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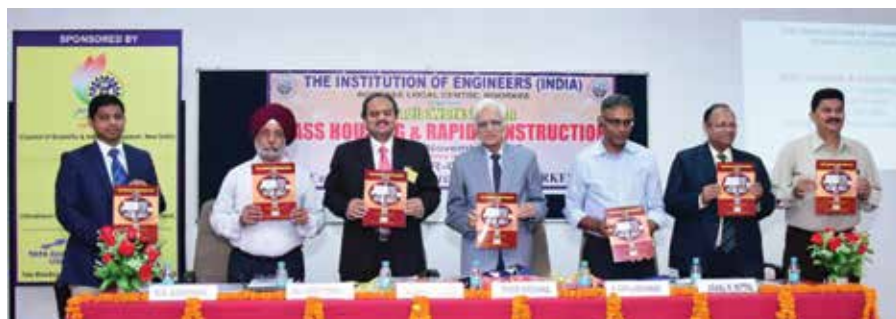
98 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENT FOR NATION-BUILDING

Volume 67

Number 11

## Mass Housing and Rapid Construction

Roorkee Local Centre of the Institution in association with CSIR-Central Building Research Institute (CBRI) Roorkee, organized a two-day All India Workshop on the theme 'Mass Housing and Rapid Construction' under the aegis of Civil Engineering Division, IEI, during November 14-15, 2017 at Roorkee. Mr Malvinder Singh, Chairman of the Centre, in his welcome address, presented an overview of various activities of the Centre. Dr Achal Kumar Mittal, Honorary Secretary of the Centre, briefed about the details of the Workshop. He



also spoke about the Prime Minister's dream project 'Housing for all by 2022'. The Chief Guest, Dr Prem Krishna, Former Professor, Department of Civil Engineering, IIT Roorkee, in his inaugural address, stressed the need for greater outreach and advocacy amongst the stakeholders regarding the prefabrication technology for mass housing. He pointed out

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## Advances in Engineering and Technology for Sustainable Development

Pantnagar Local Centre of the Institution in association with the College of Technology, Pantnagar, organized a two-day All India Seminar on the topic 'Advances in Engineering and Technology for Sustainable Development' under the aegis of Interdisciplinary Coordination Committee (ICC) during November 25-26, 2017 at Pantnagar. Dr Vinay Kumar Singh, Chairman of the Centre, welcomed the dignitaries and the participants and presented a brief account of the theme of the Seminar. The Chief Guest, Dr R C S Mehta, Dean and Professor, Graphic Era Hill University, Bhimtal Campus, Bhimtal, Uttarakhand, inaugurated the Seminar. In his inaugural address, Dr Mehta, delivered lecture on the topic 'Emerging Technologies that will Change the World – A Review'. In his address, he stressed on the



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



In end December 2017, we had organized the Thirty-second Indian Engineering Congress on the theme 'Innovation in Engineering: Competitive Strategy Perspective' at Chennai where Hon'ble President of India, Mr Ram Nath Kovind graced the Valedictory Session as the Chief Guest and addressed the gathering. The details of the Congress have already been covered in the January 2018 issue of IEI News.

During the month of February, along with other technical activities, IEI will be organizing five National Conventions under the aegis Agricultural, Aerospace, Textile, Mining and Computer Engineering Division, respectively, in various parts of the country. Information about all these technical activities are published in IEI News and also uploaded in IEI website for the benefit of our Corporate Members and other stakeholders. Through such technical activities, The Institution of Engineers (India) is committed to promote the study of engineering with a view to disseminate information for facilitating scientific and economic development of the country. Lectures delivered by experts and papers presented in these activities will provide an opportunity for interaction and knowledge sharing among young engineers, researchers, students and scientists. I request our members and other stakeholders to attend these technical activities which will help in enriching the engineering fraternity through sharing of knowledge and ideas.

'Developing India' can aspire to become 'Developed India' only when the quality of life in rural India becomes comparable to that of the developed countries. For this, science and technology have to be leveraged innovatively to maintain inclusivity in our development paradigm. At the same time, we need large-scale industrialization and it is essential to adopt technology to suit rural needs. In both cases, increased interaction between academia and

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## Water Conservation through 3 R's – Reduce, Recycle & Reuse

