					July 2019
Cyber Physical Systems for Digital India and Sustainable Development	Advancement of Materials in Automobile Industry	Data Protection and Privacy	Reports of World Environment Day 2019	IEI Diary	
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99 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENT FOR NATION-BUILDING					
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MoU with Project Management Associates

With the objective to promote competence based project management skills in India, The Institution of Engineers (India) entered into a collaboration with Project Management Associates, a non profit registered professional body of projects and business managers established in the year 1993 and the Indian Member of International Project management Association, the only Global federal Project Management association, on June 3, 2019 at a function at Hotel Le Royal Meridien, Chennai for initiating the IPMA 4 Level Certification System. The aim of the course is to nurture and maximize the professional development of

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Thirty-fourth National Convention of Production Engineers, Tiruchirappalli

Emerging Technologies in Power Plant Equipment Manufacturing

Tiruchirappalli Local Centre of the Institution in association with NIT Trichy organized Thirty-fourth National Convention of Production Engineers and National Seminar on the topic 'Emerging Technologies in Power Plant Equipment Manufacturing' under the aegis of Production Engineering Division Board (PRDB) of IEI during May 25-26, 2019 at NIT



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

The 2030 Agenda for Sustainable Development Goals (SDGs) adopted by all United Nations Member States is a plan of action for people, planet and prosperity. Further, it is widely accepted that eradicating poverty in all it's forms and dimensions is the greatest global challenge and an indispensable requirement for



sustainable development and countries and stakeholders are acting in collaborative partnership in addressing this issue. In achieving the SDGs, engineers would be challenged to meet the needs of a growing global population while minimising the pressure on existing resources and the need to focus on optimum resource utilization within the ecological framework. This important aspect was also brought into sharp focus during the meeting of the International Engineering Alliance at Hong Kong last month, wherein the eminent speakers from many countries noted that engineering education should address the values of sustainability, ethics, diversity, inclusion and responsible use of data in consonance with the SDGs.

In this regard I would like to inform you that, IEI has established six autonomous Fora with the objective to address the specific areas of interest to spread awareness on contemporary issues through seminars, workshops and such like. I feel that the Institution can embark upon special initiation in addressing the challenges of achieving SDGs through focussed activities of the Fora.

As I have already mentioned earlier IEI is conducting several international events as part of Centenary Celebrations of the Institution. A One Day International Seminar on 'Disruptive Technologies: Shaping Future Innovation' is being organised in Mauritius on 21 August, 2019 under the aegis of FEIAP Committee on ICT. An International Seminar is being conducted in Myanmar on 29 August, 2019 on the subject, 'Smart City – The Evolution of Urban Development' by WFEO Committee on Engineering for Information and Communication (WFEO-CIC).

I am sure that IEI's fraternity would avail of the span of services that are being offered in different domains of expertise in further continuous professional development of engineering professionals.

Cyber Physical Systems for Digital India and Sustainable Development

Uttarakhand State Centre of the Institution in association with Uttarakhand Technical University, Dehradun and Uttarakhand Council for Science & Technology, Dehradun organized Two-day All India Seminar on the topic 'Cyber Physical Systems for Digital India and Sustainable Development' under the aegis of Computer Engineering Division Board of IEI during March 28-29, 2019 at Dehradun. The Chief Guest on the occasion, Prof Alok Prakash Mittal, Member Secretary, AICTE, New Delhi, professed on the technological temperament that should be inculcated in every men of the society. 'The technological approach is must for the youth of the country' and much more needed as it acts as a boon for the development of the country', Prof Mittal opined. Mr Narendra Singh, Council Member, IEI and Mr Aditya K Dinkar, Chairman of the host Centre and Council Member, IEI was present during the occasion and addressed the gathering.

Prof Muddu Vinay, Pro-Vice Chancellor, ICFAI University, Dehradun, in his speech gave his words of wisdom on the role of technology and the application of cyber physical systems in today's scenario. Dr Rajendra Dobhal, Director General, Uttarakhand Council for Science & Technology, Dehradun touched various spheres of technological advancements such as e- governance, g-governance, GIS, evolution of information technology and bio-technology. Dr Siddharth Pandey, CEO, HRD India, Kolkata delivered an eloquent speech about the status of jobs in the nation. Ms Anju Godbole, Director, Gebbs, Mumbai talked on the significance of various tools applications in digital life and need of cyber security for robust services. Mr Abhinav Maurya, Manager, Miracle Software, USA shared his views on the importance of big data and data analytics in present time. Mr Archie Jackson, Genpact Gurugram delivered a lecture on 'Cyber Security in Digital Transforming Businesses and Technology'. A panel discussion was organized in which all the esteemed guests reached to the conclusion of forming a taskforce with

Che Institution of Engineers (India) UTTARAKHAND STATE CENTRE, DEHRADUN UTTARAKHAND TECHNICAL UNIVERSITY, DEHRADUN Under the aegis of TEQIP-III

the objective to function towards the creation of an education framework to increase the employability.; Other speakers and dignitaries include Prof Manoj Kumar Panda, State Project Administrator, TEQIP, Uttarakhand; Prof M P Jain, Convener of the event and Director, Professional Skill Development Cell of the Centre; Prof Amit Agarwal, Organizing Secretary of the Centre and Director, Dr A P J Abdul Kalam Institute of Technology, Tanakpur; Prof Sandip Vijay, Director, Shivalik College of Engineering, Dehradun and Prof Parag Jain, Director, Rourkee Institute of Technology, Roorkee. Mr Dharam Chandra, Honorary Secretary of the Centre was also present during the inaugural session. A large number of resource papers embracing the theme were presented and discussed by the eminent personalities during the technical sessions of the All India Seminar.

MoU with Project Management Associates

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engineers in the present scenario to offer IPMA Level D and C certifications to IEI Members as additional credentials on a concessional basis. Certificate will be issued by PMA Cert. the Certification body of PMA, duly accredited by International Project Management Association (IPMA), Switzerland. The members of IEI will have the exclusive facility of availing Level C & level D courses at a discounted price. During the auspicious occasion, Dr T M Gunaraja, President, IEI briefly acquainted the gathering with the vision of IEI to address the professional needs of engineers in the country. He also emphasized on the focus of IEI on creating an eco system of learning which will contribute to the continuous professional development during the entire spectrum of professional career of an engineer. He added that "in present day context, rapid technical progress is altering fundamentally the skills, knowledge and infrastructure needed for efficient production and delivery of goods and services. IEI envisions that engineers will need to transform themselves to face and overcome the challenges of the future and create an environment for sustainable development. This initiative has been taken with an aim to build and broaden the horizon of engineering professionals."

In this context, Dr Gunaraja feels that the synergy with professional bodies such as PMA and others would enable the engineering professionals to upskill or re-skill themselves to achieve specific goals. President, PMA, Dr A Sivathanu Pillai, (Padma Bhushan) also shared his thoughts and delivered a very motivating speech to the audience where he explained, "Building skill development along with Project orientation and Project Mindset across Industry, Academia and Government are undertaken by PMA through its Global and National events, Competence development & Certifications programs etc. We are glad to partner with the Institution of Engineers (India) to provide our certificate in project management to the engineering community which would definitely enable an enhanced professional outlook in managing projects." President, The Institution of Engineers (India) and President PMA formally signed the Memorandum of Understanding and mementos were exchanged as a token of remembrance. Earlier, Maj Gen (Dr) S Bhattacharya, VSM (Retd) Secretary & Director General, IEI welcomed the august gathering. The event was concluded by Mr T M Srinavasan, Regional Director, South, PMA with a vote of thanks.

IEI Delegation attended Meeting of International Engineering Alliance at Hong Kong

A delegation from IEI led by Dr T M Gunaraja, President IEI comprising of Mr Sisir Kumar Banerjee, Immediate Past President IEI ; Mr P Rajamani, Council Member, IEI and Secretary & Director General, Maj Gen (Dr) S Bhattacharya, VSM (Retd) attended meeting of The International Engineering Alliance at Hotel Crowne Plaza, Hong Kong, Kowloon East during 9-14 June 2019.

The International Engineering Alliance (IEA) is a global not-for-profit organisation, which comprises members from 37 jurisdictions within 28 countries / regions, across seven international accords (Washington, Sydney and Dublin and agreements (IPEA, APEC, IETA and AIET), The International Engineering Alliance Meeting (IEAM 2019) was hosted by The Hong Kong Institution of Engineers (HKIE) in Hong Kong. IEA meetings are organized annually to improve engineering education and competence alobally through widening the recognition and uptake of its constituent Accords and Agreements. The meetings provided an opportunity for the organisations that make up the alliance to consider strategic issues relating to best practice in accreditation, discuss policies and procedures. Moreover, the meetings emphasized the need for engineering education to address values of engineering education - sustainability, ethics, diversity and inclusion & responsible use of data in connotation with the Sustainable Development Goals (SDGs) a collection of 17 global goals set by the United Nations General Assembly.

Further, workshops and sessions were also organized to deliberate and

finalize various clauses of IPEA. IEI presented their viewpoints on all the clauses and offered suggestions on the requirement of mobility of engineers (IntPE) between jurisdictions as well as specifically commenting on each of the clauses. During the meetings, various issues pertaining to Continuous Review Process within the Accords were highlighted. The deliberations revealed the complex nature of review process of IntPE and the importance of meticulous documentation at each stages India's IntPE process was approved IEAM 2018 and valid till 2022.

Some of the important 'takeaways' from IEAM 2019 include: Focus on Engineering Education (Accreditation and Competency) with a view on United Nations Sustainable Development Goals (SDGs) and Society Upliftment, Synergy between Professional Bodies, Ethics in Engineering (Use of Data, Integrity and Inclusivity), Challenge of fewer students in STEM. Engineers should broaden their professional horizon and Challenge of Employability of Engineers.

The IEAM 2019 was very useful in learning about the modern trends and regulations concerning the accreditation and competence of engineer's curriculum and practice respectively. Also, it provided an excellent platform for networking with other delegations many of who are also member of FEIAP and WFEO. This occasion was utilized to discuss with them IEI's contemporary initiatives as well as the events to be held as part of the Centenary Celebrations.

