



IEI NEWS



February 2020

Environmental Degradation:
Key Challenges to Sustainable
Development

03

New Generation Computing
Technologies (NGCT)

04

Digital Technologies in
Surveying & Mapping

06

One Day Seminars/Workshops
Conducted by Various Centres of IEI

08

IEI Diary

12

A CENTURY OF SERVICE TO THE NATION

Volume 26

Number 11

International Conference of Rural Development Forum, IEI

Achieving Water, Sanitation and Hygiene (WASH) Sustainability Goals for Developing Countries

The 13th Annual Global Water Alliance Conference on Achieving Water, Sanitation and Hygiene (WASH) Sustainability Goals for Developing Countries organised under the aegis of Rural Development Forum, IEI in Kolkata on 6-7 January 2020 jointly with Global Water Alliance, Philadelphia, USA in partnership with Indian Institute of Engineering Science and Technology, Shibpur and Water Management Forum, IEI. Major objective of the Conference was to identify the progress of developing countries regarding the implementation of social, economic and related policies and projects, in achieving the United Nations' Sustainable Development Goal 6 (SDG 6) for water, sanitation and hygiene for all. Further, site visit to WASH and Arsenic Projects in rural areas was a part of the Conference. Findings and recommendations were placed during the Conference.



In his welcoming remarks, Dr Christiaan Morssink, President, Global Water Alliance, Philadelphia, encouraged students, young people, especially school children for achieving the UN 2030 Agenda of Sustainable Development Goals. He also emphasized on greater involvement of student community with the envisions of universal, sustainable and equitable access to safe drinking water, sanitation and hygiene for all to face the challenges of the society. President, GWA stressed that the stakeholders should find out a collective action plan for sustainable solutions of rapidly changing urbanization, migration, and impacts of climate change, health, nutrition, education, poverty and economic growth.

Dr Arun Deb, GWA Board Member and Conference Chair, in his address, explained the objective of the GWA Conference and modalities of presentation of papers by experts as well as students from abroad.

Participants from India and abroad discussed on sustainability, innovations, test cases, water quality, wetlands preservation and related issues like technical, sociological, institutional, financial and local aspects with the aim of sharing insights on the progress of implementation of SDG 6 in their respective countries. There are participations from different foreign countries like USA, UK, Canada, Czech Republic, Germany, Sri Lanka, Bangladesh, Nepal, Burundi, Rwanda, Harare, Kenya, Democratic Republic of Congo and also from different States in India.

Contd. on page 2

From the President's Desk.....

It is a great honour and privilege for me to assume office of this esteemed Institution in the Centenary Year and I am looking forward to put in my best with dedication, commitment and conviction for betterment and prosperity of IEI.



As you are aware, The Institution of Engineers (India) has entered its Centenary Year, which is a significant milestone indeed. To usher in the next Century, the Inaugural Ceremonial Ceremony was held in Chennai on September, 2019 and the event was attended by a large galaxy of distinguished engineers and Past Presidents of the Institution. The closing ceremony of the Centenary Celebrations will be held in Kolkata in September 2020. In the Centenary year, a number of International Conferences are being organized by various State and Local Centres of the Institution. Recently, Uttarakhand State Centre organized International Conference on 'New Generation Computing Technologies' during 20-21 December, 2019, West Bengal State Centre organized International Conference on 'Innovative Approaches for the Development of Sustainable Textile Products and Processes' on 09-10 February 2020, which were very well attended. Also the 13th Annual Global Water Alliance Conference 2020 on Achieving Water, Sanitation and Hygiene (WASH) Sustainability Goals for Developing Countries was organized in Kolkata by the Rural Development Forum of the Institution.

UNESCO has proclaimed 4th March as World Engineering Day for Sustainable Development. IEI being a National Member of World Federation of Engineering Organizations (WFEO), I would like to request the engineering community to celebrate this day in a befitting manner and organise suitable events to mark the occasion.

During my recent visit to different State and Local Centres of the Institution, I am encouraged by plenty of enthusiasm in organizing different technical activities and observing

Contd. on page 3

Felicitation of President, IEI



West Bengal State Centre of the Institution felicitated Er Narendra Singh, President, IEI in a colourful function on January 15, 2020 in the august presence of Prof (Dr) Samiran Choudhuri and Mr Sisir Kumar Banerjee, Past Presidents, IEI, Mr S C Rudra and Mr Sandip Kumar Deb, Council Members, IEI, Prof (Dr) N R Bandyopadhyay, Member, Metallurgical and Materials Engineering Division Board, IEI and Mr Kalipada Das, Honorary Secretary, West Bengal State Centre.



Uttar Pradesh State Centre of the Institution felicitated Er Narendra Singh, President, IEI on 02 February, 2020, in the august presence of Dr Kumar Keshav, Managing Director, UP Metro Rail Corporation Ltd and Mr Masarrat Noor Khan, Former Managing Director, UP State Bridge Corporation Ltd. Mr V B Singh, Council Member & Chairman, Civil Engineering Division Board, IEI also addressed the gathering. Earlier, Mr R K Trivedi, Chairman UP State Centre and Council Member, IEI welcomed the audience.

Achieving Water, Sanitation and Hygiene (WASH) Sustainability Goals for Developing Countries

contd. from page 1

During the occasion, Ms Meena Narula, Country Director, Water For People India, presented the keynote address on the theme "Sustainable Water, Sanitation, and Hygiene for All: Achieving the Goal by 2030 & Roles of all Stakeholders". In her address, Ms Narula stressed on the need of water, sanitation and hygiene for survival and also mentioned about their importance



for health, nutrition, education for children, girls and women. The speaker opined further that the 2030 agenda not only includes the universal access to WASH at home, schools and rural areas, but also aims to reduce inequalities between and within countries. She made a forecast that proper preservation and usage of water will determine India's ability to achieve high economic growth, ensure environmental stability and improve quality of life for citizens.

She further mentioned that Jal Jeevan Mission got accelerated to achieve providing tap water to all households by 2024.

Mr Sisir Kumar Banerjee, Past President, IEI during his speech mentioned the initiatives by IEI on Swachh Bharat Mission programme of Government of India dedicated to Mahatma Gandhi on his 150th birth anniversary for drinking water and sanitation and stated that For a serve as a focal point for Institution's endeavours to promote further development of collaboration among industry, government and academia in the area of skill development.

Earlier, Mr Syama Prasad Datta, Chairman, BOG-RDF welcomed the gathering. Prof (Dr) Anirban Gupta, Director, Rural Development Forum proposed the vote of thanks.

Number of papers were presented during twelve technical sessions, with

the dedicated themes, that include, Achieving Universal Access to Safe and Affordable Drinking Water by 2030; Achieving Access to Adequate Sanitation and Hygiene for All; WASH in Urban Environment – Sponsored by United States Agency for International Development (USAID); Implementing Integrated Water Resource Management, Protection of Wetlands and Ecosystems; Achieving Substantial Increase of Water Conservation and Water Use Efficiency; Sustainability Assessment – University of Pennsylvania and Yale University Students Project Presentations; Improving Water Quality by Reducing Pollution, Increasing Use of Wetlands and Safe reuse; Improving Water Quality by Reducing Pollution, Increasing Use of Wetlands and Safe reuse; Participation of Local Communities in Improving Water and Sanitation Management; Innovations in Sustainable Implementation of WASH Programs; Impacts of Schools and Communities, WASH Projects and Technology Development for Safe Water. Sri Lanka and Bangladeshi representatives expressed their interest to function with Rural Development Forum, IEI in various rural development programmes.



Recommendations emanated from the two-day deliberations include;

Maintaining log book of performance on WASH programme; Empower more students in WASH programme; Sanitary products be available in all schools; Supply of safe drinking water to all be ensured; Water filters to be installed in every school to ensure safe sustainable hygiene; Identification and eradication of urban and rural arsenic problem; Health impacts of arsenic in water and distribution of information in connection with arsenic affected areas should be displayed in all units including residential and commercial; Local people should be discouraged from installing further deep tube wells in general and arsenic prone areas in particular.

Environmental Degradation: Key Challenges to Sustainable Development

In view of the Centenary Celebrations of IEI, the Telangana State Centre of The Institution of Engineers (India) organized the International Conference on the theme 'Environmental Degradation: Key Challenges to Sustainable Development' under the aegis of Environmental Engineering Division Board during 22-24 November 2019. Mr V Srinivas Goud, The Hon'ble Minister-in-Charge, Youth Services, Tourism & Culture and Archaeology, Government of

Honorary Secretary, Telangana State Centre proposed the vote of thanks.

Dr Palla Rajeswar Reddy, Member of Legislative Council, Government of Telangana was present during the Conference as Special Guest and addressed the gathering.

During technical sessions, number of papers were presented embracing different sub theme, which include, condition inspection of sewer pipe; rainwater harvesting; assessment of ground water depletion and conservation; air quality monitoring; solid waste management; rehabilitation technology to revive dysfunctional sewer network; waste water treatment and so on.

During Valedictory Function, Mr B Kalyan Chakravarthy, IAS, Director General, Environment Protection Training and Research Institute (EPTRI) graced the occasion as Chief Guest. In his address, Mr Chakravarthy stressed on preservation of forest and ecosystem. Dr M Velan, Chairman, ENDB, IEI was also present in the session and addressed the gathering. With the objective to prevent environmental degradation and ensure sustainable development.