**Bokaro Steel City Local Centre** of the Institution in association with SAIL, Bokaro Steel Plant organized a two-day All India Seminar on the topic 'Water Conservation through 3 R's – Reduce, Recycle & Reuse' under the aegis of Environmental Engineering Division, IEI, during December 2-3, 2017 at Bokaro Steel City. Mr A C Goyal, Chairman of the Centre, welcomed the guests, dignitaries and participants. The Chief Guest, Mr P K Singh, Chief Executive Officer, SAIL, Bokaro Steel Plant, in his inaugural address,



stated that water is the most important among all natural resources and available in limited quantity. He further mentioned that agriculture and industries use most of the water and as such, industries are to play a vital role in conservation of water for which awareness drive is equally important. Mr N C Pandey, Asset Manager, ONGC, graced the occasion as Guest-of-Honour. Mr Pandey, in his address stressed on effective water management to develop all energy resources. The Keynote Speaker, Mr C D Goswami, General Manager (E&S), MECON Limited, spoke about dry technology in an industry which has multidimensional benefits. Mr Sanjay Sen, Chairman of the Environmental Engineering Division Board, IEI, emphasized upon adoption of zero effluent discharge and water conservation techniques. Mr N P Srivastava, Convener of the Seminar, urged for judicious use of water as a way of life. On this occasion, a Souvenir of the Seminar was brought which was released by the dignitaries. Mr Y N Singh, Honorary Secretary of the Centre proposed the vote of thanks. A large number of papers on various sub-themes of the Seminar were presented and discussed during the two-day technical sessions.

## Sustainable Materials and Technology for Better Future

**Rourkela Local Centre** of the Institution in association with the Department of Civil Engineering, National Institute of Technology (NIT) Rourkela, organized a two-day All India Seminar on the theme 'Sustainable Materials and Technology for Better Future' under the aegis of Civil Engineering Division, IEI during November 11-12, 2017 at Rourkela. Mr R K Agrawal, Managing Director, Eastern Equipments and Engineers Pvt. Ltd., Kolkata and Prof Animesh Biswas, Director, NIT Rourkela, graced the occasion as the Chief Guest and Chief Patron of the function, respectively. Mr Agrawal, in his address, highlighted the role of innovation and technology development for the advancement of the country. He appealed to the civil engineers to help the poor people in repairing their houses. Prof Animesh Biswas highlighted the importance of green building and mentioned that engineers should devise alternate materials to replace concrete jungles, so that, we



can breathe in fresh air. On this occasion, Seminar Souvenir and Proceedings were brought out which were released by Prof Biswas. Prof M Panda, Head, Department of Civil Engineering, NIT Rourkela, shared his experiences about the research work of his department with respect to innovative

sustainable materials in civil engineering. Earlier, Mr S S Bhue, Chairman-in-Charge of Rourkela Local Centre, in his welcome address, enumerated on practical implications for the products, materials and technologies applicable for construction in future. He further explained how sustainability can drive innovation in materials and materials technologies by reviewing pertinent ideas and experiences gained in a cross-section of construction sectors. Prof S K Sahu, Convener of the Seminar, introduced the theme of the day. The programme concluded with the vote of thanks proposed by Prof S K Sahu. A large number of papers were presented in the various technical sessions during the two-day Seminar. Studies involving innovative applications of different waste products including recycled aggregates, using construction demolition waste, fly ash, slag, natural fiber based composite materials, iron waste, slurry infiltrated cane, and coconut shells were presented. A study of metakaolin modified concrete and basalt fiber concrete T-beam, innovative applications of fly ash in tiles, paver blocks for medium road traffic were also presented. Development of fly ash based angular aggregates and its suitability in concrete and road construction were discussed. From various deliberations, it was felt that recycled aggregate concrete should be extensively used in the era of accelerated construction in our country for which Nano silica (NS) may be used with further research on large scale. Innovative approaches of mass utilization of fly ash should be experimented vis-a-vis sand replacement in concrete, tiles etc. by composite materials in regular constructions and also an admixture with overburden materials as back filling in mines through proper geotechnical characterization. Further studies vis-a-vis effect of dynamic loading, fatigue behaviour etc. are required for design of highway, bridge, buildings etc. to reduce damage level of various structures due to seismic activities, such as, earthquakes, rock burst or regular blasting for earth work, mining etc.

## Journal of IEI Series C on special theme 'India's Reusable Launch Vehicle Technology Demonstrator: The Future of Space Transportation System' – contribution of ISRO



At the 32nd Indian Engineering Congress organized by the Institution during December 21-23, 2017 at Chennai, Journal of The Institution of Engineers: Series C (Vol. 98, Issue 6, December 2017), on Special theme 'India's Reusable Launch Vehicle Technology Demonstrator: The Future of Space Transportation System' was released by Mr Navinchandra B Vasoya, the then President, IEI. Dignitaries present on the occasion included Mr Sisir Kr Banerjee, the then President-Elect and presently President, IEI; Dr K Sivan, the then Director, Vikram Sarabhai Space Centre and presently Chairman, ISRO; Ms Swati Meherishi, Executive Editor, Applied Sciences & Engineering, Springer (India) Pvt. Ltd; Maj Gen (Dr) S Bhattacharya, VSM (Retd), Secretary & Director General, IEI and Mr N Sengupta, Director (Technical), IEI. The Special Issue contains scholarly articles contributed by the Space Scientists of Indian Space Research Organization (ISRO).