Advancement of Materials in Automobile Industry

Coimbatore Local Centre of the Institution in association with SNS College of Technology, Coimbatore organized Two-day All India Seminar on the topic 'Advancement of Materials in Automobile Industry' under the aegis of Mechanical Engineering Division Board of IEI during March 28-29, 2019 at Coimbatore. Mr S Prasath, Associate Head-New Business Development, M/s Roots Industries Pvt Ltd graced the occasion as the Chief Guest and delivered the keynote address during the occasion. Dr M Shanmugaraja,



Professor and Head, Automobile Engineering, SNS College of Technology, Coimbatore, delivered the Presidential Address. Earlier, Mr P R Natarajan, Chairman of the Centre and Council Member, IEI welcomed the august gathering. A colourful Souvenir of All India Seminar is released by the dignitaries present on the occasion. Mr V Rajesh, Assistant Professor, Automobile Engineering, SNS College of Technology, Coimbatore proposed the vote of thanks at the end of the inaugural function. A number of

resource persons spoke on various sub-themes during technical sessions of the Seminar ie. Mr R Karthikeyan, Assistant Professor (Senior G), Mechanical Engineering, PSG College of Technology, Coimbatore on 'Materials Selection and Development for the Enhancement of Engine Performance'; Dr. P Karuppuswamy, Professor and Head, Mechanical Engineering, Sri Ramakrishna Engineering College. Coimbatore on 'Recycling of Aluminium Alloy for Industrial Applications'; Dr P Vivekanandhan, Professor and Head, Mechatronics Engineering, SNS College of Technology, Coimbatore on 'Recent Advancements in Composites for Automobile Applications'; Dr T Prakash, Associate Professor, Mechanical Engineering, SNS College of Technology, Coimbatore on 'Characteristics of Advanced Composite Materials for Automotive Applications' and Mr B Srinivasan, Assistant General Manager, Precision Manufacturing System Complex, L & T Pvt Ltd, Coimbatore on 'Composite Materials and their Manufacturing System'.

July 2019

Data Protection and Privacy

Salem Local Centre of the Institution in association with Department of Information Technology, Sona College of Technology (SCT), Salem organized

theme of the Conference. Dr M Usha, Senior Dean/ICE, SCT, in her address highlighted about the data privacy and its issues and opportunities in the field

Two-day National Conference on the topic 'Data Protection and Privacy' under the aegis of Computer Engineering Division Board of IEI during March 28-29, 2019 at Salem. Dr T M Gunaraja, President, IEI in his inaugural address, mentioned about Professional Engineers Bill, importance of students to become members of professional bodies and certification programs offered



by IEI to improve employability. 'The Conference like this could be the destiny of the future world', he added. Dr Gunaraja also released a Souvenir on this auspicious occasion. Dr J Akilandeswari, Professor and Head /IT, SCT and Organizing Secretary of the event addressed the gathering on the

Convener of the Conference and Principal, Thiagarajar Polytechnic College addressed the gathering about the technical issues in data protection and legal issues in data privacy. Earlier, Mr D Arul Selvan, Chairman of the Centre delivered the welcomed address. Mr R

of AI and Network Security. Dr

S R R Senthilkumar, Principal,

SCT briefed about incubation

Centres in SCT particularly

for AI, Big data and Machine

Learning. Dr V Karthikeyan,

Ramdoss, Chairman, Tamilnadu State Centre, IEI also graced the occasion and addressed the gathering. Mr S Loganathan, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

Knowledge Breaks in Environmental Health and Safety for Sustainable Progress of Nano-industries

Coimbatore Local Centre of the Institution in association with Hindusthan Institute of Technology, Coimbatore organized Two-day All India Seminar on the topic 'Knowledge Breaks in Environmental Health and Safety for Sustainable Progress of Nano-industries' under the aegis of Electronics & Telecommunications Engineering Division Board of IEI during April 5-6, 2019 at Coimbatore. Prof G Natarajan, Retired Scientist, CSIR graced the

occasion as Chief Guest. Prof Natarajan, in his Keynote Address highlighted the unique properties of materials at the nanoscale to enable innovations. He further explained that considerable progress has been made in characterizing the potential risk posed by Engineered Nano-materials (ENMs), research and development of products and devices containing nano-(Nanotechnology-Enabled materials Products or NEPs) continues at a rapid and accelerating pace. 'The evolving applications of nanotechnology require continuously refining and advancing ways to detect, measure, and assess ENM behaviour in settings that reflect realistic workplace, consumer, and environmental exposures in order to develop effective management strategies', Prof Natarajan added. Earlier, Dr P R Natarajan, Chairman of the Centre welcomed the august gathering. Dr C Natarajan, Principal, Hindusthan Institute of Technology, Coimbatore presided over the function. Dr H Rammohan, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme. A number of papers embracing the theme were presented and discussed during the technical sessions of the Seminar.



Development of Small and Medium Ports across the Coast, for Harnessing the Logistics Transport and Economy

Telangana State Centre of the Institution organized Two-day All India Seminar on the topic 'Development of Small and Medium Ports across the Coast, for Harnessing the Logistics, Transport and Economy' under the aegis of Marine Engineering Division Board of IEI during March 28-29, 2019 at Hyderabad. The Chief Guest on the occasion, Dr A Ashok, Commissioner and Secretary, Telangana State Board of Intermediate Education, Hyderabad stated that in Ministry of Shipping, around ninety five percent of India's



trade is depending upon shipping industry and seventy percent values is done through maritime port transport. The Chief Guest further highlighted that India is sixth largest Maritime country in the world with its coastal area is about 7517 Km. Dr Ashok mentioned that Government of India launched "UNNATHI' Project which is used to operate the major ports. Dr Ashok mentioned that the history of urban development is also giving importance

marine structure foundations, deck fixtures, material handling system etc. Earlier, Mr T Anjaiah, Honorary Secretary of the Centre welcomed the august gathering. Dr G Rameshwar Rao, Chairman of the Centre presided over the function. Mr S Survanaravana, Convener, Organizing Committee of the Seminar briefed about the Seminar. Dr G Venkata Subbaiah, Joint Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

to

sea ports and economic

development of the country. Mr K V

Natarajan, Consultant, Ports and Past

President, Adani Port, in his Keynote

Address stated that how Telangana

utilize water transport since it is a

land locked State. He continued

that Telangana develop inland water

transport to move their goods to

the sea and develop good rail road

connectivity to the nearest mega

coastal port. Mr Natarajan further

described about different types of



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Tiruchirappalli. Mr Shaji John, Director (Power), NLC India Ltd graced the occasion as the Chief Guest. Mr John, in his address highlighted the scope, opportunities and prospects of thermal power plants in the country. He further explained that the fluctuation in the demand of power in different zones can be fulfilled by an effective mix of both renewable and non renewable energy. Mr John emphasized upon the power plant manufacturing strategy with reduced emission level, reduction of turbine heat rate, sustainable energy balance through the application of material of construction with enhanced mechanical properties. The Guest-of-Honour on the occasion, Mr A S Lamba, Group Chief Executive & Whole Time Director, L&T-MHPS Boilers Pvt Ltd, in his address explained different aspects of enhancement of installed capacity of power plants in terms of technological advancements, application of supercritical and ultra super critical technology for boiler manufacturing, etc. Dr T M Gunaraja, President, IEI was present during the occasion and addressed the august gathering. During his address, he explained capacity utilization scenario of renewable and non renewable energy sectors in India and also stressed upon more application of advanced materials and alloys for production of power plant machineries. Dr Gunaraja further focused on creating an eco-system of learning with the objective to continuous professional development, which is very much useful for entire spectrum of professional carrier for budding engineers. Mr Sisir Kumar Banerjee, Immediate Past President, IEI was present during the function. In his speech, Mr Banerjee mentioned the criticality in manufacturing of power plant machineries to sustain the stated degree of quality. Dr Deb Kumar Tripathy, Chairman, PRDB, IEI, during his presidential address explained the significance in introduction of digital platform in manufacturing of power

plant machineries and equipment. Two eminent engineering personalities namely. Mr A S Lamba, Group Chief Executive and Whole Time Director. L&T MHPS Boilers Private Ltd, Faridabad and Dr A Noorul Hag, Visiting Professor, Department of Production Engineering, NIT Tiruchy were felicitated during the occasion for their contribution in the field of Production Engineering. The IEI Young Engineers Award for the year 2019-2020 in Production Engineering Division was presented to Dr K Javakrishna, Associate Professor, School of Mechanical Engineering, Vellore Institute of Technology University, Vellore and Dr Ankur Gupta, Faculty, School of Mechanical Sciences, IIT Bhubaneswar, Odisha. The F W Taylor Memorial Lecture was delivered by Mr A Pari, Director, CRP (India) Pvt Ltd, Chennai, on the theme 'Emerging Tools and Technics for Production Engineers'. The G C Sen Memorial Lecture was delivered by Dr L Karunamoorthy, Chairman of Faculty of Mechanical Engineering, Anna University, Chennai, on the theme 'Manufacturing Technology Trends of 2019 & 2020s'. A Panel Discussion on the topic 'Production Engineering for the Future' was organized. The panelists recommended enhanced application of advanced materials and alloys, stringent process control at elevated temperature, development of skilled manpower focusing on specific domain and more interaction between industry and academia. The State-of-the-Art Lecture was presented by Dr Kinkar Laha, AUSC Mission Directorate, Noida on the theme 'Materials for Indian Advanced Ultra Super Critical Power Plant (AUSC)'. Earlier, Prof (Dr) Natarajan Kumaresan, Chairman, Tiruchirapalli Local Centre welcomed the august audience. Mr A Anand, Honorary Secretary of the host Centre proposed the vote of thanks concluding the inaugural session. A large number of resource papers embracing the theme were presented and discussed during the technical sessions of the two-day National Convention.

July 2019

IEI Celebrates

World Environment Day 2019

Theme : Air Pollution

World Environment Day was celebrated by the Centres of the Institution all over the country on June 5, 2019. Brief accounts of the celebration as received from various Centres are reported hereunder

STATE CENTRES

Assam

Prof Hari Prasad Sarma, HoD, Environmental Science, Gauhati University, in his speech covered wide ranges of issues on the protection of Environment. Dr Parth Jyoti Das, Head, WATCH Division of Aaranyak also spoke on the theme of the day.