Recommendations emanated from the Seminar are as follows.

Water reservoirs need to be restored and ground water level to be improved; More plantations should be initiated to improve the pattern of rainfall and air quality; Water audit is recommended through installation of smart meters and SCADA technology; Conservation of water, rain water harvesting and ground water recharge measures need to be improved; More R&D on vehicle exhaust coolers to reduce the urban heat; More R&D on cost effective applications of bio fuels to reduce vehicular carbon emissions; Bharath Stage IV emissions norms should be ensured by all means; Low cost season-based air quality monitoring instruments should be installed at all critically potential areas; Industries should move to achieve "Zero Waste and Zero Discharge of pollutants"; Carbon neutral operations need to be achieved through multiple measures like, increasing green cover, green buildings, energy conservation, green energy etc; Feasible anaerobic digestion of Municipal solid waste for production of bio gas should be encouraged; Recycling of plastic waste in construction industry should be encouraged; Unmanned vehicles for sewer condition assessment should be implemented; Application of updated software, ie, Storm CAD for



Telangana graced the function and inaugurated the International Conference as Chief Guest. During his address, the Hon'ble Minister stressed on the provision of safe drinking water to every household, restoration of water reservoirs to improve ground water level. Chief Guest further emphasized on more tree plantation to improve the air quality. Mr M Dana Kishore, IAS, Managing Director, Hyderabad Metropolitan Water Supply and Sewerage Board graced the occasion as Guest-of-Honour. In his address, Mr Kishore mentioned the significance of new integral policy for environment protection. Mr Takayuki Sawai, Water Works Strategy Division, NJS Co. Limited, Tokyo, Japan was present during the occasion and addressed the gathering.

Mr Sisir Kumar Banerjee, the then Immediate Past President, IEI was present in the Conference and addressed the gathering. Dr M Velan, Chairman, Environmental Engineering Division Board, IEI while presiding over the Inaugural session, emphasized on reduction of vehicle to control pollution. Dr D Hanumantha Chary, Co-Chairman, Technical Committee elaborated on the theme of the Conference. Earlier, Dr G Rameshwar Rao, Chairman, Telangana State Centre delivered the welcome address. Mr T Anjaiah,

From the President's Desk.....

Contd. from page 1

Statutory Days of the Institution. I look forward to the active involvement of the Centres of the Institution in enhancing Corporate Membership by carrying out special membership drive.

Further, IEI is focused on developing synergistic relationships with organizations with similar objectives through collaborative partnerships

which would enhance the efforts of IEI to formulate meaningful and effective programs for professional enrichment of our corporate members.

I would also like active participation by engineers and students on the forthcoming World Water Day on the theme 'Water and Climate Change' scheduled on March 22, 2020 at our State and Local Centres.

I would welcome suggestions from the engineering fraternity to further enhance the services provided by the Institution.

New Generation Computing Technologies (NGCT)

Uttarakhand State Centre of the Institution in association with University of Petroleum and Energy Studies (UPES), Dehradun organized Two-day International Conference during 20-21 December 2019 on the topic 'New Generation Computing Technologies (NGCT)' under the aegis of Computer Engineering Division Board (CPDB) of IEI at Dehradun. Prof Anil D Sahasrabudhe, Chairman, All India Council for Technical Education, New Delhi, graced the occasion as Chief Guest. Prof Sahasrabudhe, in his speech stressed on inclusion of latest subjects based on computing technologies in the curriculum in order to meet the industrial needs. He further focused on Hackathon internships for the engineering students as compulsory subjects in the curriculum. Chairman, AICTE further explained the wide application domain of Artificial Intelligence. Prof Narendra S Chaudhari, Hon'ble Vice Chancellor, Uttarakhand Technical University, Dehradun graced the function as the Guest-of-Honour and addressed the august gathering. Prof Amar Ramdane Cherif, Université de Versailles Saint-Quentin, Versailles, France graced the occasion as Special Guest and addressed the audience. Er Narendra Singh, the then President- Elect, IEI graced the function as Guest of Honour and addressed the audience.

Mr N P S Brar, Chairman, CPDB, IEI focused on application of Artificial Intelligence (AI) Computational Intelligence (CI), Artificial Neural Networks (ANN), Swarm Intelligence (SI), Fuzzy System (FS) in transport, health, aviation, medical, finance and so on. Dr Manolo Dulva Hina, Associate



Professor in Computer Science, ECE Paris, Dr Sudhan Majhi, Associate Professor, Department of Electrical Engineering, IIT Patna and Dr Sudeep Tanwar, Visiting Professor, Jan Wyzykowski University Polkowice, Poland presented Keynote addresses during the occasion. Dr S J Chopra, Chancellor, UPES, Dehradun was present during the occasion. Earlier, Mr Aditya Kumar Dinkar, Chairman, Uttarakhand State Centre and Council Member, IEI welcomed the guests and dignitaries. A souvenir with abstracts of all papers was released during the occasion. A large number of papers embracing the theme were presented and discussed during the technical sessions.

All India Seminar of Electrical Engineering Division

Industrial Development through Green Energy

Alwar Local Centre of the Institution, in collaboration with IET Group of Institutions, Alwar organized All India Seminar on Industrial Development through Green Energy under the aegis of Electrical Engineering Division Board of IEI during 12-13 October 2019 at Alwar. Mr S S Yadav, Chairman, Rajasthan State Centre and Council Member, IEI graced the occasion as Chief Guest and emphasized on the vital role of green energy in developing the industries and hazards free environment. Dr V K Agarwal, Chairperson, SunRise University & Chairman, IET Group of Institutions delivered a thought provoking speech on the topic of the day. The Guest-of-Honour, Mr Praveen Kumar Singh, Immediate Past Honorary Secretary, Delhi State Centre, IEI & Certified Energy Auditor (BEE) in his address mentioned that reductions in Green House Gases (GHGs) become the Global Agenda and the country has given its commitment to reduce GHGs level. Mr Singh further explained implementation of projects utilizing Green Energy and the benefit of stakeholders by reduction in energy cost. Mr Singh focused on low energy efficiency areas prevalent in industries and option of waste heat recovery for Industries to improve energy efficiency.

The Keynote Speaker in the occasion, Mr Prabhat Saraswat, Accredited Energy Auditor (Bureau of Energy Efficiency) and Sr Manager- Project Advisory, Energy & Carbon Services, Mott MacDonald Ltd sought attention of audience towards deteriorating global environmental conditions due to excess GHGs emissions. He further stressed on the need of taking immediate action to reduce GHGs emissions, to control continuous unpredictable change in environmental conditions. Expressing satisfaction over Renewable Energy usage trend in India, Mr Saraswat covered in detail various initiatives taken by Government of India in promoting Energy Efficiency and usage of Renewable Energy. 'Green Manufacturing' or sustainable industrial activity is now the need of the hour and no more an empty slogan', he added. He informed that green manufacturing involves transformation of industrial operations in three ways i.e. application of

green energy, developing and selling green products and employing green processes in business operations. Earlier, Mr Manohar Lal Yadav, Chairman, Alwar Local Centre, in his welcome speech underlined the importance of green energy and its need for the Industrial development and for the society at large. Mr Shiv Singh, Honorary Secretary, Alwar Local Centre proposed the vote of thanks. A Proceedings contains all the papers was released during the occasion.

Topics of the Papers presented during the technical sessions include; Charging station concept of electric vehicles; Design simulation and performance assessment of multilevel converter topologies for high power and battery storage applications; Green energy for industrial applications; Green industrial policy; Neodymium magnet free energy generator; Electrical safety in installation, commissioning, operations and maintenance of electrical equipment; Image enhancement and processing; Power quality enhancement in renewable energy based unified power quality conditioner and so on.



Mining – Present and Future – Investment, Issues and Challenges

Telangana State Centre of the Institution organised the International Conference on “Mining – Present and Future – Investment, Issues and Challenges” during 23-25 October 2019 at Hyderabad as a part of Centenary Celebration of IEI under the aegis of Mining Engineering Division



Board (MNDB). Mr Pocharam Srinivas Reddy, Hon'ble Speaker, Telangana Legislative Assembly graced the function and inaugurated the International Conference as Chief Guest. During his address, Hon'ble speaker focused on the importance of mining engineers in the country and further emphasized on the revenue generation strategies from mining activities by adopting scientific and technical approaches in mines. Hon'ble speaker further opined that the policy-makers, bureaucrats and engineers have to work in tandem to facilitate mining in the country by solving different clearance-related issues instantly.

On this auspicious occasion, Mr Mohammad Mohamood Ali, Hon'ble Minister for Home, Prisons and Fire Services, Government of Telangana graced the occasion as Special Guest. Mr Ali stressed on formulation of necessary policies to accelerate sustainable mining activities in the country. Mr B R V Susheel Kumar, Director of Mines and Geology, Government of Telangana and Chairman, Mining Engineers' Association of India, Hyderabad Chapter graced the occasion as Guest-of-Honour and detailed different policies of the government and environmental issues those are challenging issues to the mining operation and mine holders. Dr T M Gunaraja, the then President, IEI presided over the inaugural function. In his presidential speech, he congratulated Telangana State Centre for conducting the program in a befitting manner in collaboration with Government agencies for continuous professional development of engineers. Further, Dr Gunaraja highlighted that mining industry sector is facing lot of challenges due to digital transformation. He also informed about different initiatives taken by IEI during the centenary year to enhance the knowledge level of engineers in the country. Earlier, Dr G Rameshwar Rao, Chairman, Telangana State Centre welcomed all the dignitaries and participants. Mr B Ramesh Kumar,

Convener of the program elaborated on the theme of the Conference. Mr Chandra Mohan, Chairman, MNDB, IEI described different pros and cons of the new Mining Policy of the government. Mr T Anjaiah, Honorary Secretary of the Centre proposed the vote of thanks.

