



IEI NEWS



September 2020

Green Building with
Integrated Design
Approach

03

Management Development Programme
on Post-COVID 19 Supply Chain Collapse:
Challenges and Solutions

04

Waste Water Treatment for
Sustainable Development

05

Advances in Design,
Manufacturing and
Thermal Engineering

06

One Day Seminars/
Workshops conducted by
Various Centres of IEI

08

A CENTURY OF SERVICE TO THE NATION

Volume 27

Number 6

IEI Centenary Technical Webinar

Draft EIA Notification 2020: Highlights and Challenges

The Institution of Engineers (India) has introduced cloud based event hosting under the nomenclature 'Centenary Technical Webinar' powered by National Skill Development Forum (NSDF) of IEI, Shimla aimed at rendering more effective and flexible services to its members involving latest digital technologies. To this end,



the Environmental Engineering Division Board (ENDB) of the Institution hosted the maiden Centenary Technical Webinar on the theme **Draft EIA Notification 2020: Highlights and Challenges** on 06 August 2020.

Mr Sharath Kumar Pallerla During the webinar session, eminent Panelists, namely, Mr Sharath Kumar Pallerla, Director, Ministry of Environment, Forest and Climate Change, Government of India, Dr P G



Dr P G Sastry

Contd. on page 2

IEI Centenary Webinar

Smart Learning: A New Paradigm

The fourth Webinar of the IEI Centenary Webinar Series was organized as an International Webinar on the theme **Smart Learning: A New Paradigm** on 10 August 2020 under the aegis of Federation of Engineering Institutions of Asia and Pacific (FEIAP), Standing Committee on Information and Communication Technology (ICT). Er Narendra Singh, President, IEI and Chair, FEIAP-ICT Committee in his opening remarks explained the significance of digitalized learning process, when the students have hardly any access to the conventional learning during the pandemic situation. Maj Gen (Dr) S Bhattacharya, VSM (Retd), Secretary & Director General, IEI moderated the session.

Ir Ong Ching Loon, President, The Institution of Engineers, Malaysia, in his



Ir Ong Ching Loon

address mentioned that smart learning enable learners to digest knowledge and skills more effectively, efficiently and conveniently. He further stated that the ongoing global movement towards smart learning marked an important paradigm shift in modern learning process and in



Dr Mohd Rizal Arshad

today's digital age, rising of technologies in learning space results broader digital

Contd. on page 2

From the President's Desk.....



When the demand on our natural resources exceeds a certain threshold, it leads to a global ecological threat. Rapid deforestation, overgrazing, draining of water bodies, food insecurity, extinction of species etc all contribute towards climate change. The continuously changing dimensions in climate due to greenhouse gas emissions are a matter of grave concern, wherein the atmospheric concentrations of Carbon di oxide, Methane and Nitrous oxide have increased to unprecedented levels. Moreover, seasonal variation in temperature results in interactions between seasonal and climate energy cycles, that in turn leads to an increasing rise in tropical cyclones. The Paris Agreement 2015 of United Nations Framework Convention of Climate Change represented a historic step towards reimagining a fossil free future for our planet, wherein all parties put forward their best effort through nationally determined contributions to strengthen the effort further. Goal No 13 of UN Sustainable Development Goals (SDGs) recommends urgent actions to save the lives and livelihood to address both climate and pandemic and climate emergency. NITI Aayog, Government of India, endorsed the SDG Goal 13 Statement and noted that each of the last three decades is successively warmer and over the 21st century, the world's average temperature is projected to rise further. It is therefore time to promote applications of clean and renewable energy, enhanced plantation, preservation of water bodies and wild life and so on. Besides enhanced application of solar and wind energy, electric vehicles with light weight lithium ion batteries and such like it is also important to facilitate more carbon capture through biomass plantation and prevent soil erosion. Nuclear power generation is another way to mitigate climate change by producing electricity free from carbon emissions.

The United Nations has designated the first Monday of October of every year as World Habitat Day to focus on the basic right of all for adequate shelter and also intended to remind the world that we all have the power and the responsibility to shape the future of our cities and towns. I request all State and Local Centres to observe the World Habitat Day and spread the awareness among all sections of the society about the need for preserving our natural resources.

Draft EIA Notification 2020: Highlights and Challenges

Contd. from page 1

Sastry, Former EAC Chairman, Hydroelectric Projects, Mr N Ramadoss, Consultant, Industrial Waste Management Association, Tamilnadu and Mr D R Kumaraswamy, Former Senior Environment Officer, Karnataka State Pollution Control Board presented their views on the draft notification.

Mr S K Pallerla, in his Keynote Lecture spoke about the evolution of EIA (Environment Impact Assessment) and the elaborate consultation exercises involving different stakeholders and state governments in preparing this draft EIA Notification 2020. He spoke on the recent policy reforms in mining, directions received from courts and National Green Tribunal, policy research on international practices on EIA citing examples from China, Russia, Japan, Portugal, South Africa, Turkey and European Union including a comparison with 54 countries. He discussed the key changes proposed in EIA 2020 encompassing issues like comprehensiveness, rationalization of project categorization, fast track Environmental Clearance (EC) for small projects, soaps for modernization, introduction of instant Terms of Reference (ToR), new channels and rationalization of public consultation, Validity of EC, ToR in alignment with other acts, dealing with violations on principles of 'polluter pay' replacing the existing regulatory vacuum, entertaining application through 'PARIVESH' and SoPs.



Mr N Ramadoss

The evolutionary aspect of EIA/Environmental Management Plan (EMP) for River Valley & Hydropower Projects was elucidated by Dr P G Sastry sharing his wide repertoire of experience in this domain with sustainability at the core. He cited three scientific principles of sustainability enabling nature to sustain a huge variety of life on the earth for billions of years withstanding hostile environmental conditions.



Mr D R Kumaraswamy

Mr D R Kumaraswamy shared EIA carried out for a road project in the state of Karnataka which involves displacement of villages, meandering historical monuments/relics, vegetation, understanding land use pattern along the entire route, number of social structure affected, topography, geology, seismicity, embankment usage etc. Mr N Ramadoss mentioned that draft EIA 2020 is a comprehensive one and has been prepared keeping in mind the interest of all stakeholders. He mentioned the challenges faced by certain genre of industries like petrochemical involved in development

of application oriented products and the imbroglia arising while obtaining environmental clearance from multiple statutory bodies as their product clearance comes under the purview of several such bodies. He endorsed the introduction of single window system for obtaining clearance in all the states and the need for a more structured and effective public hearing.



Dr M Velan

Er Narendra Singh, President, IEI, while delivered the Presidential Address sharing his experience in this domain. Earlier, Dr M Velan, Chairman, Environmental Engineering Division Board and Council Member, IEI spoke briefly about the theme.