## Mass Housing and Rapid Construction

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that the supply chain of raw materials should also be kept in mind. The Guest-of-Honour, Dr Neeraj Sinha, Scientific Advisor, Govt. of India, stated that the workshop would serve as a useful repository for all stakeholders involved in planning of urban and rural housing by providing state-of-the-art knowledge about leading technologies in the field of Mass Housing and Rapid Construction. Dr N Gopalakrishnan, Director, CSIR-CBRI Roorkee, presided over the inaugural session. In his address, Dr Gopalakrishnan enumerated that it is our prime responsibility towards improving the existing construction practices and build sustainable housing for all in a time bound manner. On this occasion, Proceedings of the Workshop was brought out which was released by the dignitaries during inaugural session. Live demonstration of non-destructive testing using advanced equipments was also given to the participants. A large number of papers on various sub-themes were presented and discussed during the technical sessions which evoked keen interest amongst the guests, dignitaries and participants in

understanding prefabrication design and technological aspects imposed by global challenges for planning of mass housing. The Chief Guest at the Valedictory Session, Prof N Raghavan, Chairman, Research Council, CSIR-CBRI Roorkee, mentioned that we should work in close co-ordination with organs involved in the Mass Housing discipline and convert the world to a better & safer place. He also stressed on understanding the prefabrication technology in depth for mass housing and take up the challenge for future innovations to bring economy and quality in construction. The Guest-of-Honour, Mr Rajesh Goel, Chairman-cum-Managing Director, Hindustan Prefab Ltd., New Delhi, highlighted various prefabrication & architectural aspects in building industry. An exhibition on CBRI's initiatives in this field was also organized during the Workshop. The Workshop was well attended by the participants from HUDCO, CPWD, URNN, Public Health Engineering Department, Haryana, NIH, UP Irrigation Department, CBM Infra Ltd., Bangalore and scientists and research scholars from IIT Roorkee & CSIR-CBRI Roorkee.

## Advances in Engineering and Technology for Sustainable Development

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necessity of sustainable development and the role of science, engineering and technology to obtain solutions of the practical problems. He further highlighted the advancements taking place in different fields of engineering and technology which would be helpful in developing sustainable environment. Dr Mehta suggested that sustainable developments should be supported by green technology for better environmental conditions. Dr H C Sharma, Dean, College of Technology, graced the occasion as the Guest-of-

Honour and delivered lecture embracing the theme of the Seminar. Dr Paras, Honorary Secretary of the Centre, proposed the vote of thanks. A large number of papers on various sub-themes were presented and discussed during technical sessions. Various topics covered included: 'Problem of Problem Identification in a Business', 'Fertigation for the Precision Nutrient Management of Horticultural Crops', 'Overview of Fracture and Damage Mechanics: Fatigue Life Prediction', 'Studies on Mid-infrared (Mir) Sources for Gas Sensor Instrumentation', 'Bio-mass and so on.

## Energy Efficiency Intervention for Operation Cost Reduction in Manufacturing Industries

**Delhi State Centre** of the Institution organized a two-day All India Seminar on the theme 'Energy Efficiency Intervention for Operation Cost Reduction in Manufacturing Industries' under the aegis of Mechanical Engineering Division, IEI, during November 3-4, 2017 at New Delhi. Mr Devendra Gill, Chairman of the Centre, welcomed the dignitaries and the participants. In his address, Mr Gill stressed on development of broader road map in order to create awareness about energy efficiency and energy conservation at the grass-root level. He urged that in order to get more concrete results, it is imperative to organize such type of activities regularly at each industrial city. Mr R K Yadav, Convener of the function briefed about the technical details of the Seminar. The Chief Guest, Mr Satyendra Jain, Hon'ble Minister for Power, Health, PWD & Urban Development, Government of NCT of Delhi, lamenting on the rising energy costs in the country mentioned that efficient utilization of energy can only be achieved by reducing the charges of energy. Mr Jain suggested the Institution to develop a long term policy for ensuring sustainability in energy security. The Keynote Speaker, Mr Abhay Bakre, Director General, Bureau of Energy Efficiency (BEE) apprised the audience about various multi-direction schemes being launched by BEE in order to meet the objectives of National Action Plan of Climate Change. He informed that under National Mission for Energy Efficiency, commendable results have been achieved under PAT Cycle-I. Mr O P Goel, Past President, IEI graced the occasion as the Guest-of-Honour. Mr Pradeep Chaturvedi, Council Member, IEI, in his address, apprised the audience about the involvement of various international organizations, like World Energy Council (WEC)



etc, in propagating the agenda of efficient energy. Mr Praveen Kr Singh, Honorary Secretary of the Centre, proposed the vote of thanks. Experts in the field, including, Prof (Dr) R K Pandey, Director General, National Power Training Institute; Mr Sanjeev Kumar Bose, General Manager (Energy & Carbon Services), BSI; Mr Alok Mittal, DGM (Tech), EESL; Mr Anoop Kumar Gupta, Director (Electrical), DMRC; Mr R S Sharma, Former CMD, NTPC Ltd & Managing Director, USAID PACE D Technical Assistance Program; delivered keynote addresses during technical sessions. Papers on various sub-themes of the Seminar were also presented and discussed during technical sessions.

