

Qualitative and Quantitative Improvements in Farm Products through Innovative Technology

2

Sustainability in Construction and Civil Engineering

3

Advances in Metallurgy and Manufacturing Process

4

IEI Diary

9

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

Volume 68

Number 6

Thirty-second National Convention of Marine Engineers, Chennai

Indian Maritime Sector – an Ocean of Opportunities

Tamilnadu State Centre of the Institution in association with Maritime Foundation, Chennai, organized the Thirty-second National Convention of Marine Engineers and National Seminar on the theme 'Indian Maritime Sector – an Ocean of Opportunities' during August 16-18, 2018 at Chennai. Dr G Ranganath, Chairman, Tamilnadu State Centre, welcomed the august gathering and delivered the welcome address. Dr Malini V Shankar, Director General of Shipping, graced the occasion as the Chief Guest. Dr Shankar, in her address, explained the rich cultural heritage of Indian maritime history and mentioned the advantages and sub-optimality of India's maritime power. She further emphasized upon exploration of maritime resources, autonomous ship building, better port management and voyage safety, maritime application of renewable energy resources etc. Dr Shankar further stressed on research and enhancement of the scope and opportunities of maritime studies and training & development for ongoing seafarers.



Mr Sisir Kumar Banerjee, President, IEI, graced the occasion as the Guest-of-Honour. In his address, Mr Banerjee stressed on creating an ecosystem of learning with the objective to contribute to the continuous professional development during the entire spectrum of professional career of an engineer. He further stressed upon introducing digital learning platform for budding engineers and Corporate Members. Mr Banerjee further spoke about the gap between engineering education and industrial demand for young engineers and emphasized on the need to strengthen academic-industry interface.

Mr A K Mukherjee, Chairman, Marine Engineering Division Board, IEI, presided over the inaugural session. In his address, Mr Mukherjee stressed on development of emerging areas in maritime industry including 3D ocean modelling, study of coastal and estuarine flows, construction of self-driven platforms and vehicles, underwater robotics, development of ports, breakwater, dredging, siltation technology etc.

Contd. on page 3

From the President's Desk.....



Water management is a major focus area which requires to be addressed holistically. Out of the total water available on earth, only about 3% is in the form of fresh water. Further, if we leave out permafrost regions and very deep fossil waters, a very small

part of about 0.03% remains accessible for human use. It is available in the form of rain and snowfall, runoff of floodwaters flowing through the drainage systems into the oceans and through the natural hydrological recycling process of evaporation, transpiration and condensation. A major part appears in the river system downstream and is drained through streams and rivers into seas, unless captured in man-made storages or withdrawn for use. The surface water and the groundwater together constitute the renewable or dynamic water resources of the country. They can't be put to beneficial uses unless they are developed. It is the duty of planners and engineers to formulate necessary management protocol for maximisation usefulness of water sources. In this context, I would like our Centres to actively focus on programmes to enhance awareness of this important issue.

Last month, we have organised three major Conventions -- National Convention of Agricultural Engineers at Kota, Rajasthan on the theme "Agricultural Engineering for the Sustainable Rural and Agriculture Development in India"; National Convention of Environmental Engineers at New Delhi on the theme "Environmental Pollution and Climate Change"; and National Convention of Marine Engineers at Chennai on the theme 'Indian Maritime Sector – an Ocean of Opportunities'. Rapid growth of agriculture is essential not only to achieve self-reliance but also for household food security and to bring about equity in distribution of income and wealth aimed at reduction in poverty levels. It is significant that deliberations that took place during the National Convention of Agricultural Engineers discussed on rural development in India on farm mechanization techniques, post-harvest technology, improved crop production and many other important related areas in a pragmatic manner. The Environmental Engineering Division in their Convention considered environmental pollution and

Contd. on page 4

Qualitative and Quantitative Improvements in Farm Products through Innovative Technology

Berhampur Local Centre of the Institution organized a two-day All India Seminar on the theme 'Qualitative and Quantitative Improvements in Farm Products through Innovative Technology' under the aegis of Agricultural Engineering Division of IEI during July 19-20, 2018 at Berhampur. The Chief Guest Mr Surjya Narayan Patro, Hon'ble Minister - Food Supplies & Consumer Welfare, Cooperation, Odisha, in his inaugural address discussed various aspects embracing the theme of the Seminar. He mentioned that as both the quality and quantity of the farm products are complementary to each other, it should never be opposite by any means. He also explained the steps taken at the Government level for post-harvesting of the products and their proper marketability. The Chief Speaker, Mr Sarat Kumar Mohanty, Former Engineer-in-Chief, Water Resources Department, Odisha, in his deliberations lamented the gradual depletion of water resources and stressed upon to increase the irrigation efficiency as well as water-use efficiencies in order to cater to the irrigation needs of vast areas of arable lands. The Guest-of-Honour, Dr Nutan Kumar Dash, Chairman, Agricultural Engineering Division Board, IEI, after pointing out the defections and deficiencies in the field of irrigation, suggested for adoption of micro irrigation technology and various techniques in agriculture sector to tackle the water scarcity situations. Mr Surya Narayan Dhar, Principal, UCP Engineering School, Berhampur, in his address, highlighted the scenario of irrigation system and present status of the agriculture sector and also advised for adoption of innovative technologies in all the stages of crop growth. He further stressed upon to think for alternate source of energy with a view to provide recommended amount of farm energy in various farming operations, as in absence of that better production of farm products will be a day dream. Earlier, Mr Ashutosh Patra, Chairman of the Centre, in his welcome address,

elaborated the theme of the Seminar with the explanations of necessity of advanced techniques and innovative technologies in agriculture sector and other farming areas, such as, dairy farm, poultry farm, etc. aiming at increasing the production both in qualitatively and quantitatively, that too without generating any negative impact on the environment. Mr Sanjaya