The event was attended by 1065 participants and based on the outcome of the Panel Discussion, comments were forwarded under the signature of President, IEI to Mr Rameshwar Prasad Gupta, Secretary, Ministry of Environment, Forest and Climate Change, Government of India for consideration before finalization of the draft EIA 2020 Notification.

The important issues forwarded to Ministry for consideration include the following:

Post-Facto Approval: The new draft allows for post-facto approval for projects which means that the clearances for projects can be awarded even if they have started construction or have been running phase without securing environmental clearances.

Public Consultation Process: Reduction of the time period from 30 days to 20 days for the public to submit their responses during a public hearing for any application seeking environmental clearance.

Compliance Report Issue: The new draft requires the promoter to submit a report only once every year instead of once in every six months.

Classification of Strategic Projects: Even though this clause is available in the earlier notification, now people are raising apprehension on this clause.

Reporting of violations: In this current notification, violations can only be reported suo motu by the project proponent, or by a government authority, appraisal committee, or regulatory authority and no rights given to Public.

Besides, comments received from Members, ENDB and queries from Corporate Members of The Institution of Engineers (India) were also forwarded to the Ministry.

The concluding remarks of the event were delivered by Dr M Velan, Chairman, ENDB, IEI. Mr Suneel Grover, Chairman NSDF, IEI delivered the vote of thanks.

Smart Learning: A New Paradigm

Contd. from page 1

transformation, which results significant impact on engineering aspects.

Panelist during the Session, Dr Mohd Rizal Arshad, Deputy Vice Chancellor (Academic & International) Universiti Malaysia, Perlis delivered his address on the topic 'Smart Learning: A New Paradigm Post COVID-19' and focused on globalised online learning through adoption of top ten digital learning skills, namely cognitive flexibility, negotiation, service orientation, judgment and decision making, emotional intelligence, complex problem solving, critical thinking, creativity, people management and coordinating with others. Dr Arshad further explained smart learning as intelligent education, which include new educational context focusing on the applications of technological advancements and as a new educational



Prof Saikat Maitra

paradigm, smart learning based its foundations on smart devices and intelligent technologies. The speaker introduced Transformative Learning in higher education as a conglomeration of future ready curriculum, innovative delivery, alternative assessments and redesign of learning spaces, that leads to value infused future proof talent. He also explained the significance of virtual learning and introduced the concept of Smart University, that comprises cloud platforms, institutional repository, embedded technology etc. He further mentioned different aspects of smart teaching learning environment, that include synchronized teaching, easy access to learning materials, ease to overcome digital constraints, adaptability of the contents, teacher-learner interaction through ubiquitous computing devices, recommendation of digital learning strategies and overcoming the challenges to ensure the accessibility of each student to the online teaching

Contd. on page 5

Green Building with Integrated Design Approach

Faridabad Local Centre of the Institution, in association with Indian Green Building Council (IGBC) and The Associated Chambers of Commerce and Industry (ASSOCHAM) organized IEI Centenary Technical Webinar on the theme **Green Building with Integrated Design Approach** on 29 August, 2020 under the aegis of Architectural Engineering Division Board (ARDB), IEI. Four eminent Panelists during the session, Mr I S Chauhan, Architectural



Mr I S Chauhan

& Structural Consultant, Mr Inderdeep Singh Oberoi, Director, A D Global Synergies Private Limited, Mr Ashish Rakheja, Chairman, IGBC Technical Committee & Managing Partner, AEON Integrated Building Design Consultants and Mr Neeraj Arora, Senior Director & Head, ASSOCHAM shared their views and expertise with the learned audience. Mr Kuldip Raj Gupta, Honorary Secretary, Faridabad Local Centre, IEI delivered the welcome address. Mr I S Chauhan, in his Lecture, elaborated that it is very easy to implement the integrative design process but it really depends on how willing people are to begin a change process. He explained about the process of green building and certifying green buildings depending upon the type, size, importance, utility and jurisdiction. Mr I S Oberoi, while delivered his address on the topic 'Building with Earth for Sustainable Habitat', explained that sustainable development is maintaining a delicate balance between the human needs to improve lifestyles and feeling of well being



Mr Inderdeep Singh Oberoi

on one hand and preserving natural resources and ecosystem in other. He quoted it with a Sanskrit shloka stating that "Earth is my mother and I am her son" and further elaborated modern sustainability initiatives call



Mr Neeraj Arora

for integrated and synergistic design for new construction. Mr Ashish Rakheja delivered his address on the topic 'Integrated Design Process & High Performance Buildings' and briefly introduced about IGBC (Indian Green Building Council) stating that more than 90% of the green buildings in India are facilitated by IGBC. He elaborated about net zero building which aim to reach a regenerative future and focus on four principal areas, i.e. Net Zero Energy, Net Zero Water, Net Zero Waste, Net Zero Carbon. Mr Neeraj Arora, in his address briefly introduced about the roles and responsibilities of ASSOCHAM, stating that ASSOCHAM has taken a green initiative to care for the Mother Earth and to compliment in India's Sustainability Movement and constitution of a Council that executes the GEM Sustainability Certification Program with the objective to promote environment friendly green building design & construction. He further elaborated about Green Rating Tool that are also known as Certification and are used to assess and recognize buildings which meet certain green requirements or standards. Mr Kuldip Raj Gupta, Honorary Secretary, Faridabad Local Centre, IEI proposed the vote of thanks.



Mr Ashish Rakheja

Cyber Security: A Critical Skill to Protect Your Business

West Bengal State Centre of the Institution organized IEI Centenary Technical Webinar on the theme **Cyber Security: A Critical Skill to Protect Your Business** on 21 August, 2020 under the aegis of Computer Engineering Division Board (CPDB), IEI. Four eminent Panelists graced the function with



**Padma Shri
Prof Ajoy Kumar Ray**

their extremely enlightening and informative deliberations, namely; Padma Shri Prof Ajoy Kumar Ray, Former Director, Indian Institute of Engineering, Science & Technology, (IIST) Shibpur and Former Director, School of Medical Technology, IIT Kharagpur, Mr Debkumar Roy, Associate Director, Cognizant Technology Solutions, Kolkata, Mr Koushik Nath, Cyber Security Solution Architect, Cisco Systems, Kolkata and Mr Rajiv Bhatnagar, Cyber Security Partner, Khaitan & Khaitan. Mr Nirupam Sen, Business Head, British Standard Group moderated the session. Prof Ray, in his Keynote speech, explained the basics of cyber security systems and various cyber attacks that the intruders generally adopt. According to him, organizations transmit sensitive data across networks in the course of doing businesses, and cyber security describes the discipline dedicated to protect that information. Mr Debkumar Roy explained various types of cyber threats, mechanism of their identifications and the detection strategies of these threats. Mr Roy, in his address stressed on the development of common sense in the form of awareness for all cyber activities, which results further development of skills. Mr Roy mentioned that all should be more vigilant about the attacks and analyse the logins and take necessary precautions during business transactions. While deliberating on