## Sources of Planet Energy, Environmental & Disaster Science: Glacier Melting and Its Challenges

**Uttar Pradesh State Centre** of the Institution jointly with School of Management Sciences (SMS), Lucknow organized a two-day All India Seminar on the topic 'Sources of Planet Energy, Environmental and Disaster Science: Glacier Melting & Its Challenges' under the aegis of Mechanical Engineering Division, IEI, during December 9-10, 2017 at Lucknow. Prof Bharat Raj Singh, Chairman of the Centre and Director General (Technical), School of Management Sciences, welcomed the dignitaries and participants. In his welcome address, Prof Singh stressed on limiting the global temperature within 2°C by the end of the century which was agreed upon at Paris Summit last year. The Chief Guest Mr R N Bhargava, Chairman, ECOMEN Laboratories & eminent Environment Engineer, in his address, stressed on the need for stringent implementation of existing rule & regulation which have been framed by Union & State Governments, so that, people violating these rules & affecting environment will be punished. He also emphasized upon rainwater harvesting and sewage treatment which should be done on top priority. Mr Bhargava also suggested that waste water should not be disposed in drains without proper treatment. The Keynote Speaker Mr S N Sahu, Senior Scientist, Telemetric & Telecomm and Centre, ISSRO, Lucknow, elaborated the use of remote sensing and space technology for the betterment of human life and to convert the data into information to be used in confronting greenhouse gasses. The Guest-



of-Honour, Dr Onkar Singh, Founder Vice Chancellor, Madan Mohan Malviya Technical University, Gorakhpur, highlighted the negative effects of climate change and the sustenance of present and future civilization. He stated that sensitization of the whole community has to be done on large scale basis to reduce global warming and greenhouse gasses. On this occasion, proceedings containing technical papers of the Seminar was brought out which was released by the dignitaries. A large number of papers embracing the theme of the Seminar were presented and discussed during various technical sessions.

# Quality Improvement in Products and Processes: Principle, Methods and Applications

**West Bengal State Centre** of the Institution in association with the Indian Institute of Engineering Science and Technology (IEST), Shibpur, organized a two-day All India Workshop on the theme 'Quality Improvement in Products and Processes: Principle, Methods and Applications' under the aegis of Production Engineering Division, IEI during October 27-28, 2017 at IEST Shibpur, Howrah. At the outset, Prof (Dr) N R Bandyopadhyay, the then Council Member, IEI and Professor, School of Materials Science and Engineering, IEST, Shibpur, welcomed the august gathering. In his address, Prof Bandyopadhyay highlighted the significance of organizing the Workshop and its relevance to future research activities. Mr Kashmir Lal Mallik, Chairman of the Centre, presided over the inaugural session and spoke about the appropriateness of the theme. Prof (Dr) Prabir Kumar Paul, Head of the Department, School of Management Science and Engineering, IEST, Shibpur, also graced the occasion and addressed the gathering. During the two-day Workshop, various emerging issues in quality improvement, state-of-the-art quality improvement methodologies and case studies in the field of quality improvement were deliberated by the eminent speakers, including, Prof (Dr) Pradip Kumar Ray and Prof (Dr) Jyoti Mukherjee of Department of Industrial and Systems Engineering, IIT Kharagpur; Prof (Dr) Bijan Sarkar, Production Engineering Department, Jadavpur University, Kolkata; Dr Goutam Sengupta, Co-founder & Managing Director, GSS Infosolutions Pvt Ltd and Dr Kaushik Kumar Bhattacharjee, IEST Shibpur. Various issues



which were deliberated during the technical sessions included: Basics of Quality Improvement in Products and Processes, Quality Improvement Principles, Relating Design with Manufacturing, Management of Variability in Manufacturing as a Strategic Tool, Quality Assurance in Practice, Integrated Models for Quality Improvement, Implementation Framework for Quality Improvement, etc. The eminent resource persons by virtue of their knowledge and expertise in specified domains explained different dimensions of Product Quality; Principles of Quality Management; Value based approach for Quality, Design for Manufacturing (DFM); Design for Assembly (DFA); Failure Mode and Effects Analysis (FMEA); etc.