Kumar Moharana, Organizing Secretary of the Seminar, delivered the introductory speech. A Souvenir containing articles on the themes and sub-themes of the Seminar was also brought out on this occasion, which was released by the Chief Guest accompanied by other dignitaries. Mr Rajani Kanta Patro, Past Honorary Secretary of the Centre, proposed the vote of thanks. A large number of technical papers embracing the theme of the Seminar were presented and discussed during technical sessions which were conducted under the Chairmanship of Mr Ananda Subudhi, Former Engineer-in-Chief, Water Resources Department, Dr U C Patnaik, Former Deputy General Manager, Gridco and Dr L K Bisoyi, Former Principal, SMIT, Berhampur.

Professional Ethics & Standards for Engineers

Uttar Pradesh State Centre of the Institution organized a two-day All India Seminar on the theme 'Professional Ethics & Standards for Engineers' under the aegis of Interdisciplinary Coordination Committee of IEI during June 24-25, 2018 at Lucknow. The Chief Guest, Prof (Dr) Subrata Chakraborty, Former Director, Jaipuria Institute of Management, Lucknow, in his speech mentioned that ethics cannot be learnt from books. He emphasized on 3Cs viz. consciousness, conscience and concern. Dr Chakraborty further emphasized upon the fact that books can only facilitate ethics but it can be inculcated from inner-self only. In this respect, he mentioned that mother, father and primary school teachers can guide our path in right directions. The Guest-of-Honour, Maj. Gen. K K Ohri also delved upon moral values for engineers and opined that engineers have to be ethical. He felt that morals and ethics should always go together. The Keynote Speaker, Dr A P S Bhaduria, from PSIT, Kanpur, clarified ethics



for engineers by dividing human development in various eras starting from primitive era. 'Population increased, demand increased, new machines got invented paving the way for industrial revolution polluting air, polluting water, polluting soil on the part of mankind and fulfilling ballooned needs

Contd. on page 4

Sustainability in Construction and Civil Engineering

Assam State Centre of the Institution organized a two-day All India Seminar on the theme 'Sustainability in Construction and Civil Engineering' under the aegis of Civil Engineering Division, IEI during June 23-24, 2018 at Guwahati. The inaugural session was chaired by Dr Aswini Kumar Baruwa, Chairman of the Centre. Mr Sanjive Roy, General Manager, North Frontier Railway, Guwahati, graced the occasion as the Chief Guest. Mr Roy, in his speech highlighted various issues of sustainability of construction in general constructional and developmental scenarios. He presented a picture on Railway Construction issues where he clearly mentioned how Railway Authorities are taking care about sustainability of construction in infrastructural development of the country. Mr Roy also cited a few cases where indigenously developed materials are being used by Railways for sustainable construction even though on a small scale. The Key Note Speaker, Prof (Dr) Bishwajit Bhattacharjee, Civil Engineering Department, IIT Delhi, initiated his speech with the concept of sustainable construction in an elaborated manner where he explained that portal of sustainability is supported on three recognized pillars, namely, social, environmental and economic pillars. He felt that cement consumption is the index of growth and development. Prof Bhattacharjee stated that based on the data of cement consumption, it may be assumed that the infrastructure of the developed countries has been stabilized while that in China is nearly stabilized. But there is increase in rate of consumption of cement and concrete in the countries like India, South Asian Countries and Sub-Saharan African Countries as infrastructural growth in these countries is yet to be stabilized. He narrated that concrete, with carbon



cement, can be used as versatile material for sustainable construction in such countries. 'The sustainability issue encompasses durability and long life with lesser frequency of maintenance, optimal structural and functional performance, when produced through appropriate quality control and mechanized/industrialized production system', he added. Earlier, Mr Bhaben Kalita, Organizing Secretary of the Seminar, delivered the welcome address. Mr Amitava Nath, Honorary Secretary of the Centre, proposed the vote of thanks. A number of technical papers on various sub-themes including Design and Construction of Green Buildings, Innovative and Sustainable Materials, Construction Technology and Processes, Energy and Resource Efficiency in Infrastructure, Ecosystem Interaction with Built Environment, Wastewater Processing and Storm Water Management, Innovative Financing Models, Occupational Health and Safety in Construction, etc were presented and discussed during technical sessions. The Seminar aimed to

bring together leading academic scientists, researchers, research scholars and field engineers to exchange and share their experiences in all aspects of sustainable construction. It also provided an interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends and concerns as well as practical challenges encountered and solutions adopted in the field to make the construction sustainable.

Indian Maritime Sector – an Ocean of Opportunities

Contd. from page 1

Mr T M Gunaraja, Council Member, IEI also present on the dais and addressed the gathering.