Mr Deepak Kumar, Commissioner of Police, Guwahati, graced the occasion as the Guest-of-Honour and addressed the gathering. Mr Dharmendra Das, DCP, Guwahati Central and Mr Gunendra Deka, ADCP, Guwahati Central attended the function as Guests. Dr.S K Kakoty, Chairman of the Centre was in the chair. Earlier Mr Pulak Sarmah delivered the welcome address and proposed the formal vote of thanks at the end of the programme.

Madhya Pradesh

The Chief Guest, Dr Pushpendra Singh Bundela, Regional Officer, MP Pollution Control Board, in his speech narrated about effects of plastic pollution. He further interacted with the gathering regarding air pollution and water pollution.



The Guest-of-Honour, Dr A C Karera, M P Pollution Control Board during his address stated the measures to improve the air pollution by strict measurement of norms laid down for the different segments like industries, movements of unfit vehicles emitting smokes, burning of garbage in open areas etc. He praised the Govt's

'Ujjwala Yojna' by which remarkable Air Pollution has been checked by smoke free kitchen. He also stressed upon the use of Electric Vehicle to control air pollution in some extent. Earlier, Mr Neeraj Dave, Chairman of the Centre, in his welcome address highlighted about the activities of the Centre and its contribution towards society. Dr Bharat Modhera, Honorary Secretary of the Centre proposed the vote of thanks.

Punjab & Chandigarh

Mr A K Bhatia, Former Regional Director, CGWB was the Chief Guest during the occasion and Mr Shivinder Singh Saini, Former Chief Engineer, Irrigation Department (Punjab) graced the function as the Guest-of-Honour and addressed the august gathering. The Key Speaker on the occasion, Mr P S

Bhogal, Former Chief Engineer, Irrigation Department, Punjab and Council Member, IEI spoke on the theme with special emphasis on Air Pollution. Mr Sanjib Sagar Sharma, Environmentalist also participated in the function. Farlier, Mr, LB, Gard



in the function. Earlier, Mr J R Garg, Chairman of the Centre delivered the welcome address. Mr S S Mundi, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

Telangana

The Chief Guest on the occasion, Dr B Kalyan Chakravarthy, Director General, Environment Protection Training and Research Institute, Hyderabad stated

that Pollution is the introduction of contaminants into environment that causes instability, disorder, harm or discomfort to the ecosystem. He further explained that reducing pollution is within our reach and 50% of water is polluted in Hyderabad. Dr



Chakravarthy enumerated that the rate of air, water and environment pollution is increasing day by day due to increase of usage of vehicles and due to many changes taking place in the atmosphere. 'To safeguard the environment, priority should be given to Green houses, plantation of trees and maintenance of lakes', he opined. Dr N Raveendhar, Chief Environmental Scientist, EPTRI, Hyderabad delivered the Keynote Address. Earlier, Mr T Anjaiah, Honorary Secretary of the Centre welcomed the gathering and Dr G Rameshwar Rao, Chairman presided over the meeting, Prof (Dr) Ramana Naik Banothu, Jt. Honorary Secretary of the Centre proposed the vote of thanks.

Uttar Pradesh

Mr N N Upadhyay, IAS (Retd), graced the occasion as the Chief Guest and addressed the august gathering. Mr R N Bhargava, Secretary General, Club of Lucknow, while explained the theme mentioned that main causes of Air Pollution are burning of fossil fuel namely coal, petroleum and other factory combustibles, burning of coal and petroleum product increases level in the emissions. 'More than seven million deaths occur worldwide due to ambient i.e. outdoor as well as indoor exposure to smoke from dirty cook stoves and



fuels', he added. He further alarmed that the situation is very alarming and solution exists with sustainable transport in cities, solid waste management, access to clean house hold fuels and cook stoves as well as renewable energy and industrial emissions reduction. Earlier, Mr R K

Trivedi, Chairman of the Centre welcomed the guests and dignitaries. Mr V B Singh, Council Member, IEI introduced the Keynote Speaker and conducted the programme. Mr P K Chaurasia, Honorary Secretary of the Centre proposed the vote of thanks.

LOCAL CENTRES

Ahmednagar

The Chief Guest of the function, Mr Popatrao Pawar, Executive Director, Government of Maharashtra Model Village Project in his address mentioned that India is the only country gifted with 16 climatic zones due to which we can experience heavy rainfall at one place while severe draught at the other. He said that heavy deforestation and industrialization posed threat to existence of leaving species due to emission of carbon dioxide and other toxic gases stating that the catastrophe is manmade and responsibility of his existence on Earth lies on his approach to the mother Earth. The Guest-of-Honour, Dr Kubota,



is Government sponsored project in Japan. He lauded corporate sector in India for initiative in environment conservation and creating awareness in public. Earlier, Mr Avinash D Kulkarni, Chairman of the Centre, introduced the theme and also



highlighted the activities of the Local Centre. Mr S D Mahajan, General Manager, Quality & Engineering highlighted the importance of garbage management and also expressed that through use of solar energy, tree plantation and by saving water, we can help towards environment protection. Mr Ishwar Hande proposed the vote of thanks.

Alwar



Mr Ram Charan Sharma, Additional District Magistrate First, Alwar District graced the occasion as the Chief Guest and addressed the gathering. Mr O P Gupta, Head, Local Pollution Board took the initiatives to organized the event. Other dignitaries present on the occasion included Mr R S Kajalla,

Alwar Chamber of Commerce; Mr Modi Chloro Punee, Senior General Manager, DIC and Mr K L Sharma, former Additional Chief Engineer, PHED. Mr Manohar Lal Yadav, Chairman of the Centre also graced the occasion and addressed the audience.

Bareilly

The Chief Guest of the function, Mr Ghanshyam Khandelwal, Chairman, B L Agro Industries Ltd., Bareilly, in his address highlighted several ideas to create jobs related to organizations working on Environment. Mr Sovan Mohanty, Assistant

Professor, SRMS, Bareilly, speaking on the theme of the day enumerated that the Solar Impulse Label is granted to innovative solutions to air pollution that meet high standards of sustainability and profitability. Earlier,



Mr Subhash Mehra, Chairman of the Centre, in his inaugural speech explained that air pollution is one of the biggest threats for the environment and affects all creatures on this earth. Mr S K Gupta, Immediate Past Honorary Secretary of the Centre introduced the theme. Dr Pankaj Sharma, Honorary Secretary of the Centre proposed the vote of thanks.

Belapur

Dr M B Dagaonkar, Council Member, IEI and former City Engineer, NMMC graced the occasion as the Chief Guest and addressed the gathering. The Keynote Speaker of the function, Prof Rajendrakumar V Saraf, Chairman,



Viraj Envirozing India Pvt. Ltd., Pune enumerated on various facts on air pollution and its impact on our life. He also elaborated how development process causes imbalance of various gaseous cycles of atmosphere. He

urged the gathering to take steps for reduction of greenhouse gases. Earlier, Mr V C Kamble, delivered the welcome address and and spoke on the theme of the day. Dr Samir Nimkar, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

Bokaro Steel City

The Chief Guest of the function, Mr R C Srivastava, Executive Director (Works), SAIL, Bokaro Steel Plant, in his address highlighted about the actions undertaken to reduce air pollution in various units of the plant as well as sewerage system of the plant for implementation on priority. Mr D N Mohanty, General Manager (Maintenance), SAIL, Bokaro Steel Plant graced the occasion as the Guest-of-Honour and explained about air pollution and remedial measures to be taken to minimize the same. Mr N P Srivastava, Head of Environment, SAIL, Bokaro Steel Plant explained in depth about the causes of air pollution in the plant and

actions already initiated to overcome the menace. Mr Nitesh Ranjan, Manager, ECD, in his paper on the theme discussed about each aspect of air pollution including adverse effect on health and environment. Earlier, Mr Y N Singh, Chairman of the



Centre, in his welcome address elaborated on the importance of this day and emphasized to avoid indoor air pollution for better health and protection of environment. Mr D P Jha, Honorary Secretary of the Centre proposed the vote of thanks.

Dhanbad

The Chief Guest on the occasion, Prof Ashok K Singh, Professor, Department of Environment Science & Engineering, IIT-ISM, Dhanbad & Former CMD, CMPDIL, in his speech emphasized that now-a-days various pollutions are in the air. He further focused on silicosis which is caused by air pollution. 'Moreover, because of thermal power generation, lot of carbon dioxide is being



produced causing global warming and by the turn of the century, the temperature will become 2 to 3 degree more than that of normal. Dr Pradeep K Singh, Chairman of the Centre, in his Presidential Address presided over the function, highlighted that

because of air pollution, all the mine workers are suffering from air pollution which may cause severe problems in future. 'Therefore, some protections against air pollution should be taken in mines and mining areas', he opined. Dr T N Singh, Past Chairman of the Centre, introducing the theme mentioned that lot of air pollution is taking place because of use of combustible fuels which should be controlled. Dr Satyendra K Singh, Honorary Secretary of the Centre proposed the vote of thanks.

Dharwad

The Chief Guest on the occasion, Prof M R Patil, KLE Technological University Hubballi, in his speech opined that air pollution is increasing day by day and impure air leads to severe health problems for all the living beings. He further highlighted that it is possible to survive for few



days without food and water but it is not possible to survive for few minutes without air. 'When air is so important, the quality of air that we breathe is equally important for healthy living', he added. He urged that the root causes of air pollution and measures to be taken up by the Governments, professional engineers and citizens of the nation. Prof (Dr) Ramesh L Chakrasali, Chairman of the Centre, in his presidential remarks mentioned that the impurities due to chemical, biological and physical phenomena lead to air pollution. Earlier, Dr S S Kerur welcomed the august gathering and proposed the vote of thanks at the end of the programme.