## Requirements of Higher and Technical Education for Make in India – Education to Make Creative Minds

**Ghaziabad Local Centre** of the Institution organized a two-day All India Seminar on 'Requirements of Higher and Technical Education for Make in India – Education to Make Creative Minds' in Hindi language under the aegis of National Languages Promotional Committee (NLPC), IEI, during October 12-13, 2017 at Ghaziabad. The aim of the Seminar was to find out the shortcomings in higher and professional education and suggest

ways to improve it and how to popularize the use of Hindi in technical areas. The Seminar also provided a platform for review and discussion on the requirements of engineers and professionals for success of Make in India. The Chief Guest, Prof K K Agarwal, Chancellor, Manglam University and Former Vice Chancellor, GGS IP University, New Delhi, inaugurated the Seminar. Prof Agarwal, in his address, highlighted various aspects of technical education, especially, on higher education where lots of creativities are involved. During the Seminar, various issues on digital India, startup India, Make in India and many other latest areas were discussed by the eminent speakers in Hindi. Earlier, Prof H S Sharma, Chairman of the Centre, welcomed the august gathering and stressed on the use of Hindi in several technical areas related to professional education. During this two-day activity, deliberations were taken place on quality and safety practices; manufacturing and production in engineering education; services and work ethics; management education and practices; quality systems and certificate; legal issues and growth of Make in India and many other relevant areas.



## Salient Features of New Seismic Codes IS 1893 and IS 13920-2016

**Pune Local Centre** of the Institution organized a two-day All India Workshop on the topic 'Salient Features of New Seismic Codes IS 1893 and IS 13920-2016' under the aegis of Civil Engineering Division, IEI, during November 3-4, 2017 at Pune. The Chief Guest, Prof (Dr) R K Ingle, Head, Department of Civil Engineering, VNIT Nagpur, in his address, stressed the need to follow the current codal provisions immediately in construction practices. Dr O R Jaiswal of VNIT, Nagpur, graced the occasion as the Guest-of-Honour and addressed the gathering. In absence of the Dr Girish Mundada, Chairman of the Centre, Ms Veena Gore, Executive Committee Member, presided over the inaugural session. Earlier, Dr P S Patil, HOP Structural Engineering, RIT, Rajaramnagar and Coordinator of the Workshop, welcomed the august gathering and briefed about various technical sessions. Dr (Mrs) Sushma S Kulkarni, Director of RIT Rajaramnagar & Convenor and Dr P D Kumbhar, Head, Department of Civil Engineering, RIT & Coordinator, also addressed the gathering. Prof A S Thorbole, Organizing Secretary, proposed the vote of thanks. Inaugural session was followed by Technical Session, where keynote addresses and expert lectures were delivered. Dr O R Jaiswal of VNIT Nagpur, delivered Keynote Address on 'Provisions of IS 1893 of 2016'. He presented the overview of earthquake engineering



and revised earthquake zone and discussed load combinations to be considered while designing structures. Dr R K Ingle, Professor, VNIT Nagpur, in his keynote address on 'Provisions of IS 13920 of 2016', elaborated the ductile detailing of connections/structural members and shear walls. He also explained that minimum member sizes to be considered in structural design. Dr Rajan Wankhede, Associate Professor, GCE Nagpur, delivered lecture on 'Important Provisions of Revised Seismic Codes IS 1893 & IS 13920 and Base Isolation Techniques'. He focused on provisions of old and new seismic codes. Dr Murnal Pranesh, Head, Department of Applied Mechanics, GCE Aurangabad, delivered expert lecture on 'Seismic Retrofitting and Strengthening of Structures'. He elaborated various techniques of seismic retrofitting and strengthening of structures. Dr P S Patil, HOP Structural Engineering, RIT, Rajaramnagar, delivered lecture on 'Comparison of Lateral Loads using Old and New IS Codes 1893 and 13920-2016'. He illustrated modifications made in IS Codes 1893 and 13920-2016 by solving numerical using both revisions. This helped participants, especially the students to understand changes and practical application of these IS Codes. On this occasion, a Panel Discussions on 'Salient Features of New Seismic Codes IS 1893 and IS 13920-2016' was also conducted. The members of panel discussion were Dr O R Jaiswal, Dr R K Ingle, Dr Y M Ghugal and Dr P S Patil. Participants in the panel discussion raised various queries related to their research areas.