In the occasion, a Proceedings was released by the dignitaries present on the dais. During the Conference, Keynote Addresses were delivered by eminent speakers, that include; Mr P R Tripathi, former Chairman & Managing Director, National Mineral Development Corporation (NMDC); Dr Uday Kumar, Chair Professor & Head, Division of Operations, Maintenance and Acoustics, Lulea University of Technology, Sweden; Mr D N Prasad, Former Advisor to Coal, Ministry of Coal, Government of India, Mr B R V Susheel Kumar, Director of Mines and Geology, Government of Telangana and Chairman, Mining Engineers' Association of India, Hyderabad Chapter; Mr S Chandrasekhar, Director, Operations, FAC, PA&W, Singareni Collieries Company Limited; Mr Russel Frith, Mine Advice Pvt. Ltd, Brisbane, Australia; Mr P K Satpathy, Director(Production), NMDC Ltd, Dr H Sarvothaman, Former Deputy Director General, Geological Survey of India, Hyderabad on



emerging topics, that include; transformations in mining industry; coal mine geotechnical engineering; exploration of battery metals;etc.

In the Valedictory session, Mr Ajay Mishra, IAS, Special Chief Secretary, Department of Energy, Govt. of Telangana graced the function as Chief Guest. In his address, Mr Mishra stated that mining sector is playing an important role in the economic development of the nation. He also said that while utilizing the alternative measures of resources, it should be taken into consideration for protecting the environment. During the function, Mr M V Subba Rao, Chairman & Managing Director, Kudremukh Iron Ore Company Ltd., Bangalore and Mr B R V Susheel Kumar, Director of Mines and Geology, Government of Telangana and Chairman, Mining Engineers' Association of India, Hyderabad Chapter were present as Guests-of-Honour and addressed the gathering. Mr V S Rao, Chairman, Technical Committee presented the summary of the Conference and Mr B Ramesh Kumar, Convener of the Conference proposed the vote of thanks.

Special General Meeting and Extra-ordinary General Meeting of Corporate Members of The Institution of Engineers (India) held on 01 Dec 2019 at Salem

The Special General Meeting (SGM) and the Extra-ordinary General Meeting (EGM) of Corporate Members of The Institution of Engineers (India), under Bye-Law 32(b)(i) and 32(c)(i) respectively, were held on 01 Dec 2019 at Hotel Ashwa Park, Reddipatty Roundana, Steelplant Main Road, Salem – 636302. Details of the Bye-Laws and Regulations amended in the General Meetings are available at IEI website www.ieindia.org.

Digital Technologies in Surveying & Mapping

Telangana State Centre of the Institution as a part of Centenary Celebrations of IEI organized All India Seminar on the topic 'Digital Technologies in Surveying, Mapping & Applications' under the aegis of Civil Engineering Division Board of IEI during 15-16 October 2019 at Hyderabad. Mr Jayesh Ranjan, IAS, Principal Secretary to Government, Industries & Commerce, Information Technology, Electronics & Communication Department, Government of Telangana and Vice Chancellor In-charge, Jawaharlal



Nehru Technological University, Hyderabad graced the occasion as the Chief Guest. In his inaugural address, Mr Ranjan mentioned technological enhancement in Surveying and Mapping procedure. He further enumerated Project survey through digital technology and Geo Mapping and scope and opportunities for more employment through latest technologies.

Prof (Dr) N Kavita Daryani Rao, Professor & Vice Chancellor, Jawaharlal Nehru Architecture & Fine Arts University, Hyderabad graced the occasion as Guest-of-Honour. Prof Rao, in her address emphasized on application of modern technologies in construction of buildings. She mentioned that Digital Survey and Digital Mapping play key role in fine arts and architecture and recommended more research and development on digital technologies.

Earlier, Dr G Rameshwar Rao, Chairman, Telangana State Centre and Council Member, IEI, welcomed the august gathering. Mr G S Kumar, President, Geo Map Society, Hyderabad presented a brief account on the Seminar; Mr T Anjaiah, Honorary Secretary, Telangana State Centre proposed the vote of thanks. Large number of papers were presented and discussed during the technical sessions of the Seminar

Recommendations emerged from the Seminar are as follows.

There is a need to apply digital technologies in surveying and mapping on continuous basis; The proven methodologies, success stories and best practices have to be disseminated widely amongst departments engaged in land surveying, land records /property, revenue, mining, civil engineering & construction, environmental engineering, urban /rural land use surveys, public health, water, disasters etc; Capacity building, training, skill development in digital technologies have to be extended to the people working at different government departments, ministries and institutions; Students studying various courses of engineering at undergraduate & postgraduate level in colleges / universities have to be familiarized with digital technologies in Hands-on Lab tools / work, Satellite imagery, Drones, GPS/GIS, Terrestrial scanners, Spatial analytics, Web GeoPortals, GeoMapping, LiDAR, New technologies like AI, IOTs etc; Various 'Outreach Incubation Centers' available in Hyderabad eg. NRSC, T-Hub, besides other academic institutions like, JNTUH, JNAFAU, WAPCOS, SOI, INCOIS, IE, Geospatial-ICT companies have to be utilized for building knowledge, career opportunities & entrepreneurship thinking among students; Policy Efforts to liberalize availability of digital spatial maps & data, as sharable & accessible on a real time basis for academic & research purpose, project evaluation & monitoring should be brought by the government; Efforts to bring standard data / methodology guidelines, documents in print & e-version in vernacular languages have to be brought for larger outreach & digital awareness; Seminars, workshops, training for Trainees & TOTs (Training for Trainers) have to be conducted at regular intervals to keep abreast with new technologies & their applications.

Centenary Celebration Bokaro Steel City Local Centre

Bokaro Steel City Local Centre of the Institution observed Centenary Year Celebration of IEI on 24 January 2020 at Bokaro. Mr Ramesh Chandra Srivastava, Executive CEO, SAIL, Bokaro Steel Plant graced the function as the Chief Guest and inaugurated the function. Mr N P Srivastava, General Manager (Environment), SAIL, Bokaro Steel Plant delivered the Keynote Address on the theme 'An Overview of Steel Sector: Global and Indian Perspective'. Earlier, Mr Yogendra Nath Singh, Chairman, Bokaro Steel City Local Centre welcomed the dignitaries and guests. Mr M G Singh and Mr D P Sharma, Past Chairmen of the Centre and Mr Ramadhar Jha, Past Honorary Secretary of the Centre also graced the occasion and addressed the august gathering. Mr Deo Prasad Jha, Honorary Secretary, Bokaro Steel City Local Centre proposed the vote of thanks.



Golden Jubilee Celebration Indore Local Centre

Indore Local Centre of the Institution celebrated its Golden Jubilee on 17 January 2020 at Indore. Er Narendra Singh, President, IEI, graced the occasion as the Chief Guest. Er Singh, in his speech shared his words of wisdom which were appreciated by the dignitaries present on the occasion. Mr Rakesh Rathore, Council Member, IEI, was the Guest of Honour during the function. Mr Avinash Chandra, Honorary Secretary, MP State Centre, Bhopal also spoke on the occasion. Earlier, Prof (Dr) Ms Shilpa Tripathi, Chairman, Indore Local Centre welcomed all the dignitaries and distinguished guests. Mr Deepak S Shah, Honorary Secretary, Indore Local Centre proposed the vote of thanks.





The Institution of Engineers (India)

**Centenary Celebrations
1920-2020**



WFEO

Founder and National Member

World Federation of Engineering Organizations
(Fédération Mondiale des Organisations d'Ingénieurs)

celebrates



**WORLD
ENGINEERING
DAY** FOR SUSTAINABLE
DEVELOPMENT

**4 March
2020**

*as a pride for engineers
for continual advancement
of science, technology and engineering*

United Nations Educational Scientific and Cultural Organisation (UNESCO) has proclaimed 4th March as World Engineering Day for Sustainable Development. Engineering is essential for economic advancement and restoration of natural resources.

The World Engineering Day will provide an opportunity for dialogue between engineers, decision makers, industry leaders, scientists, NGOs and the public at large to address the World's most pressing issues. Therefore, this Day will open an avenue for presenting the recent achievements of engineers and how engineering and technology are central to modern life and sustainable development.

