



# IEI NEWS



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Volume 26

Number 6

## IEI Confers Honorary Fellowship to Her Excellency Smt Mridula Sinha Hon'ble Governor of Goa



The Institution of Engineers (India) conferred Honorary Fellowship to Hon'ble Governor of Goa, Smt Mridula Sinha on 25 August 2019 at Taj Vivanta, Goa. The Honorary Fellowship was handed over to Hon'ble Smt Mridula Sinha by Dr T M Gunaraja, President, IEI, in presence of Mr Chandrashekar G Prabhudessai, Chairman, Goa State Centre and other dignitaries.

## 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](mailto:datamemb@ieindia.org) by 10 October 2019.

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

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



As you are aware, The Institution of Engineers (India) was registered on September 13, 1920 in erstwhile Madras (Chennai) and was subsequently established in Calcutta (now Kolkata) with Sir Thomas Ward as its first President. He was succeeded by Sir R N Mookerjee, an eminent engineer cum entrepreneur who took over as President of the Institution at the Inaugural Ceremony held at Asiatic Society, Kolkata concurrently with the first Annual General Meeting of the Institution on 23 February 1921. On 9 September, 1935, the Institution was awarded with Royal Charter and the members of the Institution obtained the right to use the title "Chartered Engineer" after their names, which was an outstanding event in the history of the Institution. Since then, the Institution has grown substantially with its' 32 State and 91 Local Centres, six Overseas Chapters, six autonomous Fora and The Engineering Staff College of India.

The Institution of Engineers (India) has entered its Centenary year, which is a significant milestone indeed. To usher in the next Century, an Inaugural Ceremony was held in Chennai on 13 September 2019. The event was attended by a large galaxy of distinguished engineers and Past Presidents of the Institution who were also felicitated on this occasion. Prof Anil D Sahasrabudhe, Chairman AICTE delivered the key-note address on the theme "Transforming Engineering Education: The Centennial Imperative". A Special Achievement Award was bestowed on Dr Marlene Kanga, President, World Federation of Engineering Organizations. Dr E Sreedharan, the well known engineering icon of the country, was also felicitated as Eminent engineering personality during this occasion. A Book titled - 'A Century of Service to the Nation' was released and I am confident that it will make an interesting reading for all engineers.

I look forward for your active involvement in various events, which are being planned to celebrate the Centenary Year of the Institution at different Centres of the Institution of the country.

# Disruptive Technologies: Shaping Future Innovations

A one-day International Seminar on the contemporary theme "Disruptive Technologies: Shaping Future Innovations" was organized under the aegis of Federation of Engineering Institutions of Asia and Pacific (FEIAP)-ICT, presently chaired by Dr T M Gunaraja, President, IEI. The event was jointly organized by Institution of Engineers, Mauritius (IE Mauritius) in collaboration with the University of Mauritius in Balaclava, Mauritius on 21 Aug 2019. The Hon'ble Minister of Technology and Communication & Innovation, Government of Mauritius, Mr Yogida Sawmynaden, graced the occasion as Chief Guest. Speakers from Zimbabwe, Mauritius, India and Malaysia were present at the event. In his address President IEI, Dr T M Gunaraja briefly outlined the IEI governance structure, vast array of activities carried out by the Institution, international linkages and forthcoming Centenary celebrations. The briefing of the entire event was presented by Secretary & Director General, IEI at the Closing Session.



The outcome of the event is the synergy established between the engineers across the border. Further, the various avenues for expanding the outreach of IEI with other professional engineering bodies in Africa has been established which would be followed up.

The event also showcased IEI's ability to organize an overseas event of this stature thus meeting our commitment holding the charge of FIEAP –ICT Committee. The Session was appreciated for its contemporary theme as well as quality of presentation and deliberation.

## Industry – Academia Interface

# Imperatives of Engineering Education: Enhancing Skills and Employability

One Day 'Industry-Academia Interface' on the topic 'Imperatives of Engineering Education: Enhancing Skills and Employability' as a part of Centenary Celebrations of IEI was organised by the Institution and hosted by Indore Local Centre on June 22, 2019 at the Brilliant Convention Centre, Indore. Mr Shankar Lalwani, Hon'ble Member of the Parliament graced the occasion as the Chief Guest. Hon'ble Mr Lalwani, in his speech informed that the Central Government is committed to upgrade the technical education in the country and, soon about 100 new Research & Development Centres will be set up in the country and also highlighted significant aspects of National Education Policy. Being an engineer himself, Mr Lalwani highlighted the shortcomings in engineering education and presented ways to improve it by collaborating with Industry. Hon'ble MP recommended a linkage between IEI and Government for bringing about desired change. The Guest-of-Honour on the occasion, Dr Narendra Kumar Dhakad, Vice Chancellor, Devi Ahilya Vishwavidyalaya, in his address advised to introduce an Industry Chair in the Academic institutions for fruitful interaction between Industry & Academia. The Special Guest during the occasion, Mr Rajinder Singh Sachdeva, Chief Operating Officer, M/s Volvo Eicher Commercial Vehicles, in his key note address emphasized upon the necessity of

improving the quality in engineering education including regular updation in sports curriculum in line with the industrial demand. 'There should be



collaboration and contribution from Academia towards knowledge-sharing with Industry which would provide updated skills', he opined. Earlier, Dr Shilpa Tripathi, Chairperson, Indore Local Centre delivered the welcome address. Mr Deepak S Shah, Honorary Secretary, Indore Local Centre proposed the vote of thanks.