## Real Estate Industry and Agricultural Potential of India: Issues and Challenges

**Delhi State Centre** of the Institution organized a two-day All India Seminar on the theme 'Real Estate Industry and Agricultural Potential of India: Issues and Challenges' under the aegis of Interdisciplinary Coordination Committee (ICC), IEI, during October 6-7, 2017 at New Delhi. Mr Devendra Gill, Chairman of the Centre, welcomed the august gathering. Dr S M Goel, Convener of the Seminar, presented a brief account about the Seminar. The Chief Guest, Dr Man Singh, Project Director (Acting) and Professor, Water Science and Technology, in his address, highlighted the critical issues that are not being addressed by Government authority in ensuring the agriculture potential of the country as well as real estate sector. He stressed on developing the unused land which has comprehensive vast quantity. 'The special attention on these lands will help in developing Real Estate Sector and will reduce the load on the agricultural productivity of India', opined Dr Singh. Mr Pradeep Chaturvedi, Council Member, IEI also graced the occasion with his august presence and addressed the gathering. The vote of thanks was proposed by Mr Praveen Kumar Singh, Honorary Secretary of the Centre. A large



number of papers embracing the theme of the Seminar were presented and discussed by the experts in the field during various technical sessions.

# NEWS-IN-BRIEF

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

## STATE CENTRES

### Gujarat

- ❖ Workshop on 'Agro Textiles' jointly with South Gujarat Local Centre on December 16, 2017.

### Jharkhand

- ❖ Workshop on 'Air Conditioning and its Maintenance' on November 11, 2017.

### Telangana

- ❖ Lecture on 'Trends and Practices in Energy Efficient Street Lighting' delivered by Mr Srinivasa Chary Enugurthi, Executive Engineer, GHMC on October 27, 2017.
- ❖ Organized 'Telangana Irrigation Day' in commemoration with Birthday Celebration of Er R Vidyasagar Rao on November 14, 2017.
- ❖ Lecture on 'Water is our Life: Manage Water Sustainably' delivered by Dr K Yella Reddy, Vice President, ICID & Director, Water and Land Management Training and Research Institute, Hyderabad on November 15, 2017.

### Tripura

- ❖ Seminar on 'Seismic Hazard, Risks and Preparedness: The State of Tripura and the Capital city Agartala, Needs Immediate Attention' on December 16, 2017.

## LOCAL CENTRES

### Ahmednagar

- ❖ Lecture on 'Importance of Soft-skill for Engineers' delivered by Mr Mukund Deshmukh, Vice President, Ahmednagar Auto Cluster on December 8, 2017.
- ❖ Technical Meet on 'Valuation by Income Approach Method and Valuation for Non-fiscal Purposes' on December 14, 2017.
- ❖ Visit to 'Model Village Hivare Bazar' on December 16, 2017.

### Ananthapuram

- ❖ Seminar on 'Geographic Information System (GIS)' on November 20, 2017.

- ❖ Lecture on 'Engineering & Technology Applications in Solid Waste Management' delivered by Dr A Gangani Rao, Senior Principal Scientist, CSIR-Indian Institute of Chemical Technology, Hyderabad on the occasion of National Technology Day 2017 on November 29, 2017.

### Bareilly

- ❖ Lecture on 'Future Prospects after Diploma' delivered by Dr Pankaj Kumar Sharma, Honorary Secretary of the Centre, on November 20, 2017.

### Belapur

- ❖ Lecture on 'Application of BIM Software for Architect, Structural Engineers and Quantity Surveyor' delivered by Ms Pervin Solomon on November 23, 2017.

### Durgapur

- ❖ Technical Visit to 'Bonjemihary Colliery, ECL' on December 19, 2017.

### Ghaziabad

- ❖ Lecture on 'Artificial Intelligence and Its Applications' delivered by Prof (Dr) A K Ray, Emeritus Fellow (Retd.), IIT Roorkee on November 12, 2017.
- ❖ Technical Visit to 'UP Ceramics & Potteries' on November 16, 2017.

### Kanpur

- ❖ Seminar on 'Power with Zero Emissions and Zero Discharge: Demand for Sustainable Future' on September 28, 2017.

### Kota

- ❖ Lecture on 'Shaping Financial Future of Technocrats' delivered by Mr Pankaj Ladha, Finance Expert, Anant Ladha on December 9, 2017.

### Madurai

- ❖ Lecture on 'Electrical Maintenance in Textile Industries' delivered by Mr A R Anbarasa, Deputy General Manager (Utility), Gujarat Heavy Chemical Limited, Madurai on December 9, 2017.

### Nashik

- ❖ Seminar on 'Energy Efficiency Retrofitting of Existing Buildings' on December 11, 2017.

### Tirupati

- ❖ Lecture on 'Significance of World Population Day' delivered by Prof T Lakshamma, Head, Department of Population Studies and Social Work, College of Arts, S V University, Tirupati on October 27, 2017.

## Overseas Chapters

### Kuwait

- ❖ Seminar on 'Precision Engineered Rides' on December 19, 2017.

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

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industry is essential. We have requested all our Centres to organize technical activities on specific Industry oriented themes to enrich technological knowledge of the engineering fraternity.