**Er Narendra Singh, FIE
President, IEI**

One Day Seminars/Workshops Conducted by Various Centres of IEI

STATE CENTRES

Madhya Pradesh

Madhya Pradesh State Centre of the Institution in association with Society for Failure Analysis (SFA), Hyderabad organized One Day Workshop on the topic 'Engineering Failure Analysis' under the aegis of Metallurgical & Materials Engineering Division Board of IEI on 1 December 2019 at Bhopal. The objective of the Seminar was to focus on bringing out the understanding behind the engineering failure which would help in designing systems successfully with expected sustainability in the structure. The Chief Guest of the function, Dr B P C Rao, Scientist, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam and President, SFA, Hyderabad lucidly explained different modes of failure and further emphasized on the importance of failure analysis in industries. Dr P Parameshwaran, Chief Scientist, IGCAR spoke on root causes of failures and methods used to identify them. He further mentioned fracture of engineering components, fatigue endurance of materials, failure in weldments etc. Earlier, Mr Neeraj Dave, the then Chairman, MP State Centre delivered the welcome address.



LOCAL CENTRES

Ahmednagar

Ahmednagar Local Centre of the Institution in association with Government Polytechnic, Ahmednagar, Maharashtra organized One Day Workshop on the topic 'NDT Applications in RCC Structures' under the aegis of Civil Engineering Division Board of IEI on 22 January 2020 at Ahmednagar.



Dr Prashant M Pawar, Professor, Shri Vithal Education & Research Institute's College of Engineering, Pandharpur graced the function as Chief Guest. Dr Pawar in his

lecture, explained different aspects of structural audit. During the Workshop, different aspects of Non destructive Testing (NDT) were explained. Other dignitaries attended the occasion included Prof M S Satarkar, Principal, Govt Polytechnic, Ahmednagar; Mr Avinash D Kulkarni, Immediate Past Chairman; Mr M M Anekar, Honorary Secretary; Mr Bharatbhushan Bhagwat and Mr Rajkumar Munot, Past Honorary Secretaries of the Centre.

Coimbatore

Coimbatore Local Centre of the Institution organized One Day Seminar on 'The Role of IoT Technology in Automation' under the aegis of Mechanical Engineering Division Board of IEI on October 16, 2019 at Coimbatore. Mr G Ramesh Kumar, Managing Director, Innovative Controls, Coimbatore graced the occasion as Chief Guest and addressed the august gathering regarding IoT and Solutions. Mr Arun Prakash N, FANUC India Private Limited explained IoT enabled manufacturing system with case studies. He further mentioned that collecting, analyzing and processing big data would generate new insights, support decision making



to sustain competitive advantage. Other dignitaries present in the function included Dr P Vivekanandan, HoD, Department of Mechatronics Engineering, SNS College of Technology, Coimbatore, Dr S Janaki, Associate Professor, Department of Mechatronics Engineering, SNS College of Technology, Coimbatore. Earlier, Mr P R Natarajan, Chairman, Coimbatore Local Centre and Council Member, IEI delivered the welcome address.

Coimbatore Local Centre of the Institution organized One Day Workshop on the topic Sensor Interface and Integration for R&D Work under the aegis of Interdisciplinary Coordination Committee of IEI on 24 January 2020 at Coimbatore. Resource persons in the Workshop, Dr S Udhayakumar, Department of Mechanical Engineering, PSG College of Technology, Coimbatore and Mr K Sadesh, Department of Mechanical Engineering, PSG College of Technology, Coimbatore delivered lecture on the topics 'Significance of Sensor Interface and Integration' and 'Introduction to Virtual Instrumentation Software' respectively. Mr A Mohan, Department of Mechanical Engineering, PSG College of Technology, Coimbatore delivered the lecture on 'IoT Concepts'. Earlier, Mr P R Natarajan, Chairman, Coimbatore Local Centre and Council Member, IEI welcomed the audience. Dr H Rammohan, Honorary Secretary, Coimbatore Local Centre proposed the vote of thanks.



Gwalior

Gwalior Local Centre of the Institution organized One Day Workshop on the topic 'Green Energy: Need of the Hour' under the aegis of Interdisciplinary Coordination Committee of IEI on 6 October 2019 at Gwalior. The Keynote Speaker on the occasion, Dr Rekha Gupta, Associate Professor, Department of Electronics Engineering, Madhav Institute of Technology & Science (MITS), Gwalior, briefed about Green Energy and its utilities. She further stated that there is far-reaching



impact of reduction in use of conventional energy sources. 'India is one of the countries with the largest production of energy from renewable sources', Prof Gupta added. Other eminent speakers spoke on the occasion included Prof P K Singhal, Department of Electronics Engineering, MITS, Gwalior; Mr Prabhat Bhargava, Visiting Professor, Green Buildings and Prof Vijay Gupta, Principal, Pravatibai Gokhale Vigyan Mahavidyalaya, Gwalior.

Kanchepuram

Kanchepuram Local Centre of the Institution in association with the Department of Electronics and Instrumentation Engineering (EIE), Jerusalem College of Engineering, Chennai organized One Day Seminar on Artificial Intelligence for Embedded Systems under the aegis of Electronics & Telecommunication Engineering Division of IEI on 9 January, 2020 at Chennai. The Chief Guest of the function, Mr Rupam Das, Deputy General Manager, EI RFID Solution Pvt Ltd, Chennai, in his address focused on basic components of embedded



Contd. on page 9

Inauguration of **New Guest House**, Nashik Local Centre and **Felicitation of President, IEI**



Er Narendra Singh, President, IEI inaugurated new Guest House of Nashik Local Centre on January 31, 2020 in the presence of Mr Sumit Kantilal Khinvasara, Chairman, Nashik Local Centre and Council Member, IEI, Mr Samir Dilip Kothari, Honorary Secretary, Nashik Local Centre, Mr Mahendra Ratanlal Kothari, Council Member, IEI, Mr Narendra Karbhari Birar, Honorary Secretary, Maharashtra State Centre, IEI, Mr Manish Mahendra Kothari, Member, ASDB and Committee Members of Nashik Local Centre. On this occasion, the Local Centre felicitated Er Narendra Singh, President, IEI in a colourful programme.

One Day Seminars/Workshops Conducted by Various Centres of IEI

Contd. from page 8

systems and the real time applications of embedded systems in the day to day applications. Mr R V Prakash, Simple Labs Private Limited, Chennai in his address provided a different perspective about data management with artificial intelligence. Other dignitaries graced the occasion included Dr V Jamuna, Professor and Head, EIE Department; Ms K Hemalatha, Assistant Professor, EIE Department, Jerusalem College of Engineering. Prof (Dr) D Elango, Honorary Secretary, Kanchepuram Local Centre proposed the vote of thanks.

South Gujarat

South Gujarat Local Centre of the Institution in association with Mechanical/Automobile Engineering Department at Chhotubhai Gopalbhai Patel Institute of Technology (CGPIT), UTU, Bardoli as a part of IEI Centenary Celebrations organized National Symposium on the topic 'Cleaner Production and Green Technology' under the aegis of Production Engineering Division Board of IEI on December 13, 2019 at Surat. The Symposium is intended to address new trends and challenges in cleaner production and green technology for sustainability. A number of Keynote Lectures delivered by resource persons i.e. Dr S A Channiwal, Retired Professor, SVNIT, Surat on 'Eco-friendly Gasification Technologies: An Upcoming Era'; Mr Deepak Gadhiya, Chairman, Sunrise CSP India Pvt Ltd, Vadodara on 'Journey of Solar & Social Entrepreneur Evolution of Solar Concentrators' and Dr C M Choudhari, Professor and Head, Mechanical Engineering Department, Terna Engineering College, Mumbai on 'Numerical Simulation of Solidification in Metal Casting for Defects Minimization with Experimental Validation'. Earlier, Mr Kirti Hiralal Shethna, Chairman, South Gujarat Local Centre and Council Member, IEI welcomed the audience. Mr Dipak Gomanbhai patel, Honorary Secretary, South Gujarat Local Centre proposed the vote of thanks.



Salem

Salem Local Centre of the Institution in association with Department of Mechanical Engineering, Thiagarajar Polytechnic College, Salem organized One Day Workshop on the topic Newer Trends in Industrial Automation under the aegis of Mechanical Engineering Division Board of IEI on December 20, 2019 at Salem. Eminent resource persons delivered lectures and shared their expertise during the two-day event.

Dr V Karthikeyan, Principal, Thiagarajar Polytechnic College, during his address explained the significance and benefits of automation in manufacturing industries and different aspects to be considered for implementation of Robotics in industry. He further stressed on proper training and development for enhancement of skills in automation, safety measures in automation, management of product workflow and so on.

Other speakers during the occasion include; Mr A Kanakaraj, Department of Mechanical Engineering, Thiagarajar Polytechnic College, Salem; Dr R Vivekanandhan, Assistant Professor, Department of Mechanical Engineering, Government College of Engineering, Salem delivered his lecture on 'PLC with Hydraulic and Pneumatic Applications'; Dr P Suresh, Head of the Department, Department of Mechatronics, Sona College of Technology, Salem on 'Future Trends in Robotic Automation'; Dr C B Venkataramanan, Associate Professor, Department of Electrical and Electronics Engineering, Sona College of Technology, Salem; Dr K Venkatesh Raju, Associate Professor, Department of Mechanical Engineering, Sona College of Technology, Salem on 'Machine Learning' and Mr B Selvakumar, Department of Mechanical Engineering, Thiagarajar Polytechnic College, Salem on 'Automation of Food Industry'.



Earlier, Mr D Arul Selvan, Chairman, Salem Local Centre welcomed the august gathering. Mr S Loganathan, Honorary Secretary, Salem Local Centre proposed the vote of thanks.