# Green Technology for Clean and Green India

Karnataka State Centre of the Institution organized Thirty-fifth National Convention of Environmental Engineers and National Conference on the topic 'Green Technology for Clean and Green India' during August 17-18, 2019 at Bangalore. Mr D V Sadananda Gowda, Hon'ble Minister for Chemicals and Fertilizers, Govt of India graced the occasion as the Chief Guest. Hon'ble Minister, Mr D V Sadananda Gowda, in his inaugural address mentioned that our natural capital in air, water, land, bio-diversity and ecosystem is continuously being encroached upon and there is an urgent



need to protect our heritage and traditions that are under threat. 'Hence, more environmental awareness is required to educate the community', he added. Hon'ble Minister further informed that green technology is not a new nomenclature altogether and primarily refers to those technologies which is used to back-up/restore the nature to its glory and help it in recovering from the damages that it has undergone. He spoke of initiatives like vertical farming, green burial, green off-shore, car free days, clean-up drives, green campaigns and solar rooftop technologies as means to achieve our goal. Dr T M Gunaraja, President, IEI, in his speech informed the gathering that the theme chosen for the National Conference is in line with one of the seventeen Sustainable Development Goals (SDG) set by the United Nations. He further informed that the 34th Indian Engineering Congress on the theme

'Societal Engineering-an Imperative for Nation Building' will be organized by Telangana State Centre of the Institution at Hyderabad during 27-29, December 2019 which is also the Indian Engineering Congress for the Centenary year of the Institution. Dr M Velan, Chairman, ENDB, IEI narrated about the frequently occurring heavy rains and cyclones in various parts of the country. He attributed these to the rapid urbanization and deforestation without any concern for environment. Dr Velan emphasized upon the need to adopt 'cradle to cradle' approach shunning the 'cradle to grave' approach. He also spoke about bio-fuel generation from crop residue and impressed upon the need to retrofit our vehicle (instead of shunning them altogether) so that they can run on electricity reducing COx emissions. Dr Velan said that the dream of a clean and green India can only be realized when we can successfully tackle issues like solid waste disposition, encourage plastic free cities, promote organic farming and adopt eco-friendly products. He urged all to be more responsible and lead a green life-style. Earlier, Mr Jasmal Singh, Chairman of the Centre, in his welcome address mentioned that managing the activities of the people in a way that conserves the environment, habitats and resources, at the same time, promoting the development is extremely complex and difficult and the National Conference will bring to fore the blueprint for environment conservation without compromising development. While delivering the prestigious N V Modak Memorial Lecture, Mr Tushar Girinath, IAS, Chairman, Bangalore Water Supply & Sewerage Board, stressed upon the need of river-basin planning and holistic water management and supply system where government can at best act as a promoter and facilitator. On this auspicious occasion, Dr Udayashankara T H, Professor, Department of Environmental Engineering, JSS Science and Technology University (Formerly SJCE), Mysuru; Dr K S Jayantha, Principal, Malnad College of Engineering, Hassan and Dr S Selvan, Additional Chief Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai, were felicitated as Eminent Engineers. IEI Young Engineers Award for the year 2019-20 were awarded to Dr Dipak Ashok Jadhav, Assistant Professor, Department of Agricultural Engineering, Maharashtra Institute of Technology, Aurangabad; Dr Sneha Gautam, Head, Department of Environmental Science and Engineering, Marwadi University, Rajkot and Dr A Saravanan, Assistant Professor, Department of Bio-technology, Rajalakshmi Engineering College, Chennai in recognition of their contributions in the field of Environmental Engineering. A technical proceeding was also released by the Chief Guest and other dignitaries present on the dais. Mr M Nagaraj, Honorary Secretary of the Centre proposed the vote of thanks. A large number of technical papers were presented and discussed during the technical sessions of the two-day National Conference.

## National Design Awards - 2019

The National Design and Research Forum (NDRF) of The Institution of Engineers (India) has been formed to promote Design and Research in various branches of engineering. NDRF handles, on behalf of IEI, the schemes relating to the National Design Awards and the All India Student Design Competitions. As you would be aware, with a view of promoting and advancing Engineering Design activity in the Country, NDRF identifies and recognises each year those who have been making outstanding contributions in the field of Engineering Design by giving each year. In keeping with this, NDRF is happy to announce nominations for National Design Awards - 2019.

Entries are invited in the following National Design Awards:

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

The Last date for receiving entries is **31 October 2019**.

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](mailto:ndrf@ieindia.org) or visit NDRF website at [www.ndrf.res.in](http://www.ndrf.res.in)

# Architectural Design Issues in Renovation and Rejuvenation of Old Structures

**Rajasthan State Centre** of the Institution organized a two-day All India Seminar on the theme 'Architectural Design Issues in Renovation and Rejuvenation of Old Structures' under the aegis of Architectural Engineering Division Board (ARDB) of IEI during June 15-16, 2019 at Jaipur. Mr Vishwas Jain, Managing Director, Consulting Engineers Group Ltd Jaipur, graced the occasion as Chief Guest. The Guest-of-Honour of the function, Mr Nitesh Agarwal, Architect, Studio Nitesh, Jaipur, in his address mentioned that while planning for heritage conservation projects, the

and water supply systems require an in-depth study or retro fitting plans. Guest-of-Honour, Mr Sudhir Kumar Bhatnagar, RC(JRO), Housing and Urban Development Corporation Limited, Jaipur urged that before making conservation plans for building, the architectural design and structural level problems, environmental factors affecting the building water supply and plumbing problems be considered first. Guest-of-Honour, Prof (Dr) M Raisinghani, Vice Chairperson, Vivekananda Global University, Jaipur, stated that modern residents of buildings have different need and requirements as



building requirements need to be evaluated. 'We should analyze and carry out cost-benefit analysis of the project and investment should be based on the consideration of the current land value and the final adaptive use of the building', he added. Guest-of-Honour Mr G P Sharma, Retd. Chief Engineer, PWD, Jaipur pointed out that challenges in conservation projects of heritage buildings require an in-depth analysis of various loop holes and traps in the building should be thoroughly examined. He mentioned that ventilation

compared to the requirements of older generation. 'Communication technology, plumbing, water supply system, fire protection and safety requirements have drastically changed and old structures need renovation for the current standard of living and quality of life of the present generation', he opined. Mr H K Mittal, Chairman, ARDB, IEI, in his address emphasized on planned conservation of Heritage buildings in India. Earlier, Mr Sajjan Singh Yadav, Chairman of the Centre, delivered his welcome address. Number of papers embracing the theme were presented and discussed during the technical sessions of the two-day Seminar.

Recommendations emanated from the two day Seminar include

- Labour output and efficiency of Indian construction industry should be improved through skill development workshops.
- Buildings should be evaluated from architectural design and structural point of view before planning for any conservation and further construction on the structure.
- For building conservation and additional construction, cost benefit analysis is recommended.