Mr Debkumar Roy

the cyber security trends and its analysis, Mr Koushik Nath explained four



Mr Koushik Nath

key trends in cyber security, which are going to shape the cyber security industry in 2020 and beyond. Mr Nath opined further that cyber security will also be continuously challenged by Digital Transformation, Distributed Cloud, IoT and Work from home (WFH), while this has been aggravated in this Covid-19 pandemic situation and recommended to acquire skill for safeguarding business transactions. Mr Rajiv Bhatnagar explained the legal issues of cyber attacks on business and personal transactions and mentioned that Government of India has introduced Cyber Law to safeguard the losses and damages occurs due to this malicious attacks on business transactions. Mr Nirupam Sen, while moderated the Webinar Session, mentioned that the Webinar has provided an understanding of cyber-attacks on business and what skill should be required to support prevention, detection and, most important, business recovery if such an attack occur. Earlier, Mr Sandip Kumar Deb, Chairman, West Bengal State Centre and Council Member, IEI welcomed the audience. Mr Rabindranath Lahiri, Special Invitee, CPDB, IEI was present during the session and addressed the participants. Mr Nirmal Das, Chairman, Computer Engineering Divisional Sub-Committee, West Bengal State Centre, IEI mentioned the significance of Cyber Security. Mr Kalipada Das, Honorary Secretary, West Bengal State Centre, IEI proposed the vote of thanks.



Mr Rajiv Bhatnagar

Management Development Programme on Post-COVID 19 Supply Chain Collapse: Challenges and Solutions

West Bengal State Centre of the Institution organized IEI Centenary Technical Webinar on the theme **Management Development Programme on Post-COVID 19 Supply Chain Collapse: Challenges and Solutions** on 23 August, 2020 under the aegis of Production Engineering Division Board (PRDB), IEI. Three eminent Panelists during the session, Prof (Dr) Pradip Kumar Ray, Dean, Vinod Gupta School of Management and Professor, Department of Industrial & Systems Engineering, IIT Kharagpur, Dr Gautam Sengupta, Vice Chancellor, Techno India University, West Bengal and Prof (Dr) S N Ray, Former Director, Indian Institute of Social Welfare and Business Management enlightened the audience with their thought provoking speech. Prof (Dr) Bijan Sarkar, Production Engineering Department, Jadavpur University, the Convener during the function, in his opening remarks briefed the audience about the appropriateness of theme of the Webinar in post pandemic era and explained the significance of supply chain, the paradigm shift from mass production to mass customization, concept of Customer Order Decoupling Point (CODP) in Supply Chain Management (SCM) and introduced the Panelists and Moderator to the audience. Dr Gautam Sengupta, the moderator during the function introduced the Convener and Panelists and welcomed all present in the Webinar.

Panelist during the session, Prof (Dr) Pradip Kumar Ray, while delivered his address on the importance of supply chain, mentioned the influence of supply chain in the performance of the organizations. Prof Ray explained the crisis of supply chain in present pandemic situation and the way to improve the same through radical transformation and opined that there must be a complete assessment of the present and the future state



Prof (Dr) Pradip Kumar Ray

through improvement alternatives. The speaker discussed the principal issues to supply products and services to the end users in a supply chain effectively and efficiently during the crisis and to maintain achievable plans under pressure. Supply Chain Management (SCM) is found to have a huge potential impact with effects on different business functions, wherein an integrated logistical management approach is sought which can extend from suppliers and customers in a comprehensive way, Prof Ray added. The speaker further explained different significant aspects for designing supply chain framework and the associated challenges due to the dynamic nature of supply chain by means of prolific product variety, shortened product life cycle, frequent introduction of new products and non-stationary customer demand that leads to the evaluation of performance of supply chain and the optimization of inventory level trade-off. The speaker lucidly explained evolution & growth and different phases of supply chain networks, inbound and outbound logistics to assess supply chain network, supply chain performance modeling, application of different mathematical models including Theory of Constraints, Supply Chain Integration, Vendor Managed Inventory (VMI), Reverse Logistics, Third Party Logistics and Fourth Party

Logistics etc. Prof Ray further emphasized on appropriateness of functional integration of SCM with the objective to maximize quality, minimize cost and reduce entire throughput time and single point interface as the state of the art supply chain outsourcing.

Dr Gautam Sengupta, in his address on the theme focused on the impact of COVID-19 crisis on organizational sustainability, different challenges of planning under disruption and introduced the concept of supply wave management, which refers to shifting of linearity, shrinkage of developed market and subsequent development of emerging market in post COVID era. Dr Sengupta, while discussed regarding the problems in supply chain collapse, mentioned the changing dimensions of purchase, skills, economy etc and stressed on integration and collaboration. The speaker further discussed different issues to rebuild supply chain resilience through innovative solutions in post pandemic. He also deliberated on different aspects of implementation of Lean Supply Chain, redefining supply chain through application of Lean Six Sigma for variability and waste reduction, different aspects of Six Sigma Methodology including DMAIC (Define-Measure-Analyze-Improve-Control) and DFCC (Design For Six Sigma), functional applications of Process Capability, Lean Transition in Quality, Cost and Profit, Value Stream Mapping and so on.



Dr Gautam Sengupta

Prof (Dr) S N Ray in his address focused on the future of SCM and mentioned that over the time, dimensions of SCM have changed through socio-economic transformation. Prof Ray in his address explained different aspects of Enterprise Resource Planning (ERP), e-commercialization, Dynamic Resourcing, emerging supply chain management strategies including Enterprise Optimization, Priority of Purchased Probability due to pandemic efforts, Re-engineering through Scenario Analysis, optimized utilization of resources, management of internal and external data in post pandemic situation, less dependability on long term strategic planning, multiple scenario probability of assessment on constant basis, addressing enterprise optimization issues on regular basis, etc. The speaker explained the application domain of different mathematical models in SCM including Stochastic Programming, Integer and Mixed Integer Programming, Optimal Scenario Model etc to address the supply chain issues in changed scenario. The speaker concluded with critical aspects of supply chains in FMCG, retailing, pharmaceutical products etc.



Prof (Dr) S N Ray

Fruitful deliberations were obtained during the Question-Answer session, when the Panelists interacted with the participants. Mr Kalipada Das, Honorary Secretary, West Bengal State Centre, IEI, delivered the vote of thanks and concluded the session.