Ghaziabad

The Chief Guest on the occasion, Mr Anil K Srivastava, Former Managing Director, U P Jal Nigam, in his address explained about air pollution, various causes of air pollution and their categorization. He further expressed his views about various sources of air pollutants, their classification and types of pollutants. He also explained about various effects of air pollutions on humans, animals and environment. Er. Srivastava briefed about various Governmental level interventions being taken to reduce air pollution and about monitoring of Air Quality and Air Quality Index (AQI) and its six categories. He concluded his address by expressing how to protect our health from polluted air. The Guest-of-Honor, Mr I K Kapila, Advocate & Techno-Legal Environmental Consultant & Solicitor, Delhi, spoke with reference to source apportionment study for

14 prominent air pollution sources contributing to the air pollution in Delhi.



He also enumerated various steps taken by the Govt. for controlling pollution from various sources with special reference to graded action plan prepared by Govt of India that envisages various pollution control mechanisms triaaerina nogu

pollution index reaching identified bench marks. Earlier, Mr Jai Pal Singh, Chairman of the Centre and Council Member, IEI, in his welcome address highlighted the importance of environment in everybody's life and in the economic development of the society. Mr Chitra K Tyagi, Honorary Secretary of the Centre proposed the vote of thanks.

Gwalior

The Keynote Speaker, Mr Manoj Phalke, Deputy Manager, Technical Services, GUNA, Madhya Pradesh emphasized on the quality of air that we breathe. He enumerated that the celebration of the day will urge



governments, industries, communities and individuals to come together to explore renewable energy and green technologies and improve air quality in cities and regions across the world. Mr Vinay Kumar Shukla, Honorary Secretary of the Centre, speaking on the programme 'Jeevan Ka Paryaay Hai Paryavaran' discussed that the celebration of the day provides us with an opportunity to broaden the basis for an enlightened opinion and responsible conduct by individuals, enterprises and communities in preserving and enhancing the environment. The function ended with the vote of thanks to the guests and dignitaries present on the occasion.

Kalaburagi



Dignitaries present on the occasion included Mr Ramchandra Shanbhaq, President, Rotary Club, Kalaburagi; Dr Shashikant R Mise, Professor, Department of Civil Engineering, PDA College of Engineering, Kalaburagi; Mr B S More and Dr Baburao N

Sherikar, Chairman and Honorary Secretary of the Centre respectively and all of them addressed the gathering. Mr Rajendra Herurkar, Secretary, Rotary Club, Kalaburagi proposed the vote of thanks at the end of the programme.

Kanpur

The Guest Speaker on the occasion, Dr Amandeep Singh Oberoi, Research Engineer, IIT Kanpur during his address mentioned that air pollution involves harmful concentrations of a mixture of particles and its effects can range from life threatening



disease risks to global warming. He further explained that a myriad of severe health problems including and especially higher rates of cancer, heart disease, stroke and asthma are associated with the carbon dioxide specifically, when emitted through the burning of fossil fuels considered associated with vehicles, air planes, thermal power plants, and other human activities is a major contributor. 'Dangerous fine particle (PM2.5) pollution is due to emissions of sulfur dioxide (SO2) and nitrogen oxides (NOX) reaction in the atmosphere', he added. Dr Oberoi concluded with the remarks that measures to control the sources of pollution are taken and a written plan to develop a control strategy is to be articulated. Prof Pradeep Kumar, former Chairman of the Centre and Head, Department of Civil Engineering, HBTU, Kanpur welcomed the Guest Speaker and other dignitaries. Dr Rajat Kumar Khare, Honorary Secretary of the Centre proposed the vote of thanks.

Kanyakumari



Mr S R Vijaya Kumar, Retired Superintending Engineer, TWAD, in his Keynote Address explained air pollution and other things that affect the environment. He further explained what is environment and its segments, atmosphere, hydrosphere, lithosphere etc. He

tabulated different kinds of pollution which affect the environment and pointed out how air pollution plays a vital role. He highlighted air pollution and its effects on mankind, animals and materials. Earlier, M A Perumal, Committee Member of the Centre welcomed the august gathering. Mr V Sivathanu Pillai, Chairman of the Centre, in his Presidential Address presented a brief sketch on environment and air pollution. He further deliberated how air pollution affects the mankind particularly. Mr V Muthum Perumal, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

Kochi

Dr T Arunkumar, CUSAT graced the occasion as the Chief Guest. Dr Arunkumar, in his address reminded that this is the time to act decisively. He further enumerated that all subsides on fossil fuels are to be ceased and new coal plants should not be opened. 'Plans are to be thought of to reduce air pollution at each and every phase of future activities', he opined. Dr M M Prabhakaran spoke about various causes and consequences of air pollution. Earlier, Mr T P Raveendran, Chairman of the Centre and Council Member, IEI welcomed the august gathering, Mr



M P Eldhose, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

Mysore

The Guest Speaker on the occasion, Ms Alaknanda J Adur, Coordinator of



Sciences, Surana College, Bangalore, while speaking on the theme highlighted that due of the increasing

number of air pollutants, air pollution has been divided into two types such as primary pollutants and secondary pollutants. 'Primary pollutants are those affecting the fresh air directly and emitted from smoke, ash, dust,

fumes, mist, spray, inorganic gases, carbon dioxide, carbon monoxide, sulphur dioxide, ammonia, nitric oxide whereas Secondary pollutants are those affecting the air indirectly by chemical interactions to the primary pollutants and other atmospheric constituents such as sulphur-trioxide, ozone, hydrocarbons, nitrogen dioxide, etc', she added. She further suggested that saving trees will reduce the effect of global warming since apart from human beings, even birds, animals and other creatures depend on trees for food and shelter. Prof (Dr) R Suresh, Chairman of the Centre and Council Member, IEI presided over the function. Mr D K Dinesh Kumar, Honorary Secretary of the Centre introduced the Guest Speaker and proposed the vote of thanks at the end of the programme.

Palghat

The Guest Speaker on the occasion, Mr Krishnan M N, Environmental Engineer,



Kerala State Pollution Control Board, Palakkad, explained on the theme and stated that the celebration of the day focused attention on a particularly pressing environmental concern. He further explained that air pollution is a global crisis and called for to combat the same. Mr Krishnan discussed at

length about the facts of air pollution and its sources in particular. Mr K Unni Krishnan, Chairman of the Centre presided over the function. Mr A Ramesh, Honorary Secretary of the Centre introduced the Guest Speaker. Prof B Rajesh Menon, Joint Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

Rourkela

The Guest Speaker on the occasion, Mr V V R Murty, Deputy General Manager, Environmental Engineering Department, Rourkela Steel Plant, in his speech



enumerated on various sources of air pollution by natural sources and manmade sources. He further elaborated on air pollutants and its global and local impacts. He explained about how real is global warming and suggested various measures to beat air pollution

viz. adoption of clean technologies, replacement of old and existing units with energy efficient new units, optimum consumption of natural resources, reduction of energy consumption, reforms in transportation and minimizing wastages and utilization of wastes etc. He concluded with few suggestions that we must take certain steps to beat air pollution on individual level like use of LED lighting system, Solar Water Heating System, Solar Power Packs, Energy Efficient Electrical Appliances, Believing and spreading Environment Awareness, Practicing and encouraging Tree Plantation. Earlier, Dr H M Jena, Honorary Secretary of the Centre welcomed the gathering and proposed the vote thanks at the end of the programme.

Sunabeda

Mr Debasis Deb, Executive Director, HAL, Koraput and Ex-Chairman, IIESLC graced the occasion as the Chief Guest and addressed the gathering. The Guest-of-Honour on the occasion, Mr R S Das, Executive Director, NALCO, Damanjodi

highlighted the statistical information of various cities of India regarding air quality standard. Earlier, Mr N C Behera, Chairman of the Centre, in his inaugural words emphasized on the importance of the day and explained



how air pollution affects human life worldwide. Mr Laxmi Narayan Gouda, HAL highlighted about various aspects of air pollution and preventive actions with mythological background. Dr PK Patjoshi, NALCO explained the missing dimensions of air pollution with a lot of statistical background with reference to state/national/international requirements. Mr Pravat Dash, AGM-Safety, NALCO proposed the vote of thanks.

Trichur



Dr G Madhu, Professor & Head, Chemical Engineering, CUSAT, Cochin graced the occasion as the Chief Guest and presented the theme paper on 'Beat Air Pollution'. Mr V G Sankaranarayanan, Chairman of the Centre presided over the meeting. Mr Sasidharan Achari M N, Honorary Secretary of the Centre proposed the vote of thanks.

Tuticorin

The Chief Guest of the function, Mr Maria Michael Raj, former Senior Scientific Officer, Department of Atomic Energy stressed upon the need for worldwide recognition of the seriousness of Pollution and its implications on the flora



and fauna of the Earth. He further explained in depth the necessity for collective contribution from all the countries, both developed and developing countries on a common platform to check the mushrooming violation of environmental norms and the honest balancing between growth and ecological conservation.

Mr Kajendran, Senior Engineer, Tuticorin Thermal Power Station, in his Keynote Address explained with data and illustrations the negative impact of air pollution in homes, roads, industries etc. and the serious health disorders encountered by the world population. He highlighted the urgent need for remedial steps to control the suffocating air pollution and the role to be played by each individual in this direction. Mr S T Mathew, Past Chairman of the Centre presided over the event. Mr K Balasubramanian, Immediate Past Honorary Secretary of the Centre proposed the vote of thanks.

Upper Assam

The Chief Guest on the occasion, Mr H K Changmai, General Manager & Head of Project, AGBP, NEEPCO, Bokuloni in his speech expressed that the theme 'Air Pollution selected by United Nations is very important and useful for

carrying out awareness program to save the Environment. The Guest-of-Honour of the function, Mr Dibakar Bhattacharjee, Ex-DGM, IOCL & Past Chairman of the Centre spoke about the steps taken by Government and



Industries to reduce pollution such as air, water etc. He further reiterated that we should also make awareness programs so that the people become aware about the scope of these types of pollution in our day to day life & take necessary steps to save the environment. Mr Ashit Kumar Baruah, Chairman of the Centre In his welcome speech highlighted about the burning problems of Assam & India in the field of Air Pollution. He further urged that what we need to do is to raise awareness amongst the Indian citizens of present and future generations to take bold and appropriate steps to save the environment. Mr Diganta Goswami, Honorary Secretary of the Centre offered the vote of thanks. Four papers were presented during the technical session.