Dignitaries, namely, Vice Admiral B Kannan, (Retd), Managing Director & CEO, L&T Shipbuilding Ltd; Col Dr G Thiruviasagam, Vice Chancellor, AMET University and Mr C V Subba Rao, President, The Institute of Marine Engineers (India) & Deputy Managing Director, Sanmar Shipping Ltd, Chennai, also graced the occasion as Guests-of-Honour. Vice Admiral Kannan spoke about sustainable logistic capability of Indian coastline and stressed upon the seabed exploration, ocean mining, evaluation of shipbuilding capabilities, capacity evaluation of dockyards and ports for maritime policy making and economic development. Col. Dr Thiruviasagam, in his address, explained the opportunity, potential and global demand of skilled maritime manpower, and significance of higher education in maritime sector and onboard training of fresh seafarers. Mr Subba Rao lucidly explained various aspects of maritime markets, global position of the country in cargo handling, import/export etc. Mr Subba Rao also delivered 'Rear Admiral T B Bose Memorial

Lecture', where he lucidly explained revolution in engineering, innovations, inventions and gradual development of technological excellence. On this occasion, three Eminent Engineers, namely, Mr V Mohanan, Chief Executive Officer, Maritime Foundation, Chennai; Mr K R A Narasiah, Historian & Port Management Consultant and Mr C V Subba Rao, President, IME(I) and Deputy Managing Director, Sanmar Shipping Ltd., were felicitated for their valuable services to the Maritime Industry. The 'IEI Young Engineers Award' under Marine Engineering Division for the year 2018-19 was presented to Dr Aditya Kolakoti, Assistant Professor, Department of Mechanical Engineering, Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam. A colourful Souvenir was brought out on this occasion which was released by the dignitaries present on the dais. Earlier, Mr S Kannan, Member, Marine Engineering Division Board, IEI and Convener briefed the audience about the Convention. Mr R Ramdoss, Honorary Secretary, Tamilnadu State Centre, proposed the vote of thanks at the end of the inaugural session. A large number of papers embracing the theme of the National Seminar were presented and discussed during technical sessions.

Advances in Metallurgy and Manufacturing Process

Telangana State Centre of the Institution organized a two-day All India Seminar on the theme 'Advances in Metallurgy and Manufacturing Process' under the aegis of Metallurgical and Materials Engineering Division of IET during July 13-14, 2018 at Hyderabad. The Chief Guest, Prof (Dr) K Bhanu Sankara Rao, Ministry of Steel Chair Professor, Govt. of India, MGIT, Hyderabad, in his inaugural address, appreciated the significant contributions of various manufacturing technologies towards simultaneous improvement of productivity and quality. He stated that the materials world has witnessed a sea-change in recent times with new type of materials being developed and helped in replacing the traditional materials paving the path for newer and wider array of industrial applications. He added that the manufacturing systems and technologies continue to play a key role in the modern engineering practice in achieving the overall safety and reliability of the components and structures. Prof Rao also touched upon various salient challenges and tasks spread ahead for everyone including manufacturing engineers, researchers and academicians for the years to come. 'The Metallurgists know very well how to manipulate structures in different scales to achieve not only the desired properties but also to bring about unexpected surprises', he added. Prof Rao opined that the metallurgy/material scientists have a dominant role to play in shaping the profile of our country, so that, the forthcoming challenges are well managed by the future generations. The Keynote Address was delivered by Dr G Padmanabham, Director, ARCI, Hyderabad, on the topic 'Challenges in Metal Additive Manufacturing'. He explained in depth that in the simplistic analogy, the additive manufacturing is nothing but welding under constrained boundary conditions. He further exemplified how the design driven manufacturing that permits realizing the highly complex structures to be extremely light, reproducible and stable geometries utilizing the advancements in the field of additive manufacturing. He also briefed about various challenges and opportunities in this field. Mr

Sandeep Jain, General Manager, India Govt. Mint graced the occasion as the Guest-of-Honour and addressed the gathering. The other dignitaries graced the occasion with their august presence included Dr G Madhusudhan Reddy,



Scientist 'H', DMRL and Chairman, Technical Committee; Mr M Koteswara Rao, Convener of the Seminar; Dr S Satyanarayana and Dr G Rameshwar Rao, Chairman and Honorary Secretary of the Centre, respectively. A variety of lectures that were aptly selected and presented were under the broad category of additive manufacturing, advances in thermo-mechanical processing, surface modification techniques, synthesis and characterization of nano-materials and high temperature materials. Technical Volume of the Seminar was brought out on this occasion which was released by the dignitaries. A major striking aspect of this Seminar was a series of invited talks by the eminent personalities that were knitted together to showcase the latest trends in advances in metallurgy and manufacturing processes on a single platform in an elegant and timely manner.

From the President's Desk.....

Contd. From page 1

climate change as a major global concern due to their adverse effects on physical and biological aspects of the environment and the deliberations were contemporary in nature.

The Marine Engineering Division Convention focussed on increased investments together with the 'Make in India' impetus which can increase the Indian Maritime Sector's contribution to GDP and trade volumes. Another important aspect of Indian Maritime Sector is Inland Water Transport which is a cheap, fuel-efficient, environment-friendly mode with a higher employment generation potential and is suitable for heavy and bulky goods.

In this time of rapid technological change, I call upon all engineers to focus on continually enhancing their skill sets through 'Continuous Professional Development' and IET's endeavour is to provide an appropriate platform for professional growth of our Corporate Members.

Professional Ethics & Standards for Engineers

Contd. From page 2

paved the way for unethical practices also', he opined. He mentioned that it is high time for introducing ethical practices in engineering profession and adopt eco-friendly technology. Dr P M Johri, Professor, PSIT, Kanpur and Dr Rachana Kumari, Assistant Professor, School of Management Sciences, Lucknow also addressed the gathering. Dr Johri brilliantly delved upon values whereas Dr Rachana Kumari stressed on self-exploration for ethical behavior. Earlier, Mr V B Singh, Council Member, IET welcomed the august gathering and highlighted various activities of the Institution. The Seminar ended with a vote of thanks proposed by Mr R K Trivedi, Honorary Secretary of the Centre. Papers on various sub-themes were presented and discussed during technical sessions. Dr A P S Bhaduria presented paper on 'Professional Ethics for Engineers in the Present Global Era'; Mr A L Kalra and Mr O P Sharma discussed on 'Professional Ethics and Standards'; Mr Khazan Chandra and Mr M K Goel spoke about 'Professional Ethics and Standards for Engineers and Valuers'; Prof Jamal Nusrat presented paper on 'Ethics and Engineering'.