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Waste Water Treatment for Sustainable Development

West Bengal State Centre of the Institution organized IEI Centenary Technical Webinar on the theme, **Waste Water Treatment for Sustainable Development** under the aegis of Chemical Engineering Division Board (CHDB), IEI on 14 August 2020. Eminent Panelists, namely, Dr Ashim Kumar Bhattacharya, Executive Director, Academy of Water Technology and Environ Management, Kolkata, Mr Susanta Kumar Roy, Former Chief Manager, Balmer-Lawrie and Company Limited, Kolkata, Mr Kumar Biswas, Former Joint Director, Petroleum Planning & Analysis Cell, Ministry of



Mr Kumar Biswas

Petroleum & Natural Gas, Government of India, Prof Nitosh Kumar Brahma, Former Professor, IIT Kharagpur & Visiting Professor, Institute of Genetic Engineering, Kolkata and Prof S K Das, Former Head, Chemical Engineering Department, University of Calcutta, Kolkata were present during the discussion. Dr Ashim Kumar Bhattacharya, while discussed on the topic, “Waste Water Treatment: Technological Aspects, Recycle and Reuse”, elaborately explained on different



Mr Susanta Kumar Roy

Waste Water Treatment (WWT) plants in India and abroad along with their mechanical, primary, secondary and tertiary treatments. He also focused on the fresh water scarcity and the problems of getting drinking water in the next few years. Dr Bhattacharyya emphasized on the present Indian and state scenario in water management and its associated steps including flocculation, coagulation and biological treatments, several physiochemical, Membrane based Separation Technology (MBST), Activated sludge process (ASP), Dissolved Air Flootation (DAF) etc. He further opined that to make the system cost-effective, the application of solar energy and evaporation system have to be adopted. Briefly, Dr Bhattacharyya also highlighted the functional aspects of Zero Liquid Discharge (ZLD), Multi effect evaporator, Agitated Thin Film Dryer (ATFD), Alkali-Surfactant-Polymer (ASP), Membrane Bio Reactor (MBR) and few case studies on WWT in food processing industries. Mr Susanta Kumar Roy while deliberating on the topic “H₂O - Sustainability and Health Safety”, described the importance of water both from its historical viewpoint as well as its health and safety aspects. He further described the WWT processes through its schematic process flow diagram followed by the industry for wastewater treatments and the virtual water used in agriculture for food products. In addition, Mr Roy described the consumption and generation of waste water in different industries, like

steel, thermal power, pulp & paper, textile, fertilizer etc. He also emphasized on the risk in WWT plant that causes community diseases at several stages. Mr Roy also stressed on the safety tips and the responsibilities of



Prof S K Das

the employers of WWT plants. Mr Kumar Biswas discussed the topic, “Wastewater Treatment for Sustainable Development” in details and focused on the type of waste water generated in petrochemical industries and their pre & advanced treatment processes. He also emphasized on advanced physical, chemical and biological treatment processes of waste water. Mr Biswas also highlighted the treatment types involved



Dr Ashim Kumar Bhattacharya

in Oily water, Chemical waste, Tank drains, Storm Water, Sanitary waste of refineries etc. to initiate the increasing need of recycling and to reduce the quantum use of fresh water in the term of Zero Effluent Discharge (ZED). Prof N K Brahma in his deliberation highlighted the “Algae in WWT”. He highlighted the importance of algae in WWT, in production of food, medicine and energy. He also explained that Biodiesel, if extracted from Algae does not require transesterification that reduces the cost and time as compared to Biodiesel extracted from Jatropha. He also showed the simple design of PBR (Photo Bio Reactor) and the biochemical involvement of photosynthesis in capturing CO₂ by algae in presence of light / sunlight (photons) for mitigating global warming. Prof Brahma also highlighted on the importance of Membrane based Separation Technology (MBST) in separation of As (Arsenic), Cu (Copper), Pb (lead), Mg (magnesium), Fluorides at its oxidized stage. He also explained the innovative development of RO-MHP (Reverse Osmosis-Membrane hand pump). Prof S K Das delivered his address on the topic “Biosorption--Mechanism and Scale Up Design”. Earlier, Mr Sandip Kumar Deb, Chairman, West Bengal State Centre and Council Member, IEI welcomed the participants and Panelists. Mr Anirban Datta, Convenor, Mechanical Engineering Divisional Sub-Committee, West Bengal State Centre moderated over the session. Mr Kalipada Das, Honorary Secretary, West Bengal State Centre proposed the vote of thanks.



Prof N K Brahma

Smart Learning: A New Paradigm

Contd. from page 2

learning process. The speaker concluded with the constructive alignment of digital learning process as a golden triangle with learning outcome, teaching and learning activities and assessment.

Panelist during the session, Prof Saikat Maitra, Vice Chancellor, Maulana Abul Kalam Azad University of Technology, Kolkata in his address, explained the shift from directive pedagogy to dialogic pedagogy during the changed scenario of teaching learning process. He mentioned the development of education system starting from traditional classrooms, development of ICT enabled learning, cloud based learning characterized by flexible timing, easy accessibility and affordability and further emphasized on the principle of Learn-Unlearn-Relearn through knowledge generation in different dimensions outside classroom through the plethora of digital learning

materials. Prof Maitra also explained the aspects of differentiated learning and collaborative learning by means of cost effectiveness, multidimensional and multiperspective assessments.

The fruitful deliberations during the session leads to the need of a holistic learning approach with an effective blend of on-campus and off-campus learning and formulation of suitable learning strategies both through online and campus based.

In his concluding remarks, Mr Suneel Grover, Chairman, National Skill Development Forum of IEI explained smart learning as self directed, motivated, adopted, resource enriched and technology driven and proposed the vote of thanks. The Webinar was well attended by the professionals from India as well as abroad.

Advances in Design, Manufacturing and Thermal Engineering

Odisha State Centre of the Institution organized All India Seminar on the theme **Advances in Design, Manufacturing and Thermal Engineering** under the aegis of Mechanical Engineering Division Board (MCDB), IEI at Bhubaneswar during 18-19 January, 2020. Dr Ashok Kumar Sahu, Chief Scientist, Mineral Processing Department, CSIR-Institute of Minerals & Materials Technology, Bhubaneswar graced the occasion as Chief Guest

optimization of the manufacturing and other functions in logical association with one another. Prof(Dr) Akshaya Kumar Rout, Convener during the function, elaborated on facilitating communication between researchers and designers regarding the recent advances in the field of Mechanical Engineering, which also provides the academicians to set goals for future engineering education and recommend the future directions in teaching and research. A Souvenir was released during the occasion by the Chief Guest and the dignitaries present on the dais. Earlier, Prof (Dr) Khiroda Kumar Rout, Chairman, Odisha State Centre and Council Member, IEI delivered his welcome address. Prof (Dr) Sudhansu Sekhar Dash, Honorary Secretary, Odisha State Centre, IEI proposed the vote of thanks.