Vadodara

During the occasion, Padma Shri Kartikeya Sarabhai, an eminent and renowned Environmentalist and Educator graced the occasion as Keynote Speaker. Padma Shri Sarabhai, in his speech enlightened audience regarding different of types of pollutions and initiative taken by Non Government Organizations and the government. He also deliberated the effects of Air Pollution. Mr Navinchandra B Vasoya, Past President, IEI graced the occasion as Guestof-Honour and briefed about the various activities of IEI and its contribution to



Engineering field. Rajmata of Vadodara, Smt Shubhangini Devi Gaekwad also graced the occasion with her august presence and addressed the gathering. Mr N P Singh Brar, Chairman of the Centre chaired the function.

to be contd.

I.E.I NEWS

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

News-in-Brief

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

STATE CENTRES

Andhra Pradesh

Celebrated 'Industrial Safety Day 2019' on June 11, 2019.

Jammu & Kashmir

Conducted one day sensitization programme on 'Disaster Preparedness' on June 27, 2019.

Seminar on 'Traffic Issues of Srinagar' on June 30, 2019.

Telangana

Celebrated 'National Technology Day 2019' on May 11, 2019.

Organized '217th Birthday Celebrations of General Sir Arthur Thomas Cotton' on May 15, 2019.

Late Er T Hanumantha Rao Second Endowment Lecture on 'Integrated Watershed Management as a Powerful Engine for Sustainable Rural Growth' delivered by Dr Suhas P Wani, Advisor, JSW Foundation, Mumbai and Consultant, Asia Development Bank, Manila, The Philippines on June 21, 2019.

Uttar Pradesh

Seminar on 'Renewable Energy Dialogue: Unlocking Renewable Energy Potential in Uttar Pradesh' on June 29, 2019.

West Bengal

Lecture on 'Hydrogen Production through Electrolysis of Water- A Source of Green Energy' delivered by Dr Biswajit Mandal, Associate Professor, Haldia Institute of Technology, Haldia, West Bengal on April 26, 2019.

Lecture on 'Green Composite' delivered by Dr Samrat Mukhopadhyay, Associate Professor, Department of Textile Technology, IIT Delhi on June 7, 2019.

LOCAL CENTRES

Ahmednagar

Lecture on 'Stress Management' delivered by Dr Prasad Ubale, CEO, M/s Fair Tricks on June 14, 2019.

Gwalior

Lecture Meeting on 'Concept and Advantages of Biofertilizers' on June 16, 2019.

Indore

Seminar on 'Green Building Recognition Systems: IGBC and GRIHA' on March 15, 2019.

Twenty-fourth Engineer T N Kumbale Memorial Lecture on 'IoT and World in 2025' delivered by Mr Amit Bhatt, Entrepreneur and Trainer, Software & Web Development on March 19, 2019.

Lecture on 'Change Water: Change Life' delivered by Mr Ashish Sahoo, Entrepreneur & Academician on May 4, 2019.

Visit to 'SCADA Centre, MGVCL, Baroda' on May 25, 2019.

Industry Academia Interface on 'Imperatives of Engineering Education: Enhancing Skills and Employability' on the occasion of IEI Centenary Celebrations on June 22, 2019.

Kalaburagi

Celebrated 'National Science Day' on February 28, 2019.

Workshop on 'Automation with Current Trends in Software Testing and Fundamentals of Java Technologies' during March 23-24, 2019.

Celebrated 'World Telecommunication & Information Society Day' on May 22, 2019.

Palghat

Lecture on 'Multi-phase Flow Measurement' delivered by Mr G. Natarajan, Former Scientist, CSIR-CMERI, Durgapur, on June 14, 2019.

Ranipet

Lecture on 'Air Pollution' in commemoration with World Environment Day delivered by Mr K H Ramachandran, General Manager, HSE&PMS, BHEL, Ranipet on June 11, 2019.

Saurashtra

Workshop on 'Lean Management' on April 25, 2019.

Tiruchirappalli

Lecture on 'Data structure' delivered by Dr (Ms) M Sridevi, Assistant Professor, CSE Department, NITT Tiruchirappalli on June 11, 2019.

Tiruvallur

Lecture on 'Applied Engineering to Solve Real World Energy Problems' delivered by Dr. Abhishek Asthana, Director, Hallam Energy, Sheffield Hallam University, United Kingdom on June 12, 2019.

Vallabh Vidyanagar

Organized Short Term Training Program on 'Advanced Research Methodology' during May 20-25, 2019.

Superannuation from IEI

Mr Babul Lal Paul, an employee of the Institution HQ will be superannuated from the services of IEI on July 31, 2019. He joined the Institution on May 1, 1983 and rendered his services to the Institution for a period of over 36 years.



IEI wishes Mr Babul Lal Paul and his family a happy and healthy life in future.

IEI Celebrates World Telecommunication and Information Society Day 2019



Theme : Bridging the standardization gap

World Telecommunication and Information Society Day was celebrated by the Centres of the Institution all over the country on May 17, 2019. Brief reports as received from various Centres are given hereunder.

STATE CENTRES

Assam

Mr Sandeep Govil, Chief General Manager (Telecom), Assam Telecom Circle (BSNL) graced the occasion as the Chief Guest. Mr Govil, in his address covered various contemporary issues on the



theme. The Keynote Speaker of the function, Mr Prabir Kumar Das, Director, STPI, Guwahati, in his speech highlighted elaborately on the standardization issues in Telecom and related areas. Earlier, Mr N Zaman, Honorary Secretary of the Centre delivered the welcome address. Dr S K Kakoty, Chairman of the Centre delivered the presidential address. Mr Amitava Nath, Immediate Past Honorary Secretary read out the message of Secretary General, International Telecommunication Union (ITU) on the occasion. Mr Deepak Goswami, Retired DDG, NIC, chaired the technical session of the function. Mr Satyajyoti Nath, Organizing Secretary of the event proposed the formal vote of thanks.

Telangana



The Chief Guest of the function, Padmasri Dr T H Chowdary, Director, Centre for Telecom Management and Studies (CTMS), in his address stated that for 750 crores people in the world, there are now 650 crores of people are having telephone numbers. 'In metro cities like

Mumbai, Delhi, Chennai and Kolkata, there are more telephone numbers than the population itself', he mentioned. He further highlighted that smart phones, now are almost replacing the computer, TV, Internet, Video calling etc. can be seen on the telephone screen. Earlier, Mr B Brahma Reddy, Council Member, IEI welcomed the august gathering. Dr G Rameshwar Rao, Chairman of the Centre presided over the function. Other dignitaries present on the occasion included Mr Tejpal Bhatia, Head, Govt. Business Unit, Tata Consultancy Services, New Delhi; M M P Vijay Kumar, CFO, Sify Technologies Limited, Chennai and Mr C R Rao, Chief Technology Officer, Sify Technologies Limited, Chennai and spoke on the subject 'Digitalization of the Operations of India Post'. Mr T Anjaiah, Honorary Secretary of the Centre proposed the vote of thanks.

West Bengal

The Chief Guest of the function, Mr Chanchal Chakraborty, Technical Head, Reliance JIO, in his address presented with projection the status of 1G, 2G, 3G and 4G. With regard to 4G, he mentioned that it has got no official requirements. In regard to 2G, he expressed that it is of analog technology and deployed in 1980 and it has also got no official requirements. In regard to 2G he expressed that it was of digital technology & deployed in 1990 and it has also got no official use. He then came up with the points viz. OFDM – Orthogonal Frequency Division Multiplexing, MIMO i.e. Multiple Input Multiple



Output Technique Data Transmission followed by SISO, MISO and SIMO i.e. Signal Input and Single Output, Multiple Input Signal Output and Signal Input Multiple Output and lastly on MIMO i.e. Multiple Input Multiple Output. Prof (Dr) Bhaskar Gupta, Chairman, Electronics and Telecommunication (ET) Engineering Division of the Centre, deliberating on the theme opined on the justification for filling or joining the gaps of standardization towards improvement of Telecommunication and Information Service, justification of Broad Band Service, gradual improvements in different stages of generations etc. Earlier, Mr Sandip Kumar Deb, Chairman of the Centre, in his welcome address expressed his immense pleasure and thankfulness to the Chief Guest who in spite of his busy and hectic schedule, contributed his precious time to share his experience, opinions and views as a theme speaker. Mr Kalipada Das, Honorary Secretary of the Centre proposed the vote of thanks.

LOCAL CENTRES

Brahmapur

The Chief Guest on the occasion, Mr Braja Kishore Mohanty, Former Senior Manager, IRE, OSCOM Ltd., Chatrapur informed the august gathering about the day to day production and lastly dumping of mobile sets in



garbages creating a lot of pollutions with generation of wastes. Further he suggested for necessary remedial measures with regard to the above fact. The Chief Speaker, Mr Suresh Chandra Padhi, Divisional Engineer (ETR), BSNL, Brahmapur highlighted how artificial intelligence looks promising to improve our standard of life in future and its fruitfulness in bridging the standardization gap as well. Earlier, Mr Surendra Kumar Panigrahi, Honorary Secretary of the Centre welcomed the august gathering and requested Dr Arun Kumar Padhi, Chairman of the Centre to preside over the function. Mr Panigrahi also proposed the vote of thanks at the end of the programme.

Kanpur

The Chief Guest of the function, Prof Abhay Karandikar, Director, IIT Kanpur, speaking on the subject 'Frugal 5G: Towards Affordable Rural Wireless Broadband' stated that in the recent years, there has been a significant growth of cellular wireless communications, despite of that, a large part

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One Day Seminars/Workshops Conducted by Various Centres of IEI

STATE CENTRES

Karnataka

Karnataka State Centre of the Institution jointly with Department of Civil Engineering, Dayananda Sagar College of Engineering, Bengaluru organized One day



Workshop on 'Clean Water and Sanitation – Common Challenges and Collaboration' under the aegis of Environmental Engineering Division Board of IEI on March 29, 2019 at Bengaluru. Dr D Nagesh Kumar, Chairman, Centre for Earth Sciences, Department of Civil Engineering, Indian Institute of Science, Bengaluru inaugurated the Workshop. Dr K S Lkesh, JSS University, Mysore; Dr H S Dayananda, Vidyavardhaka College of Engineering, Mysore; Dr Venkatesh Babu D L, ACS College of Engineering; Dr C P S Prakash, Principal, Dayananda Sagar College of Engineering; Mr Jashmail Singh, Chairman of the Centre presided over the function.