51st ENGINEERS' DAY

Theme:

“Digital Transformation: A New Industrial Revolution”

September 15 is celebrated every year in the country since 1967 as “Engineers’ Day” to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred “Bharat Ratna” on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on economic planning in India, Planned



Bharat Ratna Sir M Visvesvaraya

Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A theme of national importance is chosen every year by the Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the 51st Engineers’ Day will be celebrated all over the country and the Council of the Institution has selected the theme as “Digital Transformation: A New Industrial Revolution” to mark the occasion.

Embedded Systems for Real-Time Power Electronics Applications

Kancheपुरam Local Centre of the Institution in association with the Department of Electrical & Electronic Engineering, SRM Institute of Science and Technology, Kattankulathur, organized a two-day All India Workshop on the theme ‘Embedded Systems for Real-Time Power Electronics Applications’ under the aegis of Electrical Engineering Division of IEI during July 20-21, 2018 at Kattankulathur. Dr K Vijayakumar, Professor and Head, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology and Convener of the event, welcomed the gathering. Dr J Balamurugan, Assistant Engineer, Tamil Nadu Generation and Distribution Corporation Limited, (TANGEDCO), Tamil Nadu Electricity Board, Chennai, inaugurated the Workshop. In his inaugural address, Dr Balamurugan highlighted the importance of embedded systems in day-to-day life, particularly in power electronics.

Dr Srinivasan Alavandar, Joint Honorary Secretary of the Centre and Dean, Academics, Agni College of Technology, Chennai, presided over the function and addressed the gathering. He highlighted various programs of IEI that aimed for the development of students and the opportunities that IEI offers to its members. Mr C Balaji, Advisor, IEI Students Chapter, Electrical & Electronics Engineering, proposed the vote of thanks. The main aim of the Workshop was to know the importance and create an in-depth knowledge about

embedded systems and its applications to power electronics converters. While initiating the Technical Sessions, Mr T Siva, Assistant Professor, Department of Electrical & Electronics Engineering, Jerusalem Engineering College, Chennai, threw some light on embedded systems, programming techniques and its applications. He explained various parts of PIC16F877a development board and related firmware. The hardware sessions included working with various peripherals, such as, LED, switches, generation of gate signals, relay control, etc. Mr C Balaji, Assistant Professor, Department of Electrical & Electronics Engineering, then continued to explain the theoretical aspects, such as, working of various circuits used in power electronics. Mr S Balasubramani, Assistant Professor, Department of Electrical & Electronics Engineering, Jerusalem Engineering College, Chennai, spoke about the programs to control various motors.



One Day Seminars/Workshops conducted by various Centres of IEI

STATE CENTRES

Andhra Pradesh



Andhra Pradesh State Centre of the Institution in association with the Department of Mechanical Engineering, Gudlavalluru Engineering College (GEC), Gudlavalluru, organized a One Day Workshop on the topic 'Characterization of Metal Matrix Composites' under the aegis of Mechanical Engineering Division, IEI on August 11, 2018 at Gudlavalluru. Dr D Nageswara Rao, Former Vice Chancellor, Centurion University of Technology & Management, Paralakhemundi, graced the occasion as the Chief Guest. Other dignitaries present on the occasion included Dr M Gopi Krishna, Head, Department of Mechanical Engineering, Acharya Nagarjuna University, Guntur, as the Guest-of-Honour; Mr K CH Kishor Kumar, Associate Professor, GEC, as Coordinator of the event; Dr M R CH Sastry, Professor & Head, Department of Mechanical Engineering, GEC, as Convener of the function; Dr S R K Reddy, Senior Professor & Advisor to Management of GEC and Dr M Kama Raju, Immediate Past Chairman of the Centre.

Andhra Pradesh State Centre of the Institution in association with Bhimavaram Local Centre, IEI and Research & Development Cell, Sri Vasavi Engineering College (SVEC), Tadepalligudem, organized a One Day Workshop on the topic 'Internet of Everything and Applications' under the aegis of Interdisciplinary Coordination Committee, IEI on August 18, 2018 at Tadepalligudem. Mr D Rama Krishna, Former Chairman of Vijayawada Local Centre of the Institution and Managing Director, M/s Efftronics Systems Pvt. Ltd, Vijayawada, graced the occasion as the Chief Guest. Other dignitaries attended the function included Mr Ch Appa Rao, Technical Director, SVEC as the Guest-of-Honour; Dr Rama Rao PVV, Dean (R&D), SVEC as Convener of the event; Prof (Dr) G V NSR Ratnakara Rao, Principal, SVEC and Dr E Kusuma Kumari, Professor & Head, Department of Electronics and Communication Engineering, SVEC.



Gujarat

Gujarat State Centre of the Institution in association with the Chemical Engineering Department (Co-Anchor Institute of Chemicals and Petrochemicals), LD College of Engineering (LDCE), Ahmedabad and Indian Institute of Chemical Engineers, Ahmedabad organized a One Day Workshop on the topic 'Present Trend in Heat Exchanger Design and Manufacturing' under the aegis of Chemical Engineering Division, IEI on August 22, 2018 at Ahmedabad. Mr Navinchandra B Vasoya, Immediate Past President, IEI graced the occasion



as the Chief Guest and addressed the gathering. Mr Ashutosh Shukla, Founder of Aerothem Products and Prof (Dr) Sachin Parikh, Head, Chemical Engineering Department, LDCE graced the occasion as the Guest-of-Honour and Special Guest, respectively.