Employability of engineers is a major concern. It has been experienced that due to lack of proper exposure to shop-floor level activities, young graduates, despite their academic background, lack in specific practical skills required by industry. On the other hand, industries, in particular the

MSMEs face challenges which require small scale innovation, research or customization of best practices benchmarked elsewhere. Keeping this in mind, IEI would seek to bridge this gap which will go a long way to mitigate the employability challenges faced by graduates.

In light of the above, I request our Corporate Members for their whole hearted support, cooperation and active participation in fulfilling the objectives of this Institution and the profession at large. I also request our members to send their valuable suggestions or share their expertise which will help immensely in achieving our stated objectives.

# IEI DIARY



## Aerospace Engineering Division

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

Chennai, February 09-10, 2018

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

One Day Seminar on **“Mandates and Implementation of ICAO Requirement for Indian Aviation”**

Nashik, March 13, 2018

The Honorary Secretary, IEI, Nashik Local Centre, PWD Campus, Sir Visvesvaraya Marg, Nashik 422002, Maharashtra [☎: 0253-2317701 / 2582500; e-mail: nashiklc@ieindia.org]

Thirty-second National Convention of Aerospace Engineers on **“Advances in Aerospace Sciences and Technologies”**

Ranchi, October 27-28, 2018

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

## Agricultural Engineering Division

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

New Delhi, February 2-3, 2018

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

All India Seminar on **“Agro Big Data and Decision Support Systems in Agriculture”**

Hosur, March 19-20, 2018

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

All India Seminar on **“High Tech Cultivation of Vegetable and Flowers”**

Dehradun, March 10-11, 2018

The Honorary Secretary, IEI, Uttarakhand State Centre, PO: Clement Town, Delhi-Saharanpur Road, Near ISBT Flyover, Dehradun 248002 [ph : 0135-2641190; Mobile: 9412056431 / 8392995744; e-mail: uttarakhandsc@ieindia.org; website: www.ieiuksc.org]

## Chemical Engineering Division

National Conference on **“Advances in Material Sciences: Bio-materials”**

Salem, February 27-28, 2018

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

All India Seminar on **“Bio-fuels, Bio-energy and Bio-economy”**

Guwahati, March 16-17, 2018

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

## Civil Engineering Division

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

Udaipur, March 15-16, 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: udaipurc@ieindia.org; website: www.ieiudr.org]

One Day Workshop on **“Advanced Construction Technology”**

Salem, March 19, 2018

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

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 [☎: (06542) 267227 / 288972; e-mail: bokarolc@ieindia.org]

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

Pune, September 28-29, 2018

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

## Computer Engineering Division

One Day Workshop on **“PHP and Wordpress”**

Solapur, February 15, 2018

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

One Day Workshop on **“Data Analytics & Big Data”**

Jamshedpur, February 17, 2018

The Honorary Secretary, IEI, Jamshedpur Local Centre, Pipe Line Road, Sakchi (Between Red Cross Society and TCE Building), Jamshedpur 831001 [☎: (0657) 2234316; Fax: (0657) 2230159; e-mail: jamshedpurc@ieindia.org]

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

Ahmedabad, February 24-25, 2018

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

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

Kanchepuram, March 02-03, 2018

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





### One Day Seminar on “Contemporary Research Avenues In Edge Computing”

Tirunelveli, March 03, 2018

The Honorary Secretary, IEI, Tirunelveli Local Centre, Einstein College of Engineering Sir C V Raman Nagar Tirunelveli 627012 [Email: tirunelveliic@ieindia.org]

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

Ahmedabad, April 07-08, 2018

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

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

Ghaziabad, February 15-16, 2019

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

## Electrical Engineering Division

### All India Workshop on “Hands on Training on Internet of Things and Its Applications”

Madurai, February 07-08, 2018

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

### One Day Seminar on “Sustainable Development and Renewable Energy”

Salem, February 12, 2018

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

### One Day Seminar on “Challenges in Modern Power System Operation and Control”

Salem, February 13, 2018

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

### One Day Seminar on “Integration and Challenges on Renewable Energy System”

Kancheपुरam, February 16, 2018

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

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

Ahmedabad, February 16-17, 2018

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

### One Day Workshop on “Pick and Place Robots”

Solapur, February 24, 2018

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

### One Day Seminar On “Recent Trends in Solar Energy With Efficient IoT Control”

Salem, February 26, 2018

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

### All India Seminar on “Applications on Nano-materials on Solar Energy”

Madurai, March 09-10, 2018

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

### One Day Workshop on “IoT Using Raspberry Pi”

Kancheपुरam, March 12, 2018

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

### All India Seminar on “Major Advances in Renewable Energy Sources and their Applications”

Jamshedpur, March 23-24, 2018

The Honorary Secretary, IEI, Jamshedpur Local Centre, Pipe Line Road, Sakchi (Between Red Cross Society and TCE Building), Jamshedpur 831001 [☎: (0657) 2234316; Fax: (0657) 2230159; e-mail: jamshedpuric@ieindia.org]