Manipur

Manipur State Centre of the Institution organised One day Workshop on



'Pile Foundation' under the aegis of the Civil Engineering Division Board of IEI on May 26, 2019 at Imphal. Mr M Ibomcha Singh, Controller of Technical Education, Govt. of Manipur graced the occasion as the Chief

Guest and addressed the gathering. Mr Kh Temba Singh, Chief Engineer, PWD Manipur graced the function as the Guest-of-Honour; Mr N S Singh, Chairman of the Centre presided over the function.

Telangana

Telangana State Centre of the Institution organized a One day Seminar on

'Air Pollution and its Impact on Occupational Health and Safety at Work' under the aegis of Environmental Engineering Division Board of IEI on April 30, 2019 at Hyderabad. Dr Rajiv Sharma, former Chief



Secretary & Advisor to Government of Telangana graced the occasion as the Chief Guest. Mr B R V Susheel Kumar, Director of Mines & Geology, Govt. of Telangana graced the occasion as Guest-of-Honour and addressed the gathering. Dr P Narayana Rao, former Member, Andhra Pradesh Pollution Control Board briefed about the Seminar. Dr G Rameshwar Rao, Chairman of the Centre presided over the function.

Telangana State Centre of the Institution organized One day Seminar on



'Cool, Green and Power Roofs' under the aegis of Interdisciplinary Coordination Committee (ICC) of IEI on May 20, 2019 at Hyderabad. Mr Arvind Kumar, Principal Secretary, Municipal Administration & Urban Development, Government of Telangana, graced the occasion as the Chief Guest. Other dignitaries graced the function included Mr E Srinivasa Chary, Chairman, Energy Conservation Mission of IEI; Dr T K Sreedevi, Director, Municipal Administration, Government of Telangan; Mr B Kalyan Chakravarthy, Director General, Environment Protection Training and Research Institute, Hyderabad; Mr N Janaiah, Vice Chairman & Managing Director, Telangana State Renewable Energy Development Corporation Limited, Hyderabad; Ms Amala Akkineni, Chairperson, Blue Cross Hyderabad; Ms Savitri Singh, Additional General Manager, Energy Efficiency Services Ltd.; Dr G Rameshwar Rao, Chairman of the Centre presided over the function.

Telangana State Centre of the Institution organized a One-day Seminar on the topic 'Water Solutions for Smart Governance' under the aegis of Environmental Engineering Division Board



of IEI on June 4, 2019 at Hyderabad. Dr T M Gunaraja, President, IEI graced the occasion as the Chief Guest and inaugurated the Seminar. Mr Sisir Kumar Banerjee, Immediate Past President, IEI, also graced the function as the Guest-of-Honour and addressed the august gathering. Invited speakers delivered presentations on the occasion included Dr S M Subhani, Managing Director, NCPE Infrastructure India, Hyderabad; Dr M Satyanarayana, Executive Director, HMWS&SB; Mr K Krishna Murthy, Consultant, Murthy and Manyam, Hyderabad and Mr A K Chakravarti, President, EWS Division, Aarvee Associates, Hyderabad.

Telangana State Centre of the Institution organized a One-day Seminar on the topic 'Computer Ethics and Impact of Social Media on Human Society'



under the aegis of Computer Engineering Division Board of IEI on June 12, 2019 at Hyderabad. Mr Navin Mittal, Commissioner, Collegiate Education & Technical Education, Government of Telangana graced the

occasion as the Chief Guest and inaugurated the Seminar. Invited speakers delivered presentations on the occasion included Mr Pradeep Kumar Ramancharla, Registrar, IIIT Hyderabad; Dr (Ms) M Kalyani, Professor, Dept. of CSE, G. Narayanamma Institute of Technology and Science, Hyderabad and Dr A Jagan Mohan Reddy, Professor, Symbiosis Institute of Business Management Symbiosis International University, Hyderabad.

LOCAL CENTRES

Bareilly

Bareilly Local Centre of the Institution organized One day Seminar on 'Future of Cyber Security: Blockchain Technology' under the aegis of Computer

Engineering Division Board of IEI on May 6, 2019 at Bareilly. Mr Sunil Saxena, Director, C P G Security Pollution, Bareilly, graced the occasion as the Guestof-Honour. Mr Ankur Bhatnagar, Department of



Computer Science and Engineering, Rajshree Institute of Management and Technology, Bareilly graced the occasion and addressed the gathering. Mr S C Mehra, Chairman of the Centre presided over the function.

Coimbatore

Coimbatore Local Centre of the Institution in association with the Department of Textile Technology, PSG College of Technology, Coimbatore, organized One

day Seminar on 'Technology and Innovations in Technical Textiles' under the aegis of Textile Engineering Division Board (TXDB) of IEI on April 27, 2019 at Coimbatore. Prof Arunangshu Mukhopadhyay, Department of Textile Technology, NIT Jalandhar,



graced the occasion as the Chief Guest and delivered Keynote Address. Mr K V Gopalakrishnan, Technical Advisor, ELGI ULTRA Industries, Coimbatore was present as Guest-of-Honour. Earlier, Prof G Thilagavathi, Chairperson, TXDB of IEI welcomed the gathering. Dr H Ram Mohan, Honorary Secretary of the Centre proposed vote of thanks at the end of the program.

Durgapur

Durgapur Local Centre of the Institution organized One day Seminar on 'Communication Engineering: Future Scope and Challenges' under the aegis of Electronics & Telecommunication Engineering Division Board of IEI on May 7, 2019 at Durgapur. Prof H B Goswami, Council Member, IEI welcomed the august gathering. Resource persons namely. Dr P Dev. Dr

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of the world is still deprived of broadband connectivity. 'Using existing cellular wireless systems including Third Generation (3G) and Fourth Generation (4G) technology, there are significant challenges in providing broadband access which include high capital and operations expenditure



with low Average Revenue Per User (ARPU), lack of affordable backhaul, energy cost which is worsened by lack of reliable power supply and geographic accessibility including issues such as right of way', he added. Prof S N Singh,

Vice-Chancellor, MMMUT, Gorakhpur graced the occasion as the Guestof-Honor and addressed the gathering. Earlier, Prof C P Verma, Chairman, IETE Kanpur Centre welcomed the gusts and dignitaries. Prof J Ramkumar, Chairman of the Centre read the message received from General Secretary of International Telecommunication Union (ITU). Dr Pragya Agarwal, Hon'y Secretary of the Centre proposed the vote of thanks.

Nagpur

The Chief Guest and Keynote Speaker of the function, Mr Ashish Sanghi, Additional Chief Project Manager (Telecom), Metro Rail Projects, Nagpur, in his address briefed on how telecommunications plays an important role in Metro Rail and various telecommunication systems used in Metro Rail. 'All

Systems are interlinked with various interfacing which makes Metro Rail different from normal railway', he added. Mr Sanghi further stressed upon the need for standardization in Metro Rail system and different



standard organization of Telecommunication. He also directed to increase the u se of ITU-T recommendations, memberships & participation of developing countries and to increase participation in study groups, workshops and meetings in order to bridge the standardization gap. Earlier, Dr R L Shrivastava, Chairman of the Centre welcomed the august gathering. Dr M S Kadu, Honorary Secretary of the Centre proposed the vote of thanks. J Roy, Dr S Dhar and Dr Arindam Biswas presented their papers on the theme of the Seminar. Mr M K Biswal, Honorary Secretary of the Centre proposed vote of thanks at the end of the program.



Nashik

Nashik Local Centre of the Institution organized One day Seminar on 'Construction Materials Management on Project Sites' under the aegis of



Civil Engineering Division Board of IEI on May 29, 2019 at Nashik. Mr Ar H Masud Taj, Adjunct Research Professor and Contract Instructor, Azrieli School of Architecture & Urbanism graced the occasion as

Guest Speaker and addressed the gathering. Mr S S Mutha, Chairman and Mr A V Patil, Honorary Secretary of the Centre also graced the occasion.



IEI DIARY

Aerospace Engineering Division

One Day Seminar on "Aircraft Fatigue and Damage Tolerance"

Hosur, August 14, 2019

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

All India Seminar on **"Bluff Body Aerodynamics"** Kolkata, September 06-07, 2019

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

All India Seminar on "Issues and Challenges in Aviation Industry"

Jaipur, September 21-22, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [26]: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

One Day Seminar on "Emerging Technologies in Aerospace Engineering"

Tiruchirapalli, September 27, 2019 The Honorary Secretary, IEI, Tiruchirapalli Local Centre, BHEL Main Office Road, Tiruchirapalli 620014 [26: (0431) 2554285; Fax: 0431-2520383/2520775; e-mail: tiruchirapallilc@ ieindia.org]

Thirty-third National Convention of Aerospace Engineers on "Emerging Technologies in Aerospace Structures, Materials and Propulsion System"

Pune, November 16-17, 2019

The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [26: (020) 25533376 / 25520239 / 25530150; e-mail: punelc@ieindia. org]

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

Kanpur, November 9-10, 2020

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

Agricultural Engineering Division

Thirty-third National Convention of Agricultural Engineers on "Commercial Crops Processing and Value Addition"

Agartala, August 10-11, 2019

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The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P. O. Kunjaban, PB No 139, Agartala 799 006 [2011] (0381)2304700; Fax: 0381-2304700; e-mail: tripurasc@ieindia.org]

All India Seminar on "Sustainable Agrifood Systems"

Hosur, August 29-30, 2019

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

National Conference on "Smart Village and Agriculture"

Bengaluru, February 07-08, 2020 The Honorary Secretary, IEI, Karnataka State

Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [22: (080) 22264698; Telefax: 080-22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

Architectural Engineering Division

All India Seminar on "Structural Aspects of Architectural Engineering"

Jaipur, August 17-18, 2019 The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [27: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

All India Seminar on **"Architecture for Sustainable Development"**

Raipur, September 14-15, 2019 The Honorary Secretary, IEI, Chhattisgarh State Centre, National Institute of Technology Campus, G E Road, Raipur 492010 [254625; e-mail: chattisgarhsc@ieindia.org; website: www.ieicg.org]