During the technical sessions, number of Papers were presented based on the theme and associated sub theme, that include;

Structural Equation Modeling Approach of GSCM in Indian Mining Industries; Effect of Additives on Performance and Emission of CI Engine using Neem Biodiesel; Latest Innovations in Utilizing Plastics Wastage in Construction Industries, A Decision on Advertising in a Closed-Loop Supply Chain under Price Competition; Experimental Analysis and Optimization of Parameters for Gear Cutting Process using Wire EDM; Tribo-mechanical Study of Palm/Epoxy Composites Reinforced with Agro-waste Rice Husk as Filler; Nanotechnology—The Emerging Advancement in Manufacturing and Materials Science, Experimental Investigation of Wire EDM Parameters for Gear Cutting Process using Desirability with PCA, Power Plant Analysis for Zero Emission through Thermodynamics etc.

A Panel Discussion was also organized in this occasion.



and Dr Ashok Kumar Sahoo, Professor and Director, School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT), (Deemed to be University), Bhubaneswar as Guest of Honour. Dr Prasenjit Rath, Assistant Professor, School of Mechanical Sciences, IIT Bhubaneswar, the Chief Speaker during the function stated that advancement in manufacturing industries is governed by the development of precision manufacturing, measuring techniques and integrated knowledge based manufacturing system. Dr Rath further mentioned that in today's global scenario, the success of manufacturing industries can only be achieved with the

Revolutions in Eco Friendly Vehicles

Madurai Local Centre of The Institution, in association with Kamaraj College of Engineering and Technology organized All India Seminar on the topic **Revolutions in Eco Friendly Vehicles** during 3-4 February 2020 under

the aegis of Mechanical Engineering Division Board (MCDB), IEI at Madurai. Mr S Selvakumar, Head, Engineering & Design, M/s Power Projects, Chennai deliberated the inaugural address as Chief Guest and explained the significance of electric vehicles, significance of implementation of BS6 emission norms, infrastructural development of battery charging stations etc. Mr S Rajagopal, Chairman, Madurai Local Centre and Council Member, IEI delivered his welcome address and emphasized that the world is moving towards electric vehicle to safe guard from pollution. Mr R Narayanasamy, Honorary Secretary, Madurai Local Centre explained about the theme of the Seminar. Mr P Rajamani, Council Member, IEI was also present during the function and addressed the audience. During the technical sessions, Mr S Selvakumar, presented Lecture on the topic 'Revolutions in Eco Friendly Vehicles' and highlighted the advantages of electric vehicles, different aspects of EV grid interface, applications of hybrid vehicles, plug in vehicles etc, issues and challenges in using battery operated vehicles etc. Other technical deliberations include; Principal and Auxiliary Fuel Sources in Electric Vehicles; Hybrid Vehicle Architecture; Battery Management System; Different Transportation Aspects in Electric Vehicles etc.



Recent Trends and Development in National and International Power Sector

Ghaziabad Local Centre of the Institution in association with ABES Engineering College, Ghaziabad, organized All India Seminar on the theme **Recent Trends and Development in National and International Power Sector** during 19-20 February, 2020 at Ghaziabad under the aegis of Electrical Engineering Division Board, IEI. Er Narendra Singh, President, IEI graced the function with his august presence. The Chief Guest during the occasion, Mr Arvind Kumar Mishra, Managing Director, Mangdechhu Hydroelectric Project Authority (MHPA), Bhutan delivered his address on the topic 'Construction & Commissioning of 720 MW Mangdechhu Hydroelectric Project, Bhutan'. Mr Neeraj Goel, President, ABES Engineering College, Ghaziabad, Mr R P Singh, Former Chairperson, Arunachal Pradesh State Electricity Regulatory Commission, Prof (Dr) Alok Prakash Mittal, Department of Instrumentation and Control Engineering, Netaji Subhash University of Technology (NSUT), New Delhi and Mr R R Tanwar, Chairman, Centre's Co-ordination Committee, IEI were also present during the function. Earlier, Mr Jai Pal Singh, Chairman, Ghaziabad Local Centre and Council Member, IEI welcomed the audience. Prof (Dr) Hemant Ahuja, Convener of the Seminar briefed about the theme. Mr Chitra Kumar Tyagi, Honorary Secretary, Ghaziabad Local Centre proposed the vote of thanks.



During the technical sessions, Dr Mohd Rihan, Associate Professor, Department of Electrical Engineering, Aligarh Muslim University delivered the Keynote address on the topic 'Smart Grid and Demand Side Management'; Dr Kirti Pal, Associate Professor, Electrical Engineering Department, Gautam Buddha University, Greater Noida, G B Nagar delivered Keynote address on the topic 'Renewable Energy Integration and Energy Trading'; Dr Naqui Anwer, Associate Professor, Department of Energy & Environment, TERI

School of Advanced Studies (TERI University), New Delhi delivered Keynote Address on the topic 'Microgrid and New Change in Market'. Papers were also presented embracing the subtheme on diversified topics, namely; Fault Mitigation of Grid Connected Wind Energy Conversion System, Modeling and Simulation of DC Microgrid, Solar Energy Harvesting for Driving Different Loads, Designing and Integration of Solar Energy in the Energy Intensive Transport Sector, Different Energy Efficiency Techniques for Coal Fired Thermal Power Plants etc.

The Valedictory Function was chaired by Prof (Dr) Shailesh Tiwari, Director, ABES Engineering College, Ghaziabad. Dr Sanjay Gairola, Head, Department of Electrical Engineering, G B Pant Institute of Engineering. & Technology (GBPIET), Pauri, Uttarakhand also present during the occasion.

Recommendations emanated from the All India Seminar include:

Energy is the key resource to meet the growth aspiration of the society and per capita electricity consumption is an indicator of the economy and the social development of the society & country at large; Private players in the power sector play a significant role to bring a balanced and sustainable growth in the energy sector which need to be encouraged; To achieve the renewable energy targets, there is a greater need for grid balancing between Hydro and Gas based power stations; Power balancing need to be emphasized more to cater to the viability associated with renewable energy resources; All Hydro Power projects to be given renewable status, thereby extending the same benefits including transmission charges, GDP etc as that for wind & solar sector; All the required clearances and approvals for Hydro power projects should be provided through single window system of the ministry concerned; Grid connected solar PV system is most effective method for generation of power among renewable energy sources. It is easy to install and is clean and light. Once installed, it has no recurring expenditure except battery; As harmonics is the biggest problem in grid connectivity, hence, it is vital to reduce the harmonics from the grid by using suitable filters; Control of power factor and maximum power point tracking approach also are relevant; Cost of harmonics removal will make the power cheaper; Performance analysis of 300 KWp roof top PV systems shows that roof top grid connected PV system is an economic viable solution to meet the energy needs.