News-in-Brief

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

STATE CENTRES

Gujarat

Lecture on 'Water Resources Management in Gujarat' delivered by Mr H U Kalyani, Chief Engineer (North Gujarat) & Additional Secretary, Water Resources Department, Government of Gujarat & Chairman, Gujarat State Centre on January 25, 2020.

Karnataka

Lecture on 'Kempe Gowda, Founder of Bengaluru' delivered by Dr V B Aarathi, Founder, Vibhu Academy, Bengaluru on January 22, 2020.

Lecture on 'Bus Commuters Problems in Bengaluru' delivered by Ms Shaheen Shasha, Member, Bengaluru Bus PrayanikaraVedike (BBPV) on January 29, 2020.

Kerala

Lecture on 'Waste Management' delivered by Mr P Ajayakumar, Technical Officer, Waste Management, Haritha Kerala Mission on January 1, 2020.

Lecture on 'Steve Jobs - An Inspiring Leader and Innovator' delivered by Mr Rajit Nair, Management Consultant on January 15, 2020.

Lecture on 'Lean Six Sigma' delivered by Mr E J Francis, Group Director (Retd), Vikram Sraha Space Centre, Thiruvananthapuram on January 22, 2020.

Lecture on 'Evolution of the Internet' delivered by Dr K C Raveendranath, former Principal, College of Engineering, Trivandrum on January 29, 2020.

Maharashtra

Lecture on 'Evidence Based Management / Practice' delivered by Dr Prabir Kumar Bandyopadhyay, Professor, Symbiosis Institute of Business Management, Pune on January 11, 2020.

Tamilnadu

Lecture on 'The Future Concrete' delivered by Dr R V Ramani on January 29, 2020.

LOCAL CENTRES

Ahmednagar

Lecture on 'Anti-vibration Technology and Mounts for Machine Tools' delivered by Mr Bharatbhushan Bhagwat, Director, Atul Enterprises and Past Honorary Secretary of the Centre on January 17, 2020.

Ananthapuram

Lecture on 'Application of Mechanical Engineering in Space Technology' delivered by Dr T Srinivasa Reddy, Scientist, Satish Dhawan Space Centre, Indian Space Research Organisation (ISRO), Sriharikota on November 18, 2019.

Seminar on 'Geographic Information System (GIS)' on November 20, 2019.

Workshop on 'Materials for Energy Conversion and Storage Devices' on December 28, 2019.

Bhimavaram

Lecture on 'Efficient Energy Management' delivered by Mr M Rajagopal Choudhary, DEE, APEPDCL on the eve of observation of Energy Conservation Day on December 14, 2019.

Bokaro Steel City

Lecture on 'A Case Study of Various Straws and its Influence on Evoked Emotions' delivered by Ms Asmita Singh on January 5, 2020.

Coimbatore

Lecture on 'Innovations in Nanotechnology: Breakthrough Technology and Emerging Markets' delivered by Dr Pradeep Haldar, Principal and President at Halovation, Florida, USA on December 23, 2019.

Lecture on 'Connected Machines' delivered by Mr Muthu Vangaliappan, Chief Executive Officer, Katamaran Technology and Business Solutions, Coimbatore on January 29, 2020.

Dhanbad

Lecture on 'Ex Equipment for Hazardous Area' delivered by Dr B Ahirwal, Scientist, CSIR-CIMFR, Dhanbad on January 17, 2020.

Durgapur

Lecture on 'Financial Aspects for Technical Professionals & Scope for Professionals in Skill India' delivered by Mr Brijesh Kumar Pathak, Divisional Manager, Canara Bank, Durgapur on January 26, 2020.

Gorakhpur

Lecture Meeting on 'Waste Disposal Problems & Remedies' on January 16, 2020.

Gwalior

Workshop on 'Cyber Security and Cyber Crime' on December 26, 2019.

Jodhpur

Lecture Meeting on 'Bearing Capacity of Soil' on January 21, 2020.

Kalaburagi

Lecture on 'Composite Materials' delivered by Dr Kunal Basu, Former Director, Grade Scientist, Regional Research Laboratory, Bhopal on January 10, 2020.

Lecture on 'Non-oxide Ceramic Materials' delivered by Dr L Rangraj, Principal Scientific officer, National Aeronautical Laboratory (NAL), Bengaluru on January 17, 2020.

Lecture on 'Smart Materials' delivered by Dr T N Raju, Associate Professor, Dr Ambedkar Institute of Technology, Bengaluru on January 21, 2020.

Kanpur

Lecture on 'Rapid Manufacturing' delivered by Mr Siddhant Shrivastava, IIT Kanpur on January 17, 2020.

Kollam

Organized Short Term Training Programme on 'MEP SERVICES' delivered by Mr Nidhin Sulaiman, Chief Trainer, Capitol Professional Academy during October 10-13, 2019 and October 17-20, 2019.

Seminar on 'Energy Conservation: Today's Challenges' on January 18, 2020.

Kota

Symposium on 'Social Perspective of Environment and its Technological Solutions' on January 6, 2020.

Nashik

Seminar on 'Art and Architecture' on December 30, 2019.

Organized 'Annual Award Ceremony-2020' on January 22, 2020.

Palghat

Lecture Session on 'Professional Ethics' on January 22, 2020.

Silchar

Lecture Meeting on 'Role of IT in Supply Chain Management' on January 23, 2020.

Tiruchirappalli

Organized Industrial Visits to 'Sirpasalai (Handicrafts and Wood Carvings Industry) Arumbavur and M/s Mid Vally Diary and Agro Pvt. Ltd Arumbavur' on November 2, 2019.

Lecture on 'Manufacturing Process of Cement Types and Properties of Cement' delivered by Mr P Sudharsan, Technical Engineer, Tamil Nadu Cemech Cement Corporation, Chennai on December 3, 2019.

Lecture on 'Block Chain Technology' delivered by Dr R Sumathi, Professor and Head, Information Technology, Saranathan College of Engineering, Tiruchirappalli on December 10, 2019.

Celebrated 'Energy Conservation Day - 2019' on December 17, 2019.

Lecture on 'Introduction about Textile Testing' delivered by Mr S Ganesan, Senior Lecturer, Textile Technology, P A C Ramasamy Raja Polytechnic College, Rajapalayam on December 24, 2019.

Lecture on 'Foam Separation and Biosorptive Foam Separation Techniques for Industrial Effluent Treatment' delivered by Dr M Arulmozhi, Professor and Head,

Department of Petrochemical Technology, Univercity College of Engineering (BIT campus), Anna University, Trichy on December 31, 2019.

Lecture on 'Landscape Architecture Now and Then' delivered by Ms K Edhaya, Assistant Professor, Architecture Department, Periyar Maniammai Institute of Technology, Vallam, Thanjavur on January 7, 2020.

Organized Industrial Visit to Siemens Centre of Excellence (CoE) in Manufacturing located at National Institute of Technology Tiruchirappalli which included twelve specialised Laboratories i.e. Product Design and Validation Lab; Advanced Manufacturing Lab; Test and Optimization Lab; Automation Lab; Electrical and Energy Savings Lab; Process Instrumentation Lab; Mechatronics Lab; CNC Machines Lab; CNC Controller Lab; Robotics Lab; Rapid Prototyping Lab and Internet of Things Lab on January 13, 2020.

Lecture on 'Big Data Analytics – What you need to know' delivered by Ms M J Divya, Deputy Manager, ITSS, (FB), Bharat Heavy Electricals Ltd., Tiruchirappalli on January 14, 2020.

Lecture on 'GMAW Process Advancements "SpinArc" Technology' delivered by Mr S V Prasad, Welding Consultant, Managing Partner, M/s Swastik Industrial Products & Services, Trichy on January 21, 2020.

Organized 'Continuing Education – Industrial Visit to IOCL Bottling Plant at Inamkulathur, Tiruchirappalli' on January 24, 2020.

Lecture on 'Energy Conservation and Demand Side Management' delivered by Dr B Muruganandham, Dean IQAC, MAM College of Engineering and Technology, Siruganur, Trichy on January 28, 2020.

Technical Lecture Meeting on 'Earthquake Resistant Design and Construction' on January 30, 2020.

Tiruvallur

Celebrated 'Energy Conservation Day 2019' on December 24, 2019.

Udaipur

Lecture on 'Udaipur Vision 2030' delivered by Prof Ashok Singh, Retired Professor, Mohan Lal Sukhadia University, (Tourism and Hotel Management), Udaipur on January 6, 2020.

Lecture Meeting on 'Structural Audit – A Necessity' and 'Energy Conservation' on January 27, 2020.

Varanasi

Celebrated 150th Birth Anniversary of Mahatma Gandhi with the theme 'Relevance of Mahatma Gandhi in 21st Century' on October 2, 2019.

Celebrated Birth Anniversary of Dr A P J Abdul Kalam as Students' Day on October 16, 2019.

Visakhapatnam

Organized one training program on 'Operation & Maintenance of Substation Equipment in an Integrated Steel Plant' during January 27-31, 2020.

IEI Celebrates Energy Conservation Day

The Institution of Engineers (India) celebrated Energy Conservation Day all over the country on December 14, 2019. Brief account of the celebration as received from various Centres are reported hereunder.