## Waste to Wealth

**Chhattisgarh State Centre** of the Institution organized a two-day All India Seminar on the topic 'Waste to Wealth' under the aegis of Environmental Engineering Division Board of IEI during June 15-16, 2019 at Raipur, Chhattisgarh. Dr K Subramaniam, Member IFS, State Planning Commission, Chhattisgarh, graced the occasion as the Chief Guest. Dr Subramaniam, in his speech emphasized upon the adoption of technologies to convert waste into usable products thus enhancing their value. He further reiterated on conserving water which is a scarce resource by implementing judicious applications on crops harvesting. The Keynote Speaker on the occasion, Mr S K Shukla, Chairman, Chhattisgarh State Power Distribution Company Ltd, in his address shared his experience on waste to wealth conversion during functioning with various agencies in the country. He explained that various organic wastes, i.e., bio-mass are composted to produce bio-gas and bio-fertilizer for in-house utilization. He cited example of processing sewage water and selling it to consumers for use in agriculture, horticulture and construction. The Guest-of-Honour of the function, Mr M P Mishra, Executive

Director (Smelter & Power), National Aluminium Co Ltd, Angul highlighted on various hazardous wastes generated during manufacturing Aluminium from Bauxite ore. Earlier, Mr Anil Kumar Sharma, Chairman of the Centre delivered the welcome address. Prof (Dr) Sanjay Kumar, Honorary Secretary of the Centre proposed the vote of thanks. Number of papers were presented on industrial waste and agricultural & municipal sector during the two-day technical sessions.





## Energy Efficient Design of Buildings with Special Reference to Energy Conservation Building Code

**Uttar Pradesh State Centre** of the Institution in association with UP New and Renewable Energy Development Agency (UPNEDA) organized Two-day All India Seminar on the topic 'Energy Efficient Design of Buildings with Special Reference to Energy Conservation Building Code (ECBC)', under the aegis of Civil Engineering Division Board (CVDB) of IEI during July 13-14, 2019 at Lucknow. Mr Sushil Kumar Patel, Director, UPNEDA and Special Secretary - Power, Govt. of Uttar Pradesh graced the function as the Chief Guest. Mr Patel, in his address mentioned that ECBC sets minimum energy standards for commercial as well as Government buildings having connected load equal or more than 100 kW or plot area of the building equal or more than 1000 sqm with minimum built up area of 2000 sqm and

the major components of the buildings which are being addressed through the code are envelope (walls, roofs and windows), lighting systems, HVAC systems, solar water heating, pumping and electrical power system. Mr V B Singh, Chairman, CVDB, IEI, in his speech elaborated about effective enforcement and implementation of ECBC, which requires coordinated efforts of multiple stakeholders at different levels such as housing and town planning department, development authorities and industrial development departments. Mr Ram Kumar, Sr Project Officer, UPNEDA and Convener of the event threw lights on how India's goal of reducing emissions intensity by thirty-five per cent by 2030 compared to 2005 levels in the Intended Nationally Determined Contribution (INDC) submitted to the UN Framework of climate change, can be achieved through promoting energy efficiency in building sector. 'Currently the building sector accounts for thirty-five per cent of the country's total energy consumption and therefore, role of building sector is very important in energy efficiency and energy conservation', he added. Earlier, Mr R K Trivedi, Chairman of the Centre welcomed the dignitaries and participants present during the occasion. Mr Prabhat Kiran Chaurasia, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme. A large number of papers embracing the theme were presented and discussed during the technical sessions of the two-day Seminar.



## Applications of Computational Fluid Dynamics Techniques in Heat Transfer and Energy Systems

**Tiruchirappalli Local Centre** of the Institution in association with National Institute of Technology, Tiruchirappalli organized a two-day All India Workshop on the topic 'Applications of Computational Fluid Dynamics Techniques in Heat Transfer and Energy Systems' under the aegis of Mechanical Engineering Division Board of IEI during June 28-29, 2019 at Tiruchirappalli. The Chief Guest on the occasion, Mr S Chandrasekaran, Additional General Manager, Coal Research and Advanced Ultra Super Critical Boilers, BHEL, Tiruchirappalli, in his inaugural address highlighted that the use of CFD to simulate flow problems has risen dramatically in the past three decades and is now a well-established discipline shared by a number of engineering and science branches. He further mentioned that CFD has emerged as a powerful tool for solving a wide variety of industrial problems. 'With the rapid development of computer capabilities, especially the large-scale parallel computing, CFD is progressively being adopted to optimize existing equipment and to predict the performance of new designs even while they are in the conceptual stage of development', Mr Chandrasekaran opined. He clarified that the current research is concentrated on overcoming the principle weaknesses of CFD, namely how it deals with turbulence and dispersed multiphase flows. Earlier, Dr N Kumaresan, Chairman of the Centre, welcomed the august gathering. Dr S Venkatachalapathy, Professor, Department of

Mechanical Engineering, National Institute of Technology, Tiruchirappalli explained the theme of the Workshop. Dr S P Sivapirakasam, Professor and HoD, Department of Mechanical Engineering, NIT Tiruchirappalli delivered his address and highlighted the importance of computational fluid dynamics for engineering applications. A large number of eminent personalities from academic institutions and industries spoke and discussed on various sub-themes during technical sessions of the two-day Workshop.



# Imperatives of Engineering Education: Enhancing Skills and Employability

One Day 'Industry-Academia Interface' on the topic 'Imperatives of Engineering Education: Enhancing Skills and Employability' as a part of Centenary Celebrations of IEI was organised by the Institution and hosted by West Bengal State Centre in association with American Society of Civil Engineers (ASCE) and Federation of Small and Medium Industries (FOSMI) on August 7, 2019 at Sir R N Mookerjee Hall, Kolkata. Mr Aloke Mookerjee, Chairman Emeritus, Flakt India Limited and Former Chairman, WEBEL,

mentioned that engineering education must develop students capable of facing new situations with competence in respect of professional and social responsibilities. He concluded his speech with the remarks that ethics and sustainable developments are another challenges to the engineers during the forthcoming years. Special Guest of the function, Dr T M Gunaraja, President, IEI in his address expressed his concern regarding the upcoming challenges for the engineering fraternity. President, IEI mentioned the significance of



graced the occasion as the Chief Guest. Mr Mookerjee, while speaking on the theme highlighted on the need and expectations of knowledge, attitude and skills, which include communication skills, ability to work in a team, analytical and conceptual thinking, cognitive skills, generic competition, employability, confidence and personality factors. He further

interface programme, quality of engineering education, development of employability skills for young engineers and so on. Special Guest during the occasion, Smt Manoshi RoyChowdhury, Co-Chancellor, Techno India University, during her address emphasized on personality development of students. Guest-of-Honour on the occasion, Mr Sisir Kumar Banerjee, Immediate Past President, IEI rightly projected the employment problem of the graduate engineers and mentioned that it is the time to create the environment where Industry and academia can meet and discuss different issues and further course of

action. Prof Goutam Sengupta, Vice Chancellor, Techno India University and Chairman of this event, in his address stressed on economic growth to the desired level. Earlier, Mr Sandip Kumar Deb delivered the welcome address. Mr Kalipada Das, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