News-in-Brief

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

STATE CENTRE

Telangana

Telangana State Centre, IEI organized a Lecture on "Impact of Covid and Preparedness for such Pandemics" through Webinar on 01 August 2020. Chief Guest during the function, Dr K I Varaprasad Reddy, Chairman, Shanta Biotechnics, Hyderabad deliberated Lecture on the topic.

LOCAL CENTRES

Coimbatore

Organised Seminar on the topic 'Ergonomics: A Practical Approach to Improve Industrial Workplace' on 13 March, 2020.

Organised Lecture Meeting in association with the Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore on 10 August 2020 through online platform. Dr Gargi Banerjee, Research Scientist, Educational Technology, IIT Bombay delivered Lecture on 'Pedagogy of Online Teaching and Assessment'.

Organised Lecture Meeting in association with Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore on Climate Change and Challenges on 5 September, 2020. Dr S R Ramanan, Former Director, Area Cyclone Warning Centre, Regional Meteorological Centre, Chennai delivered Lecture on the theme during the occasion.

Contd. on page 8

One Day Seminars/Workshops conducted by Various Centres of IEI

Jamshedpur

Jamshedpur Local Centre of the Institution organized One Day Seminar on the theme **Emerging Maintenance Practices for Industry Sustainability (Industry 4.0) in Mechanical Domain** on 22 February, 2020 under the aegis of Mechanical Engineering Division Board (MCDB), IEI. The programme was well attended by the engineering professionals from different companies and students from educational institutions. The Chief Guest during the function, Mr P D Mundhra, CEO, Tayo Rolls Limited, stressed on the importance and



applications of maintenance practices in steel and other industries. Number of papers was presented during the technical sessions embracing the theme and sub theme, which include; Smart Slings with Optical Sensors and Overload Load

in Plant Maintenance, highlighting on overload protection & remaining life etc, Conveyor Belt Reliability Improvement Journey at Tata Steel, highlighting on improvement of overall reliability in conveyor area, System for Continuous Online Health Monitoring of Hydraulic Valve, Computational Analysis of Waste Heat Utilization in Steam Generator, Experimental Analysis of Tool Pin Profile in Mechanical Properties during Friction Stir Welding of AA 6061, Limpet Technology for CGL#2 Furnace of Cold Rolling Mill, Conveyor Belt Coiler: a Success Story Improvement of Lubrication System at Tata Steel, The Effect of Specimen Thickness on Crack Parameter: Numerical Study on Biodegradable Metallic Implant for Orthopedic Applications etc. Earlier, Mr Anurag Saxena, Chairman, Jamshedpur Local Centre, IEI welcomed the audience.

Salem

Salem Local Centre, IEI organized One Day Seminar on the theme **Monitoring and Controlling of Power Transmission and Distribution using SCADA of Salem Corporation** on 28 February, 2020 under the aegis of Electrical Engineering Division Board (ELDB), IEI in association with Department of Electrical and Electronics Engineering, Thiagarajar Polytechnic College, Salem. Mr D Arul Selvan, Chairman, Salem Local Centre, IEI in his welcome address, introduced about the working principle of Supervisory Control and

Data Acquisition (SCADA) in transmission, distribution and power system automation. During the technical sessions, Dr N Gunavardhini, Executive Engineer, Salem Town, Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO), Tamil Nadu Electricity Board, Salem delivered Lecture on the topic "Overview of SCADA in Power Transmission and Distribution". During her address, she briefed that the SCADA based transmission and distribution, monitoring and control means application of automotive systems in electrical distribution for monitoring the electrical parameters, i.e. voltage, current, power factor, etc and electrical fault detection. She highlighted that, automating electrical distribution systems by implementing a supervisory control and data acquisition system is one of the most cost-effective solutions for improving reliability, increasing utilization, increasing efficiency and saving costs. Mr J Prabhakaran, Former Superintending Engineer, TANGEDCO, delivered address on the topic 'SCADA in Power Transmission' and explained about acquisition of analog and discrete values, smart meters and applications of SCADA. Mr I Jude Stephen Raj, Assistant Executive Engineer, Tamil Nadu Transmission Corporation Limited (TANTRANSCO), Salem, while delivering address on the topic 'Distribution Management System', briefed in detail, Network Connectivity Analysis (NCA), State Estimation (SE), Load Flow Application (LFA), Voltage VAR control (VVC), Fault Management and System Restoration (FMSR), Loss Minimization via Feeder Reconfiguration (LMFR), Load Balancing via Feeder Reconfiguration (LBFR), Distribution Load forecasting (DLF) etc. Mr J Vijayakumar, Assistant



Executive Engineer, TANTRANSCO, Mettur deliberated on the topic 'SCADA in Power Distribution' and discussed about the applications of Machine Learning and Big Data in power transmission and distribution systems.

In the concluding session, Mr J Prabhakaran, Superintending Engineer (Retired), TANGEDCO, delivered Lecture on the topic 'Monitoring and Control of Transmission Line using SCADA' and briefed in detail about the SCADA control room in Salem. The valedictory function was chaired by Mr D Arul Selvan, Chairman, Salem Local Centre, IEI. Mr S Loganathan, Honorary Secretary, Salem Local Centre, IEI proposed the vote of thanks.

News-in-Brief

Contd. from page 7

Gorakhpur

Gorakhpur Local Centre, IEI organised a Lecture on the topic 'Recharging of Ground Water through Rain Water Harvesting' on 24 August 2020 through online platform. Guest Speaker, Mr Sanjay Kumar Singh, Chief Engineer, Gorakhpur Development Authority, Mr Prateek Ranjan Chaurasia, Retd. Chief Engineer, Minor Irrigation Department, UP & Jyoti D Tripathi, Consultant, Artha, New Delhi, Prof Veerendra Kumar, IIT, BHU & President, Indian Concrete Institute, Varanasi and Prof Ashok Kumar Tiwari, Zonal Head, Ultra Tech Cement were participated in the Lecture Meet and expressed their views.