International Conference on **"Architectural Innovations: Engineering, Technology and Materials"** Jaipur, November 27-29, 2019 The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [**2**: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

Chemical Engineering Division

All India Seminar on "Biofuels towards Energy Security"

Gorakhpur, August 5-6, 2019

The Honorary Secretary, IEI, Gorakhpur Local Centre, 176 Siddharth Nagar Colony, Opp GDA Centre, Bharwaliya Buzurg, Taramandal, Gorakhpur 273017 [e-mail : gorakhpurlc@ieindia.org]

One Day Seminar on "**Chemical and Biosafety**" Kolkata, August 24, 2019

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

Thirty-fifth National Convention of Chemical Engineers on "**The Food-Energy-Water (FEW) Nexus- Challenges for Chemical Engineers**"

Guwahati, September 06-07, 2019

The Honorary Secretary, IEI, Assam State Centre, Panbazar Overbridge, East Lane, Guwahati 781001 [26: (0361) 2548742; Fax: (0361) 2630368; e-mail: assamsc@ieindia.org; website: ieiasc.org]

All India Seminar on "Natural Gas-Fuel for Future"

Ranchi, September 13-14, 2019

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

All India Seminar on "Chemical and Biochemical Process Intensifications"

Kolkata, October 25-26, 2019

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [262: (033) 22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.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@ gmail.com; website : ieidurgapurlc.org]

Civil Engineering Division

All India Seminar on **"Evolving Trends in Structural Monitoring and Rehabilitation"** Coimbatore, August 09-10, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [28: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

All India Seminar on "**Cyber Physical Systems for Green Buildings in Smart Cities**" Chennai, August 21-22, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [2: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

Thirty-fifth National Convention of Civil Engineers on "Restoration and Maintenance of Structures and Water Bodies for Sustainability",

Ahmedabad, September 01-02, 2019 The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Near Law Garden, Law College Road, Ahmedabad 380006 [22: (079) 2640 0811; Telefax: (079) 2656 1825; e-mail: gujaratsc@

All India Seminar on "Digital Technologies in Surveying and Mapping"

ieindia.org; website: www.ieigujarat.org]

Hyderabad, October 15-16, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvarya Bhavan, Khairatabad, Hyderabad 500004 [22: (040) 23314969; e-mail: telanganasc@ieindia.org; website: www.ieitsc. org]

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

International Conference on "Building the Disaster Resilient Society in BIMSTEC Countries: Roll of Nations"

Agartala, February 28-March 01, 2020 The Honorary Secretary, IEI, Tripura State Centre, Pandit Nehru Complex, Near Tripura Housing Board, P.O.: Kunjaban, PB No. 139, Agartala 799006, Telefax: 0381-2304700; e-mail: tripurasc@ieindia.org]

International Conference on "Disaster Mitigation and Management in Global Context" Bhubaneswar, March 20-21, 2020

The Honorary Secretary, IEI, Odisha State Centre, Sachivalaya Marg, Unit-IV, Bhubaneswar 751001 [26: (674) 2390291; Telefax : (0674)2390630; e-mail: odishasc@ieindia.org; website: www. ieiorissa.org]

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

Ranchi, September 8-9, 2020

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

Computer Engineering Division

International Conference on "**Opportunities and Challenges of Blockchain Technology**" Chennai, September 14-15, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [20: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

All India Workshop on **"Software Testing, Audit** and Quality Assurance using Open Source Tools" Chandigarh, January 23-24.2020

The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg, Sector 19-A, Chandigarh 160019 [20172) 2775418; Fax: (0172) 2540133; e-mail: pcsc@ieindia.org]

Thirty-third National Convention of Computer Engineers on "Applied Computational Intelligence and Informatics"

Jaipur, February 15-16, 2020

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [2]: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

Electrical Engineering Division

Thirty-fifth National Convention of Electrical Engineers on **"Storing Energy for a Sustainable Future: Future Energy in any Isolated World"** Chennai, November 8-9, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [22: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

International Conference on "**Impact of Changing** Energy-mix in Power Sector" Kolkata, November 23-24, 2019 The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [2013] (033) 22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

All India Seminar on "Policies of Governments, Paradigms Challenges and Opportunities of Sustainable Electrical Power in India" Hyderabad, January 11-12, 2020

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [22: (040) 23314969; e-mail: telanganasc@ieindia.org; website: ieitsc.org]

All India Seminar on **"Design of Efficient Power System by Applications of Optimization Techniques**"

Chandigarh, January 15-16, 2020 The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg, Sector 19-A, Chandigarh 160019 [2: (0172) 2775418; Fax: (0172) 2540133; e-mail: pcsc@ieindia.org]

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

Hyderabad, February 01-02, 2020 The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [22: (040) 23314969; e-mail: telanganasc@ieindia.org; website: ieitsc.org]

Electronics & Telecom. Engineering Division

All India Workshop on "Optical Fibre Technology and Photonic Integrated Devices for Communication & Industrial Application" Tiruchirappalli, August 09-10, 2019

The Honorary Secretary, IEI, Tiruchirappalli Local Centre, BHEL Main Office Road, Tiruchirappalli 620014 [22: (0431) 2554285; Fax: (0431) 2520383/2520775; e-mail: tiruchirapallilc@ ieindia.org]

All India Seminar on **"Overview on Image Processing and Cyber Security"**

Hyderabad, August 10-11, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvarya Bhavan, Khairatabad, Hyderabad 500004 [22: (040) 23314969; e-mail: telanganasc@ieindia.org; website: www.ieitsc.org]

International Conference on "Electronics & Communications, Renewable Energy and IOT-Vision 2040"

Chandigarh, September 07-08, 2019 The Honorary Secretary, IEI, Punjab & Chandigarh State Centre, Madhya Marg, Sector 19-A, Chandigarh 160019 [2: (0172) 2775418; Fax: (0172) 2540133; e-mail: pcsc@ieindia.org]

All India Seminar on "Artificial Intelligence: An Application Perspective"

Coimbatore, September 05-06, 2019 The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [22: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

All India Seminar on "Artificial Intelligent Systems and Emerging Technologies"

Bareilly, September 27-28, 2019 The Honorary Secretary, IEI, Bareilly Local Centre, 270, Comphor Estate Colony, Near Camphor Hospital, C B Ganj, Bareilly 243502 [Mobile: 9634953691; e-mail: bareillylc@ieindia.org]

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

Kurukshetra, October 19-20, 2019

The Honorary Secretary, IEI, Haryana State Centre, E-13, Ashoka Nursery, Kunjpura Road, Karnal 132001 [22: (0184) 2266176, e-mail: haryanasc@ ieindia.org]

Environmental Engineering Division

All India Seminar on "Environmental Sustainability of the Iron and Steel Industry through New Technologies"

Ranchi, August 10-11, 2019

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

Thirty-fifth National Convention of Environmental Engineers on "Green Technology for Clean & Green India"

Bangalore, August 17-18, 2019

The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [27: (080) 22264698; Telefax: (080) 22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

All India Seminar on "Kerala's Water Woes – Challenges and Mitigation"

Thiruvananthapuram, September 19-20, 2019 The Honorary Secretary, IEI, Kerala State Centre, Visvesvaraya Bhavan, Opposite Kanakakunnu Palace, Thiruvananthapuram 695033 [22: (0471) 2322991 / 2982102; Telefax : (0471) 232992; e-mail: keralasc@ieindia.org; website: www.ietvm.org]

All India Seminar on "Solid Waste Management: An Industrial Perspective"

Bokaro Steel City, September 21-22, 2019 The Honorary Secretary, IEI, Bokaro Steel City Local Centre, Abhiyanta Bhawan, Sector V-A, Bokaro Steel City 827006 [22: (06542) 267227/288972; e-mail: bokarolc@ieindia.org]

All India Seminars on **"Artificial Recharge of Ground Water and its Role in Water Management"** Ranchi, November 09-10, 2019

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

International Conference on "Environmental Degradation: Key Challenges to Sustainable Development"

Hyderabad, November 22-24, 2019

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All India Seminar on **"Sustainability on the Conversion of Coal and Hydrocarbons"** Puducherry. December 12-13, 2019

The Honorary Secretary, IEI, Puducherry State Centre, 63 N S C Bose Salai, PWD Campus, Ground Floor, Circle - I Office, Puducherry 605001 [Mobile : 9443748471; e-mail: puducherrysc@ ieindia.org]

Thirty-sixth National Convention of Environmental Engineers on "**Waste Recycling and Reuse**" Kochi, August 07-08, 2020

The Honorary Secretary, IEI, Kochi Local Centre, Govt. Homeo Hospital Road, Near Pullepady Railway Over Bridge (East Side), P.O. Kaloor, Kochi 682017 [2013]: (0484) 2403838 /3993 e-mail: kochilc@ieindia.org; website: www.ieikochi.org]

Marine Engineering Division

All India Seminar on "Dredging Technology in Remediation and Environmental Protection Application"

Jaipur, August 03-04, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [2]: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

Thirty-third National Convention of Marine Engineers on the theme **"A Safe and Environment Friendly Maritime Sector: Vision for Future"** Kochi, August 30-31, 2019

The Honorary Secretary, IEI, Kochi Local Centre, Govt. Homeo Hospital Road, Near Pullepady Railway Over Bridge (East Side), P.O. Kaloor, Kochi 682017 [22: (0484) 2403838 /3993; e-mail: kochilc@ieindia.org; website: www.ieikochi.org]

Mechanical Engineering Division

All India Seminar on "Scope and Opportunity of Hydropower and Wind Power in NER"

Mizoram, August 02-03, 2019

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

All India Seminar on **"Reverse Engineering"** Kanpur, August 24-25, 2019

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

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

Hosur, September 04-05, 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]

All India Seminar on "Challenges and Research Opportunities for Electrical Mobility Vehicles in India"

Coimbatore, September 26-27, 2019 The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [26: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

All India Seminar on "Tribology as Energy Saver for Mining & Heavy Industries"