## Safety Aspects at Construction Sites

Goa State Centre of the Institution in association with Indian Concrete Institute, Goa Chapter organized two-day All India Seminar on the topic 'Safety Aspects at Construction Sites' under the aegis of Civil Engineering Division Board of IEI during June 14-15, 2019 at Margao, Goa. Dr Babita Angle Prabhudessai, Chairperson, Margao Municipal Council (MMC), Goa, graced the occasion as Chief Guest. Dr Prabhudessai, in her speech laid down the emphasis on fire safety at the sites and requested engineers to work out methods and processes for creating good and safe environment at the sites. She further pointed out about the construction and demolition waste which are being dumped haphazardly and thus created safety related issues. She opined that the engineers should innovate new methods to solve these problems. The Guest-of-Honour of the function, Mr Manoj M Caculo, President, Goa Chamber of Commerce & Industry (GCCl), in his address explained the need for regulations to be brought about for safety and highlighted the provisions in the rules mentioned in government forms filled in by the builders during the time of taking permissions, which if followed, the safety would be generated at the sites. Earlier, welcoming



the august gathering, Mr Chandrashekar G Prabhudessai, Chairman of the Centre emphasized upon the need of safety in construction and stated that the safety at construction sites is of paramount importance. Mr Anwar Isaac Khan, Convener of the event presented a brief overview of the Seminar and explained the significance of each sub-theme at the construction sites. A large number of papers on various sub-themes were presented and discussed during the technical sessions of the Seminar.



# Advances in Manufacturing Systems and Composites Fabrication

**Rajasthan State Centre** of the Institution in association with Bhartiya Skill Development University (BSDU), Jaipur, Bikaner Technical University, Bikaner and The Employers Association of Rajasthan, Jaipur organized Two-day All India Seminar on the topic 'Advances in Manufacturing Systems and Composites Fabrication' under the aegis of Mechanical Engineering Division

Board of IEI during July 13-14, 2019 at Jaipur. The Chief Guest of the function, Mr N K Jain, President, The Employers Association of Rajasthan, Jaipur, in his address stressed on fulfilling the industrial demand of skilled employable workforce. Prof (Dr) Ravi Kumar Goyal, Director (Admissions) & Principal, School of Entrepreneurship Skills, BSDU, Prof (Dr) Binit Kumar Jha, Principal, School of Manufacturing Skills, BSDU, Prof Achintya Chaudhary, Registrar, BSDU, and Mr Devendra Sharma, Registrar, Rajasthan ILD Skills University (RISU) graced the occasion as the Guests-of-Honour. Prof Goyal, in his address mentioned that the theme of Seminar focuses on use of newer materials like composite matrices. Prof Binit Kumar Jha, in his address enumerated that industry is using composite materials to reduce weight of products. Mr Devendra Sharma, during his address, also highlighted on providing hands on experience to the students to fulfill the demand of employable workforce by the industry. Prof Achintya Chaudhary also spoke during the occasion Earlier, Mr Sajjan Singh Yadav, Chairman of the Centre, in his welcome address mentioned that Mechanical Engineering is a broad field of engineering that involves application of engineering principles for analysis, design, manufacturing and maintenance of mechanical systems. 'India needs to provide graduates with a range of practical skills required for success in professional activities', he added. Dr J L Sehgal, Past Chairman of the Centre proposed the vote of thanks.



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# News-in-Brief

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

## STATE CENTRES

### Delhi

Organized 'Twenty-sixth Dr S P Luthra Memorial Lecture' delivered by G S Yadava, Former Head, MMEC, IIT Delhi and Past Chairman of the Centre on July 27, 2019.

### Gujarat

Workshop on 'Complex System Realization Using Artificial Intelligence and Experimental Learning (Communication and Creating Knowledge)' on July 29, 2019.

### Karnataka

Lecture on 'Construction Hazards in Large Civil Engineering Projects' delivered by Mr T K Chandrasekaran, Risk Management/Engineering Consultant, Bangalore on July 31, 2019.

Lecture on 'Architectural and Industrial Acoustics' delivered by Mr Arun Sulkunte Iyengar on August 2, 2019.

Lecture on 'Artificial Intelligence Based Quality Inspection' delivered by Mr Murali Srinivas, Managing Director- LIONS CIRCUITS, Bangalore on August 6, 2019.

### Kerala

Lecture on 'Wave Ventilator – A Beach Restoration and Anti Sea Erosion Method' delivered by Dr V R Panicker, Retd. DFO on August 7, 2019.

Workshop on 'Bridging Employability Gaps through Skill Delivery Platforms' on August 9, 2019.

Lecture on 'Introduction to Block Chain' delivered by Prof K Babu, Professor, Sarabhai Institute of Science & Technology, Thiruvananthapuram on August 28, 2019.

### Rajasthan

Seminar on 'Dredging Technology in Remediation and Environmental Protection Application' during June 15-16, 2019.

### Telangana

Fifth Dr S Raghavachari Endowment Lecture on "A Model for Rural Roads Development – A Case Study" delivered by Prof B P Chandrasekhar, Founder Director (Technical), NRRDA, New Delhi on August 15, 2019.

### Uttar Pradesh

Lecture on 'Artificial Ground Water Recharge via Kharif Canals' delivered by Dr Deep Kumar Gupta, Engineer-in-Chief (Retired), Irrigation Department, UP on August 9, 2019.

Lecture on 'Energy Freedom in India by Harnessing Renewable Energy up to 2030' delivered by Dr Bharat Raj Singh, Director General (Technical), School of Management Sciences, Lucknow and Immediate Past Chairman of the Centre on August 18, 2019.