Kanyakumari

Kanyakumari Local Centre, IEI organized Webinar on the topic "Implementation of Sustainable Development Goals" on 21 August, 2020. Keynote address was delivered by Dr M Marsaline Beno, Vice Principal, St. Xavier's Catholic College of Engineering, Nagercoil.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI jointly with Tamil Nadu State Centre, IEI arranged a Technical Lecture through video conference on 04 August 2020. Prof (Dr) Arvind Rajendran, Department of Chemical and Materials Engineering, University of Alberta, Edmonton, AB, Canada delivered the talk on 'Carbon dioxide Capture for Mitigating Greenhouse Gas Emissions' and highlighted the progress towards a net-zero CO₂ emission, significance of worldwide decarbonization of major green house gas emitting industries, including power and chemicals.



Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)



MANAGEMENT & TECHNOLOGY & DPC DIVISION CPDPs Calendar for September 2020 – March 2021 Online Training Programme

Code No	Programme Title	Duration	Dates	Course Fee in INR
MT3110-1	Holistic Development for Personal & Professional Excellence	3	21 – 25 Sep 2020	5,000
MT3111	Engineering Simulation using ANSYS (Inspiring Creativity, Innovation and Reverse Engineering)	3	28 – 30 Sep 2020	3,000
MT3135	Artificial Intelligence for Increasing the Productivity	5	05 – 09 Oct 2020	7,500
MT3136	Role of Block Chain in Supply Chain Management	5	12 – 16 Oct 2020	7,500
MT3114	Engineering Design using CREO Parametric	3	19 – 21 Oct 2020	3,000
MT3130	Use of Disruptive Technologies and its Application for Industries (AI, IoT, Cloud Computing, Analytics & Block Chain)	3	27- 29 Oct 2020	5,000
MT3138	Enhancing Techno-Managerial Effectiveness	5	02 – 06 Nov 2020	7,500
MT3028	Welding Technologies and NDT Techniques (Theory & Practical Orientation)	4	10 – 13 Nov 2020	7,500
MT3116	Engineering Design using Solid Works	3	18 – 20 Nov 2020	3,000
MT3129	Leadership Excellence and Innovative Approach	5	23 - 27 Nov 2020	3,000
MT3143	Frontier Technologies for 21st Centuries Process Industries	4	01 - 04 Dec 2020	3,000
MT3142	CFD Simulations using ANSYS	3	07 – 09 Dec 2020	3,000
MT3054	Operation, Maintenance and Performance Monitoring of Centrifugal Pumps and Compressors (With Practical Orientation)	5	14 – 18 Dec 2020	7,500
MT3144	Role of Embedded Systems in Industry 4.0: The Fourth Industrial Revolution	3	21 – 23 Dec 2020	5,000
MT3145	Topology Optimization and Design for Additive Manufacturing	3	04 - 06 Jan 2021	3,000
MT3146	Applied Computational Intelligence and Informatics	3	18 - 20 Jan 2021	5,000
MT3119	Corrosion Engineering, Emerging Technologies Coatings and Advance Material	3	27 - 29 Jan 2021	5,000
MT3147	Learning Agility to Rapidly Adapt, Adopt and Innovate	5	01 - 05 Feb 2021	7,500
MT3148	Creating Synergies Virtually in Challenging Times	5	08 - 12 Feb 2021	7,500
MT3149	Synchronizing Personal Organizational Goals with Ownership and Accountability	5	22 - 26 Feb 2021	7,500
MT3062	Project Monitoring, Control and Implementation (Concept of Earned Value Management System in Project Management)	5	01 – 05 Mar 2021	7,500
MT3180	Enhancing Managerial Excellence for Middle & Top Level Executives	3	08 – 10 Mar 2021	5,000
MT3150	Creative Leadership and Team building Skills for Organization Development (Innovative and Inspiring Leadership methodologies with case-studies and Role plays)	5	15 - 19 Mar 2021	7,500
MT3116	Engineering Design using Solid Works	3	22 - 24 Mar 2021	3,000
MT3112	Rapid Prototyping using 3D Printing (FDM & SLA)	3	24 – 26 Mar 2021	3,000

For Details, Contact :

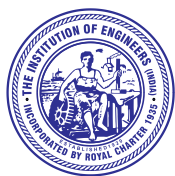
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WATER MANAGEMENT FORUM

A Peripheral Body of The Institution of Engineers (India)

The Institution of Engineers (India)

Gujarat State Centre, Bhaikaka Bahvan, Law Garden Road, Ahmedabad-380 006.

Tel.: (079) 26400811, Email: watermanagementforum@gmail.com

Website: www.wmf-iei.org



NATIONAL POSTER COMPETITION ON "WATER CONSERVATION" – 2020 FOR SCHOOL STUDENTS

Water Management Forum has launched National Poster Competition with a view to make children aware about need of conserving the precious resource of water and also involve their parents in the above noble cause. **The competition is open for all students of India studying in standard V to Standard XII from 15TH JULY 2020 to 30th September 2020. The winners will be awarded cash prizes.**

Entry rules

The participants shall bear the expenses towards the material required for preparing the posters and no cost in this regard would be borne by Water Management Forum or The Institution of Engineers (India).

The theme for the poster competition is "WATER CONSERVATION"

All posters must contain the following details at the back of the poster.

(In English and capital letters only)-

Name of student, class, Section, School, full school address, father/mother's name, telephone number of school and parents along with STD code, signature of School Principal. Posters not signed by the school Principal or sent directly by student/parent to the Water Management Forum will not be accepted.

There will be two following Categories in the competition

Junior – From Vth to VIIIth standard

Senior- From IXth to XIIth Standard

The Poster will have minimum A 3 Size of 30 cm X 42 cm, and maximum A 1 Size of 60cm X 84 cm. There will be no restriction on type of colors to be used.

All entries to be sent **by post** to the registered office of the Forum at:

The Director, Water Management Forum, The Institution of Engineers (I),

Bhaikaka Bhavan, Opp Law Garden, Ellisbridge, Ahmedabad 380006.

Email - watermanagementforum@gmail.com

Awards

Three best posters in both categories shall be selected by the Jury of three independent eminent persons appointed by the Forum. Winners shall be conferred upon an award, a certificate and cash prize. **1st Prize shall be Rs. 10,000/-; Second prize Rs. 5000/- and the third prize shall be Rs. 2000/- Awards/Prize shall be declared during October 2020 by the Jury.**

Published by: WATER MANAGEMENT FORUM

Peripheral body of The Institution of Engineers (India), Contact: www.wmf-iei.org

Important Notice

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

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

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

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

- ❖ Bio-inspired self-assembly
- ❖ Active self-assembly
- ❖ Heterogeneous integration
- ❖ Directed self-assembly
- ❖ Autonomous movement
- ❖ Controlled self-assembly
- ❖ Energy-dissipating Systems
- ❖ Microsystems, Microfabrication
- ❖ Polymers, Manufacturing
- ❖ Nanofabrication
- ❖ Atomic force microscopy
- ❖ Biosensors
- ❖ Nanostructures
- ❖ High Aspect Ratio, Etch Rate
- ❖ Double-shelled octahedron
- ❖ Scanning Electron Microscope
- ❖ Photocatalysis
- ❖ Sacrificial Layer and other relevant areas
- ❖ Oxidation of saturated CH bonds
- ❖ Quantum Wire