State Centre

Telangana

The State Centre organized 'Energy Conservation Week' on the occasion of Energy Conservation Day Celebration during December 14-20, 2019. During this period, a number of programmes namely 'Energy Conservation Awareness Walk from Necklace Road to IEI, Khairatabad', Lectures, Quiz, Elocution, Painting and Essay Writing Competitions were also organized. On the Inauguration Day, Mr Navin Mittal, IAS, Commissioner of Collegiate Education, Government of Telangana, Hyderabad, graced the occasion as the Chief Guest and addressed the gathering. Mr N Janaiah, VC & Managing Director, Telangana State Renewable Energy Development Corporation Limited and Mr T Sriranga Rao, Chairman, Telangana State Electricity Regulatory Commission were also present as Guest-of-Honour and the Special Guest respectively. Earlier, Dr G Rameshwar Rao, Chairman, Telangana State Centre and Council Member, IEI welcomed the audience. Mr T Anjaiah, Honorary Secretary, Telangana State Centre spoke about the various steps initiated towards this Energy Conservation Mission.



Local Centre

Gorakhpur

Mr S S Rawat, Principal, N E Railway Boys Inter College, Gorakhpur graced the occasion as Chief Guest. Mr Rawat, in his speech urged the students and other participants to take oath for conservation of energy in their daily life. The Keynote Speaker on the occasion, Mr Mirza Wasim Beg, Past Chairman, Gorakhpur Local Centre spoke on the use of chemical energy. He further stressed upon the efficient use of LPG in houses and hotels. Earlier, Mr Dharendra Chaturvedi, Chairman, Gorakhpur Local Centre, in his welcome address discussed about the ways for conserving energy. Mr Ved Prakash Gupta, Honorary Secretary, Gorakhpur Local Centre proposed the vote of thanks.

Kanpur

Mr Rajendra Prasad, Additional General Manager, BHEL and Mr Vivek Gupta, Superintending Engineer, Panki Thermal Power Station, Kanpur graced the occasion

as the Chief Guest and Guest-of-Honour respectively and addressed the august gathering. The Speaker of the function, Mr Vivek Asthana, Superintending Engineer, Uttar Pradesh Power Corporation Ltd. narrated that the Life has evolved at our planet "The Earth" about 3.5 billion years back, only due to the availability of Life supporting Environment and Eco System on the Earth. 'Since then, moving through various Civilizations, Agricultural and Industrial Revolutions, we have reached in today's highly developed world', he added. Mr Asthana opined that invaluable human life, full of comforts and luxuries in today's world is the gift of our environment only. Another Speaker of the day, Mr M M Chaturvedi, Executive Engineer, Boiler Maintenance, Panki TPS, Kanpur explained that electricity plays an important role in development of Nation and societies. He further enumerated that coal power plants contribute for 50% of electricity generation globally and these power plants produce air, water and sound pollutions and if not controlled, then pollute the environment. 'Environmental Norms are getting stringent day by day for coal power plants', he added. Earlier, Dr Rajat Kumar Khare, Honorary Secretary, Kanpur Local Centre welcomed the guests and dignitaries and proposed the vote of thanks at the end of the programme.



Varanasi

Speaker on the occasion, Prof (Dr) O N Srivastava, Faculty of Science, Department of Physics, Banaras Hindu University, Varanasi, delivered lecture on the topic 'New Clean Energy Vectors for Replacing Fossil Fuels'. Prof Srivastava explained the availability and applicability of energy as a fundamental aspect of life. Prof Srivastava further clarified the effect of fossil fuel consumption including climate change, air pollution, CO₂ emission etc and stressed on more application of renewable energy. Speaking on the occasion, Dr Jitendra Saxena, Director (EEA), IEI deliberated the significance of energy conservation and stated that the energy conservation is the key factor to avoid the misuse of energy since the requirement of energy is the basic need for the development. Earlier, Prof (Dr) Siddh Nath Upadhyay, Chairman, Varanasi Local Centre welcomed the august gathering. Mr Santosh Kumar, Honorary Secretary, Varanasi Local Centre proposed the vote of thanks.

IEI DIARY



Aerospace Engineering Division

One Day Seminar on "Micro and Nano Air vehicles and their sensors"

Gwalior, April 05, 2020

The Honorary Secretary, IEI, Gwalior Local Centre, Green Park, Engineers Road, Near New Collectorate, City Centre, Gwalior 474011; e-mail: gwaliorlc@ieiindia.org]

Thirty-fourth National Convention of Aerospace Engineers on "Advances in Aerospace Engineering"

Kanpur, November 09-10, 2020

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTI East Campus, Nawabganj, Kanpur 208002 [Telefax: (0512) 2560034; e-mail: kanpurlc@ieiindia.org]

Agricultural Engineering Division

Thirty-fourth National Convention of Agricultural Engineers on "Prospects and Challenges for Agricultural Engineering to Ensure Sustainable Agricultural Production and Doubling Farmers Income"

Goa, June 26-27, 2020

The Honorary Secretary, IEI, Goa State Centre, D Type Quarters, D-8-1 Government Polytechnic Campus, Altinho, Panaji, Goa 403001 [☎: (0832) 2434686; e-mail: ieigoasc@ieiindia.org]

International Conference on "Prospects and Challenges of Mechanization towards Economy and Sustenance of Global Sugarcane and Sugar Production"

Bangalore, July 03 - 04, 2020

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

Architectural Engineering Division

All India Seminar on "Heritage Architecture"

Jodhpur, February 29-March 01, 2020

The Honorary Secretary, IEI, Jodhpur Local Centre, Residency Road, Jodhpur 342011 [☎: (0291)2432708; e-mail: jodphurlc@ieiindia.org]

One Day Seminar on "Sustainable Architectural Development"

Raipur, April 10, 2020

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

International Conference on "Architectural Innovations: Engineering, Technology and Materials"

Jaipur, May 08-10, 2020

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

Thirty-sixth National Convention of Architectural Engineers on "Comfort and Energy Efficiency in Built Environment"

Tiruchirappalli, October 09-10, 2020

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirappalli 620014 [☎: (0431) 2554285/2574022; e-mail: tiruchirappalllc@ieiindia.org]

Chemical Engineering Division

One Day Seminar on "Technological Advancement in Plastic Waste Utilisation and Process"

Thiruvananthapuram, March 12, 2020

The Honorary Secretary, IEI, Thiruvananthapuram, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram, Kerala 605033 [☎: (0471) 2322991 / 2982102; Telefax: (0471) 232992; e-mail: keralasc@ieiindia.org; website: www.ietvm.org]

International Conference on "Technology for Green Fireworks: Holistic Approach towards Environmental Challenges"

Madurai, July 03-04, 2020

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

Thirty-sixth National Convention of Chemical Engineers on "Frontier Technologies for 21st Centuries Process Industries"

Durgapur, September 11-12, 2020

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

Civil Engineering Division

All India Seminar on "Novel Technologies On Artificial Ground Water Recharge Methods And Applications"

Salem, March 05-06, 2020

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salemic@ieiindia.org]

One Day Workshop on "QGIS for Hydrological Applications"

Surat, March 06, 2020

The Honorary Secretary, IEI, South Gujarat Local Centre, Mahida Bhavan, Ichchhanath, Surat 395007 [☎: (0261) 222 7340; e-mail: sgcl@ieiindia.org]

International Conference on "Disaster Mitigation and Management in Global Context"

Bhubaneswar, March 7-8, 2020

The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit-IV, Bhubaneswar 751001 [☎: (0674) 2390291, Telefax: (0674) 2390630; e-mail: odishasc@ieiindia.org]

One day Seminar on "Recent Experiences in Civil Engineering Constructions of Godavari Valley Coal Field"

Ramagundam, March 12, 2020

The Honorary Secretary, IEI, Ramagundam Local Centre, Room No. 5, OCP-2, Project Office Building, Near Pannur Cross Road, PO. Centenary Colony, Mandal Kamanpur, Dist Karimnagar, Telangana 505212 [e-mail: ramagundamlc@ieiindia.org]

One-day Workshop on "Enterprise Resource Planning for Construction Projects"

Solapur, 16 March 2020

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: solapurlc@ieiindia.org]

One Day Seminar on "Advanced Techniques for Green Building Practices for Smart City"

Coimbatore, March 18 2020

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

International Conference of Civil Engineers on "Smart and Sustainable Infrastructure"

Nagpur, March 20-21, 2020

The Honorary Secretary, IEI, Nagpur Local Centre, North Ambazari Road, Nagpur 440010 [☎: (0712) 2556231/2525617/2554387; e-mail: nagpurlc@ieiindia.org; website: www.ieingp.org]

One Day Seminar on "Rainwater Harvesting Technologies in Hilly Region"

Itanagar, March 21, 2020

The Honorary Secretary, IEI, Arunachal Pradesh State Centre, NERIST, NH-15A Nirjuli, Dist Papum Para Itanagar, Arunachal Pradesh 791109 [e-mail: arsc@ieiindia.org]

One Day Workshop on "Water Management and Water Harvesting in Urban Areas"

Asansol, March 21, 2020

The Honorary Secretary, IEI, Asansol Local Centre, L W Office Campus, IISCO Limited Barnpur Road, Barnpur 713325 [☎: 0341-2230809; Fax : 0341-224 0704; e-mail: asansollc@ieiindia.org]