## LOCAL CENTRES

### Ahmednagar

Workshop on 'Applications in Excel for Engineers' on August 9, 2019.

### Coimbatore

Lecture on 'Technology Advances in Spinning' delivered by Mr S Karuppuswamy, Marketing Manager, Rieter India Private Limited on July 22, 2019.

### Dhanbad

Lecture on 'Mass Production Technology for Underground Coal Mining in India: Status, Issues and Prospects' delivered by Dr Ranjan Kumar, Principal Scientist, Mining Methods & Mine Design Simulation, CSIR-CIMFR, Dhanbad

### Durgapur

Lecture Meeting on 'Post Independence Engineering Achievements' on August 15, 2019.

### Ghaziabad

Lecture on 'Leadership Management Development' delivered by Prof R K Singhal, HoD-MBA, ABES Engineering College, Ghaziabad, on August 31, 2019.

### Indore

Lecture on 'Sustainable Energy Sources and Challenges' delivered by Dr Sandeep Kumar, Assistant Professor, Department of Energy Science and Engineering, Indian Institute of Technology, Bombay on July 11, 2019.

### Kalaburagi

Lecture on 'EMI Shielding Materials' delivered by Dr Baram Sahoo, Associate Professor, Materials Research Centre, Indian Institute of Science Bengaluru on August 31, 2019.

### Kanpur

Lecture on 'Recent Advancements in Building Construction' delivered by Mr Vijay Lokesh Singh, Assistant Professor, Department of Civil Engineering, HBTU, Kanpur on July 26, 2019.

Lecture on 'Low RPM Low Wind Velocity Aero-generator' delivered by Mr Avinash D Shirode, Former Council Member, IEI on July 26, 2019.

### Kanyakumari

Seminar on 'Deciphering Internet of Things' on August 3, 2019.

### Meerut

Lecture on 'Environment and Health' delivered by Mr B D Sharma, Convener, Indian Water Resources Society, Meerut Chapter on August 11, 2019.

### Ranipet

Lecture on 'Ground Water Research, Rain water Harvesting & Vasthu Sasthram' delivered by Dr P Porchelvan, Senior Professor, School of Civil Engineering, VIT, Vellore on August 21, 2019.

### Saurashtra

Lecture on 'Top Skills require in 2020' delivered by Dr Pareshe Kaniya, Founder & Director, AIQ India on August 7, 2019.

### Tirunelveli

Organized Career Enhancement Program on 'Scope for Learning Japanese & Job Opportunities' on August 27, 2019.

### Tiruvallur

Celebrated World Environment Day 2019 on August 17, 2019.

### Trichur

Lecture on 'Dairy Engineering – Technological Interventions for Milk and Milk Products' delivered by Mr Aswin S Warriar, Kerala Veterinary & Animal Sciences University, Thrissur on August 15, 2019.

### Visakhapatnam

Conducted Training Programme on 'Lubrication Management & Complete Tribology' during August 27-31, 2019.





# Water Management Forum

A Peripheral body of the Institution of Engineers (India)

## The Institution of Engineers (India)



BhaikakaBhavan, Opp Law Garden, Ellisbridge, Ahmedabad 380006  
Email: [iei-wmf@ieindia.org](mailto:iei-wmf@ieindia.org) , [watermanagementforum@gmail.com](mailto:watermanagementforum@gmail.com)

### WMF announces award for Best Contribution towards Conservation of Water in Individual as well as Institutional categories 2019

#### Criteria for consideration

- The Individual should be an engineer by profession. In case of in institution, it should have been engaged in engineering activities.
- The individual/institution must have achieved excellence in water resources management within India.
- The Awards will be considered broadly, but not limited to the following parameters:
  - Innovative protection of ground water augmentation- Rain water harvesting/ artificial recharge in urban and rural areas
  - Optimum utilization of water in agriculture sector
  - Promoting water use efficiency
  - Recycling/reuse of water
  - Creating awareness through public participation.
  - Adequate capacity building amongst stake holder.
  - Contribution towards related activities will also be considered.
- Award shall carry a Citation and Plaque.

#### Evaluation Criteria

The assessment of applications to identify contribution of professionals- individual/ institutional in the field as enumerated under ( b ) & ( c ) above through innovation, creativity, commitment, achievement, well researched and sustainability.

#### Awards

One best nomination in both categories shall be selected by the Jury of eminent persons appointed by WMF. Winner shall be conferred upon an Award, a certificate and a cash prize of Rs. 10000/- each.

**Individuals/ Institutions shall make an application before 30th September '2019 in the format enclosed and send by post / courier to The Director, Water Management Forum, c/o The Institution of Engineers (India), BahikakaBhavan, Opp Law Garden, Near Ellisbridge Gymkhana, Ahmedabad 380006. Email – [watermanagementforum@gmail.com](mailto:watermanagementforum@gmail.com)**

#### APPLICATION FORMAT FOR WATER MANAGEMENT FORUM AWARDS - 2019

1) NAME OF THE APPLICANT/ INSTITUTION	
2) ADDRESS: (Please provide email, telephone, mobile numbers)	
A) OFFICE :	
B) RESIDENCE:	
3) Details of membership with professional bodies:	
4) Significant contribution in the field of water management with supporting documents :	
5) Names and addresses of references (at least (2)) in the related field with whom either worked or known to the applicant's work :	
6) Social relevance of the contribution:	
7) Whether the achievements have already been recognized for awards by any well recognized organization? If so, the name of the body, award and the year of award may be given. A copy of citation may also be enclosed.	
8) Any additional information of relevance.	
PLACE:	
SIGNATURE	
NAME / HEAD OF THE ORGANISATION	
DATE:	

**Note: Please attached necessary copies of documents.**

# One Day Seminars/Workshops Conducted by Various Centres of IEI

## STATE CENTRES

### Gujarat

Gujarat State Centre of the Institution in association with Sardarkrushinagar Dantiwada Agricultural University (SDAU), Sardarkrushinagar & Water Management Forum (WMF) of IEI organized One Day Workshop on the topic 'Rainwater Harvesting, Management and Crop Planning' and an Exhibition on 'Save Water' under the aegis of Agricultural Engineering Division Board of IEI on August 21, 2019 at Dantiwada, Gujarat. Mr M P Raval, Chairman, WMF, IEI graced the occasion as the Chief Guest and addressed the august gathering. Dr B S Deora, Principal and Dean,



College of Renewable Energy & Environmental Engineering, SDAU delivered the welcome address. Other eminent dignitaries present in the function included Dr R K Patel, Hon'able Vice Chancellor, SDAU, Dantiwada; Dr C K Patel, Chief Scientist, AICRPDA, CNRM, SDAU and others. Earlier Mr H U Kalyani, Chairman Gujarat State Centre Addressed the gathering.