GUEST EDITOR

Prof Marc Madou, Chancellor's Professor, University of California, Irvine, USA

EDITOR-IN-CHIEF

Prof Gautam Biswas, FNA, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, India; Former Director, Indian Institute of Technology Guwahati, India; Former Director, CSIR-Central Mechanical Engineering Research Institute, Durgapur, India

Submission of papers through:
<https://www.editorialmanager.com/ieic/default.aspx>

- ❖ Wind tunnel design and construction
- ❖ Utilization of wind tunnels for aeronautical and non-aeronautical applications
- ❖ Model fabrication
- ❖ Model supports
- ❖ Wind tunnel measurements
- ❖ Use of CFD for improved wind tunnel design
- ❖ Use of computers in wind tunnel operation and testing
- ❖ Validation of CFD results with wind tunnel measurements
- ❖ Balance design and fabrication
- ❖ Integration of EFD / CFD and digital / analogue wind tunnels
- ❖ Use of water tunnels for testing aeronautical and non-aeronautical models
- ❖ Data capture and analysis and case studies



GUEST EDITORS

Prof N Sitaram, Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, India

Prof G M Carlomagno, Department of Industrial Engineering, University of Naples Federico II, Naples, Italy

EDITOR-IN-CHIEF

Prof Gautam Biswas, FNA, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, India; Former Director, Indian Institute of Technology Guwahati, India; Former Director, CSIR-Central Mechanical Engineering Research Institute, Durgapur, India

Submission of papers through:
<https://www.editorialmanager.com/ieic/default.aspx>

- ❖ What are the major issues and challenges of each phase of circular economy (e.g. take, make, distribute, use and recover) within industrial supply chain?
- ❖ Is there any best practice within each phase of circular economy?
- ❖ What innovation could be suggested in each phase to enhance sustainability performance?
- ❖ What role individual organisation, industry consortium, and policymakers should play to adopt circular economy in businesses?
- ❖ Is there any difference and similarity of circular economy adoption in developed and emerging economies?
- ❖ Could we measure circular economy performance and suggest means for improvement?
- ❖ How could technology play major role in adopting circular economy?
- ❖ What are the various measures related to resource and energy efficiency that have been undertaken in order to achieve circular economy?
- ❖ How reduce, reuse and recycle principles have been practiced across the society in order to adopt circular economy?
- ❖ What resources, strategies, and competences are required to implement circular economy?
- ❖ How circular economy is related to sustainable development goals?
- ❖ How social wellbeing and gender equality are related to circular economy?
- ❖ Is there any synergy between physical and mental health wellbeing, and circular economy?
- ❖ Could circular economy help achieve greater sustainability across industries?
- ❖ How effective waste management helps achieve greater sustainability?
- ❖ How is adoption of circular economy facilitated through advanced information and communication technologies (e.g. Industry 4.0, Internet of Things, Block chain, big data and 3D printing)?



GUEST EDITOR

Prof P K Dey, Operation and Information Management, Aston Business School, Aston University, Birmingham, UK

EDITOR-IN-CHIEF

Prof Gautam Biswas, FNA, Department of Mechanical Engineering, Indian Institute of Technology Kanpur, India; Former Director, Indian Institute of Technology Guwahati, India; Former Director, CSIR-Central Mechanical Engineering Research Institute, Durgapur, India

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<https://www.editorialmanager.com/ieic/default.aspx>

IEI Join Hands with Various Certification Bodies to Nurture Engineers

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

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

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

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

Please visit www.ieindia.org under Certification for details. For further clarification you may call at: 033-40106304 or Email at certification@ieindia.org

Obituary

Mr Narendar Pal Singh Brar, a distinguished Council Member of the Institution left for his heavenly abode on August 30, 2020. Born in August 17, 1962. Mr Brar obtained his Bachelors Degree in Electronics and Computer Engineering from The Maharaja Sayajirao University of Baroda, Vadodara in the year 1983. He started his career in 1984 as Customer Support Engineer in Digital Innovations Private Limited, Baroda. In 1987, Mr Brar joined MINICOMP Private Limited and ultimately rising to the position of Vice President of the organization in 1999. From 2004 till date, Mr Brar was the Director/CEO of iSystem India Private Limited. During his professional career, Mr Brar technically executed and staged Sun Spark hardware for CMC, Delhi; designed data signal Converter from RS232 to RS422 for long distance, designed Wi-Fi at large campus, designed and implemented Cloud Computing on HP Infrastructure using VMware and so on. He also attended International Seminars at Turkey, Malaysia, Sri Lanka, Thailand and Indonesia. Mr Brar was a Certified Professional Engineer in Computer Engineering branch. Mr Brar was associated with IEI over a long period of time. He was the Honorary Secretary of Vadodara Local Centre of the Institution during 2016-18, Chairman, Vadodara Local Centre during 2018-20 and an Ex-officio Member of the Council of the Institution.



NOTICE

It is hereby notified that due to the unavoidable circumstances arising out of the COVID-19 pandemic, Council of The Institution of Engineers (India) has decided the following:

“All elections to the Council, State/Local Centre Committees including elections to the office of the President, IEI and Chairman & Honorary Secretary of State/Local Centres scheduled to be held in the year 2020 are postponed by one year i.e. to be held in the year 2021. The term of Council and State / Local Centre which is getting completed in 2020 also stand extended accordingly by one year i.e. upto 2021”.

All the State/ Local Centres of IEI are requested for onward circulation of the above through the Centre's website/ publication to all concerned.

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

IEI AWARDS

CALL FOR PAPERS

The Steel Authority of India Ltd (SAIL) had instituted two Awards, namely, **SAIL AWARD** and **DR M VISVESVARAYA AWARD** to be given away every year during the Indian Engineering Congress to author/s of the articles adjudged best on selected topics. The prize-winning papers will be published in the Technical Volume of 35th Indian Engineering Congress.

The topics for the year 2020 are given hereunder.

SAIL AWARD

Digital Transformation in the Steel Industry

DR M VISVESVARAYA AWARD

Hydrogen based Steel Making – The Future?

Intending contributors are requested to send the soft copy of the paper by email to award@ieindia.org (with subject heading Paper for SAIL/Dr M Visvesvaraya Award) and submit four nos. printed copies of their articles to :

Director (Technical)

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

Last date of submission: October 15, 2020

For downloading the template of paper and declaration form, please visit the following link:
https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers

IEI NEWS

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