Ranchi, September 28-29, 2019

The Honorary Secretary, IEI, Jharkhand State Centre, Engineer Bhawan, Nepal Kothi Campus, Doranda, Ranchi 834002 [22: (0651) 2491344; e-mail: jharkhandsc@ieindia.org; website: www. ieijsc.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 [22: (0381) 2304700; Fax: (0381) 2304700; e-mail: tripurasc@ieindia.org]

Thirty-seventh National Convention of Mechanical Engineers on **"Application of IoT and Big Data in Manufacturing and Associated Field"** Delhi, September 10-11, 2021

The Honorary Secretary, IEI, Delhi State Centre, Engineers Bhawan, 2 Bahadurshah Zafar Marg, New Delhi 110002 [23: (011) 23379052 / 23379948; e-mail: delhisc@ieindia.org; website: www.ieidsc.in]

All India Seminar on "Digital Manufacturing Towards Industry 4.0"

Bangalore, October 18-19, 2019

The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [22: (080) 22264698; Telefax: (080) 22256191; e-mail: karnatakasc@ieindia. org; www.ieiksc.org]

Metallurgical & Materials Engg. Division

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

Kolkata, November 01-02, 2019 The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [27: (033)22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

Thirty-third National Convention of Metallurgical & Materials Engineers on "Climate Responsive Technologies vis-a-vis Iron and Steel Production Scenario"

Durgapur, January 17-18, 2020 The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B-Zone, Durgapur 713205 [Telefax: (0343) 2564770; e-mail: durgapurlc@ gmail.com; website : ieidurgapurlc.org]

Mining Engineering Division

International Conference of Mining Engineers on "Mining – Present and Future : Investments, Issues and Challenges"

Hyderabad, October 23-25, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [22: (040) 23314969; e-mail: telanganasc@ ieindia.org; website:ieitsc.org]

Production Engineering Division

All India Seminar on **"Application of Green** Manufacturing Technology in Mechanical Processing"

Bangalore, September 13-14, 2019

The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [26: (080) 22264698; Telefax: (080) 22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

All India Seminar on "Recent Trends in Automation & Digital Manufacturing"

Hyderabad, September 20-21, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004 [22: (040) 23314969; e-mail: telanganasc@ ieindia.org; website:ieitsc.org]

All India Workshop on "Theory and Practice of Sustainable Manufacturing"

Tiruchirappalli, September 20-21, 2019

The Honorary Secretary, IEI, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirapalli 620014 [26: (0431) 2554285 / 2574022; e-mail: tiruchirapallilc@ieindia.org]

All India Workshop on "Best Practices and Applications of TQM in Industry and Academia" Bangalore, October 11-12, 2019

The Honorary Secretary, IEI, Karnataka State Centre, No. 3, Dr. B R Ambedkar Veedhi, Bangalore 560001 [26: (080) 22264698; Telefax: (080) 22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

All India Seminar on "Innovative Production Systems"

Jaipur, November 02-03, 2019

The Honorary Secretary, IEI, Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015 [28: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

Textile Engineering Division

International Conference on "Innovative Approaches for the Development of Sustainable Textile Products and Processes"

Kolkata, February 07-08, 2020

The Honorary Secretary, IEI, West Bengal State Centre, 8 Gokhale Road, Kolkata 700020 [2013] (033) 22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

Thirty-third National Convention of Textile Engineers on "Two Decades of Nanotechnology in Textile: Progress and Prospects"

I.E.I NEWS July 2019

52nd ENGINEERS' DAY

Theme: "Engineering for Change"

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 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 52nd Engineers' Day will be celebrated all over the country and the Council of the Institution has selected the theme as "Engineering for Change" to mark the occasion.



Bharat Ratna Sir M Visvesvaraya

'Change' is the most important challenge faced by the engineers of a developing India. They are further being challenged by the changing climate and ever increasing population. Extensive research is being carried out in all engineering disciplines to cope with such emerging challenges. Information and communication technology and Electronics are playing

a key role in several initiatives such as Digital India, Make in India, Startup India and Smart Cities. Keeping in view of the rapid transformation and innovation at international level, engineers of our country should be prepared to cope-up with the changes. The complexity further increases

> due to environmental concerns and actions needed for sustainable development. Engineers now cannot restrict themselves to a particular discipline. Good understanding of interdisciplinary innovations, design, planning and undertaking of researches and projects on that is the need of the hour.

> Renewable energy has become the key notion of all Electrical as well as Environmental engineers as we have to move away from fossil fuel to save the environment. Wind energy and solar PV energy are now finding place amidst the conventional energy supply of the nation and interconnectivity of those with the main grid is being looked into. To facilitate the mobility of the huge population of our country, 'Green transport' is required to be implemented for all mass transport system.

Therefore the theme "Engineers for Change" calls upon the engineers to be the harbinger for the change by exploring the disruptive technologies in all engineering sectors to enable India to lead the crusade of mitigation of climate change.

The theme 'Engineering for Change' is chosen for Engineer's Day 2019 celebrations to address all these aspects.

Contd. from page 16

Ahmedabad, February 21-23, 2020

The Honorary Secretary, IEI, Gujarat State Centre, Bhaikaka Bhavan, Near Law Garden, Law College Road, Ahmedabad 380006 [26: (079) 26400811; Telefax : (079) 26561825; e-mail: gujaratsc@ ieindia.org; website : www.ieigujarat.org]

Interdisciplinary

All India Seminar on "Combating Climate Change – An Integrated Action Plan"

Imphal, August 04-05, 2019

The Honorary Secretary, IEI, Manipur State Centre, Government Polytechnic Campus, Takyel, Imphal, Manipur 795001 [e-mail: manipursc@ ieindia.org]

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

Coimbatore, August 30-31, 2019

The Honorary Secretary, IEI, Coimbatore Local Centre, PSG College of Technology Campus, Peelamedu, Coimbatore 641004 [26: (0422) 2580733; e-mail: coimbatorelc@ieindia.org]

All India Seminar on "Green Energy Technologies for Sustainable Environment"

Pune, October 12-13, 2019 The Honorary Secretary, IEI, Pune Local Centre, Abhiyanta Bhavan, 1332, J M Road, Shivajinagar, Pune 411005, Maharashtra [26: (020) 25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

International Conference on "Innovative Engineering for Smart Cities, High Speed Transport and Infrastructure"

Chennai, November 18-20, 2019 The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chepauk, Chennai 600005 [22: (044) 25360614 / 25369433; e-mail: tnsc@ieindia.org; website: www.ieitamilnadu.org]

All India Workshop on **"Opportunities for Industry 4.0 Applications in Indian Industries"** Tiruchirappalli, January 03-04, 2020

The Honorary Secretary, IEI, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirapalli 620014 [2022; e-mail: tiruchirapallilc@ ieindia.org]

Overseas Chapter

One Day International Seminar on "Disruptive Technologies: Shaping Future Innovations"

Mauritius, August 21, 2019; Organised under aegis of FEIAP Committee on ICT; Hosted by The Institution of Engineers, Mauritius; Knowledge Partner - The Institution of Engineers (India)

The Honorary Secretary, The Institution of Engineers, Mauritius [26: (+230) 4543065; e-mail: iem@ intnet.mu; website: www.iemauritius.com

WEFO-CIC Seminar on 'Smart City-The Evolution of Urban Development'

Myanmar, August 29, 2019

The WEFO Committee on Engineering for Information & Communication, hosted by The Institution of Engineers (India) [22: (033) 40106206; e-mail: intnl@ieindia.org]

Centenary International Engineering Congress on "Smart Engineering: State-of-Art Technologies in Oil & Gas and Infrastructure Development"

Doha, September 26-27, 2019 The Honorary Secretary, IEI, Qatar Overseas Chapter, P.O. Box. No. 18523, Doha, Qatar [Telefax : (+974) 4427673; e-mail: ieiqatar@ieindia.org]

July 2019_____17

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

Jaipur, November 9-10, 2019

Theme: Industry 4.0 – Transforming Industrial Productivity

Technical papers are invited on following sub-themes :

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

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

Organized by: The Institution of Engineers (India)

Hosted by: Rajasthan State Centre

For further information, please contact :

The Organising Secretary (Convocation 2019) The Institution of Engineers (India), Rajasthan State Centre, Gandhi Nagar, Tonk Road, Jaipur 302015, Rajasthan Phone : (0141) 2706327; Telefax : (0141) 2700413 E-mail : ieiconvocation2019@gmail.com

50TH All India **Student Design** Competition - 2019

National Design and Research Forum (NDRF) of The Institution of Engineers (India) (IEI) 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 part of this, NDRF conducts annually national level design competition for students. The competition is intended to give students an opportunity to exhibit their individual engineering skills and talents and earn recognition, while promoting engineering design and research.

In keeping with this, NDRF is happy to announce 50th All India Student Design Competition - 2019. The competition is open to students studying in final/pre-final year leading to BE / B.Tech / ME / MTech /MS or equivalent courses in engineering or have passed section 'A' Examinations of the IEI.

Entries are invited in the following disciplines from the student community. The Last date for receiving entries is 10 August 2018.

Aerospace Engineering

 Agricultural Engineering
 Architectural Engineering
 Chemical Engineering
 Civil Engineering
 Computer

Engineering
Electronics
Telecommunication Engineering
Electrical Engineering
Environmental Engineering
Marine Engineering
Mechanical Engineering
Metallurgical and Materials Engineering
Mining Engineering
Textile Engineering
Production Engineering

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



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July 2019

34th INDIAN ENGINEERING CONGRESS

Hyderabad, December 27-29, 2019

Theme:

Societal Engineering – an Imperative for Nation Building

Organized by:

The Institution of Engineers (India)

Hosted by: Telangana State Centre

Contact : Organising Secretary, 34th Indian Engineering Congress, The Institution of Engineers (India), Telangana State Centre Visvesvaraya Bhavan, Khairatabad, Hyderabad 500004

Phone : 040-23314969; e-mail : telanganasc@ieindia.org; website : www.ieitsc.org

To Contribute Papers, please follow the link :

https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers

IEI Industry Excellence Award 2019 Request for Participation

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

Applications are invited under following categories

(a) Engineering Manufacturing & Processing (EMP)

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

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

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

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

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

(b) Engineering Services and Consultancy (ESC)

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

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

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

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

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



NEWS

luly 2010

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.

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

4A Manicktala Main Road, Kolkata 700054

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