### Himachal Pradesh

Himachal Pradesh State Centre of the Institution in association with GE T&D India Limited organized One Day Workshop on the topic 'Modernizing Himachal Pradesh's Grid (A Workshop on Latest Grid Technologies)' under the aegis of Electrical Engineering Division Board of IEI on August 8, 2019 at Shimla. Hon'ble Chief Minister of Himachal Pradesh, Mr Jai Ram Thakur inaugurated the Workshop and addressed the august gathering. Other dignitaries graced the occasion included Mr Suneel Grover, Chairman, National Skill Development Forum (NSDF), IEI; Mr Sunil Wadhwa, Managing Director, GE T&D India Ltd; Mr R K Sharma and Mr Vishwa Mohan Joshi, Chairman and Honorary Secretary of the Centre respectively. Technical sessions include papers on Artificial Intelligence and Digital Transformation in transmission, key trends in sub station automation and software solutions in grid, travelling wave fault location for precision fault location etc.



College of Renewable Energy & Environmental Engineering, SDAU delivered the welcome address. Other eminent dignitaries present in the function included Dr R K Patel, Hon'able Vice Chancellor, SDAU, Dantiwada; Dr C K Patel, Chief Scientist, AICRPDA, CNRM, SDAU and others. Earlier Mr H U Kalyani, Chairman Gujarat State Centre Addressed the gathering.

### Kerala

Kerala State Centre of the Institution organized One Day Workshop on the topic 'Bridging Employability Gap through Skill Delivery Platforms' under the aegis of Interdisciplinary Coordination Committee (ICC) of IEI on August 9, 2019 at Thiruvananthapuram. Dr Rajasree M S, Vice Chancellor, of A P J Abdul Kalam Technological University (KTU), inaugurated the Workshop and



addressed the august gathering. Mr N Rajkumar, Immediate Past Chairman of the Centre chaired the inaugural function. Other eminent personalities graced the occasion included Dr S Sasikumaran Nair, Member, Board of Governors, Sree Chithra Thirunal College of Technology, Dr K Suresh, Principal, Govt Engineering College, Barton Hill and Dr S Jayakumar, Dean, College of Engineering, Trivandrum and Prof S Radhakrishnan, Honorary Director, CERCON. Mr Ashok Kumar K, Honorary Secretary, Kerala State Centre proposed the vote of thanks.

### Uttar Pradesh

Uttar Pradesh State Centre of the Institution organized One Day Seminar on the topic 'Advance Processing Technologies in Chemical Industries' under the aegis of Chemical Engineering Division Board of IEI on August 4, 2019 at Lucknow. Dr (Ms) Vandana Prasad, Director, Birbal Sahni Institute of Palaeosciences, Lucknow graced the occasion as the Chief Guest and inaugurated the Seminar. Dr V K Singh, Director-Engineering, Babu Banarasi Das Northern India Institute of Technology, Lucknow and Dr C M Nautiyal, a renowned Scientist and formal In-charge of Birbal Sahni Institute of Palaeosciences, Lucknow graced the occasion as Guests-of-Honour and addressed the gathering. Number of papers were presented during the technical sessions on radiocarbon dating of natural/environmental samples, chemical process in space, extraction technology of natural products etc. Mr Prabhat Kiran Chaurasia, Honorary Secretary, Uttar Pradesh State Centre proposed the vote of thanks.



### West Bengal

West Bengal State Centre of the Institution organized One Day Seminar on the topic 'Chemical and Biosafety' under the aegis of Chemical Engineering Division Board of IEI on August 24, 2019. Mr Mrityunjoy Sil, Head, Safety Engineering Department, Haldia Petrochemicals Ltd. (HPL) graced the occasion as Chief Guest and addressed the gathering on different safety aspects in industry.



Eminent speakers deliberated during the occasion on bio-safety, accidental hazards, safety in chemical industries and so on.

## LOCAL CENTRES

### Faridabad

Faridabad Local Centre of the Institution in association with Manav Rachna International Institute of Research and Studies (MRIIRS), Faridabad organized One Day Workshop on the topic 'Industrial Safety: Accident Prevention' under the aegis of Interdisciplinary Coordination Committee (ICC) of IEI on August 10, 2019 at Faridabad. Dr M K Soni, Pro Vice Chancellor, MRIIRS graced the occasion as Chief Guest and addressed the gathering. Mr Jitendra Kumar Sharma, Director, Safety and Quality Forum, Honorary Secretary, Delhi State Centre,





IEI was present during the occasion as the Guest-of-Honour. Distinguished Guest, Mr Dinesh Kumar, Chairman, Delhi State Centre, IEI was also present during the occasion and addressed the gathering.

#### Gwalior

Gwalior Local Centre of the Institution organized One Day Seminar on the topic 'Smart Materials and their application to Aerospace, Mechanical and Civil Structures' under the aegis of Metallurgical and Materials Engineering Division Board of IEI on August 11, 2019 at Gwalior. Mr Ankit Shukla, Senior Engineer, QUEST Global India graced the occasion as the Keynote Speaker and explained different extrinsic, intrinsic capabilities of materials, different aspects of stimulus and response. Other eminent speakers addressed the gathering included Mr R K Khetan, Visiting Professor, Vikrant Group, Gwalior; Dr M K Gaur, Professor, Mechanical Engineering Department, MITS, Gwalior; Maj Gen (Dr) SC Jain, VSM



(Retd), Director, Amity School of Engineering and Technology, Gwalior; Mr R C Amlani, Retd Superintendent Engineer, Irrigation, Gwalior and Dr S K Agrawal, Former Professor and Head, Mechanical Engineering Department, MNNIT, Allahabad. Earlier, Prof (Dr) Pramod Kumar Singhal, Chairman, Gwalior Local Centre welcomed the august gathering.