One Day Seminar on "Glass as Smart Material in Green Buildings"

Vijayawada, 21 March 2020

The Honorary Secretary, IEI, Andhra Pradesh State Centre, D No. 29-33-14, Dr K L Rao Bhavan, Gopala Reddy Road, Governorpet, Vijayawada 520002 [☎: (0866) 2576822; e-mail: apsc@ieiindia.org; Website: www.ieiapsc.org.in]

One Day Workshop on "Sustainable Construction Materials and Ground Improvement Techniques"

Kattankulathur, April 04 2020

The Honorary IEI, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [☎: 044-2745 2270; kattankulathuric@ieiindia.org]

Workshop on "Fire and Flood Induced Disaster Mitigation"

Lucknow, April 19, 2020

The Honorary Secretary, IEI, Uttar Pradesh State



Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [☎: (0522) 2625322; e-mail: upsc@ieindia.org; website : www.ieiup.org]

All India Seminar on "Alternate Building Materials and Methods in Civil Engineering"

Bangalore, 24-25 April 2020

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

International Conference on "Building the Disaster Resilient Society in BIMSTEC Countries"

Agartala, July 10-12, 2020

The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, PO: KUNjaban, PB No. 139, West Tripura, Agartala 799006 [☎: (0381) 2304700; email: tripurasc@ieindia.org; web: www.ieitripura.org]

Thirty-sixth National Convention of Civil Engineers on "Innovation, Mechanisation and Modern Techniques in Civil Engineering"

Ranchi, September 08-09, 2020

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

Computer Engineering Division

One Day Workshop on "Cyber Disease, Ethical Hacking and Cyber Forensics"

Kanchipuram, March 03, 2020

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

One Day Seminar on "Deep Learning Techniques In Healthcare Applications"

Kanchipuram, March 16, 2020

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

One Day Seminar on "Artificial Intelligence in Governance"

Raipur, March 28, 2020

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

One Day Seminar on "Machine Learning and Data Science"

Kanpur, March 29, 2020

The Honorary Secretary, IEI, Kanpur Local Centre, Engineers Bhawan, HBTI East Campus, Nawabganj, Kanpur 208002 [Telefax: (0512) 2560034; e-mail: kanpurlc@ieindia.org]

One Day Workshop on "Robotics using Embedded Systems"

Bareilly, April 09, 2020

The Honorary Secretary, IEI, Bareilly Local Centre, House No. 270, Camphor Estate, Rampur Road, Post-Clutterbuck Ganj (C.B. Ganj), Bareilly 243502 [email: bareillylc@ieindia.org]

All India Seminar on "Explainable Artificial Intelligence SMART Wearables"

Bareilly, April 23-24, 2020

The Honorary Secretary, IEI, Bareilly Local Centre, House No. 270, Camphor Estate, Rampur Road, Post-Clutterbuck Ganj (C.B. Ganj), Bareilly 243502 [email: bareillylc@ieindia.org]

All India Seminar on "Security in Cyber-Physical Systems and AI : Cloud Based Digital Disruption"

Kolkata, April 24-25, 2020

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

Electrical Engineering Division

One Day Seminar on "BIG Data Analytics for Smart Grids Challenges Opportunities"

Hyderabad, March 12, 2020

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

All India Seminar on "Load Management in Electrical Power Systems in India"

Hyderabad, March 18-19, 2020

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

One Day Seminar on "Applications of MATLAB in Electrical Electronic System Analysis"

Jalpaiguri, March 19, 2020

The Honorary Secretary, IEI, North Bengal Local, Engineers' House, Jalpaiguri Government Engineering College Campus, PO, Jalpaiguri, Government Engineering College; Dist. Jalpaiguri 735102 [☎: (03561) 255468; e-mail: nbbs@ieindia.org; website: www.ienblc.org]

All India Seminar on "Smart Grids in Integration with Distributed Generation Challenges and Solutions",

Salem, March 20-21, 2020

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salemc@ieindia.org]

One Day Seminar on "Recent Advancement in the Technology of Electrical Power System"

Agra, March 24, 2020

The Honorary Secretary, IEI, Agra Local Centre, Raja Balwant Singh Engineering Technical Campus, City Office: Khandari Farm Campus, Bhagarathi Devi Marg, Agra 282002 [Mobile 8126892221; e-mail: agralc@ieindia.org]

One Day Workshop on "Disaster Management in Power Generation Plants"

Gwalior, March 29, 2020

The Honorary Secretary, IEI, Gwalior Local Centre, Green Park, Engineers Road, Near New Collectorate, City Centre, Gwalior 474011; e-mail: gwaliorlc@ieindia.org]

All India Seminar on "Smart Grids in Integration with Distributed Generation Challenges and Solutions"

Salem, March 27-28, 2020

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salemc@ieindia.org]

National Seminar on "Role of Renewable Energy for reducing Greenhouse Gas Emissions and Conservation of Energy"

Faridabad, April 10-11, 2020

The Honorary Secretary, IEI, Faridabad Local Centre, Qtr No. 45 YMCA University of Science & Technology, 1st Floor, Sector 6, Faridabad 121006 [☎: (0129) 4100798; e-mail: faridabadlc@ieindia.org; web: www.ieifbdlc.in]

All India Workshop on "Smart Grid Technologies-Operation, Control and Recent Deployments"

Tiruchirappalli, June 12-13, 2020

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirappalli 620014 [☎: (0431) 2554285 / 2574022; e-mail: tiruchirappallilc@ieindia.org]

Thirty-sixth National Convention of Electrical Engineers on "Future Electricity Systems: Challenges and Current Trends"

Jodhpur, November 28-29, 2020

The Honorary Secretary, IEI, Jodhpur Local Centre, Residency Road, Jodhpur 342011 [☎: (0291) 2432708; e-mail: jodhpurc@ieindia.org]

Electronics and Telecom. Engineering Division

One Day Seminar on "Technology Management Plasma Stencil Treatments SMT Process"

Salem, March 2, 2020

The Honorary Secretary, IEI, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salemc@ieindia.org]

All India Workshop on "Nanosensors for Medical Applications"

Tiruchirappalli, March 04-05, 2020

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirappalli 620014 [☎: (0431) 2554285/2574022; e-mail: tiruchirappallilc@ieindia.org]

All India Seminar on "Advances in Mobile Communication and Challenges in Mobile Computing"

Durgapur, March 4-5, 2020

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205 [Telefax: (0343) 2564770; e-mail: durgapurc@gmail.com; website : ieidurgapurc.org]

One Day Seminar on "Employment of Circuit Simulation Tools in Engineering Applications"

Jalpaiguri, March 14, 2020

The Honorary Secretary, IEI, North Bengal Local, Engineers' House, Jalpaiguri Government Engineering College Campus, PO, Jalpaiguri, Government Engineering College; Dist. Jalpaiguri 735102 [☎: (03561) 255468; e-mail: nbbs@ieindia.org; website: www.ienblc.org]



One Day Workshop on "Emerging Machine Learning Techniques in Biosignal Processing"

Kattankulathur, March 18, 2020

The Honorary IEL, Kattankulathur Local Centre, SRM Institute of Science and Technology, Mahatma Gandhi Road, Potheri, SRM Nagar, Dist Chengalpattu, Kattankulathur, Tamilnadu 603203 [☎: 044-2745 2270; kattankulathur@ieindia.org]

All India Workshop on "Advanced Microprocessor Arduino In Biomedical Applications"

Salem, March 18-19, 2020

The Honorary Secretary, IEL, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salem@ieindia.org]

One Day Workshop on "Recent Trends in Robotics and Development of DTMF Based Robot"

Indore, March 27, 2020

The Honorary Secretary, IEL, Indore Local Centre, SGSITS Campus, 23 Visvesvaraya Marg (Park Road), Indore 452003 [☎: (0731) 2434057; e-mail: indore@ieindia.org; www.ieindore.org]

All India Seminar on "Video Processing and Analytics"

Bangalore, April 10-11, 2020

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

Environmental Engineering Division

All India Seminar on "Monitoring And Control of Air Pollution in Manufacturing Industries"

Salem, June 19-20, 2020

The Honorary Secretary, IEL, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salem@ieindia.org]

Thirty-sixth National Convention of Environmental Engineers on "Waste Recycling and Reuse"

Kochi, August 07-08, 2020

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

Marine Engineering Division

Thirty-fourth National Convention of Marine Engineers on "Contemporary Developments in Maritime Technologies"

Visakhapatnam, August 28-29, 2020

The Honorary Secretary, IEL, Visakhapatnam Local Centre, 9-12-31/1, Beside A U Engineering College Girls Hostel, Visakhapatnam 530003 [☎: (0891) 2747460; e-mail: visakhapatnam@ieindia.org; web: www.ieivisakhapatnam.org]

Mechanical Engineering Division

All India Seminar on "Advances in Welding and Joining Processes"

Bangalore, March 23-24, 2020

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

All India Seminar on "Optimization of Engine Design and Operating Variables to Control Emissions"

Coimbatore, March 19-20, 2020

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

All India Seminar on "Sustainable Industrial Development and Reliability in Present Scenario"