### “National Conference on Power Engineering – 2018”

Madurai, March 27-28, 2018

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

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

Hyderabad, October 03-05, 2018

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

## Electronics and Telecom. Engg. Division

### One Day Workshop on “Advanced Microcontrollers And Robotics”

Visakhapatnam, February 09, 2018

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

### One Day Seminar on “Electronics and Telecommunication in Medical Application”

Salem, February 15, 2018

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

### One Day “Integration between Global Navigation Satellite Systems & Wireless Communication and Networking Systems”

Durgapur, February 17, 2018

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

### All India Workshop on “Modern Fractal Antenna Design for LTE WIMAX Application”

Kancheपुरam, March 06-07, 2018

The Honorary Secretary, IEI, Kancheपुरam Local



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

### Environmental Engineering Division

One Day Seminar on **“Sewage Treatment and Disposal”**

Thanjavur, February 23, 2018

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

One Day Workshop on **“Recent Trends in Waste Water Treatment”**

Kanchepuram, March 03, 2018

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

All India Seminar on **“Swachh Bharat Abhiyan – Creating and Enabling Environment”**

Kolkata, March 07-08, 2018

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

One Day Seminar on **“Smart and Green Technology for Sustainable Future”**

Salem, March 12, 2018

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

One Day Seminar on **“Solid Waste Management and Technology”**

Lucknow, March 18, 2018

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

Thirty-fourth National Convention of Environmental Engineers on **“Environmental Pollution and Climate Change”**

New Delhi, August 10-11, 2018

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

### Marine Engineering Division

Thirty-second National Convention of Marine Engineers on **“Emerging Trends and Developments in Marine Technology”**

Chennai, August 18-19, 2018

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

### Mechanical Engineering Division

One Day Workshop on **“EOT Crane Operation & Maintenance Aspects”**

Visakhapatnam, February 28, 2018

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

All India Workshop on **“Optimization Tools and Intellectual Property Rights”**

Kanchepuram, February 23-24, 2018

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

One Day Workshop on **“Recent Trends in Robotics and Automation”**

Chennai, March 03, 2018

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

One Day Seminar on **“Composite Materials and Material Engineering:– A Dynamic Look”**

Salem, March 03, 2018

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

One Day Workshop on **“Solar System Design and Installation”**

Chennai, March 29, 2018

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

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

Delhi, September 01-02, 2018

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

### Metallurgical & Materials Engg. Division

One Day Seminar on **“Nano Composites Materials and Its Applications in Manufacturing”**

Salem, February 01, 2018

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

One Day Seminar **“Ferrous Materials & Their Processing”**

Tiruchirappalli, February 23, 2018

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, BHEL Main Office Road, Tiruchippalli 620014 [☎: 0431-255 4285; Fax : 0431-2520383/2520775; e-mail:tiruchirappallc@india.org]

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

Kolkata, November 01-03, 2018

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

### Mining Engineering Division

Twenty-ninth National Convention of Mining Engineers on **‘Sustainable Open Cast Mining at Small Mines’**

Salem, February 22-23, 2018

The Honorary Secretary, IEI, Salem Local Centre, 3rd Floor, SPC Bhawan, No.104/7,



Manivannan Street, Opp to Salem New Bus Stand, Salem 636004, Tamilnadu [☎: (0427) 2332544; e-mail: salemic@ieindia.org]

### Production Engineering Division

All India Seminar on “**Challenges and Advances of Rapid Prototyping in Production Engineering**”

Tiruchengode, February 02-03, 2018

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

All India Seminar on “**Unconventional Machining and Modern Production Techniques**”

Bhubaneswar, February 09-10, 2018

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

All India Workshop on “**Six Sigma Fundamentals and Applications**”

Kolkata, March 16-17, 2018

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

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

Thirty-first National Convention of Textile Engineers on “**Indian Textile Industries: Future Direction**”

Hosur, February 17-18, 2018

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

One Day Workshop on “**Meditech**”

Ahmedabad, March 20, 2018

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

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 [☎: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

### Interdisciplinary Coordination Committee

One Day Workshop on “**Communication and Personality Development for Engineers**”

Ahmedabad, February 10, 2018

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

All India Seminar on “**Making India Self Reliant – Emerging Technologies**”

Ranchi, February 24-25, 2018

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

International Conference on “**Emerging Technologies for Sustainable and Intelligent Technologies for HVAC & R Systems**”

Kolkata, July 20-21, 2018

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



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## West Bengal State Centre Felicitates President and Vice Presidents, IEI



West Bengal State Centre of the Institution felicitated Mr Sisir Kumar Banerjee, President, IEI and Mr P Rajamani and Mr Vijay Sadashiv Ghogare, Vice Presidents, IEI on January 05, 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](mailto: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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