#### Kanchepuram

Kanchepuram Local Centre of the Institution organized One Day Seminar on the topic 'Tele-health Technology' under the aegis of Computer Engineering Division Board of IEI on August 9, 2019 at Kanchepuram. Eminent dignitaries graced the occasion and addressed the gathering included Dr C V Jayakumar, Principal, Agni College of Technology (ACT); Dr K Sundaramoorthy, Professor & Head, Department of IT, ACT and Dr Jayasree, Anna University. Fruitful deliberations carried out on application of multimedia technologies in telemedicine, protocols behind encryption techniques for secure data transmission etc.



## Advertisement Tariff in IEI Publications

#### IEI News (Printed + online)

**Reach :** 1,25,000 members by email + 3200 hard copies to industries, Government Departments and others + Available online

**Schedule :** Monthly - 12 issues in a year

#### Rate per issue

Description	Size	Type	Total Cost (Rs.) (including GST)
Inside Full Page	20.6 cm (width) x 27.6 cm (height)	Colour	50,000
Inside Half Page	20.6 cm (width) x 13.75 cm (height)	Colour	30,000
Inside Quarter Page	10.3 cm (width) x 13.75 cm (height)	Colour	15,000
5% discount for advertisement in 6 consecutive issues 10% discount for advertisement in 12 consecutive issues			

#### IEI Epitome (Online)

**Reach :** 1,25,000 members by email + Available online perpetually

**Schedule :** Monthly - 12 issues in a year

#### Rate per issue

Description	Size	Type	Total Cost (Rs.) (including GST)
Inside Full Page	18.9 cm (width) x 23.1 cm (height)	Colour	30,000
Inside Half Page	18.9 cm (width) x 11.55 cm (height)	Colour	15,000
Inside Quarter Page	9.46 cm (width) x 11.55 cm (height)	Colour	8,000
5% discount for advertisement in 6 consecutive issues 10% discount for advertisement in 12 consecutive issues			

#### Annual Technical Volumes of Engineering Divisions (Printed + online)

Aerospace Engineering Division	Agricultural Engineering Division
Architectural Engineering Division	Chemical Engineering Division
Civil Engineering Division	Computer Engineering Division
Electrical Engineering Division	Electronics & Telecommunication Engineering Division
Environmental Engineering Division	Marine Engineering Division
Mechanical Engineering Division	Metallurgical and Materials Engineering Division
Mining Engineering Division	Production Engineering Division
Textile Engineering Division	Interdisciplinary Coordination Committee

**Reach :** 1,25,000 members by email + 500 hard copies to industries and Government Departments + Available online

**Schedule :** One issue in a year per Engineering Division

#### Rate per issue

Description	Size	Type	Total Cost (Rs.) (including GST)
Back Cover Page	16.8 cm (width) x 22.6 cm (height)	Colour	30,000
Inside Cover Page	16.8 cm (width) x 22.6 cm (height)	Colour	25,000
Inside Full Page	16.8 cm (width) x 22.6 cm (height)	Colour	20,000
Inside Full Page	16.8 cm (width) x 22.6 cm (height)	B/W	15,000
Inside Half Page	16.8 cm (width) x 11.3 cm (height)	B/W	8,000

**For booking, Please write to:**

**Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata - 700020**

**Email: [technical@ieindia.org](mailto:technical@ieindia.org)**

**[Payment is to be made by 'at par' cheque drawn in favour of The Institution of Engineers (India)]**

# IEI DIARY



## Aerospace Engineering Division

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 [☎: (020) 25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

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

Kanpur, November 09-10, 2020

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

## Agricultural Engineering Division

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 [☎: (080) 22264698; Telefax: 080-22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

## Architectural Engineering Division

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 [☎: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

## Chemical Engineering Division

All India Seminar on **"Recent Developments in Technological Options for Resource Recovery in Chemical Process Industry"**

Hyderabad, October 03-04, 2019

The Honorary Secretary, IEI, Telangana State Centre, Visvesvarya Bhavan, Khairatabad, Hyderabad 500004 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org; website: www.ieitsc.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 [☎: (033) 22238914; Fax: (033) 22233140; e-mail: wbsc@ieindia.org]

International Conference on **"Technologies for Manufacturing Less Polluting and Green Crackers"**

Madurai, July 02-03, 2020

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

## Civil Engineering Division

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

Hyderabad, October 15-16, 2019

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

All India Seminar on **"Sustainable Water Management & Conservation"**

Lucknow, November 02-03, 2019

The Honorary Secretary, IEI, Uttar Pradesh State Centre, Engineers' Bhawan, River Bank Colony, Lucknow 226018 [Telefax: (0522) 2625322; e-mail: upsc@ieindia.org; website: www.ieiup.org.in]

International Conference on **"Building the Disaster Resilient Society in BIMSTEC Countries: Role 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: tripurascc@ieindia.org]

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

Bhubaneswar, March 7-8, 2020

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

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

Ranchi, September 08-09, 2020

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

## Computer Engineering Division

One Day Workshop on **"Machine Learning Techniques using PYTROC"**

Tiruchirapalli, October 05, 2019

The Honorary Secretary, IEI, Tiruchirapalli Local Centre, Near Ganesa Bus Stop, BHEL Main Office Road, Opposite to 79 Building, Tiruchirapalli 620014 [☎: 0431-255 4285 / 2574022; e-mail: tiruchirapallilc@ieindia.org]

International Conference on **"Opportunities and Challenges of Blockchain Technology"**

Chennai, October 17-18, 2019

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

International Conference on **"Next Generation Computing Technologies"**

Dehradun, December 20-21, 2019

The Honorary Secretary, IEI, Uttarakhand State Centre, Engineers Bhawan, Near ISBT Flyover, Saharanpur Road, Dehradun 248002 [☎: 0135 2641190; Mobile: 9412056431; e-mail: uttarakhandsc@ieindia.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 [☎: (0172) 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 [☎: (0141) 2706327; Telefax: (0141) 2700413; e-mail: rajasthansc@ieindia.org]

### Electrical Engineering Division

#### All India Seminar on “Industrial Development through Green Energy”

Alwar, October 12-13, 2019

The Honorary Secretary, IEI, Alwar Local Centre, Government Polytechnic College Campus, Kali Mori, Alwar 301001 [☎: (0144) 2704868; e-mail: alwarlc@ieindia.org]