Durgapur, May 08-09, 2020

The Honorary Secretary, IEL, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205 [Telefax: (0343) 2564770; e-mail: durgapur@ieindia.org; website: ieidurgapur.org]

All India Seminar on "Manufacturing and Quality Engineering: Industrial Perspective"

Kolkata, March 20-21, 2020

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

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

Agartala, September 05-06, 2020

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

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

Delhi, September 10-11, 2021

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

Metallurgical & Materials Engg. Division

All India Workshop on "Material Informatics and Soft Computing Application using Machine Learning"

Salem, March 13-14, 2020

The Honorary Secretary, IEL, Salem Local Centre, 104/7, Manivannan Street, 3rd Floor, SPC Bhawan, Opp to Salem New Bus Stand, Salem 636004 [☎: (0427) 2415224; e-mail: salem@ieindia.org]

All India Seminar on "Advancement in Steelmaking Rolling Technology: Smart Initiative for Special Steel"

Ranchi, March 21-22, 2020

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

All India Seminar on "Green Technologies for Iron and Steel Production"

Bokaro, September 06-07, 2020

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

Mining Engineering Division

International Conference on "Technological Advancement and its Management in Mining Excavation Sectors"

Dhanbad, September 09-12, 2020

The Honorary Secretary, IEL, Dhanbad Local Centre, Camp Office: C/O Prof P Bandopadhyay, Co-operative Society Colony, Kusum Vihar, P.O.: BCCL Township, Koyla Nagar, Dhanbad 826005 [Mob: 9934896322 / 8789853083]

Production Engineering Division

All India Seminar on "Emerging Trends in Service Robotics"

Coimbatore, March 09-10, 2020

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

All India Seminar on "Advanced Manufacturing Strategies and Advanced Study of Composite Materials"

Bareilly, April 03-04, 2020

The Honorary Secretary, IEL, Bareilly Local Centre, House No. 270, Camphor Estate, Rampur Road, Post-Clutterbuck Ganj (C.B. Ganj), Bareilly 243502 [email: bareilly@ieindia.org]

Thirty-fifth National Convention of Production Engineers on "Emerging Technologies for Sustainable Manufacturing"

Durgapur, May 23-24, 2020

The Honorary Secretary, IEL, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205 [Telefax: (0343) 2564770; e-mail: durgapur@ieindia.org; website: ieidurgapur.org]

Textile Engineering Division

All India Seminar on "Industrial Textiles and Characterisation"

Coimbatore, March 13-14, 2020

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

Interdisciplinary

One-day Workshop on "Technology Business Incubators Sustained Model for Entrepreneurship and Start up"

Surat, March 03, 2020

The Honorary Secretary, IEL, South Gujarat Local Centre, Mahida Bhavan, Ichchhanath, Surat 395007 [☎: (0261) 222 7340; e-mail: sg@ieindia.org]

One day Seminar on "Advent of Green Technology: Impact on Society"

Durgapur, March 20, 2020

The Honorary Secretary, IEL, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205 [Telefax: (0343) 2564770; e-mail: durgapur@ieindia.org; website: ieidurgapur.org]

Other Events

International Conference on "Energy and Sustainable Development 2020"

Kolkata, February 14-15, 2020

Jointly by IEL and Department of Mechanical Engineering, Jadavpur University under support from Rashtriya Uchchatar Shiksha Abhiyan. For further queries write to icesd20@gmail.com



Contribution for Centenary Celebrations of

The Institution of Engineers (India)

The Institution of Engineers (India) has entered its next Century in September 2019 and we intend to celebrate this significant landmark in a befitting manner. Various International Seminars are being organized in India and Overseas on contemporary and innovative themes culminating in Global Engineering Congress next year. Also, IEI has launched a special outreach programme to induct new members into its' fold along with an image enhancement programme to project the Institution both nationally and globally.

For this purpose, an IEI Centenary Fund has been established and the finances accrued by way of donation/sponsorship would be utilized to organize various events in the Centenary Year.

The contribution made under this section is exempted as per Section 80G of the Income Tax Act 1961, if made by cheque/draft/NEFT.

Details of IEI Centenary Fund are as follows.

Name of the Fund	IEI Centenary Fund
Bank	HDFC Bank
A/c No	50100301303426
IFSC Code	HDFC0000469

IEI Join Hands with Various Certification Bodies to Nurture Engineers

IEI and The Institute of Cost Accountants of India have signed a MoU on 27 May 2019, Kolkata, to offer a course exclusively for engineers- "Executive Diploma in Cost & Management Accounting for Engineers". Here is a wonderful opportunity for all corporate members of IEI to enhance knowledge in the domain of finance and understand the framework of costing, accounting system etc. in various decision making processes.

IEI also ties up with Project Management Associates (PMA), on 3 Jun 2019, at Chennai, in an exclusive collaboration to build a project mindset through Project Management education "IPMA's level C and D Certification Programme" in the country. The program offers a golden opportunity for project professionals to acquire key knowledge and concepts in Project Management, based on the approach followed by the world's leading authority on competence based Project, Program & Portfolio Management- International Project Management Association (IPMA)

IEI members have the exclusive facility of enrolling in the courses at a discounted fee!

For details, Corporate Members may login to their respective dashboard (<https://www.ieindia.org/WebUI/IEI-Registration.aspx>) and submit their application under Certification --> IPMA.

Please visit www.ieindia.org under Certification for details.

For further clarification you may call at: 033-40106304 or Email at certification@ieindia.org



World Water Day 2020

March 22, 2020

As the global population grows, so does the demand for water, which depletes natural resources and damages the environment in many places. Solutions include protecting carbon sinks such as oceans and wetlands, adopting climate-smart agricultural techniques, and increasing the safe reuse of wastewater.

Water is our most precious resource – we must use it more responsibly. We must balance all of society's water needs while ensuring the poorest people don't get left behind

The global climate crisis is inextricably linked to water. Climate change increases variability in the water cycle, inducing extreme weather events, reducing the predictability of water availability, affecting water quality and threatening sustainable development and biodiversity worldwide.

Growing demand for water increases the need for energy-intensive water pumping, transportation, and treatment, and has contributed to the degradation of critical water-dependent carbon sinks such as peatlands. And, some climate change mitigation measures, such as the expanded use of biofuels, can further exacerbate water scarcity.

National and regional climate policy and planning must take an integrated approach to climate change and water management. Increased water stress and meeting future demands will require increasingly tough decisions about how to allocate water resources between competing water uses, including for climate change mitigation and adaptation. If we are to create a sustainable future, business as usual is no longer an option and water management needs to be scrutinized through a climate resilience lens.

We need more investment in improved hydrological data, institutions and governance, education and capacity development, risk assessment and knowledge sharing. Policies need to ensure the representation, participation, behavioural change and accountability of all stakeholders, including the private sector and civil society. Adaptation plans need to incorporate targeted strategies that assist lower-income populations – those who are disproportionately affected by climate change impacts – to navigate new conditions.



The Institution of Engineers (India)

IEI YOUNG ENGINEERS AWARD 2020-21

Notification

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 125 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 consists 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, 2020 is eligible for the Award. The IEI Young Engineers Award is presented to awardees for all the 15 Engineering Divisions of the IEI during the respective National Conventions. The awardees attending the National Convention will be provided with free accommodation & their traveling expenses (AC-3 Tier train fare by shortest route) will be reimbursed on production of original documents.

The Application Proforma may be downloaded from IEI website (<https://www.ieindia.org>). Soft copy of the filled-in application proforma should be forwarded to award@ieindia.org by March 31, 2020. 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, 2020:

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 2020-2021' and name of the engineering division under which the applicant desires to be considered for the Award.

STILL NOT A MEMBER OF IEI ?

BE A CORPORATE MEMBER OF IEI. FOR FURTHER DETAILS PLEASE FOLLOW THE LINK :- <https://www.ieindia.org/webui/iei-Memb.aspx#download>

Important Notice

It has been observed that there are many Corporate Members of IEI whose mobile number/email id is not registered with IEI till date. Non availability of the mobile numbers and email ids precludes us not only from providing our full range of services but also from participation in the Online Election Process.

The Corporate Members whose mobile number/email id is not registered with IEI are therefore requested to kindly communicate their mobile no. and email id along with membership number to datamemb@ieindia.org by 10 March 2020.

For any further clarification, one may feel free to speak to us at (033)40106248/ 246/ 269/ 299.

Maj Gen (Dr) S Bhattacharya, VSM (Retd)
Secretary and Director General

IEI NEWS

ISSN 0971-3352

Owner : The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700 020
Printer : Maj Gen (Dr) S Bhattacharya, VSM (Retd), Secretary & Director General
Publisher : Maj Gen (Dr) S Bhattacharya, VSM (Retd), Secretary & Director General
Published from : 8 Gokhale Road, Kolkata 700 020
Printed from : M/s Sailee Press Pvt. Ltd.
4A Manicktala Main Road, Kolkata 700054
Editor : Maj Gen (Dr) S Bhattacharya, VSM (Retd), Secretary & Director General

President : **Er Narendra Singh**

Editor : **Maj Gen (Dr) S Bhattacharya, VSM (Retd)**

Associate Editor: **Mr Kingshuk Sen**

Special Contributors: Dr N Sengupta, Dr S Ghosh,
Mr T Chakraborty, Ms A Dutta, Mr P Mukhopadhyay,
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