notification for

IEI YOUNG ENGINEERS AWARD 2018-2019

The Institution of Engineers (India) is a multi-disciplinary professional body of engineers with 15 engineering disciplines and over 8,00,000 members in India and abroad. The Institution was established in 1920 and was incorporated by Royal Charter in 1935. It has been in the forefront of engineering profession addressing the socio engineering problems for progress of the country. IEI functions among professional engineers, academicians, research workers to update their professional knowledge through continuous professional development. With its large international linkages and a network of 121 Centres in India and six Overseas Chapters, the Institution has built up wide reach and large infrastructure to meet its objectives of promoting engineering in all aspects.

With a view to promote the pursuit of excellence in the field of engineering, IEI has instituted 'IEI Young Engineers Award'. The Award consist of a Plaque and a Certificate. The purpose of the Award is to recognize outstanding achievements/contributions made by young engineers in engineering research, excellence in engineering technology development, technology transfer, etc. Any engineer citizen of India not older than 35 years of age as on **March 31, 2018** is eligible for the Award. The IEI Young Engineers Award is presented to awardees for all the 15 Engineering Divisions of the IEI during the respective National Conventions. The awardees attending the National Convention will be provided with free accommodation & their traveling expenses (AC-3 Tier train fare by shortest route) will be reimbursed on production of original documents.

The Application Proforma may be downloaded from IEI website (https://www. ieindia.org). Soft copy of the filled-in application proforma should be forwarded to award@ieindia.org by March 31, 2018. Further, six copies of the duly filled application form, along with all supporting documents, endorsed by appropriate authority should be sent to the below mentioned address so as to reach us latest by April 10, 2018:

Director (Technical)

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

The envelope containing the application should be superscribed at the top as 'IEI Young Engineers Award 2018-19' and name of the engineering division under which the applicant desires to be considered for the Award.



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Editor : Maj Gen S Bhattacharya, VSM (Retd), Secretary & Director General

President : Mr Sisir Kumar Banerjee

Editor : Maj Gen S Bhattacharya, VSM (Retd)

Associate Editor: Mr S Chaudhury

Special Contributors: Mr N Sengupta, Mr K Sen, Dr S Ghosh, Mr T Chakraborty, Ms A Dutta, Mr P Mukhopadhyay, Mr A Basu, Ms H Roy, Mr S Bagchi ada by individuals. Posriate of any postion of th

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