#### Thirty-fifth National Convention of Electrical Engineers on “Storing Energy for a Sustainable Future: Future Energy in any Isolated World”

Chennai, November 08-09, 2019

The Honorary Secretary, IEI, Tamilnadu State Centre, 19, Swami, Sivananda Salai, Chempauk, Chennai 600005 [☎: (044) 25360614 / 25369433; e-mail: tnscc@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 [☎: (033) 22238914; Fax: (033) 22233140; e-mail: wbssc@ieindia.org]

#### All India Seminar on “Role of Smart Grid for Rural Electrification”

Bhubaneswar, December 07-08, 2019

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

#### International Conference on “Water, Energy and Biodiversity for Sustainable Development of BIMSTEC Countries”

Dhaka, December 12-14, 2019

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

#### 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 [☎: (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 [☎: (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 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org; website: ieitsc.org]

### Electronics & Telecom. Engineering Division

#### All India Seminar on “ARM Processor”

Bangalore, October 25-26, 2019

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

#### 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, Kunjipura Road, Karnal 132001 [☎: (0184) 2266176, e-mail: haryanasc@ieindia.org]

#### All India Seminar on “5G and Its Scopes for Different Technologies”

Bhubaneswar, November 9-10, 2019

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

#### All India Workshop on “Impact of Advancement in Wireless Technology (5G/6G) on Indian Society”

Chandigarh, November 25-29, 2019

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

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

#### All India Seminar on “Energy Efficient Techniques in 5G Wireless Communication Systems”

Coimbatore, November 28-29, 2019

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

### Environmental Engineering Division

#### One Day Seminar on “Air Pollution Challenges and Control”

Anpara, October 20, 2019

The Honorary Secretary, IEI, Anpara Local Centre, Visvesvaraya Bhawan, (Near Forgener Field Hostel), Anpara Thermal Power Colony, P.O. Anpara, Dist Sonebhadra, UP 231 225 [☎: 05446-274888; Fax: 05446-274888; e-mail: anparalc@ieindia.org]

#### One Day Seminar on “Urban Rain Water Harvesting”

Kanchepuram, October 23, 2019

The Honorary Secretary, IEI, Kanchepuram Local Centre, Agni College of Technology, Old Mahabalipuram Road, Thalambur, Chennai 600130 [e-mail: kanchepuramlc@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 [☎: (0651) 2491344; e-mail: jharkhandsc@ieindia.org; website: www.iejsc.org]

#### International Conference on “Environmental Degradation: Key Challenges to Sustainable Development”

Hyderabad, November 22-24, 2019

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

#### All India Seminar on “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: puducherryisc@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 [☎: (0484) 2403838 / 3993 e-mail: kochilc@ieindia.org; website: www.ieikochi.org]

### Mechanical Engineering Division

#### 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 [☎: (080) 22264698; Telefax: (080) 22256191; e-mail: karnatakasc@ieindia.org; www.ieiksc.org]

#### One Day Seminar on "New Trends in Industrial Automation"

Salem, November 29, 2019

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

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

Agartala, September 05-06, 2020

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

#### 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 [☎: (011) 23379052 / 23379948; e-mail: delhisc@ieindia.org; website: www.ieidsc.in]

### 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 [☎: (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

#### Thirty-first National Convention of Mining Engineers on "Future Strategies for Sustainable Mining"

Goa, October 04-05, 2019

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

#### 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 [☎: (040) 23314969; e-mail: telanganasc@ieindia.org; website: ieitsc.org]

### Production Engineering Division

#### All India Seminar on "Advanced Welding Techniques"

Surat, October 3-4, 2019

The Honorary Secretary, IEI, South Gujarat Local Centre, Mahida Bhavan, Ichchhanath, Surat 395007 [☎: (0261-2227340; e-mail: sgilc@ieindia.org]

#### All India Seminar 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 [☎: (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 [☎: (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 09-10, 2020

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

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

Ahmedabad, February 20-21, 2020

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

### Interdisciplinary

#### 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 [☎: (020) 25533376 / 25520239 / 25530150; e-mail: punelc@ieindia.org]

#### All India Seminar on "Innovative Technology for Economic Development"

Brahmapur, October 25-26, 2019

The Honorary Secretary, IEI, Brahmapur Local Centre, O/o The Executive Engineer, Quality Control Division, Courtpetta, Dist Ganjam, Brahmapur 760004 [e-mail: berhampurc@ieindia.org]

#### All India Workshop on "Opportunities for Industry 4.0 Applications in Indian Industries"

Tiruchirapalli, January 03-04, 2020

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



## 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

## 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](http://www.ieindia.org) under Certification for details.

For further clarification you may call at: 033-40106304 or Email at [certification@ieindia.org](mailto:certification@ieindia.org)



# 34<sup>th</sup> INDIAN ENGINEERING CONGRESS

Hyderabad, December 27-29, 2019

Theme:

**Societal Engineering – Imperatives 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](mailto:telanganasc@ieindia.org); website : [www.ieitsc.org](http://www.ieitsc.org)

To Contribute Papers, please follow the link :

[https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers)

## IEI AWARDS

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 34th Indian Engineering Congress. The topics for the year 2019 are given hereunder.

### SAIL AWARD

**'Scrap Supplements and Alternative Iron Making'**

### DR M VISVESVARAYA AWARD

**'Technology Strategy for Improved Safety Management in Steel Industry'**

The Coal India Ltd (CIL) had instituted an Award to perpetuate the memory of Late J G Kumaramangalam, its first Chairman to be awarded every year during the Indian Engineering Congress to author/s of the articles adjudged best on a selected topic. The topic for the year 2019 is given below.

### Coal India (J G Kumaramangalam Memorial) Award

**'Challenges in Large Open Cast Mine in respect of Production, Safety & Green Mining Initiatives and Way Forward'**

Intending contributors are requested to send the soft copy of the paper by email to [award@ieindia.org](mailto:award@ieindia.org) (with subject heading Paper for SAIL / Dr M Visvesvaraya Award / Coal India (J G Kumaramangalam Memorial) Award and submit four printed copies of their manuscript to:

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

**Last date of submission: October 15, 2019.**

For downloading the template of paper and declaration form, please visit the following link:

[https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers)

## IEI NEWS

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