Tripura

Tripura State Centre of the Institution in association with Disaster Risk Management (DRM) Committee of World Federation of Engineering Organizations (WFEO), Tripura Disaster Management Authority and National Institute of Technology Agartala organized a One Day Seminar on the topic 'Disaster: It's Preparedness, Mitigation and Capacity Building' under the aegis of Civil Engineering Division, IEI on August 3, 2018 at Agartala. Mr Narendra Chandra Debbarma, Hon'ble Minister for Revenue, Fisheries etc. Departments, Govt. of Tripura and Mr Ashok Kumar Basa, Chairman, DRM Committee, WFEO and Past President, IEI graced the Seminar as the Chief Guest and Special Guest, respectively. Other dignitaries present on the occasion included Dr Sarat Kumar Das, State Project Officer, UNDP, Revenue Department, Govt. of Tripura; Dr Debasish Bandyopadhyay, Professor, Department of Construction Engineering, Jadavpur University, Kolkata; Dr Rajib Saha, Assistant Professor, Civil Engineering Department, NIT Agartala; Dr Sajal Kanti Deb, Professor, Civil Engineering Department, IIT Guwahati and Mr Surojit Dasgupta, General Manager, Shyam Steel Industries Ltd., Kolkata.



LOCAL CENTRES

Ahmednagar

Ahmednagar Local Centre of the Institution organized a One Day Seminar on the topic 'Reduction in Water Footprint' under the aegis of Environmental Engineering Division, IEI on August 31, 2018 at Ahmednagar. Mr Popatrao Pawar, Executive Director, Government Model Village Programme, Maharashtra State, graced the Inaugural function as the Chief Guest. Mr R V Saraf, Convener, Environment Engineering Division of Maharashtra State Centre, IEI delivered the keynote address on the topic 'Water Foot Print – Effective Tool for Reduction in Water Consumption.' Mr Ramchandra Dare, Vice President, Ahmednagar Jilha Maratha Vidya Prasarak Samaj, presided over the function.



Bareilly

Bareilly Local Centre of the Institution organized a One-day Seminar on the topic 'Advancements in Solar Thermal Technologies' under the aegis of Mechanical Engineering Division, IEI on August 31, 2018 at Bareilly. Mr K B Agarwal and Mr Sudhir Gupta presented papers on 'Use of Solar Energy' and 'Solar Thermal Power', respectively. Mr Sovan Mohanty, spoke about 'Next Generation Sustainable Energy Technology'. Mr S Deva, Mr Inayat Hussain, Mr Rishabh Ratnakar and Mr Ashutosh Mathur also presented papers discussing various aspects of solar thermal energy.



Durgapur

Durgapur Local Centre of the Institution organized a One-day Seminar on the topic 'Recent Trends in Condition Monitoring of Rotating Equipments in Steel, Mines & Power Sectors' under the aegis of Mechanical Engineering Division, IEI on August 19, 2018 at Durgapur. Mr A R Dasgupta, Executive Director (Project), SAIL, Durgapur Steel Plant graced the occasion as the Chief Guest. Other dignitaries present on the occasion included Dr R K



Biswas, Former Scientist, Condition Monitoring Group, CSIR-CMERI as the Guest-of-Honour & Keynote Speaker; Prof (Dr) L A Kumaraswamidhas, Head of the Department, Mining Machinery Engineering, IIT

(ISM), Dhanbad; Prof (Dr) N C Dey, Dean (Students), IIST Shibpur; Mr K C K Jeothy, Deputy General Manager, SAIL, DSP and Mr R Bhattacharjee, Assistant Manager, Coal India Ltd., Shyamsundarpur Colliery as Guests-of-Honour & Invited Speakers.

Ghaziabad

Ghaziabad Local Centre of the Institution organized a One-day Workshop on the topic 'Disaster Proof Construction and Other Risk Management Systems' under the aegis of Civil Engineering Division, IEI on August 20, 2018 at Ghaziabad. Brig Dutta, Former Secretary, Crisis Management NDMA graced the occasion as the Chief



Guest and addressed the gathering. Other dignitaries present on the occasion included Dr Ashok Kumar Gadiya, Chairman, Mewar Educational Society as Guest-of-Honour; Dr Alka Agarwal, Director, Mewar Group of

Institutions as Invited Guest; Dr B K Singh, Professor in Civil Engineering as Keynote Speaker; Mr M S Tygai and Mr J P S Rana as Organising Secretary and Convener of the event, respectively.

Rourkela

Rourkela Local Centre of the Institution organized a One-day All India Seminar on the topic 'Cutting Edge Technologies for Industrial Condition Monitoring' under the aegis of Mechanical Engineering Division, IEI on August 26, 2018 at Rourkela. Mr S Nanda, DGM-in-Charge, Design Department, Rourkela Steel Plant, graced the occasion as the Chief



Guest. Prof J Srinivas, Department of Mechanical Engineering, National Institute of Technology Rourkela convened the function. Mr S S Bhue, Past Chairman of the Centre also attended the Seminar.

Guest. Prof J Srinivas, Department of Mechanical Engineering, National Institute of Technology Rourkela convened the function. Mr S S Bhue, Past Chairman of the Centre also attended the Seminar.

Salem

Salem Local Centre of the Institution in association with Thiagarajar Polytechnic College (TPC), Salem organized a One-day Seminar on the topic 'Green Concrete Technology' under the aegis of Civil Engineering Division of IEI on July 21, 2018 at Salem. Dr V Karthikeyan, Principal, TPC, Salem presided over the function and delivered Special Lecture. A number



of resource papers were presented and discussed during the technical sessions of the Seminar.

IEI Industry Excellence Award 2018

Request for Participation

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

Applications in specified format (visit link: <https://www.ieindia.org/webui/IEI-Activities.aspx#industry-excellence-award>) are invited from prospective applicants for IEI Industry Excellence Award 2018. The last date of receipt of application for the Award 2018 is **September 30, 2018**. Interested applicants are requested to send their applications (5 hard copies & 1 soft copy in CD) to the below mentioned address.

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

NEWS-IN-BRIEF

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

STATE CENTRES

Assam

Lecture on 'An Overview of Brahmaputra River System and Opportunities' delivered by Mr A K Mitra, Past Chairman of the Centre on July 28, 2018.

Karnataka

Lecture on 'Solving Traffic Problems of Bangalore' delivered by Dr Anilkumar P Grampurohit, Police Inspector, Traffic Planning, Bengaluru City on August 17, 2018.

Punjab & Chandigarh

Workshop on 'Wireless Sensor Networks' on August 20, 2018.

LOCAL CENTRES

Ahmednagar

Lectures on '7/12 Extract and other Revenue Forms' and 'Redevelopment of Old Buildings' delivered by Mr Avinash D Kuklkarni, Chairman of the Centre on August 10, 2018.

Kalaburagi

Lecture on 'Role and Responsibility of Engineers in Society' delivered by Ms Pallavi Biradar on August 30, 2018.

Kanyakumari

Seminar on 'Nuclear Energy Technologies and its Safety Aspects' on August 21, 2018.

Technical Visit to Kudankulam Nuclear Power Project on August 29, 2018.

Kollam

Organized Skill Development Programme on 'An Introduction to Quantum Geographical Information Systems (QGIS)' during August 23-28, 2018.

Saurashtra

Lecture on 'Startup Ecosystem in Gujarat' delivered by Dr Satya R Acharya, Acting Chairperson (PGPS), Entrepreneurship Development Institute of India, Ahmedabad on August 14, 2018.

Lecture on 'Recent Advances in Design of Flexible Pavement' delivered by Prof (Dr) Ujjval J Solanki, Assistant Professor, Department of Civil Engineering, Darshan Institute of Engineering & Technology, Rajkot on August 20, 2018.

Tiruchirappalli

Lecture on 'Electric Vehicle Technologies' delivered by Mr P Padmagirisan, Research Scholar, Department of Electrical Engineering, NIT Tiruchirappalli, on August 7, 2018.

Lecture on 'Neural Networks and their Applications' delivered by Dr S Devi, Professor, Electronics & Communication Engineering, PRIST University, Thanjavur, on August 14, 2018.

Lecture on 'Applications of Value Engineering in Various Industries' delivered by Mr P Arjunraj, Manager - R & D, Power Train- Research & Development, PSA AV Tech Power Train Pvt Ltd, Hosur on August 21, 2018.

Lecture on 'Stainless Steel Welding' delivered by Mr G Rajendran, Senior Deputy General Manager- OP&C, MM & Logistics- BHEL Thirumayam on August 28, 2018.

National Design Awards - 2018

The National Design and Research Forum (NDRF) of The Institution of Engineers (India) has been formed to promote Design and Research in various branches of engineering. NDRF handles, on behalf of IEI, the schemes relating to the National Design Awards and the All India Student Design Competitions. As you would be aware, with a view of promoting and advancing Engineering Design activity in the Country, NDRF identifies and recognises each year those who have been making outstanding contributions in the field of Engineering Design by giving each year. In keeping with this, NDRF is happy to announce nominations for National Design Awards - 2018.

Entries are invited in the following National Design Awards:

- ❖ National Design Award
- ❖ Architectural Engineering Design Award
- ❖ Environmental Engineering Design Award
- ❖ Mechanical Engineering Design Award
- ❖ Mining Engineering Design Award
- ❖ Prestressed Concrete Design Award
- ❖ Suman Sharma Award

The Last date for receiving entries is **31 October 2018**.

For more information, contact National Design and Research Forum, The Institution of Engineers (India), # 3, Dr. B. R. Ambedkar Veedhi, Bangalore - 560 001. Ph: 080-22264336; E-mail: ndrf@ieindia.org or visit NDRF website at www.ndrf.res.in

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

Agricultural Engineering Division

International Conference on **“Role of Agricultural Engineering towards Global Food Security”**

Bangalore, April 11-13, 2019

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

Thirty-third National Convention of Agricultural Engineers on **“Commercial Crops Processing and Value Addition”**

Agartala, August 10-11, 2019

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

Architectural Engineering Division

International Conference on **“Architectural Innovations: Engineering, Technology and Materials”**

Jaipur, November 10-12, 2018

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

Thirty-fourth National Convention of Architectural Engineers on **“Architectural Engineering for Socio-economic Development”**

Mangalore, November 24-25, 2018

The Honorary Secretary, IEI, Mangalore Local Centre, 2nd Floor Opal Complex, Opp Bejai Church Bejai, Mangalore 575 004; [☎: 0824-2400112; e-mail: mangalorelc@ieindia.org]

Chemical Engineering Division

Thirty-fourth National Convention of Chemical Engineers on **“Bio-degradable Materials and Bio-technology for Environmental Protection in Chemical and Pharmaceutical Industries”**

Chennai, October 26-27, 2018

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

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

Guwahati, October 29-30, 2018

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

Civil Engineering Division

One Day Seminar on **“River Hydraulics and Water Resources Management”**

Surat, October 26, 2018

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

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

Bhubaneswar, October 30-31, 2018

The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit-IV, Bhubaneswar 751 001 [☎: (0674) 2390291; Telefax : 0674-2390630; e-mail: odishasc@ieindia.org; website: www.ieiorissa.org]

One Day Seminar on **“Development of Rural Sector : Inclusive Approach through Advanced Technologies”**

Solapur, December 13, 2018

The Honorary Secretary, IEI, Solapur Local Centre, Vastu Vaibhav, 3, North Kasaba, 4th Floor, Near Laxmi Bank, Shivaji Chowk, Solapur 413 001 [☎: 0217-2727707; e-mail: solapurlc@ieindia.org]

Computer Engineering Division

All India Seminar on **“Internet of Things (IoT) – Standards and Protocols”**

Bangalore, October 09-10, 2018

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

All India Seminar on **“Recent Trends in Image Processing for AI Implementation”**

Chandigarh, October 22-23, 2018

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg,

Sector 19-A, Chandigarh 160019 [☎: (0172) 2775418; Fax: (0172)2540133; e-mail: pcsc@ieindia.org]

Thirty-third National Convention of Computer Engineers on **“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

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]

All India Seminar on **“Energy Management and Audit”**

Vallabh Vidyanagar, October 26-27, 2018

The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Law College Road, Ahmedabad 380 006 [☎: 079-26400811; Fax: 079-26561825; e-mail: gujaratsc@ieindia.org]

Thirty-fourth National Convention of Electrical Engineers on **“Recent Advancement in High Voltage Direct Current (HVDC) Transmission”**

Agartala, November 16-17, 2018

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, PO : Kunjaban, PB No. 139, Agartala 799006, Telefax : 0381-2304700 [email : tripurasc@ieindia.org]

All India Seminar on **“Renewable Energy Technologies: Perspectives and Challenges”**

Chandigarh, November 16-17, 2018

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

One Day Seminar on **“Robotics Monitoring of Power Systems”**

Salem, January 01, 2019

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

All India Workshop on **“Application of Power Electronics in Electrical Systems”**

Chandigarh, January 15-16, 2019



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

Electronics & Telecom. Engg. Division

All India Seminar on “**Role of Embedded System in Wireless Sensor Networks**”
Chandigarh, October 12-13, 2018
The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Sector 19A Madhya Marg, Chandigarh 160 019 [☎: 0172-2775418; Fax: 0172-2540133; e-mail: pcsc@ieindia.org]

Thirty-fourth National Convention of Electronics & Telecommunication Engineers on “**Intelligent Telecommunication Networks for Sustainable Growth**”

Chandigarh, October 21-22, 2018

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

Thirty-fifth National Convention of Electronics & Telecommunication Engineers on “**Mechatronics: Bridge between Technologies**”
Pune, November 23-24, 2019

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

Environmental Engineering Division

All India Seminar on “**Advanced Techniques for Sustainable Solid Waste Management for Green India**”

Erode, October 4-5, 2018

The Honorary Secretary, IEI, Erode Local Centre, Texvalley Campus, Gangapuram, Erode 638102 [e-mail: erodelc@ieindia.org]

All India Seminar on “**Sources of Planet Energy, Environmental & Disaster Science: Climate Disturbances & its Global Impact**”

Lucknow, October 27-28, 2018

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

Marine Engineering Division

International Conference on “**Marine Engineering and Ocean Technology – Digital Ocean**”

Kancheपुरam, February 15-17, 2019

The Honorary Secretary, IEI, Kancheपुरam Local Centre, Agni College of Technology – ACT,

Old Mahabalipuram Road, Thalambur, Chennai 600130 [e-mail: kancheपुरamlc@ieindia.org]

Mechanical Engineering Division

One Day Workshop on “**Solid Works**”

Solapur, October 01, 2018

The Honorary Secretary, IEI, Solapur Local Centre, Vastu Vaibhav, 3, North Kasaba, 4th Floor, Near Laxmi Bank, Shivaji Chowk, Solapur 413 001 [☎: 0217-2727707; e-mail: solapurlc@ieindia.org]

One Day Seminar on “**Industrial Robotics**”

Kancheपुरam, October 17, 2018

The Honorary Secretary, IEI, Kancheपुरam Local Centre, Agni College of Technology - ACT, Old Mahabalipuram Road, Thalambur, Chennai 600 130 [E-mail: kancheपुरamlc@ieindia.org]

One Day Workshop on “**Evolution of Automotive Interiors**”

Bhimavaram, October 23, 2018

The Honorary Secretary, IEI, Bhimavaram Local Centre, First Floor, General Amenities Building, SRKR Engineering College, P.O. Chinnaamiram, Bhimavaram 534 204 [☎: 08816-233522; e-mail: bhimavaramlc@ieindia.org]

All India Workshop on “**Micro-machining**”

Chandigarh, October 25-26, 2018

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

All India Seminar on “**Optimization Techniques in Mechanical Engineering**”

Chandigarh, November 12-13, 2018

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

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

Hosur, September 13-14, 2019

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

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

Agartala, September 05-06, 2020

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

Metallurgical & Mater. Engg. Division

Thirty-second National Convention of Metallurgical & Materials Engineers on “**Advances in Engineering Materials for Sustainable Development**”

Jamshedpur, January 18-19, 2019

The Honorary Secretary, IEI, Jamshedpur Local Centre, Subarnarekha Link Sakchi, Jamshedpur 831 001 [☎: 0657-2234316; Fax: 0657-2230159; e-mail: jamshedpurc@ieindia.org]

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

Kolkata, November 01-03, 2019

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

Mining Engineering Division

All India Workshop on “**Tunnel Engineering**”

Roorkee, October 10-12, 2018

The Honorary Secretary, IEI, Roorkee Local Centre, Indian Institute of Technology (IIT) Campus, Roorkee 247667 [☎: 01332-284416, Telefax : 01332 272589; e-mail: roorkeelc@ieindia.org; website: ieirlc.org]

Thirtieth National Convention of Mining Engineers on “**Trends and Developments in Mining Industry for Encouraging Investment**”

Hosur, December 07-08, 2018

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]

Textile Engineering Division

Thirty-second National Convention of Textile Engineers on “**Technology Innovations and Value Added Products in Textile Supply Chain**”

Coimbatore, January 04-05, 2019

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

Interdisciplinary

All India Seminar on “**Engineering for Innovation to Product and Services**”

Pune, October 07-08, 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]

Notification for R&D Grant-in-Aid (2018-19)

To promote appropriate technology, assist in building up design & research talents and, most importantly, to help in nurturing potential R&D venture amongst engineering students pursuing Diploma/UG/PG/Ph. D courses, The Institution of Engineers (India) had instituted the R&D Grant-in-Aid program way back in 2001.

Like every year, the Institution invites applications for the session 2017-2018 for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing Diploma/UG/PG/Ph. D courses. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members (AMIE/MIE/FIE) of IEI. Membership criteria for students are as follows:

Project Category	Student/Applicant Membership
1. Diploma	Not mandatory. Membership of Student Chapter is desirable
2. UG (BE/B. Tech/AMIE/Equivalent)	Preferably 'Student Member' (SMIE)
3. PG (ME/M. Tech/Equivalent)	Should be 'Corporate Member'
4. Ph. D	Should be 'Corporate Member'

The soft copy of the duly filled-up applications (in editable format), as per the given proforma, should be sent through email to research@ieindia.org and one printed copy of the same, duly sealed and signed should reach the following address:

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

Applications received in format other than that available on our website will not be accepted. Application should be forwarded through the Guide, Head of the Department or Head of the Institution. Please note that preference will be given to project proposals received from Institutions who are members of The Institution of Engineers (India). Kindly go through the guidelines (visit link <https://www.ieindia.org/webui/IEI-Activities.aspx#RnD-Initiative>) carefully before filling up the application.

The grant is not intended for the faculty members who have access to other avenues of research funding. Proposals received will be scrutinized and the recipients of R&D Grant will be informed accordingly.

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

Ranchi, November 03-04, 2018

Theme

Challenges and Opportunities in Sustainable Development

Sub-themes:

Technical papers are invited on following sub-themes:

- Advanced Manufacturing Creation for Sustainability
- Sustainable Design and Innovation in Product Development
- Sustainable Transport Infrastructure
- Renewable Energy and its Impact on Environment

With this in focus, papers are invited from Technician/Senior Technician members, students of polytechnics and engineering colleges for presentation in the All India Technicians'/Students' Convention to be held on November 03, 2018 at Ranchi, Jharkhand. The papers shall be on innovative ideas, design, prototype and technology development, case studies, survey details augmenting innovations, etc. pertaining to the theme so as to reach at Jharkhand State Centre latest by September 25, 2018.

Organized by:

The Institution of Engineers (India)

Hosted by:

Jharkhand State Centre

For further information, please contact :

The Organising Secretary (Convocation 2018)
The Institution of Engineers (India)
Jharkhand State Centre
Engineer Bhawan, Nepal Kothi Campus
Doranda, Ranchi 834002, Jharkhand
Phone : 9431392111
E-mail: ieiconvocation2018@gmail.com

Superannuation from IEI



Mr Rampada Ghosh, an employee of the Institution HQ will be superannuated from the services of IEI on September 30, 2018. He joined the Institution on July 8, 1985 and rendered his services to the Institution for a period of over 33 years.

IEI wishes Mr Rampada Ghosh and his family a happy and healthy life in future.



33rd INDIAN ENGINEERING CONGRESS

Udaipur, December 21-23, 2018

Theme:

Integration of Technologies: Emerging Engineering Paradigm

Organized by:

The Institution of Engineers (India)

Hosted by: **Udaipur Local Centre**

Contact : Organising Secretary, 33rd Indian Engineering Congress, The Institution of Engineers (India), Udaipur Local Centre
128 Hiran Magri, Sector 11, Near Seva Charitable Hospital, Udaipur 313002
E-mail: udaipurlc@ieindia.org

Opening Ceremony of IEI Home at Madurai Local Centre



Mr Sisir Kumar Banerjee, President, IEI, opened IEI Home at Madurai Local Centre on August 29, 2018 in presence of Mr Navinchandra B Vasoya, Immediate Past President, IEI; Mr P Rajamani, Vice President, IEI; Mr T M Gunaraja, Council Member, IEI; Mr K Vijaya Kumar, Chairman and Mr J Samuel, Honorary Secretary, Madurai Local Centre of IEI along with other dignitaries.

I.E.I NEWS

ISSN 0971-3352

Owner : The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020
Printer : Maj Gen S Bhattacharya, VSM (Retd), Secretary & Director General
Publisher : Maj Gen S Bhattacharya, VSM (Retd), Secretary & Director General
Published from : 8 Gokhale Road, Kolkata 700 020
Printed from : M/s Florence Offset Process Pvt. Ltd.
6A S N Banerjee Road, Kolkata 700013
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

The Institution of Engineers (India) as a body accepts no responsibility for the statements made by individuals. Reprints of any portion of the publication may be made provided reference thereto is quoted.

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